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Cover Page

Order ID : P1747

Project ID : Walter Gladwin Recreation Center, Bronx, NY

Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
P1747-01	MW-01
P1747-02	MW-01-DUP
P1747-03	MW-01
P1747-04	MW-02
P1747-05	TWP-04
P1747-06	TRIP-BLANK-1
P1747-07	MW-01
P1747-08	MW-01-DUP
P1747-09	MW-02
P1747-10	TWP-04

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 3/28/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P1747**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: **PRIYANKA DAVE** **Date:** **03/28/2024**

2nd Level QA Review Signature: _____ **Date:** _____

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-02	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			Mercury	245.1		03/20/24	03/20/24	
			METALS-NYCD	200.7		03/14/24	03/20/24	
			METALS-NYCD	200.7		03/14/24	03/21/24	
P1747-04	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-05	**TWP-04**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-07	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-08	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-09	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-10	**TWP-04**	**Water**			**03/12/24**			**03/13/24**

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LAB CHRONICLE

Dissolved ICP-TAL Metals	6010D	03/14/24	03/18/24
Dissolved Mercury	7470A	03/15/24	03/19/24

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-01								
P1747-01	MW-01	Water	Aluminum	123		28.3	50.0	ug/L
P1747-01	MW-01	Water	Barium	15.8	J	6.28	50.0	ug/L
P1747-01	MW-01	Water	Calcium	21300		33.0	1000	ug/L
P1747-01	MW-01	Water	Chromium	0.73	J	0.66	5.00	ug/L
P1747-01	MW-01	Water	Iron	337		18.5	50.0	ug/L
P1747-01	MW-01	Water	Magnesium	3080		39.4	1000	ug/L
P1747-01	MW-01	Water	Manganese	113		1.46	10.0	ug/L
P1747-01	MW-01	Water	Nickel	1.14	J	0.85	20.0	ug/L
P1747-01	MW-01	Water	Potassium	1840		685	1000	ug/L
P1747-01	MW-01	Water	Sodium	18100		237	1000	ug/L
P1747-01	MW-01	Water	Zinc	64.2		1.75	20.0	ug/L
Client ID : MW-01-DUP								
P1747-02	MW-01-DUP	Water	Aluminum	377		28.3	50.0	ug/L
P1747-02	MW-01-DUP	Water	Barium	19.3	J	6.28	50.0	ug/L
P1747-02	MW-01-DUP	Water	Calcium	23000		33.0	1000	ug/L
P1747-02	MW-01-DUP	Water	Chromium	1.47	J	0.66	5.00	ug/L
P1747-02	MW-01-DUP	Water	Copper	7.27	J	7.07	10.0	ug/L
P1747-02	MW-01-DUP	Water	Iron	866		18.5	50.0	ug/L
P1747-02	MW-01-DUP	Water	Magnesium	3400		39.4	1000	ug/L
P1747-02	MW-01-DUP	Water	Manganese	126		1.46	10.0	ug/L
P1747-02	MW-01-DUP	Water	Nickel	1.50	J	0.85	20.0	ug/L
P1747-02	MW-01-DUP	Water	Potassium	1940		685	1000	ug/L
P1747-02	MW-01-DUP	Water	Silver	0.60	J	0.58	5.00	ug/L
P1747-02	MW-01-DUP	Water	Sodium	18300		237	1000	ug/L
P1747-02	MW-01-DUP	Water	Zinc	67.9		1.75	20.0	ug/L
Client ID : MW-01								
P1747-03	MW-01	Water	Copper	2.30	J	1.52	10.0	ug/L
P1747-03	MW-01	Water	Mercury	0.77		0.022	0.20	ug/L
P1747-03	MW-01	Water	Nickel	17.6	J	1.28	20.0	ug/L
P1747-03	MW-01	Water	Zinc	25.7		1.44	20.0	ug/L
Client ID : MW-02								
P1747-04	MW-02	Water	Aluminum	184		28.3	50.0	ug/L
P1747-04	MW-02	Water	Barium	93.1		6.28	50.0	ug/L
P1747-04	MW-02	Water	Calcium	82300		33.0	1000	ug/L
P1747-04	MW-02	Water	Chromium	2.09	J	0.66	5.00	ug/L
P1747-04	MW-02	Water	Iron	112		18.5	50.0	ug/L
P1747-04	MW-02	Water	Magnesium	12800		39.4	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1747-04	MW-02	Water	Manganese	4.47	J	1.46	10.0	ug/L
P1747-04	MW-02	Water	Nickel	1.08	J	0.85	20.0	ug/L
P1747-04	MW-02	Water	Potassium	5590		685	1000	ug/L
P1747-04	MW-02	Water	Selenium	7.04	J	5.88	10.0	ug/L
P1747-04	MW-02	Water	Sodium	22600		237	1000	ug/L
P1747-04	MW-02	Water	Zinc	6.28	J	1.75	20.0	ug/L
Client ID :	**TWP-04**							
P1747-05	TWP-04	Water	Aluminum	1860		28.3	50.0	ug/L
P1747-05	TWP-04	Water	Barium	300		6.28	50.0	ug/L
P1747-05	TWP-04	Water	Beryllium	0.37	J	0.13	3.00	ug/L
P1747-05	TWP-04	Water	Calcium	105000		33.0	1000	ug/L
P1747-05	TWP-04	Water	Chromium	5.81		0.66	5.00	ug/L
P1747-05	TWP-04	Water	Cobalt	1.36	J	0.50	15.0	ug/L
P1747-05	TWP-04	Water	Iron	18000		18.5	50.0	ug/L
P1747-05	TWP-04	Water	Magnesium	30200		39.4	1000	ug/L
P1747-05	TWP-04	Water	Manganese	895		1.46	10.0	ug/L
P1747-05	TWP-04	Water	Nickel	3.13	J	0.85	20.0	ug/L
P1747-05	TWP-04	Water	Potassium	6920		685	1000	ug/L
P1747-05	TWP-04	Water	Silver	1.76	J	0.58	5.00	ug/L
P1747-05	TWP-04	Water	Sodium	61300		237	1000	ug/L
P1747-05	TWP-04	Water	Vanadium	5.60	J	3.06	20.0	ug/L
P1747-05	TWP-04	Water	Zinc	16.4	J	1.75	20.0	ug/L
Client ID :	**MW-01**							
P1747-07	MW-01	Water	Aluminum	157		28.3	50.0	ug/L
P1747-07	MW-01	Water	Barium	16.2	J	6.28	50.0	ug/L
P1747-07	MW-01	Water	Calcium	21600		33.0	1000	ug/L
P1747-07	MW-01	Water	Chromium	7.73		0.66	5.00	ug/L
P1747-07	MW-01	Water	Iron	415		18.5	50.0	ug/L
P1747-07	MW-01	Water	Magnesium	3210		39.4	1000	ug/L
P1747-07	MW-01	Water	Manganese	116		1.46	10.0	ug/L
P1747-07	MW-01	Water	Nickel	4.36	J	0.85	20.0	ug/L
P1747-07	MW-01	Water	Potassium	1780		685	1000	ug/L
P1747-07	MW-01	Water	Sodium	18000		237	1000	ug/L
P1747-07	MW-01	Water	Zinc	64.5		1.75	20.0	ug/L
Client ID :	**MW-01-DUP**							
P1747-08	MW-01-DUP	Water	Aluminum	369		28.3	50.0	ug/L
P1747-08	MW-01-DUP	Water	Barium	19.4	J	6.28	50.0	ug/L
P1747-08	MW-01-DUP	Water	Calcium	21600		33.0	1000	ug/L
P1747-08	MW-01-DUP	Water	Chromium	3.45	J	0.66	5.00	ug/L
P1747-08	MW-01-DUP	Water	Iron	927		18.5	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1747-08	MW-01-DUP	Water	Magnesium	3250		39.4	1000	ug/L
P1747-08	MW-01-DUP	Water	Manganese	121		1.46	10.0	ug/L
P1747-08	MW-01-DUP	Water	Nickel	2.23	J	0.85	20.0	ug/L
P1747-08	MW-01-DUP	Water	Potassium	1870		685	1000	ug/L
P1747-08	MW-01-DUP	Water	Silver	0.59	J	0.58	5.00	ug/L
P1747-08	MW-01-DUP	Water	Sodium	18200		237	1000	ug/L
P1747-08	MW-01-DUP	Water	Zinc	69.8		1.75	20.0	ug/L
Client ID :	**MW-02**							
P1747-09	MW-02	Water	Aluminum	489		28.3	50.0	ug/L
P1747-09	MW-02	Water	Barium	88.9		6.28	50.0	ug/L
P1747-09	MW-02	Water	Calcium	79300		33.0	1000	ug/L
P1747-09	MW-02	Water	Chromium	3.13	J	0.66	5.00	ug/L
P1747-09	MW-02	Water	Iron	345		18.5	50.0	ug/L
P1747-09	MW-02	Water	Magnesium	12500		39.4	1000	ug/L
P1747-09	MW-02	Water	Manganese	5.63	J	1.46	10.0	ug/L
P1747-09	MW-02	Water	Nickel	1.71	J	0.85	20.0	ug/L
P1747-09	MW-02	Water	Potassium	5300		685	1000	ug/L
P1747-09	MW-02	Water	Selenium	6.50	J	5.88	10.0	ug/L
P1747-09	MW-02	Water	Silver	1.49	J	0.58	5.00	ug/L
P1747-09	MW-02	Water	Sodium	21500		237	1000	ug/L
P1747-09	MW-02	Water	Zinc	4.90	J	1.75	20.0	ug/L
Client ID :	**TWP-04**							
P1747-10	TWP-04	Water	Aluminum	1820		28.3	50.0	ug/L
P1747-10	TWP-04	Water	Barium	284		6.28	50.0	ug/L
P1747-10	TWP-04	Water	Beryllium	0.40	J	0.13	3.00	ug/L
P1747-10	TWP-04	Water	Calcium	102000		33.0	1000	ug/L
P1747-10	TWP-04	Water	Chromium	8.29		0.66	5.00	ug/L
P1747-10	TWP-04	Water	Cobalt	1.40	J	0.50	15.0	ug/L
P1747-10	TWP-04	Water	Iron	17500		18.5	50.0	ug/L
P1747-10	TWP-04	Water	Magnesium	29300		39.4	1000	ug/L
P1747-10	TWP-04	Water	Manganese	861		1.46	10.0	ug/L
P1747-10	TWP-04	Water	Nickel	3.32	J	0.85	20.0	ug/L
P1747-10	TWP-04	Water	Potassium	6560		685	1000	ug/L
P1747-10	TWP-04	Water	Silver	1.61	J	0.58	5.00	ug/L
P1747-10	TWP-04	Water	Sodium	58300		237	1000	ug/L
P1747-10	TWP-04	Water	Vanadium	5.20	J	3.06	20.0	ug/L
P1747-10	TWP-04	Water	Zinc	17.6	J	1.75	20.0	ug/L

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SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	123		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-39-3	Barium	15.8	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-70-2	Calcium	21300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-47-3	Chromium	0.73	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-89-6	Iron	337		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-95-4	Magnesium	3080		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-96-5	Manganese	113		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:46	SW7470A	
7440-02-0	Nickel	1.14	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-09-7	Potassium	1840		1	685	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-23-5	Sodium	18100		1	237	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-66-6	Zinc	64.2		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	377		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-39-3	Barium	19.3	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-70-2	Calcium	23000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-47-3	Chromium	1.47	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-50-8	Copper	7.27	J	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-89-6	Iron	866		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-95-4	Magnesium	3400		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-96-5	Manganese	126		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:48	SW7470A	
7440-02-0	Nickel	1.50	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-09-7	Potassium	1940		1	685	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-22-4	Silver	0.60	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-23-5	Sodium	18300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-66-6	Zinc	67.9		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-43-9	Cadmium	0.21	U	1	0.21	3.00	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7440-50-8	Copper	2.30	J	1	1.52	10.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7439-92-1	Lead	1.57	U	1	1.57	6.00	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7439-97-6	Mercury	0.77		1	0.022	0.20	ug/L	03/20/24 12:11	03/20/24 15:19	E245.1	
7440-02-0	Nickel	17.6	J	1	1.28	20.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7440-66-6	Zinc	25.7		1	1.44	20.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	NYCDischarge				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	184		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-39-3	Barium	93.1		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-70-2	Calcium	82300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-47-3	Chromium	2.09	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-89-6	Iron	112		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-95-4	Magnesium	12800		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-96-5	Manganese	4.47	J	1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:51	SW7470A	
7440-02-0	Nickel	1.08	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-09-7	Potassium	5590		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7782-49-2	Selenium	7.04	J	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-23-5	Sodium	22600		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-66-6	Zinc	6.28	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1860		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-39-3	Barium	300		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-41-7	Beryllium	0.37	J	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-70-2	Calcium	105000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-47-3	Chromium	5.81		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-48-4	Cobalt	1.36	J	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-89-6	Iron	18000		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-95-4	Magnesium	30200		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-96-5	Manganese	895		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:53	SW7470A	
7440-02-0	Nickel	3.13	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-09-7	Potassium	6920		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-22-4	Silver	1.76	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-23-5	Sodium	61300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-62-2	Vanadium	5.60	J	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-66-6	Zinc	16.4	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	157		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-39-3	Barium	16.2	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-70-2	Calcium	21600		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-47-3	Chromium	7.73		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-89-6	Iron	415		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-95-4	Magnesium	3210		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-96-5	Manganese	116		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:55	SW7470A	
7440-02-0	Nickel	4.36	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-09-7	Potassium	1780		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-23-5	Sodium	18000		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-66-6	Zinc	64.5		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	

Comments: DISSOLVED METALS-TAL

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	369		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-39-3	Barium	19.4	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-70-2	Calcium	21600		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-47-3	Chromium	3.45	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-89-6	Iron	927		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-95-4	Magnesium	3250		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-96-5	Manganese	121		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:58	SW7470A	
7440-02-0	Nickel	2.23	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-09-7	Potassium	1870		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-22-4	Silver	0.59	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-23-5	Sodium	18200		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-66-6	Zinc	69.8		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	489		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-39-3	Barium	88.9		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-70-2	Calcium	79300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-47-3	Chromium	3.13	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-89-6	Iron	345		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-95-4	Magnesium	12500		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-96-5	Manganese	5.63	J	1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 14:00	SW7470A	
7440-02-0	Nickel	1.71	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-09-7	Potassium	5300		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7782-49-2	Selenium	6.50	J	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-22-4	Silver	1.49	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-23-5	Sodium	21500		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-66-6	Zinc	4.90	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	

Comments: DISSOLVED METALS-TAL

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1820		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-39-3	Barium	284		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-41-7	Beryllium	0.40	J	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-70-2	Calcium	102000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-47-3	Chromium	8.29		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-48-4	Cobalt	1.40	J	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-89-6	Iron	17500		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-95-4	Magnesium	29300		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-96-5	Manganese	861		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 14:02	SW7470A	
7440-02-0	Nickel	3.32	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-09-7	Potassium	6560		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-22-4	Silver	1.61	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-23-5	Sodium	58300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-62-2	Vanadium	5.20	J	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-66-6	Zinc	17.6	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	

Comments: DISSOLVED METALS-TAL

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV53	Mercury	3.68	4.0	92	90 - 110	CV	03/19/2024	12:37	LB129940

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV81	Mercury	4.73	5.0	95	90 - 110	CV	03/19/2024	12:42	LB129940
CCV82	Mercury	5.26	5.0	105	90 - 110	CV	03/19/2024	13:12	LB129940
CCV83	Mercury	5.49	5.0	110	90 - 110	CV	03/19/2024	13:42	LB129940
CCV84	Mercury	5.31	5.0	106	90 - 110	CV	03/19/2024	14:09	LB129940
CCV85	Mercury	5.13	5.0	103	90 - 110	CV	03/19/2024	14:40	LB129940
CCV86	Mercury	5.30	5.0	106	90 - 110	CV	03/19/2024	14:57	LB129940

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV55	Mercury	3.87	4.0	97	95 - 105	CV	03/20/2024	14:24	LB129958

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV89	Mercury	5.01	5.0	100	90 - 110	CV	03/20/2024	14:33	LB129958
CCV90	Mercury	4.63	5.0	93	90 - 110	CV	03/20/2024	15:24	LB129958
CCV91	Mercury	4.62	5.0	92	90 - 110	CV	03/20/2024	15:47	LB129958

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	03/14/2024	12:40	LB129894
	Antimony	1050	1000	105	90 - 110	P	03/14/2024	12:40	LB129894
	Arsenic	1050	1000	105	90 - 110	P	03/14/2024	12:40	LB129894
	Barium	551	520	106	90 - 110	P	03/14/2024	12:40	LB129894
	Beryllium	506	510	99	90 - 110	P	03/14/2024	12:40	LB129894
	Cadmium	505	510	99	90 - 110	P	03/14/2024	12:40	LB129894
	Calcium	10400	10000	104	90 - 110	P	03/14/2024	12:40	LB129894
	Chromium	506	520	97	90 - 110	P	03/14/2024	12:40	LB129894
	Cobalt	498	520	96	90 - 110	P	03/14/2024	12:40	LB129894
	Copper	525	510	103	90 - 110	P	03/14/2024	12:40	LB129894
	Iron	10200	10000	102	90 - 110	P	03/14/2024	12:40	LB129894
	Lead	1020	1000	102	90 - 110	P	03/14/2024	12:40	LB129894
	Magnesium	5930	6000	99	90 - 110	P	03/14/2024	12:40	LB129894
	Manganese	527	520	101	90 - 110	P	03/14/2024	12:40	LB129894
	Nickel	503	530	95	90 - 110	P	03/14/2024	12:40	LB129894
	Potassium	10200	9900	103	90 - 110	P	03/14/2024	12:40	LB129894
	Selenium	1060	1000	106	90 - 110	P	03/14/2024	12:40	LB129894
	Silver	251	250	100	90 - 110	P	03/14/2024	12:40	LB129894
	Sodium	10000	10000	100	90 - 110	P	03/14/2024	12:40	LB129894
	Thallium	1040	1000	104	90 - 110	P	03/14/2024	12:40	LB129894
	Vanadium	505	500	101	90 - 110	P	03/14/2024	12:40	LB129894
	Zinc	1010	1000	101	90 - 110	P	03/14/2024	12:40	LB129894

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	88.2	100	88	80 - 120	P	03/14/2024	12:46	LB129894
	Antimony	53.1	50.0	106	80 - 120	P	03/14/2024	12:46	LB129894
	Arsenic	20.1	20.0	100	80 - 120	P	03/14/2024	12:46	LB129894
	Barium	107	100	107	80 - 120	P	03/14/2024	12:46	LB129894
	Beryllium	6.26	6.0	104	80 - 120	P	03/14/2024	12:46	LB129894
	Cadmium	6.22	6.0	104	80 - 120	P	03/14/2024	12:46	LB129894
	Calcium	2180	2000	109	80 - 120	P	03/14/2024	12:46	LB129894
	Chromium	9.89	10.0	99	80 - 120	P	03/14/2024	12:46	LB129894
	Cobalt	29.2	30.0	97	80 - 120	P	03/14/2024	12:46	LB129894
	Copper	22.3	20.0	111	80 - 120	P	03/14/2024	12:46	LB129894
	Iron	95.9	100	96	80 - 120	P	03/14/2024	12:46	LB129894
	Lead	11.7	12.0	97	80 - 120	P	03/14/2024	12:46	LB129894
	Magnesium	2220	2000	111	80 - 120	P	03/14/2024	12:46	LB129894
	Manganese	21.7	20.0	109	80 - 120	P	03/14/2024	12:46	LB129894
	Nickel	39.7	40.0	99	80 - 120	P	03/14/2024	12:46	LB129894
	Potassium	2030	2000	101	80 - 120	P	03/14/2024	12:46	LB129894
	Selenium	19.9	20.0	100	80 - 120	P	03/14/2024	12:46	LB129894
	Silver	10.7	10.0	107	80 - 120	P	03/14/2024	12:46	LB129894
	Sodium	1970	2000	98	80 - 120	P	03/14/2024	12:46	LB129894
	Thallium	41.5	40.0	104	80 - 120	P	03/14/2024	12:46	LB129894
	Vanadium	43.6	40.0	109	80 - 120	P	03/14/2024	12:46	LB129894
	Zinc	43.5	40.0	109	80 - 120	P	03/14/2024	12:46	LB129894

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10200	10000	102	90 - 110	P	03/14/2024	13:18	LB129894
	Antimony	5020	5000	100	90 - 110	P	03/14/2024	13:18	LB129894
	Arsenic	4960	5000	99	90 - 110	P	03/14/2024	13:18	LB129894
	Barium	10500	10000	105	90 - 110	P	03/14/2024	13:18	LB129894
	Beryllium	255	250	102	90 - 110	P	03/14/2024	13:18	LB129894
	Cadmium	2430	2500	97	90 - 110	P	03/14/2024	13:18	LB129894
	Calcium	26500	25000	106	90 - 110	P	03/14/2024	13:18	LB129894
	Chromium	956	1000	96	90 - 110	P	03/14/2024	13:18	LB129894
	Cobalt	2440	2500	98	90 - 110	P	03/14/2024	13:18	LB129894
	Copper	1250	1250	100	90 - 110	P	03/14/2024	13:18	LB129894
	Iron	4890	5000	98	90 - 110	P	03/14/2024	13:18	LB129894
	Lead	4920	5000	98	90 - 110	P	03/14/2024	13:18	LB129894
	Magnesium	25100	25000	100	90 - 110	P	03/14/2024	13:18	LB129894
	Manganese	2620	2500	105	90 - 110	P	03/14/2024	13:18	LB129894
	Nickel	2470	2500	99	90 - 110	P	03/14/2024	13:18	LB129894
	Potassium	24800	25000	99	90 - 110	P	03/14/2024	13:18	LB129894
	Selenium	5000	5000	100	90 - 110	P	03/14/2024	13:18	LB129894
	Silver	1270	1250	102	90 - 110	P	03/14/2024	13:18	LB129894
	Sodium	24100	25000	96	90 - 110	P	03/14/2024	13:18	LB129894
	Thallium	4900	5000	98	90 - 110	P	03/14/2024	13:18	LB129894
	Vanadium	2520	2500	101	90 - 110	P	03/14/2024	13:18	LB129894
	Zinc	2590	2500	104	90 - 110	P	03/14/2024	13:18	LB129894
CCV02	Aluminum	9910	10000	99	90 - 110	P	03/14/2024	14:14	LB129894
	Antimony	5060	5000	101	90 - 110	P	03/14/2024	14:14	LB129894
	Arsenic	4970	5000	99	90 - 110	P	03/14/2024	14:14	LB129894
	Barium	10600	10000	106	90 - 110	P	03/14/2024	14:14	LB129894
	Beryllium	247	250	99	90 - 110	P	03/14/2024	14:14	LB129894
	Cadmium	2380	2500	95	90 - 110	P	03/14/2024	14:14	LB129894
	Calcium	26100	25000	104	90 - 110	P	03/14/2024	14:14	LB129894
	Chromium	947	1000	95	90 - 110	P	03/14/2024	14:14	LB129894
	Cobalt	2370	2500	95	90 - 110	P	03/14/2024	14:14	LB129894
	Copper	1250	1250	100	90 - 110	P	03/14/2024	14:14	LB129894
	Iron	5090	5000	102	90 - 110	P	03/14/2024	14:14	LB129894
	Lead	4840	5000	97	90 - 110	P	03/14/2024	14:14	LB129894

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24700	25000	99	90 - 110	P	03/14/2024	14:14	LB129894
	Manganese	2620	2500	105	90 - 110	P	03/14/2024	14:14	LB129894
	Nickel	2450	2500	98	90 - 110	P	03/14/2024	14:14	LB129894
	Potassium	25700	25000	103	90 - 110	P	03/14/2024	14:14	LB129894
	Selenium	5040	5000	101	90 - 110	P	03/14/2024	14:14	LB129894
	Silver	1310	1250	104	90 - 110	P	03/14/2024	14:14	LB129894
	Sodium	25100	25000	100	90 - 110	P	03/14/2024	14:14	LB129894
	Thallium	4960	5000	99	90 - 110	P	03/14/2024	14:14	LB129894
	Vanadium	2480	2500	99	90 - 110	P	03/14/2024	14:14	LB129894
	Zinc	2610	2500	104	90 - 110	P	03/14/2024	14:14	LB129894
CCV03	Aluminum	10100	10000	102	90 - 110	P	03/14/2024	15:27	LB129894
	Antimony	5010	5000	100	90 - 110	P	03/14/2024	15:27	LB129894
	Arsenic	4890	5000	98	90 - 110	P	03/14/2024	15:27	LB129894
	Barium	10900	10000	109	90 - 110	P	03/14/2024	15:27	LB129894
	Beryllium	263	250	105	90 - 110	P	03/14/2024	15:27	LB129894
	Cadmium	2330	2500	93	90 - 110	P	03/14/2024	15:27	LB129894
	Calcium	26900	25000	108	90 - 110	P	03/14/2024	15:27	LB129894
	Chromium	946	1000	95	90 - 110	P	03/14/2024	15:27	LB129894
	Cobalt	2300	2500	92	90 - 110	P	03/14/2024	15:27	LB129894
	Copper	1230	1250	98	90 - 110	P	03/14/2024	15:27	LB129894
	Iron	4940	5000	99	90 - 110	P	03/14/2024	15:27	LB129894
	Lead	4780	5000	96	90 - 110	P	03/14/2024	15:27	LB129894
	Magnesium	25800	25000	103	90 - 110	P	03/14/2024	15:27	LB129894
	Manganese	2740	2500	109	90 - 110	P	03/14/2024	15:27	LB129894
	Nickel	2420	2500	97	90 - 110	P	03/14/2024	15:27	LB129894
	Potassium	24700	25000	99	90 - 110	P	03/14/2024	15:27	LB129894
	Selenium	4960	5000	99	90 - 110	P	03/14/2024	15:27	LB129894
	Silver	1300	1250	104	90 - 110	P	03/14/2024	15:27	LB129894
	Sodium	24500	25000	98	90 - 110	P	03/14/2024	15:27	LB129894
	Thallium	4930	5000	99	90 - 110	P	03/14/2024	15:27	LB129894
	Vanadium	2530	2500	101	90 - 110	P	03/14/2024	15:27	LB129894
	Zinc	2610	2500	104	90 - 110	P	03/14/2024	15:27	LB129894
CCV04	Aluminum	9830	10000	98	90 - 110	P	03/14/2024	16:45	LB129894
	Antimony	4980	5000	100	90 - 110	P	03/14/2024	16:45	LB129894

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4820	5000	96	90 - 110	P	03/14/2024	16:45	LB129894
	Barium	10900	10000	109	90 - 110	P	03/14/2024	16:45	LB129894
	Beryllium	239	250	96	90 - 110	P	03/14/2024	16:45	LB129894
	Cadmium	2300	2500	92	90 - 110	P	03/14/2024	16:45	LB129894
	Calcium	27500	25000	110	90 - 110	P	03/14/2024	16:45	LB129894
	Chromium	958	1000	96	90 - 110	P	03/14/2024	16:45	LB129894
	Cobalt	2310	2500	92	90 - 110	P	03/14/2024	16:45	LB129894
	Copper	1220	1250	98	90 - 110	P	03/14/2024	16:45	LB129894
	Iron	4920	5000	98	90 - 110	P	03/14/2024	16:45	LB129894
	Lead	4730	5000	95	90 - 110	P	03/14/2024	16:45	LB129894
	Magnesium	24300	25000	97	90 - 110	P	03/14/2024	16:45	LB129894
	Manganese	2700	2500	108	90 - 110	P	03/14/2024	16:45	LB129894
	Nickel	2400	2500	96	90 - 110	P	03/14/2024	16:45	LB129894
	Potassium	25100	25000	100	90 - 110	P	03/14/2024	16:45	LB129894
	Selenium	4910	5000	98	90 - 110	P	03/14/2024	16:45	LB129894
	Silver	1280	1250	102	90 - 110	P	03/14/2024	16:45	LB129894
	Sodium	23700	25000	95	90 - 110	P	03/14/2024	16:45	LB129894
	Thallium	4750	5000	95	90 - 110	P	03/14/2024	16:45	LB129894
	Vanadium	2460	2500	98	90 - 110	P	03/14/2024	16:45	LB129894
	Zinc	2570	2500	103	90 - 110	P	03/14/2024	16:45	LB129894

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2470	2500	99	95 - 105	P	03/18/2024	17:48	LB129934
	Antimony	1010	1000	101	95 - 105	P	03/18/2024	17:48	LB129934
	Arsenic	1020	1000	102	95 - 105	P	03/18/2024	17:48	LB129934
	Barium	510	520	98	95 - 105	P	03/18/2024	17:48	LB129934
	Beryllium	499	510	98	95 - 105	P	03/18/2024	17:48	LB129934
	Cadmium	497	510	98	95 - 105	P	03/18/2024	17:48	LB129934
	Calcium	9930	10000	99	95 - 105	P	03/18/2024	17:48	LB129934
	Chromium	500	520	96	95 - 105	P	03/18/2024	17:48	LB129934
	Cobalt	488	520	94	95 - 105	P	03/18/2024	17:48	LB129934
	Copper	515	510	101	95 - 105	P	03/18/2024	17:48	LB129934
	Iron	9290	10000	93	95 - 105	P	03/18/2024	17:48	LB129934
	Lead	999	1000	100	95 - 105	P	03/18/2024	17:48	LB129934
	Magnesium	6050	6000	101	95 - 105	P	03/18/2024	17:48	LB129934
	Manganese	514	520	99	95 - 105	P	03/18/2024	17:48	LB129934
	Nickel	492	530	93	95 - 105	P	03/18/2024	17:48	LB129934
	Potassium	10200	9900	103	95 - 105	P	03/18/2024	17:48	LB129934
	Selenium	1020	1000	102	95 - 105	P	03/18/2024	17:48	LB129934
	Silver	243	250	97	95 - 105	P	03/18/2024	17:48	LB129934
	Sodium	9940	10000	99	95 - 105	P	03/18/2024	17:48	LB129934
	Thallium	1010	1000	101	95 - 105	P	03/18/2024	17:48	LB129934
	Vanadium	497	500	99	95 - 105	P	03/18/2024	17:48	LB129934
	Zinc	1000	1000	100	95 - 105	P	03/18/2024	17:48	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104	100	104	80 - 120	P	03/18/2024	17:54	LB129934
	Antimony	55.3	50.0	111	80 - 120	P	03/18/2024	17:54	LB129934
	Arsenic	22.1	20.0	111	80 - 120	P	03/18/2024	17:54	LB129934
	Barium	110	100	110	80 - 120	P	03/18/2024	17:54	LB129934
	Beryllium	6.45	6.0	108	80 - 120	P	03/18/2024	17:54	LB129934
	Cadmium	6.60	6.0	110	80 - 120	P	03/18/2024	17:54	LB129934
	Calcium	2240	2000	112	80 - 120	P	03/18/2024	17:54	LB129934
	Chromium	10.8	10.0	108	80 - 120	P	03/18/2024	17:54	LB129934
	Cobalt	31.1	30.0	104	80 - 120	P	03/18/2024	17:54	LB129934
	Copper	23.8	20.0	119	80 - 120	P	03/18/2024	17:54	LB129934
	Iron	104	100	104	80 - 120	P	03/18/2024	17:54	LB129934
	Lead	11.1	12.0	92	80 - 120	P	03/18/2024	17:54	LB129934
	Magnesium	2280	2000	114	80 - 120	P	03/18/2024	17:54	LB129934
	Manganese	22.6	20.0	113	80 - 120	P	03/18/2024	17:54	LB129934
	Nickel	41.9	40.0	105	80 - 120	P	03/18/2024	17:54	LB129934
	Potassium	2050	2000	103	80 - 120	P	03/18/2024	17:54	LB129934
	Selenium	21.2	20.0	106	80 - 120	P	03/18/2024	17:54	LB129934
	Silver	10.8	10.0	108	80 - 120	P	03/18/2024	17:54	LB129934
	Sodium	2020	2000	101	80 - 120	P	03/18/2024	17:54	LB129934
	Thallium	44.3	40.0	111	80 - 120	P	03/18/2024	17:54	LB129934
	Vanadium	43.1	40.0	108	80 - 120	P	03/18/2024	17:54	LB129934
	Zinc	45.1	40.0	113	80 - 120	P	03/18/2024	17:54	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	03/18/2024	18:34	LB129934
	Antimony	4960	5000	99	90 - 110	P	03/18/2024	18:34	LB129934
	Arsenic	4970	5000	99	90 - 110	P	03/18/2024	18:34	LB129934
	Barium	9960	10000	100	90 - 110	P	03/18/2024	18:34	LB129934
	Beryllium	254	250	102	90 - 110	P	03/18/2024	18:34	LB129934
	Cadmium	2500	2500	100	90 - 110	P	03/18/2024	18:34	LB129934
	Calcium	25500	25000	102	90 - 110	P	03/18/2024	18:34	LB129934
	Chromium	1000	1000	100	90 - 110	P	03/18/2024	18:34	LB129934
	Cobalt	2480	2500	99	90 - 110	P	03/18/2024	18:34	LB129934
	Copper	1250	1250	100	90 - 110	P	03/18/2024	18:34	LB129934
	Iron	4900	5000	98	90 - 110	P	03/18/2024	18:34	LB129934
	Lead	4990	5000	100	90 - 110	P	03/18/2024	18:34	LB129934
	Magnesium	25300	25000	101	90 - 110	P	03/18/2024	18:34	LB129934
	Manganese	2540	2500	102	90 - 110	P	03/18/2024	18:34	LB129934
	Nickel	2490	2500	100	90 - 110	P	03/18/2024	18:34	LB129934
	Potassium	24000	25000	96	90 - 110	P	03/18/2024	18:34	LB129934
	Selenium	4970	5000	99	90 - 110	P	03/18/2024	18:34	LB129934
	Silver	1240	1250	100	90 - 110	P	03/18/2024	18:34	LB129934
	Sodium	23900	25000	96	90 - 110	P	03/18/2024	18:34	LB129934
	Thallium	5000	5000	100	90 - 110	P	03/18/2024	18:34	LB129934
	Vanadium	2520	2500	101	90 - 110	P	03/18/2024	18:34	LB129934
	Zinc	2550	2500	102	90 - 110	P	03/18/2024	18:34	LB129934
CCV02	Aluminum	10200	10000	102	90 - 110	P	03/18/2024	19:48	LB129934
	Antimony	5200	5000	104	90 - 110	P	03/18/2024	19:48	LB129934
	Arsenic	5150	5000	103	90 - 110	P	03/18/2024	19:48	LB129934
	Barium	10800	10000	108	90 - 110	P	03/18/2024	19:48	LB129934
	Beryllium	241	250	96	90 - 110	P	03/18/2024	19:48	LB129934
	Cadmium	2280	2500	91	90 - 110	P	03/18/2024	19:48	LB129934
	Calcium	24800	25000	99	90 - 110	P	03/18/2024	19:48	LB129934
	Chromium	985	1000	98	90 - 110	P	03/18/2024	19:48	LB129934
	Cobalt	2260	2500	90	90 - 110	P	03/18/2024	19:48	LB129934
	Copper	1280	1250	102	90 - 110	P	03/18/2024	19:48	LB129934
	Iron	5100	5000	102	90 - 110	P	03/18/2024	19:48	LB129934
	Lead	4590	5000	92	90 - 110	P	03/18/2024	19:48	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24800	25000	99	90 - 110	P	03/18/2024	19:48	LB129934
	Manganese	2560	2500	102	90 - 110	P	03/18/2024	19:48	LB129934
	Nickel	2330	2500	93	90 - 110	P	03/18/2024	19:48	LB129934
	Potassium	26500	25000	106	90 - 110	P	03/18/2024	19:48	LB129934
	Selenium	5180	5000	104	90 - 110	P	03/18/2024	19:48	LB129934
	Silver	1260	1250	101	90 - 110	P	03/18/2024	19:48	LB129934
	Sodium	26800	25000	107	90 - 110	P	03/18/2024	19:48	LB129934
	Thallium	4630	5000	93	90 - 110	P	03/18/2024	19:48	LB129934
	Vanadium	2550	2500	102	90 - 110	P	03/18/2024	19:48	LB129934
	Zinc	2640	2500	106	90 - 110	P	03/18/2024	19:48	LB129934
CCV03	Aluminum	9990	10000	100	90 - 110	P	03/18/2024	21:09	LB129934
	Antimony	5270	5000	105	90 - 110	P	03/18/2024	21:09	LB129934
	Arsenic	5200	5000	104	90 - 110	P	03/18/2024	21:09	LB129934
	Barium	11000	10000	110	90 - 110	P	03/18/2024	21:09	LB129934
	Beryllium	240	250	96	90 - 110	P	03/18/2024	21:09	LB129934
	Cadmium	2400	2500	96	90 - 110	P	03/18/2024	21:09	LB129934
	Calcium	25300	25000	101	90 - 110	P	03/18/2024	21:09	LB129934
	Chromium	953	1000	95	90 - 110	P	03/18/2024	21:09	LB129934
	Cobalt	2360	2500	94	90 - 110	P	03/18/2024	21:09	LB129934
	Copper	1280	1250	102	90 - 110	P	03/18/2024	21:09	LB129934
	Iron	5040	5000	101	90 - 110	P	03/18/2024	21:09	LB129934
	Lead	4740	5000	95	90 - 110	P	03/18/2024	21:09	LB129934
	Magnesium	24900	25000	100	90 - 110	P	03/18/2024	21:09	LB129934
	Manganese	2610	2500	104	90 - 110	P	03/18/2024	21:09	LB129934
	Nickel	2340	2500	94	90 - 110	P	03/18/2024	21:09	LB129934
	Potassium	26000	25000	104	90 - 110	P	03/18/2024	21:09	LB129934
	Selenium	5230	5000	105	90 - 110	P	03/18/2024	21:09	LB129934
	Silver	1270	1250	101	90 - 110	P	03/18/2024	21:09	LB129934
	Sodium	25800	25000	103	90 - 110	P	03/18/2024	21:09	LB129934
	Thallium	4910	5000	98	90 - 110	P	03/18/2024	21:09	LB129934
	Vanadium	2530	2500	101	90 - 110	P	03/18/2024	21:09	LB129934
	Zinc	2660	2500	107	90 - 110	P	03/18/2024	21:09	LB129934
CCV04	Aluminum	9990	10000	100	90 - 110	P	03/18/2024	22:27	LB129934
	Antimony	5110	5000	102	90 - 110	P	03/18/2024	22:27	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5060	5000	101	90 - 110	P	03/18/2024	22:27	LB129934
	Barium	10900	10000	109	90 - 110	P	03/18/2024	22:27	LB129934
	Beryllium	249	250	100	90 - 110	P	03/18/2024	22:27	LB129934
	Cadmium	2360	2500	94	90 - 110	P	03/18/2024	22:27	LB129934
	Calcium	25400	25000	102	90 - 110	P	03/18/2024	22:27	LB129934
	Chromium	961	1000	96	90 - 110	P	03/18/2024	22:27	LB129934
	Cobalt	2310	2500	92	90 - 110	P	03/18/2024	22:27	LB129934
	Copper	1240	1250	99	90 - 110	P	03/18/2024	22:27	LB129934
	Iron	4950	5000	99	90 - 110	P	03/18/2024	22:27	LB129934
	Lead	4650	5000	93	90 - 110	P	03/18/2024	22:27	LB129934
	Magnesium	25200	25000	101	90 - 110	P	03/18/2024	22:27	LB129934
	Manganese	2620	2500	105	90 - 110	P	03/18/2024	22:27	LB129934
	Nickel	2350	2500	94	90 - 110	P	03/18/2024	22:27	LB129934
	Potassium	25000	25000	100	90 - 110	P	03/18/2024	22:27	LB129934
	Selenium	5090	5000	102	90 - 110	P	03/18/2024	22:27	LB129934
	Silver	1250	1250	100	90 - 110	P	03/18/2024	22:27	LB129934
	Sodium	25000	25000	100	90 - 110	P	03/18/2024	22:27	LB129934
	Thallium	4850	5000	97	90 - 110	P	03/18/2024	22:27	LB129934
	Vanadium	2550	2500	102	90 - 110	P	03/18/2024	22:27	LB129934
	Zinc	2580	2500	103	90 - 110	P	03/18/2024	22:27	LB129934
CCV05	Aluminum	9540	10000	95	90 - 110	P	03/18/2024	23:20	LB129934
	Antimony	4840	5000	97	90 - 110	P	03/18/2024	23:20	LB129934
	Arsenic	4850	5000	97	90 - 110	P	03/18/2024	23:20	LB129934
	Barium	9860	10000	99	90 - 110	P	03/18/2024	23:20	LB129934
	Beryllium	252	250	101	90 - 110	P	03/18/2024	23:20	LB129934
	Cadmium	2560	2500	102	90 - 110	P	03/18/2024	23:20	LB129934
	Calcium	24700	25000	99	90 - 110	P	03/18/2024	23:20	LB129934
	Chromium	995	1000	100	90 - 110	P	03/18/2024	23:20	LB129934
	Cobalt	2500	2500	100	90 - 110	P	03/18/2024	23:20	LB129934
	Copper	1210	1250	96	90 - 110	P	03/18/2024	23:20	LB129934
	Iron	4820	5000	96	90 - 110	P	03/18/2024	23:20	LB129934
	Lead	4940	5000	99	90 - 110	P	03/18/2024	23:20	LB129934
	Magnesium	24700	25000	99	90 - 110	P	03/18/2024	23:20	LB129934
	Manganese	2500	2500	100	90 - 110	P	03/18/2024	23:20	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2500	2500	100	90 - 110	P	03/18/2024	23:20	LB129934
	Potassium	23400	25000	94	90 - 110	P	03/18/2024	23:20	LB129934
	Selenium	4820	5000	96	90 - 110	P	03/18/2024	23:20	LB129934
	Silver	1240	1250	99	90 - 110	P	03/18/2024	23:20	LB129934
	Sodium	23300	25000	93	90 - 110	P	03/18/2024	23:20	LB129934
	Thallium	4970	5000	99	90 - 110	P	03/18/2024	23:20	LB129934
	Vanadium	2430	2500	97	90 - 110	P	03/18/2024	23:20	LB129934
	Zinc	2560	2500	102	90 - 110	P	03/18/2024	23:20	LB129934
CCV06	Aluminum	9850	10000	98	90 - 110	P	03/19/2024	00:42	LB129934
	Antimony	4820	5000	96	90 - 110	P	03/19/2024	00:42	LB129934
	Arsenic	4850	5000	97	90 - 110	P	03/19/2024	00:42	LB129934
	Barium	9970	10000	100	90 - 110	P	03/19/2024	00:42	LB129934
	Beryllium	252	250	101	90 - 110	P	03/19/2024	00:42	LB129934
	Cadmium	2630	2500	105	90 - 110	P	03/19/2024	00:42	LB129934
	Calcium	25000	25000	100	90 - 110	P	03/19/2024	00:42	LB129934
	Chromium	1000	1000	100	90 - 110	P	03/19/2024	00:42	LB129934
	Cobalt	2580	2500	103	90 - 110	P	03/19/2024	00:42	LB129934
	Copper	1210	1250	97	90 - 110	P	03/19/2024	00:42	LB129934
	Iron	5490	5000	110	90 - 110	P	03/19/2024	00:42	LB129934
	Lead	5010	5000	100	90 - 110	P	03/19/2024	00:42	LB129934
	Magnesium	25200	25000	101	90 - 110	P	03/19/2024	00:42	LB129934
	Manganese	2530	2500	101	90 - 110	P	03/19/2024	00:42	LB129934
	Nickel	2630	2500	105	90 - 110	P	03/19/2024	00:42	LB129934
	Potassium	25400	25000	101	90 - 110	P	03/19/2024	00:42	LB129934
	Selenium	4790	5000	96	90 - 110	P	03/19/2024	00:42	LB129934
	Silver	1230	1250	98	90 - 110	P	03/19/2024	00:42	LB129934
	Sodium	25500	25000	102	90 - 110	P	03/19/2024	00:42	LB129934
	Thallium	4720	5000	94	90 - 110	P	03/19/2024	00:42	LB129934
	Vanadium	2510	2500	101	90 - 110	P	03/19/2024	00:42	LB129934
	Zinc	2490	2500	100	90 - 110	P	03/19/2024	00:42	LB129934
CCV07	Aluminum	9820	10000	98	90 - 110	P	03/19/2024	01:53	LB129934
	Antimony	4780	5000	96	90 - 110	P	03/19/2024	01:53	LB129934
	Arsenic	4800	5000	96	90 - 110	P	03/19/2024	01:53	LB129934
	Barium	9640	10000	96	90 - 110	P	03/19/2024	01:53	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	259	250	104	90 - 110	P	03/19/2024	01:53	LB129934
	Cadmium	2740	2500	110	90 - 110	P	03/19/2024	01:53	LB129934
	Calcium	25400	25000	101	90 - 110	P	03/19/2024	01:53	LB129934
	Chromium	1000	1000	100	90 - 110	P	03/19/2024	01:53	LB129934
	Cobalt	2710	2500	108	90 - 110	P	03/19/2024	01:53	LB129934
	Copper	1210	1250	97	90 - 110	P	03/19/2024	01:53	LB129934
	Iron	5390	5000	108	90 - 110	P	03/19/2024	01:53	LB129934
	Lead	5240	5000	105	90 - 110	P	03/19/2024	01:53	LB129934
	Magnesium	25200	25000	101	90 - 110	P	03/19/2024	01:53	LB129934
	Manganese	2520	2500	101	90 - 110	P	03/19/2024	01:53	LB129934
	Nickel	2730	2500	109	90 - 110	P	03/19/2024	01:53	LB129934
	Potassium	24700	25000	99	90 - 110	P	03/19/2024	01:53	LB129934
	Selenium	4760	5000	95	90 - 110	P	03/19/2024	01:53	LB129934
	Silver	1240	1250	99	90 - 110	P	03/19/2024	01:53	LB129934
	Sodium	24500	25000	98	90 - 110	P	03/19/2024	01:53	LB129934
	Thallium	4920	5000	98	90 - 110	P	03/19/2024	01:53	LB129934
	Vanadium	2470	2500	99	90 - 110	P	03/19/2024	01:53	LB129934
	Zinc	2460	2500	98	90 - 110	P	03/19/2024	01:53	LB129934

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2440	2500	98	95 - 105	P	03/21/2024	11:59	LB129987
	Antimony	1000	1000	100	95 - 105	P	03/21/2024	11:59	LB129987
	Arsenic	1020	1000	102	95 - 105	P	03/21/2024	11:59	LB129987
	Barium	516	520	99	95 - 105	P	03/21/2024	11:59	LB129987
	Beryllium	483	510	95	95 - 105	P	03/21/2024	11:59	LB129987
	Cadmium	513	510	101	95 - 105	P	03/21/2024	11:59	LB129987
	Calcium	9680	10000	97	95 - 105	P	03/21/2024	11:59	LB129987
	Chromium	505	520	97	95 - 105	P	03/21/2024	11:59	LB129987
	Cobalt	482	520	93	95 - 105	P	03/21/2024	11:59	LB129987
	Copper	524	510	103	95 - 105	P	03/21/2024	11:59	LB129987
	Iron	9290	10000	93	95 - 105	P	03/21/2024	11:59	LB129987
	Lead	1000	1000	100	95 - 105	P	03/21/2024	11:59	LB129987
	Magnesium	6150	6000	102	95 - 105	P	03/21/2024	11:59	LB129987
	Manganese	492	520	95	95 - 105	P	03/21/2024	11:59	LB129987
	Nickel	520	530	98	95 - 105	P	03/21/2024	11:59	LB129987
	Potassium	9820	9900	99	95 - 105	P	03/21/2024	11:59	LB129987
	Selenium	1030	1000	103	95 - 105	P	03/21/2024	11:59	LB129987
	Silver	245	250	98	95 - 105	P	03/21/2024	11:59	LB129987
	Sodium	10400	10000	104	95 - 105	P	03/21/2024	11:59	LB129987
	Thallium	1050	1000	105	95 - 105	P	03/21/2024	11:59	LB129987
	Vanadium	483	500	97	95 - 105	P	03/21/2024	11:59	LB129987
	Zinc	1000	1000	100	95 - 105	P	03/21/2024	11:59	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	94.0	100	94	80 - 120	P	03/21/2024	12:03	LB129987
	Antimony	56.3	50.0	113	80 - 120	P	03/21/2024	12:03	LB129987
	Arsenic	22.0	20.0	110	80 - 120	P	03/21/2024	12:03	LB129987
	Barium	105	100	105	80 - 120	P	03/21/2024	12:03	LB129987
	Beryllium	6.14	6.0	102	80 - 120	P	03/21/2024	12:03	LB129987
	Cadmium	6.55	6.0	109	80 - 120	P	03/21/2024	12:03	LB129987
	Calcium	2140	2000	107	80 - 120	P	03/21/2024	12:03	LB129987
	Chromium	10.7	10.0	107	80 - 120	P	03/21/2024	12:03	LB129987
	Cobalt	30.7	30.0	102	80 - 120	P	03/21/2024	12:03	LB129987
	Copper	24.1	20.0	121	80 - 120	P	03/21/2024	12:03	LB129987
	Iron	102	100	102	80 - 120	P	03/21/2024	12:03	LB129987
	Lead	10.2	12.0	85	80 - 120	P	03/21/2024	12:03	LB129987
	Magnesium	2190	2000	110	80 - 120	P	03/21/2024	12:03	LB129987
	Manganese	21.5	20.0	108	80 - 120	P	03/21/2024	12:03	LB129987
	Nickel	41.5	40.0	104	80 - 120	P	03/21/2024	12:03	LB129987
	Potassium	2050	2000	103	80 - 120	P	03/21/2024	12:03	LB129987
	Selenium	22.3	20.0	112	80 - 120	P	03/21/2024	12:03	LB129987
	Silver	11.2	10.0	112	80 - 120	P	03/21/2024	12:03	LB129987
	Sodium	2010	2000	100	80 - 120	P	03/21/2024	12:03	LB129987
	Thallium	46.9	40.0	117	80 - 120	P	03/21/2024	12:03	LB129987
	Vanadium	42.7	40.0	107	80 - 120	P	03/21/2024	12:03	LB129987
	Zinc	45.2	40.0	113	80 - 120	P	03/21/2024	12:03	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	101	90 - 110	P	03/21/2024	12:34	LB129987
	Antimony	5010	5000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Arsenic	4940	5000	99	90 - 110	P	03/21/2024	12:34	LB129987
	Barium	10000	10000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Beryllium	248	250	99	90 - 110	P	03/21/2024	12:34	LB129987
	Cadmium	2490	2500	100	90 - 110	P	03/21/2024	12:34	LB129987
	Calcium	25200	25000	101	90 - 110	P	03/21/2024	12:34	LB129987
	Chromium	1020	1000	102	90 - 110	P	03/21/2024	12:34	LB129987
	Cobalt	2480	2500	99	90 - 110	P	03/21/2024	12:34	LB129987
	Copper	1240	1250	99	90 - 110	P	03/21/2024	12:34	LB129987
	Iron	5070	5000	101	90 - 110	P	03/21/2024	12:34	LB129987
	Lead	5020	5000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Magnesium	25000	25000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Manganese	2490	2500	100	90 - 110	P	03/21/2024	12:34	LB129987
	Nickel	2500	2500	100	90 - 110	P	03/21/2024	12:34	LB129987
	Potassium	25200	25000	101	90 - 110	P	03/21/2024	12:34	LB129987
	Selenium	5000	5000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Silver	1270	1250	101	90 - 110	P	03/21/2024	12:34	LB129987
	Sodium	24900	25000	100	90 - 110	P	03/21/2024	12:34	LB129987
	Thallium	5170	5000	103	90 - 110	P	03/21/2024	12:34	LB129987
	Vanadium	2520	2500	101	90 - 110	P	03/21/2024	12:34	LB129987
	Zinc	2560	2500	102	90 - 110	P	03/21/2024	12:34	LB129987
CCV02	Aluminum	10300	10000	102	90 - 110	P	03/21/2024	13:34	LB129987
	Antimony	5150	5000	103	90 - 110	P	03/21/2024	13:34	LB129987
	Arsenic	5040	5000	101	90 - 110	P	03/21/2024	13:34	LB129987
	Barium	10100	10000	101	90 - 110	P	03/21/2024	13:34	LB129987
	Beryllium	251	250	100	90 - 110	P	03/21/2024	13:34	LB129987
	Cadmium	2550	2500	102	90 - 110	P	03/21/2024	13:34	LB129987
	Calcium	25600	25000	102	90 - 110	P	03/21/2024	13:34	LB129987
	Chromium	1030	1000	103	90 - 110	P	03/21/2024	13:34	LB129987
	Cobalt	2530	2500	101	90 - 110	P	03/21/2024	13:34	LB129987
	Copper	1260	1250	101	90 - 110	P	03/21/2024	13:34	LB129987
	Iron	5120	5000	102	90 - 110	P	03/21/2024	13:34	LB129987
	Lead	5140	5000	103	90 - 110	P	03/21/2024	13:34	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25300	25000	101	90 - 110	P	03/21/2024	13:34	LB129987
	Manganese	2520	2500	101	90 - 110	P	03/21/2024	13:34	LB129987
	Nickel	2560	2500	102	90 - 110	P	03/21/2024	13:34	LB129987
	Potassium	25400	25000	102	90 - 110	P	03/21/2024	13:34	LB129987
	Selenium	5110	5000	102	90 - 110	P	03/21/2024	13:34	LB129987
	Silver	1290	1250	103	90 - 110	P	03/21/2024	13:34	LB129987
	Sodium	25200	25000	101	90 - 110	P	03/21/2024	13:34	LB129987
	Thallium	5450	5000	109	90 - 110	P	03/21/2024	13:34	LB129987
	Vanadium	2540	2500	102	90 - 110	P	03/21/2024	13:34	LB129987
	Zinc	2580	2500	103	90 - 110	P	03/21/2024	13:34	LB129987
CCV03	Aluminum	10000	10000	100	90 - 110	P	03/21/2024	14:27	LB129987
	Antimony	5050	5000	101	90 - 110	P	03/21/2024	14:27	LB129987
	Arsenic	4940	5000	99	90 - 110	P	03/21/2024	14:27	LB129987
	Barium	9980	10000	100	90 - 110	P	03/21/2024	14:27	LB129987
	Beryllium	242	250	97	90 - 110	P	03/21/2024	14:27	LB129987
	Cadmium	2490	2500	100	90 - 110	P	03/21/2024	14:27	LB129987
	Calcium	25100	25000	100	90 - 110	P	03/21/2024	14:27	LB129987
	Chromium	1030	1000	103	90 - 110	P	03/21/2024	14:27	LB129987
	Cobalt	2480	2500	99	90 - 110	P	03/21/2024	14:27	LB129987
	Copper	1240	1250	99	90 - 110	P	03/21/2024	14:27	LB129987
	Iron	5210	5000	104	90 - 110	P	03/21/2024	14:27	LB129987
	Lead	5030	5000	101	90 - 110	P	03/21/2024	14:27	LB129987
	Magnesium	24700	25000	99	90 - 110	P	03/21/2024	14:27	LB129987
	Manganese	2470	2500	99	90 - 110	P	03/21/2024	14:27	LB129987
	Nickel	2510	2500	100	90 - 110	P	03/21/2024	14:27	LB129987
	Potassium	26200	25000	105	90 - 110	P	03/21/2024	14:27	LB129987
	Selenium	5010	5000	100	90 - 110	P	03/21/2024	14:27	LB129987
	Silver	1290	1250	103	90 - 110	P	03/21/2024	14:27	LB129987
	Sodium	26300	25000	105	90 - 110	P	03/21/2024	14:27	LB129987
	Thallium	5320	5000	106	90 - 110	P	03/21/2024	14:27	LB129987
	Vanadium	2500	2500	100	90 - 110	P	03/21/2024	14:27	LB129987
	Zinc	2590	2500	104	90 - 110	P	03/21/2024	14:27	LB129987
CCV04	Aluminum	10400	10000	104	90 - 110	P	03/21/2024	15:23	LB129987
	Antimony	5140	5000	103	90 - 110	P	03/21/2024	15:23	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5000	5000	100	90 - 110	P	03/21/2024	15:23	LB129987
	Barium	10300	10000	103	90 - 110	P	03/21/2024	15:23	LB129987
	Beryllium	245	250	98	90 - 110	P	03/21/2024	15:23	LB129987
	Cadmium	2520	2500	101	90 - 110	P	03/21/2024	15:23	LB129987
	Calcium	25600	25000	102	90 - 110	P	03/21/2024	15:23	LB129987
	Chromium	1040	1000	104	90 - 110	P	03/21/2024	15:23	LB129987
	Cobalt	2510	2500	100	90 - 110	P	03/21/2024	15:23	LB129987
	Copper	1250	1250	100	90 - 110	P	03/21/2024	15:23	LB129987
	Iron	5310	5000	106	90 - 110	P	03/21/2024	15:23	LB129987
	Lead	5070	5000	101	90 - 110	P	03/21/2024	15:23	LB129987
	Magnesium	25000	25000	100	90 - 110	P	03/21/2024	15:23	LB129987
	Manganese	2530	2500	101	90 - 110	P	03/21/2024	15:23	LB129987
	Nickel	2540	2500	102	90 - 110	P	03/21/2024	15:23	LB129987
	Potassium	26500	25000	106	90 - 110	P	03/21/2024	15:23	LB129987
	Selenium	5090	5000	102	90 - 110	P	03/21/2024	15:23	LB129987
	Silver	1310	1250	105	90 - 110	P	03/21/2024	15:23	LB129987
	Sodium	26300	25000	105	90 - 110	P	03/21/2024	15:23	LB129987
	Thallium	5290	5000	106	90 - 110	P	03/21/2024	15:23	LB129987
	Vanadium	2570	2500	103	90 - 110	P	03/21/2024	15:23	LB129987
	Zinc	2630	2500	105	90 - 110	P	03/21/2024	15:23	LB129987
CCV05	Aluminum	10300	10000	103	90 - 110	P	03/21/2024	16:29	LB129987
	Antimony	5160	5000	103	90 - 110	P	03/21/2024	16:29	LB129987
	Arsenic	5020	5000	100	90 - 110	P	03/21/2024	16:29	LB129987
	Barium	10100	10000	101	90 - 110	P	03/21/2024	16:29	LB129987
	Beryllium	247	250	99	90 - 110	P	03/21/2024	16:29	LB129987
	Cadmium	2530	2500	101	90 - 110	P	03/21/2024	16:29	LB129987
	Calcium	25500	25000	102	90 - 110	P	03/21/2024	16:29	LB129987
	Chromium	1030	1000	103	90 - 110	P	03/21/2024	16:29	LB129987
	Cobalt	2510	2500	101	90 - 110	P	03/21/2024	16:29	LB129987
	Copper	1260	1250	100	90 - 110	P	03/21/2024	16:29	LB129987
	Iron	5200	5000	104	90 - 110	P	03/21/2024	16:29	LB129987
	Lead	5110	5000	102	90 - 110	P	03/21/2024	16:29	LB129987
	Magnesium	25200	25000	101	90 - 110	P	03/21/2024	16:29	LB129987
	Manganese	2520	2500	101	90 - 110	P	03/21/2024	16:29	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2550	2500	102	90 - 110	P	03/21/2024	16:29	LB129987
	Potassium	25900	25000	104	90 - 110	P	03/21/2024	16:29	LB129987
	Selenium	5110	5000	102	90 - 110	P	03/21/2024	16:29	LB129987
	Silver	1300	1250	104	90 - 110	P	03/21/2024	16:29	LB129987
	Sodium	25700	25000	103	90 - 110	P	03/21/2024	16:29	LB129987
	Thallium	5370	5000	107	90 - 110	P	03/21/2024	16:29	LB129987
	Vanadium	2550	2500	102	90 - 110	P	03/21/2024	16:29	LB129987
	Zinc	2600	2500	104	90 - 110	P	03/21/2024	16:29	LB129987
CCV06	Aluminum	10300	10000	103	90 - 110	P	03/21/2024	17:52	LB129987
	Antimony	5000	5000	100	90 - 110	P	03/21/2024	17:52	LB129987
	Arsenic	4790	5000	96	90 - 110	P	03/21/2024	17:52	LB129987
	Barium	10300	10000	103	90 - 110	P	03/21/2024	17:52	LB129987
	Beryllium	244	250	98	90 - 110	P	03/21/2024	17:52	LB129987
	Cadmium	2470	2500	99	90 - 110	P	03/21/2024	17:52	LB129987
	Calcium	25700	25000	103	90 - 110	P	03/21/2024	17:52	LB129987
	Chromium	1020	1000	102	90 - 110	P	03/21/2024	17:52	LB129987
	Cobalt	2450	2500	98	90 - 110	P	03/21/2024	17:52	LB129987
	Copper	1190	1250	95	90 - 110	P	03/21/2024	17:52	LB129987
	Iron	5250	5000	105	90 - 110	P	03/21/2024	17:52	LB129987
	Lead	5000	5000	100	90 - 110	P	03/21/2024	17:52	LB129987
	Magnesium	25100	25000	101	90 - 110	P	03/21/2024	17:52	LB129987
	Manganese	2550	2500	102	90 - 110	P	03/21/2024	17:52	LB129987
	Nickel	2510	2500	100	90 - 110	P	03/21/2024	17:52	LB129987
	Potassium	26400	25000	106	90 - 110	P	03/21/2024	17:52	LB129987
	Selenium	4870	5000	97	90 - 110	P	03/21/2024	17:52	LB129987
	Silver	1310	1250	105	90 - 110	P	03/21/2024	17:52	LB129987
	Sodium	26600	25000	107	90 - 110	P	03/21/2024	17:52	LB129987
	Thallium	5170	5000	103	90 - 110	P	03/21/2024	17:52	LB129987
	Vanadium	2540	2500	102	90 - 110	P	03/21/2024	17:52	LB129987
	Zinc	2560	2500	102	90 - 110	P	03/21/2024	17:52	LB129987
CCV07	Aluminum	10300	10000	103	90 - 110	P	03/21/2024	18:56	LB129987
	Antimony	4860	5000	97	90 - 110	P	03/21/2024	18:56	LB129987
	Arsenic	4600	5000	92	90 - 110	P	03/21/2024	18:56	LB129987
	Barium	10200	10000	102	90 - 110	P	03/21/2024	18:56	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	245	250	98	90 - 110	P	03/21/2024	18:56	LB129987
	Cadmium	2410	2500	96	90 - 110	P	03/21/2024	18:56	LB129987
	Calcium	25500	25000	102	90 - 110	P	03/21/2024	18:56	LB129987
	Chromium	1010	1000	101	90 - 110	P	03/21/2024	18:56	LB129987
	Cobalt	2380	2500	95	90 - 110	P	03/21/2024	18:56	LB129987
	Copper	1140	1250	91	90 - 110	P	03/21/2024	18:56	LB129987
	Iron	5130	5000	103	90 - 110	P	03/21/2024	18:56	LB129987
	Lead	4890	5000	98	90 - 110	P	03/21/2024	18:56	LB129987
	Magnesium	24900	25000	100	90 - 110	P	03/21/2024	18:56	LB129987
	Manganese	2510	2500	100	90 - 110	P	03/21/2024	18:56	LB129987
	Nickel	2450	2500	98	90 - 110	P	03/21/2024	18:56	LB129987
	Potassium	25500	25000	102	90 - 110	P	03/21/2024	18:56	LB129987
	Selenium	4700	5000	94	90 - 110	P	03/21/2024	18:56	LB129987
	Silver	1300	1250	104	90 - 110	P	03/21/2024	18:56	LB129987
	Sodium	25600	25000	102	90 - 110	P	03/21/2024	18:56	LB129987
	Thallium	5170	5000	103	90 - 110	P	03/21/2024	18:56	LB129987
	Vanadium	2500	2500	100	90 - 110	P	03/21/2024	18:56	LB129987
	Zinc	2540	2500	102	90 - 110	P	03/21/2024	18:56	LB129987
CCV08	Aluminum	10700	10000	107	90 - 110	P	03/21/2024	20:03	LB129987
	Antimony	4910	5000	98	90 - 110	P	03/21/2024	20:03	LB129987
	Arsenic	4930	5000	99	90 - 110	P	03/21/2024	20:03	LB129987
	Barium	10500	10000	105	90 - 110	P	03/21/2024	20:03	LB129987
	Beryllium	258	250	103	90 - 110	P	03/21/2024	20:03	LB129987
	Cadmium	2440	2500	97	90 - 110	P	03/21/2024	20:03	LB129987
	Calcium	26400	25000	106	90 - 110	P	03/21/2024	20:03	LB129987
	Chromium	1010	1000	101	90 - 110	P	03/21/2024	20:03	LB129987
	Cobalt	2410	2500	96	90 - 110	P	03/21/2024	20:03	LB129987
	Copper	1160	1250	93	90 - 110	P	03/21/2024	20:03	LB129987
	Iron	5070	5000	101	90 - 110	P	03/21/2024	20:03	LB129987
	Lead	4930	5000	99	90 - 110	P	03/21/2024	20:03	LB129987
	Magnesium	26000	25000	104	90 - 110	P	03/21/2024	20:03	LB129987
	Manganese	2590	2500	104	90 - 110	P	03/21/2024	20:03	LB129987
	Nickel	2480	2500	99	90 - 110	P	03/21/2024	20:03	LB129987
	Potassium	25100	25000	100	90 - 110	P	03/21/2024	20:03	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4770	5000	95	90 - 110	P	03/21/2024	20:03	LB129987
	Silver	1300	1250	104	90 - 110	P	03/21/2024	20:03	LB129987
	Sodium	25100	25000	100	90 - 110	P	03/21/2024	20:03	LB129987
	Thallium	5290	5000	106	90 - 110	P	03/21/2024	20:03	LB129987
	Vanadium	2590	2500	104	90 - 110	P	03/21/2024	20:03	LB129987
	Zinc	2530	2500	101	90 - 110	P	03/21/2024	20:03	LB129987
CCV09	Aluminum	10400	10000	104	90 - 110	P	03/21/2024	21:03	LB129987
	Antimony	4860	5000	97	90 - 110	P	03/21/2024	21:03	LB129987
	Arsenic	4840	5000	97	90 - 110	P	03/21/2024	21:03	LB129987
	Barium	10200	10000	102	90 - 110	P	03/21/2024	21:03	LB129987
	Beryllium	256	250	102	90 - 110	P	03/21/2024	21:03	LB129987
	Cadmium	2440	2500	98	90 - 110	P	03/21/2024	21:03	LB129987
	Calcium	26100	25000	104	90 - 110	P	03/21/2024	21:03	LB129987
	Chromium	1030	1000	102	90 - 110	P	03/21/2024	21:03	LB129987
	Cobalt	2410	2500	96	90 - 110	P	03/21/2024	21:03	LB129987
	Copper	1140	1250	91	90 - 110	P	03/21/2024	21:03	LB129987
	Iron	5040	5000	101	90 - 110	P	03/21/2024	21:03	LB129987
	Lead	4950	5000	99	90 - 110	P	03/21/2024	21:03	LB129987
	Magnesium	25700	25000	103	90 - 110	P	03/21/2024	21:03	LB129987
	Manganese	2560	2500	102	90 - 110	P	03/21/2024	21:03	LB129987
	Nickel	2490	2500	100	90 - 110	P	03/21/2024	21:03	LB129987
	Potassium	25000	25000	100	90 - 110	P	03/21/2024	21:03	LB129987
	Selenium	4680	5000	94	90 - 110	P	03/21/2024	21:03	LB129987
	Silver	1310	1250	105	90 - 110	P	03/21/2024	21:03	LB129987
	Sodium	25100	25000	100	90 - 110	P	03/21/2024	21:03	LB129987
	Thallium	5200	5000	104	90 - 110	P	03/21/2024	21:03	LB129987
	Vanadium	2540	2500	102	90 - 110	P	03/21/2024	21:03	LB129987
	Zinc	2550	2500	102	90 - 110	P	03/21/2024	21:03	LB129987
CCV10	Aluminum	10300	10000	103	90 - 110	P	03/21/2024	21:58	LB129987
	Antimony	4780	5000	96	90 - 110	P	03/21/2024	21:58	LB129987
	Arsenic	4740	5000	95	90 - 110	P	03/21/2024	21:58	LB129987
	Barium	10000	10000	100	90 - 110	P	03/21/2024	21:58	LB129987
	Beryllium	249	250	100	90 - 110	P	03/21/2024	21:58	LB129987
	Cadmium	2390	2500	96	90 - 110	P	03/21/2024	21:58	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	25700	25000	103	90 - 110	P	03/21/2024	21:58	LB129987
	Chromium	1010	1000	101	90 - 110	P	03/21/2024	21:58	LB129987
	Cobalt	2360	2500	94	90 - 110	P	03/21/2024	21:58	LB129987
	Copper	1160	1250	93	90 - 110	P	03/21/2024	21:58	LB129987
	Iron	5070	5000	101	90 - 110	P	03/21/2024	21:58	LB129987
	Lead	4870	5000	97	90 - 110	P	03/21/2024	21:58	LB129987
	Magnesium	25100	25000	100	90 - 110	P	03/21/2024	21:58	LB129987
	Manganese	2510	2500	100	90 - 110	P	03/21/2024	21:58	LB129987
	Nickel	2450	2500	98	90 - 110	P	03/21/2024	21:58	LB129987
	Potassium	25400	25000	102	90 - 110	P	03/21/2024	21:58	LB129987
	Selenium	4580	5000	92	90 - 110	P	03/21/2024	21:58	LB129987
	Silver	1310	1250	105	90 - 110	P	03/21/2024	21:58	LB129987
	Sodium	25700	25000	103	90 - 110	P	03/21/2024	21:58	LB129987
	Thallium	5010	5000	100	90 - 110	P	03/21/2024	21:58	LB129987
	Vanadium	2500	2500	100	90 - 110	P	03/21/2024	21:58	LB129987
	Zinc	2550	2500	102	90 - 110	P	03/21/2024	21:58	LB129987
CCV11	Aluminum	10700	10000	107	90 - 110	P	03/21/2024	22:51	LB129987
	Antimony	4860	5000	97	90 - 110	P	03/21/2024	22:51	LB129987
	Arsenic	4550	5000	91	90 - 110	P	03/21/2024	22:51	LB129987
	Barium	10200	10000	102	90 - 110	P	03/21/2024	22:51	LB129987
	Beryllium	261	250	104	90 - 110	P	03/21/2024	22:51	LB129987
	Cadmium	2440	2500	98	90 - 110	P	03/21/2024	22:51	LB129987
	Calcium	26600	25000	106	90 - 110	P	03/21/2024	22:51	LB129987
	Chromium	1030	1000	103	90 - 110	P	03/21/2024	22:51	LB129987
	Cobalt	2400	2500	96	90 - 110	P	03/21/2024	22:51	LB129987
	Copper	1170	1250	94	90 - 110	P	03/21/2024	22:51	LB129987
	Iron	5130	5000	103	90 - 110	P	03/21/2024	22:51	LB129987
	Lead	4960	5000	99	90 - 110	P	03/21/2024	22:51	LB129987
	Magnesium	26100	25000	105	90 - 110	P	03/21/2024	22:51	LB129987
	Manganese	2600	2500	104	90 - 110	P	03/21/2024	22:51	LB129987
	Nickel	2490	2500	100	90 - 110	P	03/21/2024	22:51	LB129987
	Potassium	25600	25000	102	90 - 110	P	03/21/2024	22:51	LB129987
	Selenium	4630	5000	93	90 - 110	P	03/21/2024	22:51	LB129987
	Silver	1340	1250	107	90 - 110	P	03/21/2024	22:51	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	26100	25000	104	90 - 110	P	03/21/2024	22:51	LB129987
	Thallium	5160	5000	103	90 - 110	P	03/21/2024	22:51	LB129987
	Vanadium	2580	2500	103	90 - 110	P	03/21/2024	22:51	LB129987
	Zinc	2600	2500	104	90 - 110	P	03/21/2024	22:51	LB129987
CCV12	Aluminum	10400	10000	104	90 - 110	P	03/21/2024	23:43	LB129987
	Antimony	4800	5000	96	90 - 110	P	03/21/2024	23:43	LB129987
	Arsenic	4630	5000	93	90 - 110	P	03/21/2024	23:43	LB129987
	Barium	10100	10000	101	90 - 110	P	03/21/2024	23:43	LB129987
	Beryllium	257	250	103	90 - 110	P	03/21/2024	23:43	LB129987
	Cadmium	2430	2500	97	90 - 110	P	03/21/2024	23:43	LB129987
	Calcium	26000	25000	104	90 - 110	P	03/21/2024	23:43	LB129987
	Chromium	1010	1000	101	90 - 110	P	03/21/2024	23:43	LB129987
	Cobalt	2390	2500	96	90 - 110	P	03/21/2024	23:43	LB129987
	Copper	1180	1250	94	90 - 110	P	03/21/2024	23:43	LB129987
	Iron	4950	5000	99	90 - 110	P	03/21/2024	23:43	LB129987
	Lead	4920	5000	98	90 - 110	P	03/21/2024	23:43	LB129987
	Magnesium	25700	25000	103	90 - 110	P	03/21/2024	23:43	LB129987
	Manganese	2550	2500	102	90 - 110	P	03/21/2024	23:43	LB129987
	Nickel	2470	2500	99	90 - 110	P	03/21/2024	23:43	LB129987
	Potassium	24600	25000	98	90 - 110	P	03/21/2024	23:43	LB129987
	Selenium	4600	5000	92	90 - 110	P	03/21/2024	23:43	LB129987
	Silver	1300	1250	104	90 - 110	P	03/21/2024	23:43	LB129987
	Sodium	24900	25000	100	90 - 110	P	03/21/2024	23:43	LB129987
	Thallium	5000	5000	100	90 - 110	P	03/21/2024	23:43	LB129987
	Vanadium	2530	2500	101	90 - 110	P	03/21/2024	23:43	LB129987
	Zinc	2530	2500	101	90 - 110	P	03/21/2024	23:43	LB129987
CCV13	Aluminum	10500	10000	105	90 - 110	P	03/22/2024	00:37	LB129987
	Antimony	4840	5000	97	90 - 110	P	03/22/2024	00:37	LB129987
	Arsenic	4710	5000	94	90 - 110	P	03/22/2024	00:37	LB129987
	Barium	10100	10000	101	90 - 110	P	03/22/2024	00:37	LB129987
	Beryllium	260	250	104	90 - 110	P	03/22/2024	00:37	LB129987
	Cadmium	2460	2500	98	90 - 110	P	03/22/2024	00:37	LB129987
	Calcium	26200	25000	105	90 - 110	P	03/22/2024	00:37	LB129987
	Chromium	997	1000	100	90 - 110	P	03/22/2024	00:37	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV13	Cobalt	2420	2500	97	90 - 110	P	03/22/2024	00:37	LB129987
	Copper	1200	1250	96	90 - 110	P	03/22/2024	00:37	LB129987
	Iron	4830	5000	97	90 - 110	P	03/22/2024	00:37	LB129987
	Lead	4960	5000	99	90 - 110	P	03/22/2024	00:37	LB129987
	Magnesium	26000	25000	104	90 - 110	P	03/22/2024	00:37	LB129987
	Manganese	2560	2500	102	90 - 110	P	03/22/2024	00:37	LB129987
	Nickel	2490	2500	100	90 - 110	P	03/22/2024	00:37	LB129987
	Potassium	23900	25000	96	90 - 110	P	03/22/2024	00:37	LB129987
	Selenium	4670	5000	93	90 - 110	P	03/22/2024	00:37	LB129987
	Silver	1270	1250	101	90 - 110	P	03/22/2024	00:37	LB129987
	Sodium	23900	25000	96	90 - 110	P	03/22/2024	00:37	LB129987
	Thallium	5020	5000	100	90 - 110	P	03/22/2024	00:37	LB129987
	Vanadium	2560	2500	102	90 - 110	P	03/22/2024	00:37	LB129987
	Zinc	2470	2500	99	90 - 110	P	03/22/2024	00:37	LB129987

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2540	2500	102	90 - 110	P	03/26/2024	11:09	LB130043
	Antimony	1040	1000	104	90 - 110	P	03/26/2024	11:09	LB130043
	Arsenic	1050	1000	105	90 - 110	P	03/26/2024	11:09	LB130043
	Barium	516	520	99	90 - 110	P	03/26/2024	11:09	LB130043
	Beryllium	510	510	100	90 - 110	P	03/26/2024	11:09	LB130043
	Cadmium	499	510	98	90 - 110	P	03/26/2024	11:09	LB130043
	Calcium	10300	10000	103	90 - 110	P	03/26/2024	11:09	LB130043
	Chromium	530	520	102	90 - 110	P	03/26/2024	11:09	LB130043
	Cobalt	497	520	96	90 - 110	P	03/26/2024	11:09	LB130043
	Copper	523	510	102	90 - 110	P	03/26/2024	11:09	LB130043
	Iron	9740	10000	97	90 - 110	P	03/26/2024	11:09	LB130043
	Lead	1020	1000	102	90 - 110	P	03/26/2024	11:09	LB130043
	Magnesium	5750	6000	96	90 - 110	P	03/26/2024	11:09	LB130043
	Manganese	529	520	102	90 - 110	P	03/26/2024	11:09	LB130043
	Nickel	503	530	95	90 - 110	P	03/26/2024	11:09	LB130043
	Potassium	9450	9900	96	90 - 110	P	03/26/2024	11:09	LB130043
	Selenium	1030	1000	103	90 - 110	P	03/26/2024	11:09	LB130043
	Silver	257	250	103	90 - 110	P	03/26/2024	11:09	LB130043
	Sodium	9010	10000	90	95 - 105	P	03/26/2024	11:09	LB130043
	Thallium	1070	1000	107	90 - 110	P	03/26/2024	11:09	LB130043
	Vanadium	511	500	102	90 - 110	P	03/26/2024	11:09	LB130043
	Zinc	1040	1000	104	90 - 110	P	03/26/2024	11:09	LB130043

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104	100	104	80 - 120	P	03/26/2024	11:14	LB130043
	Antimony	52.7	50.0	106	80 - 120	P	03/26/2024	11:14	LB130043
	Arsenic	20.6	20.0	103	80 - 120	P	03/26/2024	11:14	LB130043
	Barium	105	100	105	80 - 120	P	03/26/2024	11:14	LB130043
	Beryllium	6.29	6.0	105	80 - 120	P	03/26/2024	11:14	LB130043
	Cadmium	6.13	6.0	102	80 - 120	P	03/26/2024	11:14	LB130043
	Calcium	2220	2000	111	80 - 120	P	03/26/2024	11:14	LB130043
	Chromium	10.6	10.0	106	80 - 120	P	03/26/2024	11:14	LB130043
	Cobalt	29.5	30.0	98	80 - 120	P	03/26/2024	11:14	LB130043
	Copper	24.1	20.0	120	80 - 120	P	03/26/2024	11:14	LB130043
	Iron	101	100	102	80 - 120	P	03/26/2024	11:14	LB130043
	Lead	10.1	12.0	84	80 - 120	P	03/26/2024	11:14	LB130043
	Magnesium	2110	2000	106	80 - 120	P	03/26/2024	11:14	LB130043
	Manganese	22.2	20.0	111	80 - 120	P	03/26/2024	11:14	LB130043
	Nickel	39.7	40.0	99	80 - 120	P	03/26/2024	11:14	LB130043
	Potassium	1940	2000	97	80 - 120	P	03/26/2024	11:14	LB130043
	Selenium	19.6	20.0	98	80 - 120	P	03/26/2024	11:14	LB130043
	Silver	10.5	10.0	105	80 - 120	P	03/26/2024	11:14	LB130043
	Sodium	1810	2000	90	80 - 120	P	03/26/2024	11:14	LB130043
	Thallium	42.0	40.0	105	80 - 120	P	03/26/2024	11:14	LB130043
	Vanadium	42.1	40.0	105	80 - 120	P	03/26/2024	11:14	LB130043
	Zinc	44.9	40.0	112	80 - 120	P	03/26/2024	11:14	LB130043

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9620	10000	96	90 - 110	P	03/26/2024	13:26	LB130043
	Antimony	4960	5000	99	90 - 110	P	03/26/2024	13:26	LB130043
	Arsenic	4890	5000	98	90 - 110	P	03/26/2024	13:26	LB130043
	Barium	9670	10000	97	90 - 110	P	03/26/2024	13:26	LB130043
	Beryllium	236	250	95	90 - 110	P	03/26/2024	13:26	LB130043
	Cadmium	2350	2500	94	90 - 110	P	03/26/2024	13:26	LB130043
	Calcium	24700	25000	99	90 - 110	P	03/26/2024	13:26	LB130043
	Chromium	998	1000	100	90 - 110	P	03/26/2024	13:26	LB130043
	Cobalt	2370	2500	95	90 - 110	P	03/26/2024	13:26	LB130043
	Copper	1240	1250	99	90 - 110	P	03/26/2024	13:26	LB130043
	Iron	5420	5000	108	90 - 110	P	03/26/2024	13:26	LB130043
	Lead	4650	5000	93	90 - 110	P	03/26/2024	13:26	LB130043
	Magnesium	19500	25000	78	90 - 110	P	03/26/2024	13:26	LB130043
	Manganese	2470	2500	99	90 - 110	P	03/26/2024	13:26	LB130043
	Nickel	2420	2500	97	90 - 110	P	03/26/2024	13:26	LB130043
	Potassium	27700	25000	111	90 - 110	P	03/26/2024	13:26	LB130043
	Selenium	4780	5000	96	90 - 110	P	03/26/2024	13:26	LB130043
	Silver	1330	1250	107	90 - 110	P	03/26/2024	13:26	LB130043
	Sodium	23900	25000	96	90 - 110	P	03/26/2024	13:26	LB130043
	Thallium	4560	5000	91	90 - 110	P	03/26/2024	13:26	LB130043
	Vanadium	2430	2500	97	90 - 110	P	03/26/2024	13:26	LB130043
	Zinc	2630	2500	105	90 - 110	P	03/26/2024	13:26	LB130043
CCV02	Aluminum	9560	10000	96	90 - 110	P	03/26/2024	15:07	LB130043
	Antimony	5100	5000	102	90 - 110	P	03/26/2024	15:07	LB130043
	Arsenic	4990	5000	100	90 - 110	P	03/26/2024	15:07	LB130043
	Barium	9730	10000	97	90 - 110	P	03/26/2024	15:07	LB130043
	Beryllium	241	250	96	90 - 110	P	03/26/2024	15:07	LB130043
	Cadmium	2370	2500	95	90 - 110	P	03/26/2024	15:07	LB130043
	Calcium	25300	25000	101	90 - 110	P	03/26/2024	15:07	LB130043
	Chromium	985	1000	98	90 - 110	P	03/26/2024	15:07	LB130043
	Cobalt	2390	2500	96	90 - 110	P	03/26/2024	15:07	LB130043
	Copper	1260	1250	101	90 - 110	P	03/26/2024	15:07	LB130043
	Iron	4720	5000	94	90 - 110	P	03/26/2024	15:07	LB130043
	Lead	4720	5000	94	90 - 110	P	03/26/2024	15:07	LB130043

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24100	25000	96	90 - 110	P	03/26/2024	15:07	LB130043
	Manganese	2480	2500	99	90 - 110	P	03/26/2024	15:07	LB130043
	Nickel	2450	2500	98	90 - 110	P	03/26/2024	15:07	LB130043
	Potassium	24600	25000	98	90 - 110	P	03/26/2024	15:07	LB130043
	Selenium	4900	5000	98	90 - 110	P	03/26/2024	15:07	LB130043
	Silver	1190	1250	95	90 - 110	P	03/26/2024	15:07	LB130043
	Sodium	23600	25000	94	90 - 110	P	03/26/2024	15:07	LB130043
	Thallium	4700	5000	94	90 - 110	P	03/26/2024	15:07	LB130043
	Vanadium	2380	2500	95	90 - 110	P	03/26/2024	15:07	LB130043
	Zinc	2310	2500	92	90 - 110	P	03/26/2024	15:07	LB130043
CCV03	Aluminum	9390	10000	94	90 - 110	P	03/26/2024	16:36	LB130043
	Antimony	5170	5000	103	90 - 110	P	03/26/2024	16:36	LB130043
	Arsenic	4990	5000	100	90 - 110	P	03/26/2024	16:36	LB130043
	Barium	9900	10000	99	90 - 110	P	03/26/2024	16:36	LB130043
	Beryllium	247	250	99	90 - 110	P	03/26/2024	16:36	LB130043
	Cadmium	2340	2500	94	90 - 110	P	03/26/2024	16:36	LB130043
	Calcium	25700	25000	103	90 - 110	P	03/26/2024	16:36	LB130043
	Chromium	957	1000	96	90 - 110	P	03/26/2024	16:36	LB130043
	Cobalt	2390	2500	95	90 - 110	P	03/26/2024	16:36	LB130043
	Copper	1280	1250	102	90 - 110	P	03/26/2024	16:36	LB130043
	Iron	4660	5000	93	90 - 110	P	03/26/2024	16:36	LB130043
	Lead	4720	5000	94	90 - 110	P	03/26/2024	16:36	LB130043
	Magnesium	25200	25000	101	90 - 110	P	03/26/2024	16:36	LB130043
	Manganese	2470	2500	99	90 - 110	P	03/26/2024	16:36	LB130043
	Nickel	2420	2500	97	90 - 110	P	03/26/2024	16:36	LB130043
	Potassium	24200	25000	97	90 - 110	P	03/26/2024	16:36	LB130043
	Selenium	4950	5000	99	90 - 110	P	03/26/2024	16:36	LB130043
	Silver	1190	1250	95	90 - 110	P	03/26/2024	16:36	LB130043
	Sodium	23700	25000	95	90 - 110	P	03/26/2024	16:36	LB130043
	Thallium	4740	5000	95	90 - 110	P	03/26/2024	16:36	LB130043
	Vanadium	2340	2500	94	90 - 110	P	03/26/2024	16:36	LB130043
	Zinc	2340	2500	94	90 - 110	P	03/26/2024	16:36	LB130043
CCV04	Aluminum	9550	10000	96	90 - 110	P	03/26/2024	17:23	LB130043
	Antimony	4900	5000	98	90 - 110	P	03/26/2024	17:23	LB130043

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4730	5000	95	90 - 110	P	03/26/2024	17:23	LB130043
	Barium	9980	10000	100	90 - 110	P	03/26/2024	17:23	LB130043
	Beryllium	259	250	104	90 - 110	P	03/26/2024	17:23	LB130043
	Cadmium	2220	2500	89	90 - 110	P	03/26/2024	17:23	LB130043
	Calcium	26500	25000	106	90 - 110	P	03/26/2024	17:23	LB130043
	Chromium	968	1000	97	90 - 110	P	03/26/2024	17:23	LB130043
	Cobalt	2280	2500	91	90 - 110	P	03/26/2024	17:23	LB130043
	Copper	1220	1250	97	90 - 110	P	03/26/2024	17:23	LB130043
	Iron	4630	5000	93	90 - 110	P	03/26/2024	17:23	LB130043
	Lead	4520	5000	90	90 - 110	P	03/26/2024	17:23	LB130043
	Magnesium	26700	25000	107	90 - 110	P	03/26/2024	17:23	LB130043
	Manganese	2510	2500	100	90 - 110	P	03/26/2024	17:23	LB130043
	Nickel	2310	2500	92	90 - 110	P	03/26/2024	17:23	LB130043
	Potassium	23900	25000	96	90 - 110	P	03/26/2024	17:23	LB130043
	Selenium	4670	5000	94	90 - 110	P	03/26/2024	17:23	LB130043
	Silver	1210	1250	96	90 - 110	P	03/26/2024	17:23	LB130043
	Sodium	23600	25000	95	90 - 110	P	03/26/2024	17:23	LB130043
	Thallium	4360	5000	87	90 - 110	P	03/26/2024	17:23	LB130043
	Vanadium	2350	2500	94	90 - 110	P	03/26/2024	17:23	LB130043
	Zinc	2420	2500	97	90 - 110	P	03/26/2024	17:23	LB130043
CCV05	Aluminum	9660	10000	97	90 - 110	P	03/26/2024	18:12	LB130043
	Antimony	4910	5000	98	90 - 110	P	03/26/2024	18:12	LB130043
	Arsenic	4790	5000	96	90 - 110	P	03/26/2024	18:12	LB130043
	Barium	10100	10000	101	90 - 110	P	03/26/2024	18:12	LB130043
	Beryllium	266	250	106	90 - 110	P	03/26/2024	18:12	LB130043
	Cadmium	2280	2500	91	90 - 110	P	03/26/2024	18:12	LB130043
	Calcium	27100	25000	108	90 - 110	P	03/26/2024	18:12	LB130043
	Chromium	986	1000	99	90 - 110	P	03/26/2024	18:12	LB130043
	Cobalt	2330	2500	93	90 - 110	P	03/26/2024	18:12	LB130043
	Copper	1230	1250	98	90 - 110	P	03/26/2024	18:12	LB130043
	Iron	4640	5000	93	90 - 110	P	03/26/2024	18:12	LB130043
	Lead	4640	5000	93	90 - 110	P	03/26/2024	18:12	LB130043
	Magnesium	27800	25000	111	90 - 110	P	03/26/2024	18:12	LB130043
	Manganese	2560	2500	102	90 - 110	P	03/26/2024	18:12	LB130043

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2350	2500	94	90 - 110	P	03/26/2024	18:12	LB130043
	Potassium	23800	25000	95	90 - 110	P	03/26/2024	18:12	LB130043
	Selenium	4730	5000	94	90 - 110	P	03/26/2024	18:12	LB130043
	Silver	1220	1250	97	90 - 110	P	03/26/2024	18:12	LB130043
	Sodium	23700	25000	95	90 - 110	P	03/26/2024	18:12	LB130043
	Thallium	4570	5000	91	90 - 110	P	03/26/2024	18:12	LB130043
	Vanadium	2400	2500	96	90 - 110	P	03/26/2024	18:12	LB130043
	Zinc	2450	2500	98	90 - 110	P	03/26/2024	18:12	LB130043
CCV06	Aluminum	9750	10000	98	90 - 110	P	03/26/2024	18:48	LB130043
	Antimony	4790	5000	96	90 - 110	P	03/26/2024	18:48	LB130043
	Arsenic	4670	5000	93	90 - 110	P	03/26/2024	18:48	LB130043
	Barium	10200	10000	102	90 - 110	P	03/26/2024	18:48	LB130043
	Beryllium	270	250	108	90 - 110	P	03/26/2024	18:48	LB130043
	Cadmium	2250	2500	90	90 - 110	P	03/26/2024	18:48	LB130043
	Calcium	27300	25000	109	90 - 110	P	03/26/2024	18:48	LB130043
	Chromium	985	1000	98	90 - 110	P	03/26/2024	18:48	LB130043
	Cobalt	2300	2500	92	90 - 110	P	03/26/2024	18:48	LB130043
	Copper	1200	1250	96	90 - 110	P	03/26/2024	18:48	LB130043
	Iron	4620	5000	92	90 - 110	P	03/26/2024	18:48	LB130043
	Lead	4570	5000	92	90 - 110	P	03/26/2024	18:48	LB130043
	Magnesium	28400	25000	114	90 - 110	P	03/26/2024	18:48	LB130043
	Manganese	2580	2500	103	90 - 110	P	03/26/2024	18:48	LB130043
	Nickel	2310	2500	93	90 - 110	P	03/26/2024	18:48	LB130043
	Potassium	23700	25000	95	90 - 110	P	03/26/2024	18:48	LB130043
	Selenium	4610	5000	92	90 - 110	P	03/26/2024	18:48	LB130043
	Silver	1210	1250	97	90 - 110	P	03/26/2024	18:48	LB130043
	Sodium	23800	25000	95	90 - 110	P	03/26/2024	18:48	LB130043
	Thallium	4580	5000	92	90 - 110	P	03/26/2024	18:48	LB130043
	Vanadium	2410	2500	96	90 - 110	P	03/26/2024	18:48	LB130043
	Zinc	2450	2500	98	90 - 110	P	03/26/2024	18:48	LB130043

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	101	100	102	40 - 160	P	03/14/2024	12:56	LB129894
	Antimony	53.7	50.0	107	40 - 160	P	03/14/2024	12:56	LB129894
	Arsenic	21.3	20.0	106	40 - 160	P	03/14/2024	12:56	LB129894
	Barium	110	100	110	40 - 160	P	03/14/2024	12:56	LB129894
	Beryllium	6.27	6.0	105	40 - 160	P	03/14/2024	12:56	LB129894
	Cadmium	6.27	6.0	105	40 - 160	P	03/14/2024	12:56	LB129894
	Calcium	2260	2000	113	40 - 160	P	03/14/2024	12:56	LB129894
	Chromium	9.82	10.0	98	40 - 160	P	03/14/2024	12:56	LB129894
	Cobalt	29.6	30.0	99	40 - 160	P	03/14/2024	12:56	LB129894
	Copper	22.4	20.0	112	40 - 160	P	03/14/2024	12:56	LB129894
	Iron	101	100	101	40 - 160	P	03/14/2024	12:56	LB129894
	Lead	11.8	12.0	99	40 - 160	P	03/14/2024	12:56	LB129894
	Magnesium	2270	2000	114	40 - 160	P	03/14/2024	12:56	LB129894
	Manganese	22.4	20.0	112	40 - 160	P	03/14/2024	12:56	LB129894
	Nickel	40.2	40.0	100	40 - 160	P	03/14/2024	12:56	LB129894
	Potassium	2000	2000	100	40 - 160	P	03/14/2024	12:56	LB129894
	Selenium	18.2	20.0	91	40 - 160	P	03/14/2024	12:56	LB129894
	Silver	10.7	10.0	107	40 - 160	P	03/14/2024	12:56	LB129894
	Sodium	1970	2000	98	40 - 160	P	03/14/2024	12:56	LB129894
	Thallium	43.4	40.0	108	40 - 160	P	03/14/2024	12:56	LB129894
	Vanadium	43.2	40.0	108	40 - 160	P	03/14/2024	12:56	LB129894
	Zinc	44.0	40.0	110	40 - 160	P	03/14/2024	12:56	LB129894
CRI01	Aluminum	100	100	100	40 - 160	P	03/18/2024	18:03	LB129934
	Antimony	53.1	50.0	106	40 - 160	P	03/18/2024	18:03	LB129934
	Arsenic	21.0	20.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Barium	107	100	107	40 - 160	P	03/18/2024	18:03	LB129934
	Beryllium	6.32	6.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Cadmium	6.41	6.0	107	40 - 160	P	03/18/2024	18:03	LB129934
	Calcium	2190	2000	109	40 - 160	P	03/18/2024	18:03	LB129934
	Chromium	10.4	10.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Cobalt	30.6	30.0	102	40 - 160	P	03/18/2024	18:03	LB129934
	Copper	23.1	20.0	116	40 - 160	P	03/18/2024	18:03	LB129934
	Iron	99.0	100	99	40 - 160	P	03/18/2024	18:03	LB129934
	Lead	11.4	12.0	95	40 - 160	P	03/18/2024	18:03	LB129934
	Magnesium	2250	2000	113	40 - 160	P	03/18/2024	18:03	LB129934

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Manganese	22.0	20.0	110	40 - 160	P	03/18/2024	18:03	LB129934
	Nickel	40.7	40.0	102	40 - 160	P	03/18/2024	18:03	LB129934
	Potassium	1960	2000	98	40 - 160	P	03/18/2024	18:03	LB129934
	Selenium	20.9	20.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Silver	10.4	10.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Sodium	1940	2000	97	40 - 160	P	03/18/2024	18:03	LB129934
	Thallium	42.1	40.0	105	40 - 160	P	03/18/2024	18:03	LB129934
	Vanadium	41.7	40.0	104	40 - 160	P	03/18/2024	18:03	LB129934
	Zinc	45.0	40.0	112	40 - 160	P	03/18/2024	18:03	LB129934
CRA	Mercury	0.20	0.2	98	40 - 160	CV	03/19/2024	12:46	LB129940
CRA	Mercury	0.044	0.05	87	40 - 160	CV	03/20/2024	14:39	LB129958
CRI01	Aluminum	103	100	102	40 - 160	P	03/21/2024	12:12	LB129987
	Antimony	56.5	50.0	113	40 - 160	P	03/21/2024	12:12	LB129987
	Arsenic	21.9	20.0	109	40 - 160	P	03/21/2024	12:12	LB129987
	Barium	107	100	107	40 - 160	P	03/21/2024	12:12	LB129987
	Beryllium	6.25	6.0	104	40 - 160	P	03/21/2024	12:12	LB129987
	Cadmium	6.44	6.0	107	40 - 160	P	03/21/2024	12:12	LB129987
	Calcium	2180	2000	109	40 - 160	P	03/21/2024	12:12	LB129987
	Chromium	11.0	10.0	110	40 - 160	P	03/21/2024	12:12	LB129987
	Cobalt	30.9	30.0	103	40 - 160	P	03/21/2024	12:12	LB129987
	Copper	24.3	20.0	122	40 - 160	P	03/21/2024	12:12	LB129987
	Iron	104	100	104	40 - 160	P	03/21/2024	12:12	LB129987
	Lead	10.5	12.0	87	40 - 160	P	03/21/2024	12:12	LB129987
	Magnesium	2220	2000	111	40 - 160	P	03/21/2024	12:12	LB129987
	Manganese	21.6	20.0	108	40 - 160	P	03/21/2024	12:12	LB129987
	Nickel	41.3	40.0	103	40 - 160	P	03/21/2024	12:12	LB129987
	Potassium	2070	2000	103	40 - 160	P	03/21/2024	12:12	LB129987
	Selenium	23.0	20.0	115	40 - 160	P	03/21/2024	12:12	LB129987
	Silver	11.5	10.0	115	40 - 160	P	03/21/2024	12:12	LB129987
	Sodium	2020	2000	101	40 - 160	P	03/21/2024	12:12	LB129987
	Thallium	46.8	40.0	117	40 - 160	P	03/21/2024	12:12	LB129987
	Vanadium	44.5	40.0	111	40 - 160	P	03/21/2024	12:12	LB129987
	Zinc	45.6	40.0	114	40 - 160	P	03/21/2024	12:12	LB129987
CRI01	Aluminum	99.2	100	99	40 - 160	P	03/26/2024	11:22	LB130043
	Antimony	55.6	50.0	111	40 - 160	P	03/26/2024	11:22	LB130043
	Arsenic	22.5	20.0	112	40 - 160	P	03/26/2024	11:22	LB130043
	Barium	105	100	105	40 - 160	P	03/26/2024	11:22	LB130043

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Beryllium	6.00	6.0	100	40 - 160	P	03/26/2024	11:22	LB130043
	Cadmium	6.21	6.0	104	40 - 160	P	03/26/2024	11:22	LB130043
	Calcium	2180	2000	109	40 - 160	P	03/26/2024	11:22	LB130043
	Chromium	10.4	10.0	104	40 - 160	P	03/26/2024	11:22	LB130043
	Cobalt	30.4	30.0	101	40 - 160	P	03/26/2024	11:22	LB130043
	Copper	24.9	20.0	124	40 - 160	P	03/26/2024	11:22	LB130043
	Iron	105	100	105	40 - 160	P	03/26/2024	11:22	LB130043
	Lead	10.7	12.0	90	40 - 160	P	03/26/2024	11:22	LB130043
	Magnesium	2080	2000	104	40 - 160	P	03/26/2024	11:22	LB130043
	Manganese	21.8	20.0	109	40 - 160	P	03/26/2024	11:22	LB130043
	Nickel	40.9	40.0	102	40 - 160	P	03/26/2024	11:22	LB130043
	Potassium	1980	2000	99	40 - 160	P	03/26/2024	11:22	LB130043
	Selenium	20.2	20.0	101	40 - 160	P	03/26/2024	11:22	LB130043
	Silver	10.3	10.0	103	40 - 160	P	03/26/2024	11:22	LB130043
	Sodium	1840	2000	92	40 - 160	P	03/26/2024	11:22	LB130043
	Thallium	42.6	40.0	106	40 - 160	P	03/26/2024	11:22	LB130043
	Vanadium	40.2	40.0	100	40 - 160	P	03/26/2024	11:22	LB130043
	Zinc	44.2	40.0	110	40 - 160	P	03/26/2024	11:22	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB53	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	12:39	LB129940

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	12:44	LB129940
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	13:14	LB129940
CCB83	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	13:44	LB129940
CCB84	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	14:11	LB129940
CCB85	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	14:42	LB129940
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	03/19/2024	14:59	LB129940

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB55	Mercury	0.20	+/-0.20	U	0.20	CV	03/20/2024	14:26	LB129958

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB89	Mercury	0.20	+/-0.20	U	0.20	CV	03/20/2024	14:35	LB129958
CCB90	Mercury	0.20	+/-0.20	U	0.20	CV	03/20/2024	15:26	LB129958
CCB91	Mercury	0.20	+/-0.20	U	0.20	CV	03/20/2024	15:50	LB129958

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/14/2024	12:51	LB129894
	Antimony	50.0	+/-50.0	U	50.0	P	03/14/2024	12:51	LB129894
	Arsenic	20.0	+/-20.0	U	20.0	P	03/14/2024	12:51	LB129894
	Barium	100	+/-100	U	100	P	03/14/2024	12:51	LB129894
	Beryllium	6.00	+/-6.00	U	6.00	P	03/14/2024	12:51	LB129894
	Cadmium	6.00	+/-6.00	U	6.00	P	03/14/2024	12:51	LB129894
	Calcium	2000	+/-2000	U	2000	P	03/14/2024	12:51	LB129894
	Chromium	10.0	+/-10.0	U	10.0	P	03/14/2024	12:51	LB129894
	Cobalt	30.0	+/-30.0	U	30.0	P	03/14/2024	12:51	LB129894
	Copper	20.0	+/-20.0	U	20.0	P	03/14/2024	12:51	LB129894
	Iron	100	+/-100	U	100	P	03/14/2024	12:51	LB129894
	Lead	12.0	+/-12.0	U	12.0	P	03/14/2024	12:51	LB129894
	Magnesium	2000	+/-2000	U	2000	P	03/14/2024	12:51	LB129894
	Manganese	20.0	+/-20.0	U	20.0	P	03/14/2024	12:51	LB129894
	Nickel	40.0	+/-40.0	U	40.0	P	03/14/2024	12:51	LB129894
	Potassium	2000	+/-2000	U	2000	P	03/14/2024	12:51	LB129894
	Selenium	20.0	+/-20.0	U	20.0	P	03/14/2024	12:51	LB129894
	Silver	10.0	+/-10.0	U	10.0	P	03/14/2024	12:51	LB129894
	Sodium	2000	+/-2000	U	2000	P	03/14/2024	12:51	LB129894
	Thallium	40.0	+/-40.0	U	40.0	P	03/14/2024	12:51	LB129894
	Vanadium	40.0	+/-40.0	U	40.0	P	03/14/2024	12:51	LB129894
	Zinc	40.0	+/-40.0	U	40.0	P	03/14/2024	12:51	LB129894

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/14/2024	13:22	LB129894
	Antimony	50.0	+/-50.0	U	50.0	P	03/14/2024	13:22	LB129894
	Arsenic	20.0	+/-20.0	U	20.0	P	03/14/2024	13:22	LB129894
	Barium	100	+/-100	U	100	P	03/14/2024	13:22	LB129894
	Beryllium	6.00	+/-6.00	U	6.00	P	03/14/2024	13:22	LB129894
	Cadmium	6.00	+/-6.00	U	6.00	P	03/14/2024	13:22	LB129894
	Calcium	2000	+/-2000	U	2000	P	03/14/2024	13:22	LB129894
	Chromium	10.0	+/-10.0	U	10.0	P	03/14/2024	13:22	LB129894
	Cobalt	30.0	+/-30.0	U	30.0	P	03/14/2024	13:22	LB129894
	Copper	20.0	+/-20.0	U	20.0	P	03/14/2024	13:22	LB129894
	Iron	100	+/-100	U	100	P	03/14/2024	13:22	LB129894
	Lead	12.0	+/-12.0	U	12.0	P	03/14/2024	13:22	LB129894
	Magnesium	2000	+/-2000	U	2000	P	03/14/2024	13:22	LB129894
	Manganese	20.0	+/-20.0	U	20.0	P	03/14/2024	13:22	LB129894
	Nickel	40.0	+/-40.0	U	40.0	P	03/14/2024	13:22	LB129894
	Potassium	2000	+/-2000	U	2000	P	03/14/2024	13:22	LB129894
	Selenium	20.0	+/-20.0	U	20.0	P	03/14/2024	13:22	LB129894
	Silver	10.0	+/-10.0	U	10.0	P	03/14/2024	13:22	LB129894
	Sodium	2000	+/-2000	U	2000	P	03/14/2024	13:22	LB129894
	Thallium	40.0	+/-40.0	U	40.0	P	03/14/2024	13:22	LB129894
	Vanadium	40.0	+/-40.0	U	40.0	P	03/14/2024	13:22	LB129894
	Zinc	40.0	+/-40.0	U	40.0	P	03/14/2024	13:22	LB129894
CCB02	Aluminum	100	+/-100	U	100	P	03/14/2024	14:18	LB129894
	Antimony	50.0	+/-50.0	U	50.0	P	03/14/2024	14:18	LB129894
	Arsenic	20.0	+/-20.0	U	20.0	P	03/14/2024	14:18	LB129894
	Barium	100	+/-100	U	100	P	03/14/2024	14:18	LB129894
	Beryllium	6.00	+/-6.00	U	6.00	P	03/14/2024	14:18	LB129894
	Cadmium	6.00	+/-6.00	U	6.00	P	03/14/2024	14:18	LB129894
	Calcium	2000	+/-2000	U	2000	P	03/14/2024	14:18	LB129894
	Chromium	10.0	+/-10.0	U	10.0	P	03/14/2024	14:18	LB129894
	Cobalt	30.0	+/-30.0	U	30.0	P	03/14/2024	14:18	LB129894
	Copper	20.0	+/-20.0	U	20.0	P	03/14/2024	14:18	LB129894
	Iron	100	+/-100	U	100	P	03/14/2024	14:18	LB129894
	Lead	12.0	+/-12.0	U	12.0	P	03/14/2024	14:18	LB129894
	Magnesium	2000	+/-2000	U	2000	P	03/14/2024	14:18	LB129894
	Manganese	20.0	+/-20.0	U	20.0	P	03/14/2024	14:18	LB129894
	Nickel	40.0	+/-40.0	U	40.0	P	03/14/2024	14:18	LB129894
	Potassium	2000	+/-2000	U	2000	P	03/14/2024	14:18	LB129894
	Selenium	20.0	+/-20.0	U	20.0	P	03/14/2024	14:18	LB129894
	Silver	10.0	+/-10.0	U	10.0	P	03/14/2024	14:18	LB129894

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	03/14/2024	14:18	LB129894
	Thallium	40.0	+/-40.0	U	40.0	P	03/14/2024	14:18	LB129894
	Vanadium	40.0	+/-40.0	U	40.0	P	03/14/2024	14:18	LB129894
	Zinc	40.0	+/-40.0	U	40.0	P	03/14/2024	14:18	LB129894
CCB03	Aluminum	100	+/-100	U	100	P	03/14/2024	15:32	LB129894
	Antimony	50.0	+/-50.0	U	50.0	P	03/14/2024	15:32	LB129894
	Arsenic	20.0	+/-20.0	U	20.0	P	03/14/2024	15:32	LB129894
	Barium	100	+/-100	U	100	P	03/14/2024	15:32	LB129894
	Beryllium	6.00	+/-6.00	U	6.00	P	03/14/2024	15:32	LB129894
	Cadmium	6.00	+/-6.00	U	6.00	P	03/14/2024	15:32	LB129894
	Calcium	2000	+/-2000	U	2000	P	03/14/2024	15:32	LB129894
	Chromium	10.0	+/-10.0	U	10.0	P	03/14/2024	15:32	LB129894
	Cobalt	30.0	+/-30.0	U	30.0	P	03/14/2024	15:32	LB129894
	Copper	20.0	+/-20.0	U	20.0	P	03/14/2024	15:32	LB129894
	Iron	100	+/-100	U	100	P	03/14/2024	15:32	LB129894
	Lead	12.0	+/-12.0	U	12.0	P	03/14/2024	15:32	LB129894
	Magnesium	2000	+/-2000	U	2000	P	03/14/2024	15:32	LB129894
	Manganese	20.0	+/-20.0	U	20.0	P	03/14/2024	15:32	LB129894
	Nickel	40.0	+/-40.0	U	40.0	P	03/14/2024	15:32	LB129894
	Potassium	2000	+/-2000	U	2000	P	03/14/2024	15:32	LB129894
	Selenium	20.0	+/-20.0	U	20.0	P	03/14/2024	15:32	LB129894
	Silver	10.0	+/-10.0	U	10.0	P	03/14/2024	15:32	LB129894
	Sodium	2000	+/-2000	U	2000	P	03/14/2024	15:32	LB129894
	Thallium	40.0	+/-40.0	U	40.0	P	03/14/2024	15:32	LB129894
	Vanadium	40.0	+/-40.0	U	40.0	P	03/14/2024	15:32	LB129894
	Zinc	40.0	+/-40.0	U	40.0	P	03/14/2024	15:32	LB129894
CCB04	Aluminum	100	+/-100	U	100	P	03/14/2024	16:56	LB129894
	Antimony	50.0	+/-50.0	U	50.0	P	03/14/2024	16:56	LB129894
	Arsenic	20.0	+/-20.0	U	20.0	P	03/14/2024	16:56	LB129894
	Barium	100	+/-100	U	100	P	03/14/2024	16:56	LB129894
	Beryllium	6.00	+/-6.00	U	6.00	P	03/14/2024	16:56	LB129894
	Cadmium	6.00	+/-6.00	U	6.00	P	03/14/2024	16:56	LB129894
	Calcium	2000	+/-2000	U	2000	P	03/14/2024	16:56	LB129894
	Chromium	10.0	+/-10.0	U	10.0	P	03/14/2024	16:56	LB129894
	Cobalt	30.0	+/-30.0	U	30.0	P	03/14/2024	16:56	LB129894
	Copper	20.0	+/-20.0	U	20.0	P	03/14/2024	16:56	LB129894
	Iron	100	+/-100	U	100	P	03/14/2024	16:56	LB129894
	Lead	12.0	+/-12.0	U	12.0	P	03/14/2024	16:56	LB129894
	Magnesium	2000	+/-2000	U	2000	P	03/14/2024	16:56	LB129894
	Manganese	20.0	+/-20.0	U	20.0	P	03/14/2024	16:56	LB129894

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	03/14/2024	16:56	LB129894
	Potassium	2000	+/-2000	U	2000	P	03/14/2024	16:56	LB129894
	Selenium	20.0	+/-20.0	U	20.0	P	03/14/2024	16:56	LB129894
	Silver	10.0	+/-10.0	U	10.0	P	03/14/2024	16:56	LB129894
	Sodium	2000	+/-2000	U	2000	P	03/14/2024	16:56	LB129894
	Thallium	40.0	+/-40.0	U	40.0	P	03/14/2024	16:56	LB129894
	Vanadium	40.0	+/-40.0	U	40.0	P	03/14/2024	16:56	LB129894
	Zinc	40.0	+/-40.0	U	40.0	P	03/14/2024	16:56	LB129894

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/18/2024	17:58	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	17:58	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	17:58	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	17:58	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	17:58	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	17:58	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	17:58	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	17:58	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	17:58	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	17:58	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	17:58	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	17:58	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	17:58	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	17:58	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	17:58	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	17:58	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	17:58	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	17:58	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/18/2024	17:58	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	17:58	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	17:58	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	17:58	LB129934

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/18/2024	18:38	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	18:38	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	18:38	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	18:38	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	18:38	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	18:38	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	18:38	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	18:38	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	18:38	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	18:38	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	18:38	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	18:38	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	18:38	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	18:38	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	18:38	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	18:38	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	18:38	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	18:38	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/18/2024	18:38	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	18:38	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	18:38	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	18:38	LB129934
CCB02	Aluminum	100	+/-100	U	100	P	03/18/2024	19:52	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	19:52	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	19:52	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	19:52	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	19:52	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	19:52	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	19:52	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	19:52	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	19:52	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	19:52	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	19:52	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	19:52	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	19:52	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	19:52	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	19:52	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	19:52	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	19:52	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	19:52	LB129934

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	03/18/2024	19:52	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	19:52	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	19:52	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	19:52	LB129934
CCB03	Aluminum	100	+/-100	U	100	P	03/18/2024	21:13	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	21:13	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	21:13	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	21:13	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	21:13	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	21:13	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	21:13	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	21:13	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	21:13	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	21:13	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	21:13	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	21:13	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	21:13	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	21:13	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	21:13	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	21:13	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	21:13	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	21:13	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/18/2024	21:13	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	21:13	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	21:13	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	21:13	LB129934
CCB04	Aluminum	100	+/-100	U	100	P	03/18/2024	22:31	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	22:31	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	22:31	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	22:31	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	22:31	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	22:31	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	22:31	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	22:31	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	22:31	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	22:31	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	22:31	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	22:31	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	22:31	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	22:31	LB129934

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	22:31	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	22:31	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	22:31	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	22:31	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/18/2024	22:31	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	22:31	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	22:31	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	22:31	LB129934
CCB05	Aluminum	100	+/-100	U	100	P	03/18/2024	23:24	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/18/2024	23:24	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/18/2024	23:24	LB129934
	Barium	100	+/-100	U	100	P	03/18/2024	23:24	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/18/2024	23:24	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/18/2024	23:24	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/18/2024	23:24	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/18/2024	23:24	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/18/2024	23:24	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/18/2024	23:24	LB129934
	Iron	100	+/-100	U	100	P	03/18/2024	23:24	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/18/2024	23:24	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/18/2024	23:24	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/18/2024	23:24	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/18/2024	23:24	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/18/2024	23:24	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/18/2024	23:24	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/18/2024	23:24	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/18/2024	23:24	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/18/2024	23:24	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/18/2024	23:24	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/18/2024	23:24	LB129934
CCB06	Aluminum	100	+/-100	U	100	P	03/19/2024	00:51	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/19/2024	00:51	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/19/2024	00:51	LB129934
	Barium	100	+/-100	U	100	P	03/19/2024	00:51	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/19/2024	00:51	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/19/2024	00:51	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/19/2024	00:51	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/19/2024	00:51	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/19/2024	00:51	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/19/2024	00:51	LB129934

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	03/19/2024	00:51	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/19/2024	00:51	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/19/2024	00:51	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/19/2024	00:51	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/19/2024	00:51	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/19/2024	00:51	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/19/2024	00:51	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/19/2024	00:51	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/19/2024	00:51	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/19/2024	00:51	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/19/2024	00:51	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/19/2024	00:51	LB129934
CCB07	Aluminum	100	+/-100	U	100	P	03/19/2024	01:57	LB129934
	Antimony	50.0	+/-50.0	U	50.0	P	03/19/2024	01:57	LB129934
	Arsenic	20.0	+/-20.0	U	20.0	P	03/19/2024	01:57	LB129934
	Barium	100	+/-100	U	100	P	03/19/2024	01:57	LB129934
	Beryllium	6.00	+/-6.00	U	6.00	P	03/19/2024	01:57	LB129934
	Cadmium	6.00	+/-6.00	U	6.00	P	03/19/2024	01:57	LB129934
	Calcium	2000	+/-2000	U	2000	P	03/19/2024	01:57	LB129934
	Chromium	10.0	+/-10.0	U	10.0	P	03/19/2024	01:57	LB129934
	Cobalt	30.0	+/-30.0	U	30.0	P	03/19/2024	01:57	LB129934
	Copper	20.0	+/-20.0	U	20.0	P	03/19/2024	01:57	LB129934
	Iron	100	+/-100	U	100	P	03/19/2024	01:57	LB129934
	Lead	12.0	+/-12.0	U	12.0	P	03/19/2024	01:57	LB129934
	Magnesium	2000	+/-2000	U	2000	P	03/19/2024	01:57	LB129934
	Manganese	20.0	+/-20.0	U	20.0	P	03/19/2024	01:57	LB129934
	Nickel	40.0	+/-40.0	U	40.0	P	03/19/2024	01:57	LB129934
	Potassium	2000	+/-2000	U	2000	P	03/19/2024	01:57	LB129934
	Selenium	20.0	+/-20.0	U	20.0	P	03/19/2024	01:57	LB129934
	Silver	10.0	+/-10.0	U	10.0	P	03/19/2024	01:57	LB129934
	Sodium	2000	+/-2000	U	2000	P	03/19/2024	01:57	LB129934
	Thallium	40.0	+/-40.0	U	40.0	P	03/19/2024	01:57	LB129934
	Vanadium	40.0	+/-40.0	U	40.0	P	03/19/2024	01:57	LB129934
	Zinc	40.0	+/-40.0	U	40.0	P	03/19/2024	01:57	LB129934

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/21/2024	12:07	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	12:07	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	12:07	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	12:07	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	12:07	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	12:07	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	12:07	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	12:07	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	12:07	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	12:07	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	12:07	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	12:07	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	12:07	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	12:07	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	12:07	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	12:07	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	12:07	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	12:07	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	12:07	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	12:07	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	12:07	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	12:07	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/21/2024	12:38	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	12:38	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	12:38	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	12:38	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	12:38	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	12:38	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	12:38	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	12:38	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	12:38	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	12:38	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	12:38	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	12:38	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	12:38	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	12:38	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	12:38	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	12:38	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	12:38	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	12:38	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	12:38	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	12:38	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	12:38	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	12:38	LB129987
CCB02	Aluminum	100	+/-100	U	100	P	03/21/2024	13:39	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	13:39	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	13:39	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	13:39	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	13:39	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	13:39	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	13:39	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	13:39	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	13:39	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	13:39	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	13:39	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	13:39	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	13:39	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	13:39	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	13:39	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	13:39	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	13:39	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	13:39	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	03/21/2024	13:39	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	13:39	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	13:39	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	13:39	LB129987
CCB03	Aluminum	100	+/-100	U	100	P	03/21/2024	14:31	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	14:31	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	14:31	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	14:31	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	14:31	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	14:31	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	14:31	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	14:31	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	14:31	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	14:31	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	14:31	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	14:31	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	14:31	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	14:31	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	14:31	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	14:31	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	14:31	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	14:31	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	14:31	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	14:31	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	14:31	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	14:31	LB129987
CCB04	Aluminum	100	+/-100	U	100	P	03/21/2024	15:28	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	15:28	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	15:28	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	15:28	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	15:28	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	15:28	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	15:28	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	15:28	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	15:28	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	15:28	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	15:28	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	15:28	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	15:28	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	15:28	LB129987

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	15:28	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	15:28	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	15:28	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	15:28	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	15:28	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	15:28	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	15:28	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	15:28	LB129987
CCB05	Aluminum	100	+/-100	U	100	P	03/21/2024	16:33	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	16:33	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	16:33	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	16:33	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	16:33	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	16:33	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	16:33	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	16:33	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	16:33	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	16:33	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	16:33	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	16:33	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	16:33	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	16:33	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	16:33	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	16:33	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	16:33	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	16:33	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	16:33	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	16:33	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	16:33	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	16:33	LB129987
CCB06	Aluminum	100	+/-100	U	100	P	03/21/2024	17:57	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	17:57	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	17:57	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	17:57	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	17:57	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	17:57	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	17:57	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	17:57	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	17:57	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	17:57	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	03/21/2024	17:57	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	17:57	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	17:57	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	17:57	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	17:57	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	17:57	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	17:57	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	17:57	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	17:57	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	17:57	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	17:57	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	17:57	LB129987
CCB07	Aluminum	100	+/-100	U	100	P	03/21/2024	19:01	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	19:01	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	19:01	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	19:01	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	19:01	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	19:01	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	19:01	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	19:01	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	19:01	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	19:01	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	19:01	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	19:01	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	19:01	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	19:01	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	19:01	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	19:01	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	19:01	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	19:01	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	19:01	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	19:01	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	19:01	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	19:01	LB129987
CCB08	Aluminum	100	+/-100	U	100	P	03/21/2024	20:07	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	20:07	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	20:07	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	20:07	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	20:07	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	20:07	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Calcium	2000	+/-2000	U	2000	P	03/21/2024	20:07	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	20:07	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	20:07	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	20:07	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	20:07	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	20:07	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	20:07	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	20:07	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	20:07	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	20:07	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	20:07	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	20:07	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	20:07	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	20:07	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	20:07	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	20:07	LB129987
CCB09	Aluminum	100	+/-100	U	100	P	03/21/2024	21:08	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	21:08	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	21:08	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	21:08	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	21:08	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	21:08	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	21:08	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	21:08	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	21:08	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	21:08	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	21:08	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	21:08	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	21:08	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	21:08	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	21:08	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	21:08	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	21:08	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	21:08	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	21:08	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	21:08	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	21:08	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	21:08	LB129987
CCB10	Aluminum	100	+/-100	U	100	P	03/21/2024	22:02	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	22:02	LB129987

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	22:02	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	22:02	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	22:02	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	22:02	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	22:02	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	22:02	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	22:02	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	22:02	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	22:02	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	22:02	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	22:02	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	22:02	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	22:02	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	22:02	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	22:02	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	22:02	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	22:02	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	22:02	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	22:02	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	22:02	LB129987
CCB11	Aluminum	100	+/-100	U	100	P	03/21/2024	22:55	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	22:55	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	22:55	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	22:55	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	22:55	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	22:55	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	22:55	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	22:55	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	22:55	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	22:55	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	22:55	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	22:55	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	22:55	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	22:55	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	22:55	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	22:55	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	22:55	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	22:55	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	22:55	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	22:55	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	22:55	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	22:55	LB129987
CCB12	Aluminum	100	+/-100	U	100	P	03/21/2024	23:51	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/21/2024	23:51	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/21/2024	23:51	LB129987
	Barium	100	+/-100	U	100	P	03/21/2024	23:51	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/21/2024	23:51	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/21/2024	23:51	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/21/2024	23:51	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/21/2024	23:51	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/21/2024	23:51	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/21/2024	23:51	LB129987
	Iron	100	+/-100	U	100	P	03/21/2024	23:51	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/21/2024	23:51	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/21/2024	23:51	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/21/2024	23:51	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/21/2024	23:51	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/21/2024	23:51	LB129987
	Selenium	20.0	+/-20.0	U	20.0	P	03/21/2024	23:51	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/21/2024	23:51	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/21/2024	23:51	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/21/2024	23:51	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/21/2024	23:51	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/21/2024	23:51	LB129987
CCB13	Aluminum	100	+/-100	U	100	P	03/22/2024	00:41	LB129987
	Antimony	50.0	+/-50.0	U	50.0	P	03/22/2024	00:41	LB129987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/22/2024	00:41	LB129987
	Barium	100	+/-100	U	100	P	03/22/2024	00:41	LB129987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/22/2024	00:41	LB129987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/22/2024	00:41	LB129987
	Calcium	2000	+/-2000	U	2000	P	03/22/2024	00:41	LB129987
	Chromium	10.0	+/-10.0	U	10.0	P	03/22/2024	00:41	LB129987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/22/2024	00:41	LB129987
	Copper	20.0	+/-20.0	U	20.0	P	03/22/2024	00:41	LB129987
	Iron	100	+/-100	U	100	P	03/22/2024	00:41	LB129987
	Lead	12.0	+/-12.0	U	12.0	P	03/22/2024	00:41	LB129987
	Magnesium	2000	+/-2000	U	2000	P	03/22/2024	00:41	LB129987
	Manganese	20.0	+/-20.0	U	20.0	P	03/22/2024	00:41	LB129987
	Nickel	40.0	+/-40.0	U	40.0	P	03/22/2024	00:41	LB129987
	Potassium	2000	+/-2000	U	2000	P	03/22/2024	00:41	LB129987

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB13	Selenium	20.0	+/-20.0	U	20.0	P	03/22/2024	00:41	LB129987
	Silver	10.0	+/-10.0	U	10.0	P	03/22/2024	00:41	LB129987
	Sodium	2000	+/-2000	U	2000	P	03/22/2024	00:41	LB129987
	Thallium	40.0	+/-40.0	U	40.0	P	03/22/2024	00:41	LB129987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/22/2024	00:41	LB129987
	Zinc	40.0	+/-40.0	U	40.0	P	03/22/2024	00:41	LB129987

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/26/2024	11:18	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	11:18	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	11:18	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	11:18	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	11:18	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	11:18	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	11:18	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	11:18	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	11:18	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	11:18	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	11:18	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	11:18	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	11:18	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	11:18	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	11:18	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	11:18	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	11:18	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	11:18	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	11:18	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	11:18	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	11:18	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	11:18	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/26/2024	13:30	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	13:30	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	13:30	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	13:30	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	13:30	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	13:30	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	13:30	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	13:30	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	13:30	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	13:30	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	13:30	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	13:30	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	13:30	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	13:30	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	13:30	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	13:30	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	13:30	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	13:30	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	13:30	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	13:30	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	13:30	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	13:30	LB130043
CCB02	Aluminum	100	+/-100	U	100	P	03/26/2024	15:26	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	15:26	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	15:26	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	15:26	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	15:26	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	15:26	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	15:26	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	15:26	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	15:26	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	15:26	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	15:26	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	15:26	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	15:26	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	15:26	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	15:26	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	15:26	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	15:26	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	15:26	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	03/26/2024	15:26	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	15:26	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	15:26	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	15:26	LB130043
CCB03	Aluminum	100	+/-100	U	100	P	03/26/2024	16:40	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	16:40	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	16:40	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	16:40	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	16:40	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	16:40	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	16:40	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	16:40	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	16:40	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	16:40	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	16:40	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	16:40	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	16:40	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	16:40	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	16:40	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	16:40	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	16:40	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	16:40	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	16:40	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	16:40	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	16:40	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	16:40	LB130043
CCB04	Aluminum	100	+/-100	U	100	P	03/26/2024	17:28	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	17:28	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	17:28	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	17:28	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	17:28	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	17:28	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	17:28	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	17:28	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	17:28	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	17:28	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	17:28	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	17:28	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	17:28	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	17:28	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	17:28	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	17:28	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	17:28	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	17:28	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	17:28	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	17:28	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	17:28	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	17:28	LB130043
CCB05	Aluminum	100	+/-100	U	100	P	03/26/2024	18:16	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	18:16	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	18:16	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	18:16	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	18:16	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	18:16	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	18:16	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	18:16	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	18:16	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	18:16	LB130043
	Iron	100	+/-100	U	100	P	03/26/2024	18:16	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	18:16	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	18:16	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	18:16	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	18:16	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	18:16	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	18:16	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	18:16	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	18:16	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	18:16	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	18:16	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	18:16	LB130043
CCB06	Aluminum	100	+/-100	U	100	P	03/26/2024	18:52	LB130043
	Antimony	50.0	+/-50.0	U	50.0	P	03/26/2024	18:52	LB130043
	Arsenic	20.0	+/-20.0	U	20.0	P	03/26/2024	18:52	LB130043
	Barium	100	+/-100	U	100	P	03/26/2024	18:52	LB130043
	Beryllium	6.00	+/-6.00	U	6.00	P	03/26/2024	18:52	LB130043
	Cadmium	6.00	+/-6.00	U	6.00	P	03/26/2024	18:52	LB130043
	Calcium	2000	+/-2000	U	2000	P	03/26/2024	18:52	LB130043
	Chromium	10.0	+/-10.0	U	10.0	P	03/26/2024	18:52	LB130043
	Cobalt	30.0	+/-30.0	U	30.0	P	03/26/2024	18:52	LB130043
	Copper	20.0	+/-20.0	U	20.0	P	03/26/2024	18:52	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	03/26/2024	18:52	LB130043
	Lead	12.0	+/-12.0	U	12.0	P	03/26/2024	18:52	LB130043
	Magnesium	2000	+/-2000	U	2000	P	03/26/2024	18:52	LB130043
	Manganese	20.0	+/-20.0	U	20.0	P	03/26/2024	18:52	LB130043
	Nickel	40.0	+/-40.0	U	40.0	P	03/26/2024	18:52	LB130043
	Potassium	2000	+/-2000	U	2000	P	03/26/2024	18:52	LB130043
	Selenium	20.0	+/-20.0	U	20.0	P	03/26/2024	18:52	LB130043
	Silver	10.0	+/-10.0	U	10.0	P	03/26/2024	18:52	LB130043
	Sodium	2000	+/-2000	U	2000	P	03/26/2024	18:52	LB130043
	Thallium	40.0	+/-40.0	U	40.0	P	03/26/2024	18:52	LB130043
	Vanadium	40.0	+/-40.0	U	40.0	P	03/26/2024	18:52	LB130043
	Zinc	40.0	+/-40.0	U	40.0	P	03/26/2024	18:52	LB130043

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB159659BL		**WATER**		**Batch Number:**	**PB159659**		**Prep Date:**	**03/15/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	03/19/2024	13:37	LB129940

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB159691BL		**WATER**		**Batch Number:**	**PB159691**		**Prep Date:**	**03/20/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	03/20/2024	14:52	LB129958

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB159517BL		**WATER**		**Batch Number:**	**PB159517**		**Prep Date:**	**03/14/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	03/18/2024	18:51	LB129934
	Antimony	25.0	<25.0	U	25.0	P	03/18/2024	18:51	LB129934
	Arsenic	10.0	<10.0	U	10.0	P	03/18/2024	18:51	LB129934
	Barium	50.0	<50.0	U	50.0	P	03/18/2024	18:51	LB129934
	Beryllium	3.00	<3.00	U	3.00	P	03/18/2024	18:51	LB129934
	Cadmium	3.00	<3.00	U	3.00	P	03/18/2024	18:51	LB129934
	Calcium	1000	<1000	U	1000	P	03/18/2024	18:51	LB129934
	Chromium	5.00	<5.00	U	5.00	P	03/18/2024	18:51	LB129934
	Cobalt	15.0	<15.0	U	15.0	P	03/18/2024	18:51	LB129934
	Copper	10.0	<10.0	U	10.0	P	03/18/2024	18:51	LB129934
	Iron	50.0	<50.0	U	50.0	P	03/18/2024	18:51	LB129934
	Lead	6.00	<6.00	U	6.00	P	03/18/2024	18:51	LB129934
	Magnesium	1000	<1000	U	1000	P	03/18/2024	18:51	LB129934
	Manganese	10.0	<10.0	U	10.0	P	03/18/2024	18:51	LB129934
	Nickel	20.0	<20.0	U	20.0	P	03/18/2024	18:51	LB129934
	Potassium	1000	<1000	U	1000	P	03/18/2024	18:51	LB129934
	Selenium	10.0	<10.0	U	10.0	P	03/18/2024	18:51	LB129934
	Silver	5.00	<5.00	U	5.00	P	03/18/2024	18:51	LB129934
	Sodium	1000	<1000	U	1000	P	03/18/2024	18:51	LB129934
	Thallium	20.0	<20.0	U	20.0	P	03/18/2024	18:51	LB129934
	Vanadium	20.0	<20.0	U	20.0	P	03/18/2024	18:51	LB129934
	Zinc	20.0	<20.0	U	20.0	P	03/18/2024	18:51	LB129934

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB159541BL		**WATER**		**Batch Number:**	**PB159541**		**Prep Date:**	**03/14/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	03/14/2024	14:31	LB129894
	Antimony	25.0	<25.0	U	25.0	P	03/14/2024	14:31	LB129894
	Arsenic	10.0	<10.0	U	10.0	P	03/14/2024	14:31	LB129894
	Barium	50.0	<50.0	U	50.0	P	03/14/2024	14:31	LB129894
	Beryllium	3.00	<3.00	U	3.00	P	03/14/2024	14:31	LB129894
	Cadmium	3.00	<3.00	U	3.00	P	03/14/2024	14:31	LB129894
	Calcium	1000	<1000	U	1000	P	03/14/2024	14:31	LB129894
	Chromium	5.00	<5.00	U	5.00	P	03/14/2024	14:31	LB129894
	Cobalt	15.0	<15.0	U	15.0	P	03/14/2024	14:31	LB129894
	Copper	10.0	<10.0	U	10.0	P	03/14/2024	14:31	LB129894
	Iron	50.0	<50.0	U	50.0	P	03/14/2024	14:31	LB129894
	Lead	6.00	<6.00	U	6.00	P	03/14/2024	14:31	LB129894
	Magnesium	1000	<1000	U	1000	P	03/14/2024	14:31	LB129894
	Manganese	10.0	<10.0	U	10.0	P	03/14/2024	14:31	LB129894
	Nickel	20.0	<20.0	U	20.0	P	03/14/2024	14:31	LB129894
	Potassium	1000	<1000	U	1000	P	03/14/2024	14:31	LB129894

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Instrument: P4

Selenium	10.0	<10.0	U	10.0	P	03/14/2024	14:31	LB129894
Silver	5.00	<5.00	U	5.00	P	03/14/2024	14:31	LB129894
Sodium	1000	<1000	U	1000	P	03/14/2024	14:31	LB129894
Thallium	20.0	<20.0	U	20.0	P	03/14/2024	14:31	LB129894
Vanadium	20.0	<20.0	U	20.0	P	03/14/2024	14:31	LB129894
Zinc	20.0	<20.0	U	20.0	P	03/14/2024	14:31	LB129894

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	254000	255000	100	216000	294000	03/14/2024	13:00	LB129894
	Antimony	-2.19			-50	50	03/14/2024	13:00	LB129894
	Arsenic	8.36			-20	20	03/14/2024	13:00	LB129894
	Barium	6.10	6.0	102	-94	106	03/14/2024	13:00	LB129894
	Beryllium	1.07			-6	6	03/14/2024	13:00	LB129894
	Cadmium	3.29	1.0	329	-5	7	03/14/2024	13:00	LB129894
	Calcium	245000	245000	100	208000	282000	03/14/2024	13:00	LB129894
	Chromium	55.9	52.0	108	42	62	03/14/2024	13:00	LB129894
	Cobalt	2.84			-30	30	03/14/2024	13:00	LB129894
	Copper	0.43	2.0	21	-18	22	03/14/2024	13:00	LB129894
	Iron	97400	101000	96	85600	116500	03/14/2024	13:00	LB129894
	Lead	-5.25			-12	12	03/14/2024	13:00	LB129894
	Magnesium	253000	255000	99	216000	294000	03/14/2024	13:00	LB129894
	Manganese	12.6	7.0	180	-13	27	03/14/2024	13:00	LB129894
	Nickel	5.06	2.0	253	-38	42	03/14/2024	13:00	LB129894
	Potassium	-47.8			0	0	03/14/2024	13:00	LB129894
	Selenium	-7.87			-20	20	03/14/2024	13:00	LB129894
	Silver	5.22			-10	10	03/14/2024	13:00	LB129894
	Sodium	29.7			0	0	03/14/2024	13:00	LB129894
	Thallium	-2.52			-40	40	03/14/2024	13:00	LB129894
	Vanadium	3.22			-40	40	03/14/2024	13:00	LB129894
	Zinc	2.56			-40	40	03/14/2024	13:00	LB129894
ICSAB01	Aluminum	256000	247000	104	209000	285000	03/14/2024	13:04	LB129894
	Antimony	620	618	100	525	711	03/14/2024	13:04	LB129894
	Arsenic	109	104	105	88.4	120	03/14/2024	13:04	LB129894
	Barium	525	537	98	437	637	03/14/2024	13:04	LB129894
	Beryllium	499	495	101	420	570	03/14/2024	13:04	LB129894
	Cadmium	982	972	101	826	1120	03/14/2024	13:04	LB129894
	Calcium	248000	235000	106	199000	271000	03/14/2024	13:04	LB129894
	Chromium	517	542	95	460	624	03/14/2024	13:04	LB129894
	Cobalt	482	476	101	404	548	03/14/2024	13:04	LB129894
	Copper	480	511	94	434	588	03/14/2024	13:04	LB129894
	Iron	95200	99300	96	84400	114500	03/14/2024	13:04	LB129894
	Lead	43.1	49.0	88	37	61	03/14/2024	13:04	LB129894
	Magnesium	255000	248000	103	210000	286000	03/14/2024	13:04	LB129894
	Manganese	514	507	101	430	584	03/14/2024	13:04	LB129894
	Nickel	958	954	100	810	1100	03/14/2024	13:04	LB129894
	Potassium	-54.9			0	0	03/14/2024	13:04	LB129894
	Selenium	36.1	46.0	78	26	66	03/14/2024	13:04	LB129894
	Silver	213	201	106	170	232	03/14/2024	13:04	LB129894
	Sodium	45.2			0	0	03/14/2024	13:04	LB129894
	Thallium	88.4	108	82	68	148	03/14/2024	13:04	LB129894
	Vanadium	487	491	99	417	565	03/14/2024	13:04	LB129894
	Zinc	1020	952	107	809	1095	03/14/2024	13:04	LB129894
ICSA	Aluminum	242000	255000	95	216000	294000	03/14/2024	13:09	LB129894

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA	Antimony	5.42			-50	50	03/14/2024	13:09	LB129894
	Arsenic	25.3			-20	20	03/14/2024	13:09	LB129894
	Barium	24.0	6.0	400	-94	106	03/14/2024	13:09	LB129894
	Beryllium	0.78			-6	6	03/14/2024	13:09	LB129894
	Cadmium	2.47	1.0	247	-5	7	03/14/2024	13:09	LB129894
	Calcium	256000	245000	104	208000	282000	03/14/2024	13:09	LB129894
	Chromium	52.1	52.0	100	42	62	03/14/2024	13:09	LB129894
	Cobalt	0.16			-30	30	03/14/2024	13:09	LB129894
	Copper	-6.70	2.0	335	-18	22	03/14/2024	13:09	LB129894
	Iron	94500	101000	94	85600	116500	03/14/2024	13:09	LB129894
	Lead	-1.36			-12	12	03/14/2024	13:09	LB129894
	Magnesium	246000	255000	96	216000	294000	03/14/2024	13:09	LB129894
	Manganese	12.8	7.0	183	-13	27	03/14/2024	13:09	LB129894
	Nickel	9.78	2.0	489	-38	42	03/14/2024	13:09	LB129894
	Potassium	-991			0	0	03/14/2024	13:09	LB129894
	Selenium	-9.26			-20	20	03/14/2024	13:09	LB129894
	Silver	12.4			-10	10	03/14/2024	13:09	LB129894
	Sodium	163			0	0	03/14/2024	13:09	LB129894
	Thallium	-4.00			-40	40	03/14/2024	13:09	LB129894
	Vanadium	-19.9			-40	40	03/14/2024	13:09	LB129894
	Zinc	8.35			-40	40	03/14/2024	13:09	LB129894
ICSAB	Aluminum	241000	247000	98	209000	285000	03/14/2024	13:13	LB129894
	Antimony	561	618	91	525	711	03/14/2024	13:13	LB129894
	Arsenic	146	104	140	88.4	120	03/14/2024	13:13	LB129894
	Barium	521	537	97	437	637	03/14/2024	13:13	LB129894
	Beryllium	490	495	99	420	570	03/14/2024	13:13	LB129894
	Cadmium	941	972	97	826	1120	03/14/2024	13:13	LB129894
	Calcium	254000	235000	108	199000	271000	03/14/2024	13:13	LB129894
	Chromium	511	542	94	460	624	03/14/2024	13:13	LB129894
	Cobalt	463	476	97	404	548	03/14/2024	13:13	LB129894
	Copper	486	511	95	434	588	03/14/2024	13:13	LB129894
	Iron	94100	99300	95	84400	114500	03/14/2024	13:13	LB129894
	Lead	60.9	49.0	124	37	61	03/14/2024	13:13	LB129894
	Magnesium	246000	248000	99	210000	286000	03/14/2024	13:13	LB129894
	Manganese	521	507	103	430	584	03/14/2024	13:13	LB129894
	Nickel	936	954	98	810	1100	03/14/2024	13:13	LB129894
	Potassium	-912			0	0	03/14/2024	13:13	LB129894
	Selenium	67.1	46.0	146	26	66	03/14/2024	13:13	LB129894
	Silver	211	201	105	170	232	03/14/2024	13:13	LB129894
	Sodium	146			0	0	03/14/2024	13:13	LB129894
	Thallium	74.2	108	69	68	148	03/14/2024	13:13	LB129894
	Vanadium	434	491	88	417	565	03/14/2024	13:13	LB129894
	Zinc	1010	952	106	809	1095	03/14/2024	13:13	LB129894
ICSA01	Aluminum	249000	255000	98	216000	294000	03/18/2024	18:07	LB129934
	Antimony	-1.82			-50	50	03/18/2024	18:07	LB129934

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	7.19			-20	20	03/18/2024	18:07	LB129934
	Barium	5.89	6.0	98	-94	106	03/18/2024	18:07	LB129934
	Beryllium	1.68			-6	6	03/18/2024	18:07	LB129934
	Cadmium	1.10	1.0	110	-5	7	03/18/2024	18:07	LB129934
	Calcium	236000	245000	96	208000	282000	03/18/2024	18:07	LB129934
	Chromium	55.3	52.0	106	42	62	03/18/2024	18:07	LB129934
	Cobalt	4.15			-30	30	03/18/2024	18:07	LB129934
	Copper	5.07	2.0	254	-18	22	03/18/2024	18:07	LB129934
	Iron	90300	101000	89	85600	116500	03/18/2024	18:07	LB129934
	Lead	-0.30			-12	12	03/18/2024	18:07	LB129934
	Magnesium	260000	255000	102	216000	294000	03/18/2024	18:07	LB129934
	Manganese	11.3	7.0	161	-13	27	03/18/2024	18:07	LB129934
	Nickel	4.73	2.0	236	-38	42	03/18/2024	18:07	LB129934
	Potassium	-0.70			0	0	03/18/2024	18:07	LB129934
	Selenium	-11.5			-20	20	03/18/2024	18:07	LB129934
	Silver	0.98			-10	10	03/18/2024	18:07	LB129934
	Sodium	24.9			0	0	03/18/2024	18:07	LB129934
	Thallium	-5.65			-40	40	03/18/2024	18:07	LB129934
	Vanadium	1.32			-40	40	03/18/2024	18:07	LB129934
	Zinc	4.50			-40	40	03/18/2024	18:07	LB129934
ICSAB01	Aluminum	253000	247000	102	209000	285000	03/18/2024	18:21	LB129934
	Antimony	605	618	98	525	711	03/18/2024	18:21	LB129934
	Arsenic	111	104	107	88.4	120	03/18/2024	18:21	LB129934
	Barium	499	537	93	437	637	03/18/2024	18:21	LB129934
	Beryllium	501	495	101	420	570	03/18/2024	18:21	LB129934
	Cadmium	1010	972	104	826	1120	03/18/2024	18:21	LB129934
	Calcium	243000	235000	103	199000	271000	03/18/2024	18:21	LB129934
	Chromium	535	542	99	460	624	03/18/2024	18:21	LB129934
	Cobalt	496	476	104	404	548	03/18/2024	18:21	LB129934
	Copper	474	511	93	434	588	03/18/2024	18:21	LB129934
	Iron	93600	99300	94	84400	114500	03/18/2024	18:21	LB129934
	Lead	46.2	49.0	94	37	61	03/18/2024	18:21	LB129934
	Magnesium	266000	248000	107	210000	286000	03/18/2024	18:21	LB129934
	Manganese	500	507	99	430	584	03/18/2024	18:21	LB129934
	Nickel	978	954	102	810	1100	03/18/2024	18:21	LB129934
	Potassium	15.9			0	0	03/18/2024	18:21	LB129934
	Selenium	40.1	46.0	87	26	66	03/18/2024	18:21	LB129934
	Silver	209	201	104	170	232	03/18/2024	18:21	LB129934
	Sodium	45.7			0	0	03/18/2024	18:21	LB129934
	Thallium	89.6	108	83	68	148	03/18/2024	18:21	LB129934
	Vanadium	478	491	97	417	565	03/18/2024	18:21	LB129934
	Zinc	1030	952	108	809	1095	03/18/2024	18:21	LB129934
ICSA	Aluminum	233000	255000	91	216000	294000	03/18/2024	18:25	LB129934
	Antimony	20.6			-50	50	03/18/2024	18:25	LB129934
	Arsenic	12.7			-20	20	03/18/2024	18:25	LB129934

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA	Barium	13.7	6.0	228	-94	106	03/18/2024	18:25	LB129934
	Beryllium	2.63			-6	6	03/18/2024	18:25	LB129934
	Cadmium	0.38	1.0	38	-5	7	03/18/2024	18:25	LB129934
	Calcium	239000	245000	98	208000	282000	03/18/2024	18:25	LB129934
	Chromium	52.7	52.0	101	42	62	03/18/2024	18:25	LB129934
	Cobalt	5.14			-30	30	03/18/2024	18:25	LB129934
	Copper	13.5	2.0	675	-18	22	03/18/2024	18:25	LB129934
	Iron	91200	101000	90	85600	116500	03/18/2024	18:25	LB129934
	Lead	-1.40			-12	12	03/18/2024	18:25	LB129934
	Magnesium	242000	255000	95	216000	294000	03/18/2024	18:25	LB129934
	Manganese	10.1	7.0	144	-13	27	03/18/2024	18:25	LB129934
	Nickel	9.36	2.0	468	-38	42	03/18/2024	18:25	LB129934
	Potassium	-6.54			0	0	03/18/2024	18:25	LB129934
	Selenium	-18.2			-20	20	03/18/2024	18:25	LB129934
	Silver	-3.76			-10	10	03/18/2024	18:25	LB129934
	Sodium	184			0	0	03/18/2024	18:25	LB129934
	Thallium	-24.2			-40	40	03/18/2024	18:25	LB129934
	Vanadium	-19.5			-40	40	03/18/2024	18:25	LB129934
	Zinc	5.00			-40	40	03/18/2024	18:25	LB129934
ICSAB	Aluminum	234000	247000	95	209000	285000	03/18/2024	18:29	LB129934
	Antimony	553	618	90	525	711	03/18/2024	18:29	LB129934
	Arsenic	108	104	104	88.4	120	03/18/2024	18:29	LB129934
	Barium	486	537	90	437	637	03/18/2024	18:29	LB129934
	Beryllium	495	495	100	420	570	03/18/2024	18:29	LB129934
	Cadmium	950	972	98	826	1120	03/18/2024	18:29	LB129934
	Calcium	241000	235000	103	199000	271000	03/18/2024	18:29	LB129934
	Chromium	526	542	97	460	624	03/18/2024	18:29	LB129934
	Cobalt	463	476	97	404	548	03/18/2024	18:29	LB129934
	Copper	492	511	96	434	588	03/18/2024	18:29	LB129934
	Iron	88400	99300	89	84400	114500	03/18/2024	18:29	LB129934
	Lead	79.0	49.0	161	37	61	03/18/2024	18:29	LB129934
	Magnesium	243000	248000	98	210000	286000	03/18/2024	18:29	LB129934
	Manganese	505	507	100	430	584	03/18/2024	18:29	LB129934
	Nickel	934	954	98	810	1100	03/18/2024	18:29	LB129934
	Potassium	53.2			0	0	03/18/2024	18:29	LB129934
	Selenium	14.8	46.0	32	26	66	03/18/2024	18:29	LB129934
	Silver	185	201	92	170	232	03/18/2024	18:29	LB129934
	Sodium	169			0	0	03/18/2024	18:29	LB129934
	Thallium	82.8	108	77	68	148	03/18/2024	18:29	LB129934
	Vanadium	467	491	95	417	565	03/18/2024	18:29	LB129934
	Zinc	988	952	104	809	1095	03/18/2024	18:29	LB129934
ICSA01	Aluminum	254000	255000	100	216000	294000	03/21/2024	12:16	LB129987
	Antimony	-0.47			-50	50	03/21/2024	12:16	LB129987
	Arsenic	6.37			-20	20	03/21/2024	12:16	LB129987
	Barium	5.12	6.0	85	-94	106	03/21/2024	12:16	LB129987

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Beryllium	1.42			-6	6	03/21/2024	12:16	LB129987
	Cadmium	-0.88	1.0	88	-5	7	03/21/2024	12:16	LB129987
	Calcium	241000	245000	98	208000	282000	03/21/2024	12:16	LB129987
	Chromium	46.9	52.0	90	42	62	03/21/2024	12:16	LB129987
	Cobalt	3.14			-30	30	03/21/2024	12:16	LB129987
	Copper	-0.37	2.0	18	-18	22	03/21/2024	12:16	LB129987
	Iron	102000	101000	101	85600	116500	03/21/2024	12:16	LB129987
	Lead	-5.24			-12	12	03/21/2024	12:16	LB129987
	Magnesium	254000	255000	100	216000	294000	03/21/2024	12:16	LB129987
	Manganese	12.4	7.0	177	-13	27	03/21/2024	12:16	LB129987
	Nickel	5.60	2.0	280	-38	42	03/21/2024	12:16	LB129987
	Potassium	4.35			0	0	03/21/2024	12:16	LB129987
	Selenium	-13.5			-20	20	03/21/2024	12:16	LB129987
	Silver	-8.85			-10	10	03/21/2024	12:16	LB129987
	Sodium	59.4			0	0	03/21/2024	12:16	LB129987
	Thallium	0.034			-40	40	03/21/2024	12:16	LB129987
	Vanadium	3.68			-40	40	03/21/2024	12:16	LB129987
	Zinc	3.99			-40	40	03/21/2024	12:16	LB129987
ICSAB01	Aluminum	249000	247000	101	209000	285000	03/21/2024	12:21	LB129987
	Antimony	615	618	100	525	711	03/21/2024	12:21	LB129987
	Arsenic	110	104	106	88.4	120	03/21/2024	12:21	LB129987
	Barium	493	537	92	437	637	03/21/2024	12:21	LB129987
	Beryllium	486	495	98	420	570	03/21/2024	12:21	LB129987
	Cadmium	1010	972	104	826	1120	03/21/2024	12:21	LB129987
	Calcium	236000	235000	100	199000	271000	03/21/2024	12:21	LB129987
	Chromium	551	542	102	460	624	03/21/2024	12:21	LB129987
	Cobalt	493	476	104	404	548	03/21/2024	12:21	LB129987
	Copper	497	511	97	434	588	03/21/2024	12:21	LB129987
	Iron	98200	99300	99	84400	114500	03/21/2024	12:21	LB129987
	Lead	42.1	49.0	86	37	61	03/21/2024	12:21	LB129987
	Magnesium	250000	248000	101	210000	286000	03/21/2024	12:21	LB129987
	Manganese	489	507	96	430	584	03/21/2024	12:21	LB129987
	Nickel	985	954	103	810	1100	03/21/2024	12:21	LB129987
	Potassium	4.01			0	0	03/21/2024	12:21	LB129987
	Selenium	37.9	46.0	82	26	66	03/21/2024	12:21	LB129987
	Silver	210	201	104	170	232	03/21/2024	12:21	LB129987
	Sodium	54.0			0	0	03/21/2024	12:21	LB129987
	Thallium	103	108	95	68	148	03/21/2024	12:21	LB129987
	Vanadium	479	491	98	417	565	03/21/2024	12:21	LB129987
	Zinc	1060	952	111	809	1095	03/21/2024	12:21	LB129987
ICSA	Aluminum	255000	255000	100	216000	294000	03/21/2024	12:25	LB129987
	Antimony	-14.6			-50	50	03/21/2024	12:25	LB129987
	Arsenic	21.5			-20	20	03/21/2024	12:25	LB129987
	Barium	-7.38	6.0	123	-94	106	03/21/2024	12:25	LB129987
	Beryllium	2.68			-6	6	03/21/2024	12:25	LB129987

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA	Cadmium	-3.08	1.0	308	-5	7	03/21/2024	12:25	LB129987
	Calcium	252000	245000	103	208000	282000	03/21/2024	12:25	LB129987
	Chromium	43.8	52.0	84	42	62	03/21/2024	12:25	LB129987
	Cobalt	3.56			-30	30	03/21/2024	12:25	LB129987
	Copper	3.80	2.0	190	-18	22	03/21/2024	12:25	LB129987
	Iron	98000	101000	97	85600	116500	03/21/2024	12:25	LB129987
	Lead	1.08			-12	12	03/21/2024	12:25	LB129987
	Magnesium	255000	255000	100	216000	294000	03/21/2024	12:25	LB129987
	Manganese	6.85	7.0	98	-13	27	03/21/2024	12:25	LB129987
	Nickel	5.17	2.0	258	-38	42	03/21/2024	12:25	LB129987
	Potassium	-157			0	0	03/21/2024	12:25	LB129987
	Selenium	-6.28			-20	20	03/21/2024	12:25	LB129987
	Silver	1.68			-10	10	03/21/2024	12:25	LB129987
	Sodium	420			0	0	03/21/2024	12:25	LB129987
	Thallium	6.75			-40	40	03/21/2024	12:25	LB129987
	Vanadium	6.21			-40	40	03/21/2024	12:25	LB129987
	Zinc	0.45			-40	40	03/21/2024	12:25	LB129987
ICSAB	Aluminum	256000	247000	104	209000	285000	03/21/2024	12:29	LB129987
	Antimony	560	618	91	525	711	03/21/2024	12:29	LB129987
	Arsenic	116	104	112	88.4	120	03/21/2024	12:29	LB129987
	Barium	507	537	94	437	637	03/21/2024	12:29	LB129987
	Beryllium	514	495	104	420	570	03/21/2024	12:29	LB129987
	Cadmium	965	972	99	826	1120	03/21/2024	12:29	LB129987
	Calcium	252000	235000	107	199000	271000	03/21/2024	12:29	LB129987
	Chromium	544	542	100	460	624	03/21/2024	12:29	LB129987
	Cobalt	466	476	98	404	548	03/21/2024	12:29	LB129987
	Copper	501	511	98	434	588	03/21/2024	12:29	LB129987
	Iron	93600	99300	94	84400	114500	03/21/2024	12:29	LB129987
	Lead	22.4	49.0	46	37	61	03/21/2024	12:29	LB129987
	Magnesium	256000	248000	103	210000	286000	03/21/2024	12:29	LB129987
	Manganese	518	507	102	430	584	03/21/2024	12:29	LB129987
	Nickel	949	954	100	810	1100	03/21/2024	12:29	LB129987
	Potassium	256			0	0	03/21/2024	12:29	LB129987
	Selenium	42.1	46.0	92	26	66	03/21/2024	12:29	LB129987
	Silver	209	201	104	170	232	03/21/2024	12:29	LB129987
	Sodium	411			0	0	03/21/2024	12:29	LB129987
	Thallium	127	108	118	68	148	03/21/2024	12:29	LB129987
	Vanadium	521	491	106	417	565	03/21/2024	12:29	LB129987
	Zinc	1030	952	108	809	1095	03/21/2024	12:29	LB129987
ICSA01	Aluminum	249000	255000	98	216000	294000	03/26/2024	12:56	LB130043
	Antimony	-0.57			-50	50	03/26/2024	12:56	LB130043
	Arsenic	3.03			-20	20	03/26/2024	12:56	LB130043
	Barium	3.45	6.0	58	-94	106	03/26/2024	12:56	LB130043
	Beryllium	1.05			-6	6	03/26/2024	12:56	LB130043
	Cadmium	5.31	1.0	531	-5	7	03/26/2024	12:56	LB130043

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Calcium	241000	245000	98	208000	282000	03/26/2024	12:56	LB130043
	Chromium	43.9	52.0	84	42	62	03/26/2024	12:56	LB130043
	Cobalt	2.89			-30	30	03/26/2024	12:56	LB130043
	Copper	11.4	2.0	570	-18	22	03/26/2024	12:56	LB130043
	Iron	98000	101000	97	85600	116500	03/26/2024	12:56	LB130043
	Lead	2.53			-12	12	03/26/2024	12:56	LB130043
	Magnesium	217000	255000	85	216000	294000	03/26/2024	12:56	LB130043
	Manganese	14.4	7.0	206	-13	27	03/26/2024	12:56	LB130043
	Nickel	5.38	2.0	269	-38	42	03/26/2024	12:56	LB130043
	Potassium	22.4			0	0	03/26/2024	12:56	LB130043
	Selenium	-6.97			-20	20	03/26/2024	12:56	LB130043
	Silver	8.25			-10	10	03/26/2024	12:56	LB130043
	Sodium	27.0			0	0	03/26/2024	12:56	LB130043
	Thallium	-0.20			-40	40	03/26/2024	12:56	LB130043
	Vanadium	1.85			-40	40	03/26/2024	12:56	LB130043
	Zinc	6.29			-40	40	03/26/2024	12:56	LB130043
ICSAB01	Aluminum	253000	247000	102	209000	285000	03/26/2024	13:03	LB130043
	Antimony	616	618	100	525	711	03/26/2024	13:03	LB130043
	Arsenic	106	104	102	88.4	120	03/26/2024	13:03	LB130043
	Barium	487	537	91	437	637	03/26/2024	13:03	LB130043
	Beryllium	497	495	100	420	570	03/26/2024	13:03	LB130043
	Cadmium	949	972	98	826	1120	03/26/2024	13:03	LB130043
	Calcium	243000	235000	103	199000	271000	03/26/2024	13:03	LB130043
	Chromium	494	542	91	460	624	03/26/2024	13:03	LB130043
	Cobalt	464	476	98	404	548	03/26/2024	13:03	LB130043
	Copper	475	511	93	434	588	03/26/2024	13:03	LB130043
	Iron	93600	99300	94	84400	114500	03/26/2024	13:03	LB130043
	Lead	49.0	49.0	100	37	61	03/26/2024	13:03	LB130043
	Magnesium	217000	248000	88	210000	286000	03/26/2024	13:03	LB130043
	Manganese	502	507	99	430	584	03/26/2024	13:03	LB130043
	Nickel	936	954	98	810	1100	03/26/2024	13:03	LB130043
	Potassium	27.6			0	0	03/26/2024	13:03	LB130043
	Selenium	40.8	46.0	89	26	66	03/26/2024	13:03	LB130043
	Silver	205	201	102	170	232	03/26/2024	13:03	LB130043
	Sodium	34.0			0	0	03/26/2024	13:03	LB130043
	Thallium	91.7	108	85	68	148	03/26/2024	13:03	LB130043
	Vanadium	471	491	96	417	565	03/26/2024	13:03	LB130043
	Zinc	1000	952	105	809	1095	03/26/2024	13:03	LB130043
ICSA	Aluminum	235000	255000	92	216000	294000	03/26/2024	13:07	LB130043
	Antimony	-9.50			-50	50	03/26/2024	13:07	LB130043
	Arsenic	-30.4			-20	20	03/26/2024	13:07	LB130043
	Barium	-42.7	6.0	712	-94	106	03/26/2024	13:07	LB130043
	Beryllium	1.68			-6	6	03/26/2024	13:07	LB130043
	Cadmium	4.41	1.0	441	-5	7	03/26/2024	13:07	LB130043
	Calcium	241000	245000	98	208000	282000	03/26/2024	13:07	LB130043

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA	Chromium	37.2	52.0	72	42	62	03/26/2024	13:07	LB130043
	Cobalt	1.50			-30	30	03/26/2024	13:07	LB130043
	Copper	9.53	2.0	476	-18	22	03/26/2024	13:07	LB130043
	Iron	91500	101000	91	85600	116500	03/26/2024	13:07	LB130043
	Lead	-10.7			-12	12	03/26/2024	13:07	LB130043
	Magnesium	201000	255000	79	216000	294000	03/26/2024	13:07	LB130043
	Manganese	16.5	7.0	236	-13	27	03/26/2024	13:07	LB130043
	Nickel	10.3	2.0	514	-38	42	03/26/2024	13:07	LB130043
	Potassium	-39.6			0	0	03/26/2024	13:07	LB130043
	Selenium	-17.1			-20	20	03/26/2024	13:07	LB130043
	Silver	26.6			-10	10	03/26/2024	13:07	LB130043
	Sodium	207			0	0	03/26/2024	13:07	LB130043
	Thallium	25.9			-40	40	03/26/2024	13:07	LB130043
	Vanadium	2.61			-40	40	03/26/2024	13:07	LB130043
	Zinc	19.1			-40	40	03/26/2024	13:07	LB130043
ICSAB	Aluminum	248000	247000	100	209000	285000	03/26/2024	13:12	LB130043
	Antimony	616	618	100	525	711	03/26/2024	13:12	LB130043
	Arsenic	65.8	104	63	88.4	120	03/26/2024	13:12	LB130043
	Barium	464	537	86	437	637	03/26/2024	13:12	LB130043
	Beryllium	494	495	100	420	570	03/26/2024	13:12	LB130043
	Cadmium	961	972	99	826	1120	03/26/2024	13:12	LB130043
	Calcium	255000	235000	108	199000	271000	03/26/2024	13:12	LB130043
	Chromium	515	542	95	460	624	03/26/2024	13:12	LB130043
	Cobalt	474	476	100	404	548	03/26/2024	13:12	LB130043
	Copper	524	511	102	434	588	03/26/2024	13:12	LB130043
	Iron	95900	99300	97	84400	114500	03/26/2024	13:12	LB130043
	Lead	43.3	49.0	88	37	61	03/26/2024	13:12	LB130043
	Magnesium	212000	248000	86	210000	286000	03/26/2024	13:12	LB130043
	Manganese	536	507	106	430	584	03/26/2024	13:12	LB130043
	Nickel	967	954	101	810	1100	03/26/2024	13:12	LB130043
	Potassium	98.6			0	0	03/26/2024	13:12	LB130043
	Selenium	49.4	46.0	107	26	66	03/26/2024	13:12	LB130043
	Silver	231	201	115	170	232	03/26/2024	13:12	LB130043
	Sodium	53.3			0	0	03/26/2024	13:12	LB130043
	Thallium	112	108	104	68	148	03/26/2024	13:12	LB130043
	Vanadium	485	491	99	417	565	03/26/2024	13:12	LB130043
	Zinc	1000	952	105	809	1095	03/26/2024	13:12	LB130043

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METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1714-04 **client id:** WATER-TREATMENT-DISCHARGEMS

Percent Solids for Sample: NA **Spiked ID:** P1714-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10900		9940		1000	92		P
Antimony	ug/L	75 - 125	426		25.0	U	400	106		P
Arsenic	ug/L	75 - 125	443		10.0	U	400	111		P
Barium	ug/L	75 - 125	103		50.0	U	100	103		P
Beryllium	ug/L	75 - 125	92.6		3.00	U	100	93		P
Cadmium	ug/L	75 - 125	107		3.00	U	100	107		P
Calcium	ug/L	75 - 125	6260		5880		500	77		P
Chromium	ug/L	75 - 125	280		80.1		200	100		P
Cobalt	ug/L	75 - 125	102		15.0	U	100	102		P
Copper	ug/L	75 - 125	150		9.17	J	150	94		P
Iron	ug/L	75 - 125	1840		144		1500	113		P
Lead	ug/L	75 - 125	511		6.00	U	500	102		P
Magnesium	ug/L	75 - 125	2030		1130		1000	90		P
Manganese	ug/L	75 - 125	106		5.93	J	100	100		P
Nickel	ug/L	75 - 125	287		30.0		250	103		P
Potassium	ug/L	75 - 125	81700	D	80600	D	5000	22		P
Selenium	ug/L	75 - 125	1160		10.0	U	1000	116		P
Silver	ug/L	75 - 125	44.1		5.00	U	37.5	118		P
Sodium	ug/L	75 - 125	802000	D	830000	D	1500	-1843		P
Thallium	ug/L	75 - 125	1020		20.0	U	1000	102		P
Vanadium	ug/L	75 - 125	151		20.0	U	150	101		P
Zinc	ug/L	75 - 125	184		74.8		100	109		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1714-04 **client id:** WATER-TREATMENT-DISCHARGEMSD

Percent Solids for Sample: NA **Spiked ID:** P1714-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10900		9940		1000	92		P
Antimony	ug/L	75 - 125	431		25.0	U	400	108		P
Arsenic	ug/L	75 - 125	451		10.0	U	400	113		P
Barium	ug/L	75 - 125	103		50.0	U	100	103		P
Beryllium	ug/L	75 - 125	91.3		3.00	U	100	91		P
Cadmium	ug/L	75 - 125	107		3.00	U	100	107		P
Calcium	ug/L	75 - 125	6250		5880		500	74		P
Chromium	ug/L	75 - 125	288		80.1		200	104		P
Cobalt	ug/L	75 - 125	102		15.0	U	100	102		P
Copper	ug/L	75 - 125	150		9.17	J	150	94		P
Iron	ug/L	75 - 125	1900		144		1500	117		P
Lead	ug/L	75 - 125	513		6.00	U	500	103		P
Magnesium	ug/L	75 - 125	2010		1130		1000	89		P
Manganese	ug/L	75 - 125	104		5.93	J	100	98		P
Nickel	ug/L	75 - 125	289		30.0		250	104		P
Potassium	ug/L	75 - 125	83300	D	80600	D	5000	54		P
Selenium	ug/L	75 - 125	1170		10.0	U	1000	117		P
Silver	ug/L	75 - 125	45.3		5.00	U	37.5	121		P
Sodium	ug/L	75 - 125	820000	D	830000	D	1500	-682		P
Thallium	ug/L	75 - 125	1030		20.0	U	1000	103		P
Vanadium	ug/L	75 - 125	152		20.0	U	150	101		P
Zinc	ug/L	75 - 125	190		74.8		100	115		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1747-03 **client id:** MW-01MS

Percent Solids for Sample: NA **Spiked ID:** P1747-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1250		201		1000	105		P
Antimony	ug/L	75 - 125	429		25.0	U	400	107		P
Arsenic	ug/L	75 - 125	432		10.0	U	400	108		P
Barium	ug/L	75 - 125	303		203		100	100		P
Beryllium	ug/L	75 - 125	101		0.22	J	100	101		P
Cadmium	ug/L	75 - 125	102		3.00	U	100	102		P
Calcium	ug/L	75 - 125	91700		91400		500	57		P
Chromium	ug/L	75 - 125	219		9.13		200	105		P
Cobalt	ug/L	75 - 125	100		15.0	U	100	100		P
Copper	ug/L	75 - 125	154		2.30	J	150	101		P
Iron	ug/L	75 - 125	15100		13500		1500	105		P
Lead	ug/L	75 - 125	520		6.00	U	500	104		P
Magnesium	ug/L	75 - 125	25300		24400		1000	84		P
Manganese	ug/L	75 - 125	824		730		100	94		P
Nickel	ug/L	75 - 125	269		17.6	J	250	101		P
Potassium	ug/L	75 - 125	11600		6160		5000	110		P
Selenium	ug/L	75 - 125	1040		10.0	U	1000	104		P
Silver	ug/L	75 - 125	40.9		5.00	U	37.5	109		P
Sodium	ug/L	75 - 125	58000		56700		1500	87		P
Thallium	ug/L	75 - 125	1070		20.0	U	1000	107		P
Vanadium	ug/L	75 - 125	156		20.0	U	150	104		P
Zinc	ug/L	75 - 125	134		25.7		100	109		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1747-03 **client id:** MW-01MSD

Percent Solids for Sample: NA **Spiked ID:** P1747-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1260		201		1000	106		P
Antimony	ug/L	75 - 125	428		25.0	U	400	107		P
Arsenic	ug/L	75 - 125	430		10.0	U	400	108		P
Barium	ug/L	75 - 125	302		203		100	99		P
Beryllium	ug/L	75 - 125	103		0.22	J	100	103		P
Cadmium	ug/L	75 - 125	102		3.00	U	100	102		P
Calcium	ug/L	75 - 125	91700		91400		500	56		P
Chromium	ug/L	75 - 125	218		9.13		200	104		P
Cobalt	ug/L	75 - 125	99.7		15.0	U	100	100		P
Copper	ug/L	75 - 125	153		2.30	J	150	100		P
Iron	ug/L	75 - 125	14700		13500		1500	82		P
Lead	ug/L	75 - 125	517		6.00	U	500	103		P
Magnesium	ug/L	75 - 125	25400		24400		1000	99		P
Manganese	ug/L	75 - 125	825		730		100	94		P
Nickel	ug/L	75 - 125	267		17.6	J	250	100		P
Potassium	ug/L	75 - 125	11400		6160		5000	105		P
Selenium	ug/L	75 - 125	1040		10.0	U	1000	104		P
Silver	ug/L	75 - 125	40.5		5.00	U	37.5	108		P
Sodium	ug/L	75 - 125	56800		56700		1500	10		P
Thallium	ug/L	75 - 125	1070		20.0	U	1000	107		P
Vanadium	ug/L	75 - 125	156		20.0	U	150	104		P
Zinc	ug/L	75 - 125	135		25.7		100	110		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1772-08 **client id:** 1346MS

Percent Solids for Sample: NA **Spiked ID:** P1772-08MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.86		0.32		4.0	89		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1772-08 **client id:** 1346MSD

Percent Solids for Sample: NA **Spiked ID:** P1772-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.72		0.32		4.0	85		CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1788-02 **client id:** PEZOMETER-206MS

Percent Solids for Sample: NA **Spiked ID:** P1788-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	6.51		2.20		4.0	108		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LiRo Engineers, Inc. **level:** low **sdg no.:** P1747

contract: LIRO01 **lab code:** CHEM **case no.:** P1747 **sas no.:** P1747

matrix: Water **sample id:** P1788-02 **client id:** PEZOMETER-206MSD

Percent Solids for Sample: NA **Spiked ID:** P1788-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	6.03		2.20		4.0	96		CV

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Metals
- 5b -

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1714-04 **Client ID:** WATER-TREATMENT-DISCHARGEDUP

Percent Solids for Sample: NA **Duplicate ID** P1714-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	9940		9940		0		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	5880		5830		1		P
Chromium	ug/L	20	80.1		79.6		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	9.17	J	9.19	J	0		P
Iron	ug/L	20	144		139		4		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	1130		1120		1		P
Manganese	ug/L	20	5.93	J	5.57	J	6		P
Nickel	ug/L	20	30.0		30.0		0		P
Potassium	ug/L	20	80600	D	79600	D	1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	830000	D	818000	D	1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	74.8		72.3		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1714-04MS **Client ID:** WATER-TREATMENT-DISCHARGEMSD

Percent Solids for Sample: NA **Duplicate ID** P1714-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	10900		10900		0		P
Antimony	ug/L	20	426		431		1		P
Arsenic	ug/L	20	443		451		2		P
Barium	ug/L	20	103		103		0		P
Beryllium	ug/L	20	92.6		91.3		1		P
Cadmium	ug/L	20	107		107		0		P
Calcium	ug/L	20	6260		6250		0		P
Chromium	ug/L	20	280		288		3		P
Cobalt	ug/L	20	102		102		0		P
Copper	ug/L	20	150		150		0		P
Iron	ug/L	20	1840		1900		3		P
Lead	ug/L	20	511		513		0		P
Magnesium	ug/L	20	2030		2010		1		P
Manganese	ug/L	20	106		104		2		P
Nickel	ug/L	20	287		289		1		P
Potassium	ug/L	20	81700	D	83300	D	2		P
Selenium	ug/L	20	1160		1170		1		P
Silver	ug/L	20	44.1		45.3		3		P
Sodium	ug/L	20	802000	D	820000	D	2		P
Thallium	ug/L	20	1020		1030		1		P
Vanadium	ug/L	20	151		152		1		P
Zinc	ug/L	20	184		190		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1747-03 **Client ID:** MW-01DUP

Percent Solids for Sample: NA **Duplicate ID** P1747-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	201		207		3		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	203		204		0		P
Beryllium	ug/L	20	0.22	J	0.24	J	8		P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	91400		92200		1		P
Chromium	ug/L	20	9.13		9.25		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	2.30	J	2.15	J	7		P
Iron	ug/L	20	13500		13400		1		P
Lead	ug/L	20	6.00	U	1.71	J	200.0		P
Magnesium	ug/L	20	24400		24700		1		P
Manganese	ug/L	20	730		734		1		P
Nickel	ug/L	20	17.6	J	17.5	J	1		P
Potassium	ug/L	20	6160		6170		0		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	56700		56400		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	25.7		25.6		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1747-03MS **Client ID:** MW-01MSD

Percent Solids for Sample: NA **Duplicate ID** P1747-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1250		1260		1		P
Antimony	ug/L	20	429		428		0		P
Arsenic	ug/L	20	432		430		0		P
Barium	ug/L	20	303		302		0		P
Beryllium	ug/L	20	101		103		2		P
Cadmium	ug/L	20	102		102		0		P
Calcium	ug/L	20	91700		91700		0		P
Chromium	ug/L	20	219		218		0		P
Cobalt	ug/L	20	100		99.7		0		P
Copper	ug/L	20	154		153		1		P
Iron	ug/L	20	15100		14700		3		P
Lead	ug/L	20	520		517		1		P
Magnesium	ug/L	20	25300		25400		0		P
Manganese	ug/L	20	824		825		0		P
Nickel	ug/L	20	269		267		1		P
Potassium	ug/L	20	11600		11400		2		P
Selenium	ug/L	20	1040		1040		0		P
Silver	ug/L	20	40.9		40.5		1		P
Sodium	ug/L	20	58000		56800		2		P
Thallium	ug/L	20	1070		1070		0		P
Vanadium	ug/L	20	156		156		0		P
Zinc	ug/L	20	134		135		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1772-08 **Client ID:** 1346DUP

Percent Solids for Sample: NA **Duplicate ID** P1772-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.32		0.36		14		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1772-08MS **Client ID:** 1346MSD

Percent Solids for Sample: NA **Duplicate ID** P1772-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.86		3.72		4		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1788-02 **Client ID:** PEZOMETER-206DUP

Percent Solids for Sample: NA **Duplicate ID** P1788-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.20		2.17		1		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Matrix: Water **Sample ID:** P1788-02MS **Client ID:** PEZOMETER-206MSD

Percent Solids for Sample: NA **Duplicate ID** P1788-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	6.51		6.03		8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB159517BS							
Aluminum	ug/L	1000	978		98	85 - 115	P
Antimony	ug/L	400	401		100	85 - 115	P
Arsenic	ug/L	400	406		102	85 - 115	P
Barium	ug/L	100	100		100	85 - 115	P
Beryllium	ug/L	100	99.0		99	85 - 115	P
Cadmium	ug/L	100	95.2		95	85 - 115	P
Calcium	ug/L	500	506	J	101	85 - 115	P
Chromium	ug/L	200	197		98	85 - 115	P
Cobalt	ug/L	100	93.8		94	85 - 115	P
Copper	ug/L	150	153		102	85 - 115	P
Iron	ug/L	1500	1400		93	85 - 115	P
Lead	ug/L	500	489		98	85 - 115	P
Magnesium	ug/L	1000	968	J	97	85 - 115	P
Manganese	ug/L	100	102		102	85 - 115	P
Nickel	ug/L	250	237		95	85 - 115	P
Potassium	ug/L	5000	4590		92	85 - 115	P
Selenium	ug/L	1000	1000		100	85 - 115	P
Silver	ug/L	37.5	35.2		94	85 - 115	P
Sodium	ug/L	1500	1400		93	85 - 115	P
Thallium	ug/L	1000	992		99	85 - 115	P
Vanadium	ug/L	150	149		99	85 - 115	P
Zinc	ug/L	100	103		103	85 - 115	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB159541BS							
Aluminum	ug/L	1000	971		97	80 - 120	P
Antimony	ug/L	400	396		99	80 - 120	P
Arsenic	ug/L	400	396		99	80 - 120	P
Barium	ug/L	100	106		106	80 - 120	P
Beryllium	ug/L	100	98.1		98	80 - 120	P
Cadmium	ug/L	100	90.0		90	80 - 120	P
Calcium	ug/L	500	582	J	116	80 - 120	P
Chromium	ug/L	200	181		90	80 - 120	P
Cobalt	ug/L	100	88.6		89	80 - 120	P
Copper	ug/L	150	149		99	80 - 120	P
Iron	ug/L	1500	1410		94	80 - 120	P
Lead	ug/L	500	466		93	80 - 120	P
Magnesium	ug/L	1000	974	J	97	80 - 120	P
Manganese	ug/L	100	108		108	80 - 120	P
Nickel	ug/L	250	232		93	80 - 120	P
Potassium	ug/L	5000	4610		92	80 - 120	P
Selenium	ug/L	1000	977		98	80 - 120	P
Silver	ug/L	37.5	36.2		96	80 - 120	P
Sodium	ug/L	1500	1360		91	80 - 120	P
Thallium	ug/L	1000	962		96	80 - 120	P
Vanadium	ug/L	150	148		99	80 - 120	P
Zinc	ug/L	100	102		102	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB159659BS							
Mercury	ug/L	4.0	3.63		91	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB159691BS							
Mercury	ug/L	4.0	3.50		88	85 - 115	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

WATER-TREATMENT-DISCHARGEL

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb129987 **Lab Sample ID :** P1714-04L **SDG No.:** P1747

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	9940		9770		2		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	5880		5830		1		P
Chromium	80.1		78.0		3		P
Cobalt	15.0	U	75.0	U			P
Copper	9.17	J	50.0	U	100.0		P
Iron	144		110	J	23		P
Lead	6.00	U	30.0	U			P
Magnesium	1130		1080	J	4		P
Manganese	5.93	J	50.0	U	100.0		P
Nickel	30.0		28.2	J	6		P
Potassium	103000	OR	89000		14		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	830000	D	786000	D	5		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	74.8		67.9	J	9		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.
MW-01L

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb129987 **Lab Sample ID :** P1747-03L **SDG No.:** P1747

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	201		195	J	3		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	203		193	J	5		P
Beryllium	0.22	J	15.0	U	100.0		P
Cadmium	3.00	U	15.0	U			P
Calcium	91400		87800		4		P
Chromium	9.13		7.73	J	15		P
Cobalt	15.0	U	75.0	U			P
Copper	2.30	J	50.0	U	100.0		P
Iron	13500		12400		8		P
Lead	6.00	U	30.0	U			P
Magnesium	24400		23400		4		P
Manganese	730		709		3		P
Nickel	17.6	J	16.8	J	4		P
Potassium	6160		5440		12		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	56700		49800		12		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	25.7		27.1	J	5		P

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-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.
1346L

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb129940 **Lab Sample ID :** P1772-08L **SDG No.:** P1747

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.32		1.00	U	100.0		CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

PEZOMETER-206L

Lab Name: Chemtech Consulting Group **Contract:** LIRO01

Lab Code: CHEM **Lb No.:** lb129958 **Lab Sample ID :** P1788-02L **SDG No.:** P1747

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	2.20		2.21		0		CV

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METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: P1747 **SAS No.:** P1747

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB159517**						
P1747-03	MW-01	SAM	WATER	03/14/2024	50.0	25.0	
P1747-03DUP	MW-01DUP	DUP	WATER	03/14/2024	50.0	25.0	
P1747-03MS	MW-01MS	MS	WATER	03/14/2024	50.0	25.0	
P1747-03MSD	MW-01MSD	MSD	WATER	03/14/2024	50.0	25.0	
PB159517BL	PB159517BL	MB	WATER	03/14/2024	50.0	25.0	
PB159517BS	PB159517BS	LCS	WATER	03/14/2024	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: P1747 **SAS No.:** P1747

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB159541**						
P1714-04DUP	WATER-TREATMENT-DISCHARGEDUP	DUP	WATER	03/14/2024	50.0	25.0	
P1714-04MS	WATER-TREATMENT-DISCHARGEMS	MS	WATER	03/14/2024	50.0	25.0	
P1714-04MSD	WATER-TREATMENT-DISCHARGEMSD	MSD	WATER	03/14/2024	50.0	25.0	
P1747-01	MW-01	SAM	WATER	03/14/2024	50.0	25.0	
P1747-02	MW-01-DUP	SAM	WATER	03/14/2024	50.0	25.0	
P1747-04	MW-02	SAM	WATER	03/14/2024	50.0	25.0	
P1747-05	TWP-04	SAM	WATER	03/14/2024	50.0	25.0	
P1747-07	MW-01	SAM	WATER	03/14/2024	50.0	25.0	
P1747-08	MW-01-DUP	SAM	WATER	03/14/2024	50.0	25.0	
P1747-09	MW-02	SAM	WATER	03/14/2024	50.0	25.0	
P1747-10	TWP-04	SAM	WATER	03/14/2024	50.0	25.0	
PB159541BL	PB159541BL	MB	WATER	03/14/2024	50.0	25.0	
PB159541BS	PB159541BS	LCS	WATER	03/14/2024	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: P1747 **SAS No.:** P1747

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB159659**						
P1747-01	MW-01	SAM	WATER	03/15/2024	30.0	30.0	
P1747-02	MW-01-DUP	SAM	WATER	03/15/2024	30.0	30.0	
P1747-04	MW-02	SAM	WATER	03/15/2024	30.0	30.0	
P1747-05	TWP-04	SAM	WATER	03/15/2024	30.0	30.0	
P1747-07	MW-01	SAM	WATER	03/15/2024	30.0	30.0	
P1747-08	MW-01-DUP	SAM	WATER	03/15/2024	30.0	30.0	
P1747-09	MW-02	SAM	WATER	03/15/2024	30.0	30.0	
P1747-10	TWP-04	SAM	WATER	03/15/2024	30.0	30.0	
P1772-08DUP	1346DUP	DUP	WATER	03/15/2024	30.0	30.0	
P1772-08MS	1346MS	MS	WATER	03/15/2024	30.0	30.0	
P1772-08MSD	1346MSD	MSD	WATER	03/15/2024	30.0	30.0	
PB159659BL	PB159659BL	MB	WATER	03/15/2024	30.0	30.0	
PB159659BS	PB159659BS	LCS	WATER	03/15/2024	30.0	30.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LiRo Engineers, Inc. **SDG No.:** P1747

Contract: LIRO01 **Lab Code:** CHEM **Method:**

Case No.: P1747 **SAS No.:** P1747

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB159691**						
P1747-03	MW-01	SAM	WATER	03/20/2024	30.0	30.0	
P1788-02DUP	PEZOMETER-206DUP	DUP	WATER	03/20/2024	30.0	30.0	
P1788-02MS	PEZOMETER-206MS	MS	WATER	03/20/2024	30.0	30.0	
P1788-02MSD	PEZOMETER-206MSD	MSD	WATER	03/20/2024	30.0	30.0	
PB159691BL	PB159691BL	MB	WATER	03/20/2024	30.0	30.0	
PB159691BS	PB159691BS	LCS	WATER	03/20/2024	30.0	30.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129894

Start date: 03/14/2024 **End date:** 03/14/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1206	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1211	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1246	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1251	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1256	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1313	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB159541BL	PB159541BL	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB159541BS	PB159541BS	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1532	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1645	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129934

Start date: 03/18/2024 **End date:** 03/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1653	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1658	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1702	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1706	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1711	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1715	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1748	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1829	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1834	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1838	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB159517BL	PB159517BL	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB159517BS	PB159517BS	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1948	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1952	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	2109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	2113	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-01	MW-01	1	2151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-02	MW-01-DUP	1	2155	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-04	MW-02	1	2200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-05	TWP-04	1	2204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2227	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-07	MW-01	1	2236	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-08	MW-01-DUP	1	2240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-09	MW-02	1	2244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-10	TWP-04	1	2249	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	0042	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	0051	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	0153	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	0157	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129940

Start date: 03/19/2024 **End date:** 03/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1217	HG
S0.2	S0.2	1	1220	HG
S2.5	S2.5	1	1222	HG
S5	S5	1	1224	HG
S7.5	S7.5	1	1226	HG
S10	S10	1	1231	HG
ICV53	ICV53	1	1237	HG
ICB53	ICB53	1	1239	HG
CCV81	CCV81	1	1242	HG
CCB81	CCB81	1	1244	HG
CRA	CRA	1	1246	HG
CCV82	CCV82	1	1312	HG
CCB82	CCB82	1	1314	HG
PB159659BL	PB159659BL	1	1337	HG
PB159659BS	PB159659BS	1	1339	HG
CCV83	CCV83	1	1342	HG
CCB83	CCB83	1	1344	HG
P1747-01	MW-01	1	1346	HG
P1747-02	MW-01-DUP	1	1348	HG
P1747-04	MW-02	1	1351	HG
P1747-05	TWP-04	1	1353	HG
P1747-07	MW-01	1	1355	HG
P1747-08	MW-01-DUP	1	1358	HG
P1747-09	MW-02	1	1400	HG
P1747-10	TWP-04	1	1402	HG
CCV84	CCV84	1	1409	HG
CCB84	CCB84	1	1411	HG
P1772-08DUP	1346DUP	1	1427	HG
P1772-08MS	1346MS	1	1432	HG
P1772-08MSD	1346MSD	1	1435	HG
CCV85	CCV85	1	1440	HG
CCB85	CCB85	1	1442	HG
P1772-08L	1346L	5	1452	HG
CCV86	CCV86	1	1457	HG
CCB86	CCB86	1	1459	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129958

Start date: 03/20/2024 **End date:** 03/20/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1355	HG
S0.05	S0.05	1	1358	HG
S0.2	S0.2	1	1400	HG
S2.5	S2.5	1	1404	HG
S5	S5	1	1406	HG
S7.5	S7.5	1	1409	HG
S10	S10	1	1416	HG
ICV55	ICV55	1	1424	HG
ICB55	ICB55	1	1426	HG
CCV89	CCV89	1	1433	HG
CCB89	CCB89	1	1435	HG
CRA	CRA	1	1439	HG
PB159691BL	PB159691BL	1	1452	HG
PB159691BS	PB159691BS	1	1459	HG
P1747-03	MW-01	1	1519	HG
CCV90	CCV90	1	1524	HG
CCB90	CCB90	1	1526	HG
P1788-02DUP	PEZOMETER-206DUP	1	1531	HG
P1788-02MS	PEZOMETER-206MS	1	1535	HG
P1788-02MSD	PEZOMETER-206MSD	1	1537	HG
P1788-02L	PEZOMETER-206L	5	1540	HG
CCV91	CCV91	1	1547	HG
CCB91	CCB91	1	1550	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129987

Start date: 03/21/2024 **End date:** 03/22/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1101	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1105	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1115	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1119	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1207	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1234	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-03	MW-01	1	1343	Cd,Cu,Ni,Pb,Zn
P1747-03DUP	MW-01DUP	1	1348	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-03L	MW-01L	5	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-03MS	MW-01MS	1	1356	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1747-03MSD	MW-01MSD	1	1400	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1714-04DUP	WATER-TREATMENT-DISCH/	1	1413	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P1714-04L	WATER-TREATMENT-DISCH/	5	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1427	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1714-04MSD	WATER-TREATMENT-DISCH/	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1523	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1528	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1714-04MS	WATER-TREATMENT-DISCH/	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1629	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1752	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1757	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1856	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1901	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2003	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2007	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2103	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2202	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB129987

Start date: 03/21/2024 **End date:** 03/22/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV11	CCV11	1	2251	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	2343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	2351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV13	CCV13	1	0037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB13	CCB13	1	0041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: LiRo Engineers, Inc. **Contract:** LIRO01

Lab code: CHEM **Case no.:** P1747 **Sas no.:** P1747 **Sdg no.:** P1747

Instrument id number: **Method:** **Run number:** LB130043

Start date: 03/26/2024 **End date:** 03/26/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1029	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1033	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1038	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1042	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1046	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1051	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1114	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1118	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1256	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1307	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1507	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1526	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1636	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1640	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1812	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P1714-04DUP	WATER-TREATMENT-DISCH/	10	1825	K,Na
P1714-04L	WATER-TREATMENT-DISCH/	50	1830	Na
P1714-04MS	WATER-TREATMENT-DISCH/	10	1834	K,Na
P1714-04MSD	WATER-TREATMENT-DISCH/	10	1839	K,Na
CCV06	CCV06	1	1848	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1852	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

CHEMTECH

METAL
RAW DATA

Reviewed By:mohan
On:3/19/2024 3:35:54 AM
Inst Id :P4
LB :LB129894

Sample Name: S0 Acquired: 3/14/2024 12:06:37 Type: Cal
Method: NON EPA-6010-200.7(v2198) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**.00029**	**-.00011**	**.00022**	**.00013**	**.00204**	**.03764**	**.00115**
Stddev	.00004	.00009	.00005	.00009	.00006	.00039	.00158	.00013
%RSD	43.593	31.997	43.125	41.947	45.218	19.265	4.1902	11.286
#1	-.00015	.00037	-.00006	.00030	.00010	.00233	.03763	.00120
#2	-.00007	.00030	-.00015	.00012	.00020	.00220	.03922	.00126
#3	-.00008	.00019	-.00011	.00024	.00010	.00159	.03607	.00101

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00021**	**.00085**	**-.00000**	**.00002**	**-.00034**	**.00001**	**-.00005**	**-.00002**
Stddev	.00032	.00062	.00002	.00016	.00033	.00004	.00019	.00013
%RSD	152.52	72.227	413.79	652.23	99.059	391.94	417.72	574.00
#1	.00012	.00157	-.00002	.00020	-.00047	-.00002	.00002	.00005
#2	-.00024	.00047	-.00000	-.00004	.00004	-.00000	.00010	-.00017
#3	-.00051	.00053	.00001	-.00009	-.00059	.00005	-.00026	.00005

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00030**	**-.00045**	**.00042**	**.00003**	**.00258**	**-.00017**	**.00161**	**-.00005**
Stddev	.00019	.00004	.00002	.00035	.00018	.00006	.00035	.00006
%RSD	62.830	8.2848	5.8577	1025.9	6.7744	33.231	21.813	123.08
#1	-.00010	-.00047	.00041	.00043	.00277	-.00023	.00123	-.00003
#2	-.00047	-.00046	.00045	-.00025	.00257	-.00012	.00193	-.00000
#3	-.00033	-.00040	.00041	-.00008	.00242	-.00016	.00168	-.00013

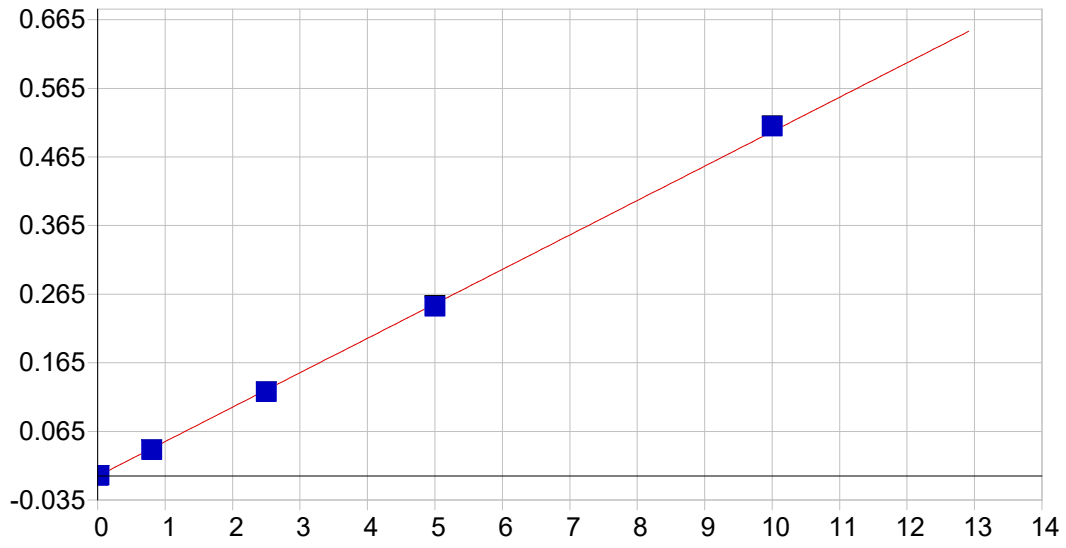
Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00111**	**.01068**	**.00008**	**-.00113**	**.00036**	**-.00211**	**-.00146**
Stddev	.00010	.00022	.00002	.00003	.00004	.00227	.00110
%RSD	8.9936	2.0919	27.383	3.0825	10.117	107.79	75.264
#1	.00121	.01047	.00010	-.00109	.00036	-.00429	-.00233
#2	.00101	.01065	.00007	-.00113	.00033	-.00229	-.00181
#3	.00109	.01091	.00006	-.00116	.00040	.00025	-.00023

Reviewed By:mohan
On:3/19/2024 3:35:54 AM
Inst Id :P4
LB :LB129894

Sample Name: S0 Acquired: 3/14/2024 12:06:37 Type: Cal
Method: NON EPA-6010-200.7(v2198) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3796.4	79685.	8723.3	3327.3	4354.4
Stddev	7.4	284.	35.6	10.5	9.0
%RSD	.19377	.35657	.40771	.31422	.20587
#1	3793.1	79754.	8708.8	3329.0	4350.2
#2	3804.8	79928.	8763.9	3336.9	4364.7
#3	3791.2	79372.	8697.3	3316.2	4348.4

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



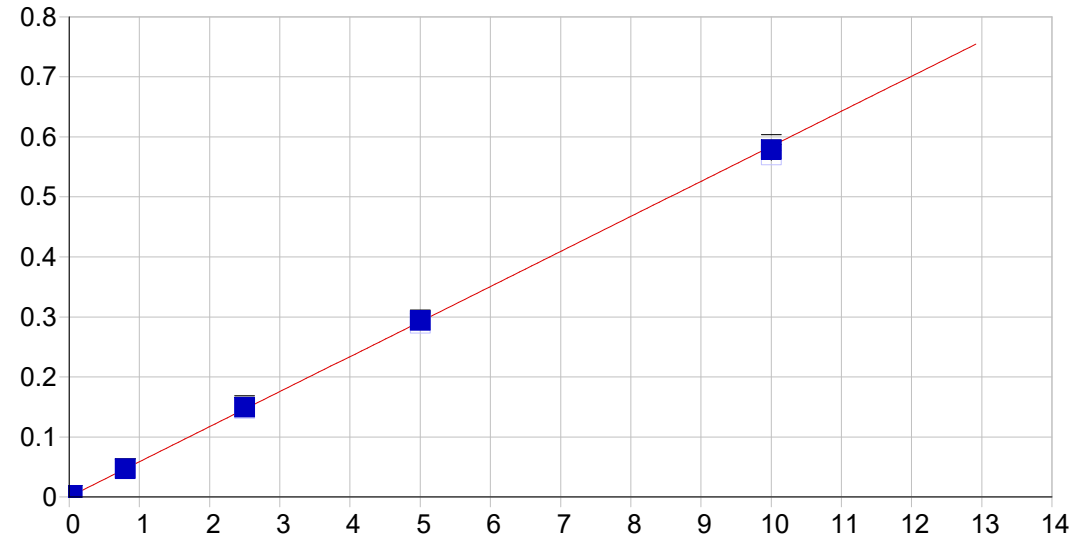
As 189.042 {479}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000142	Re-Slope:	1.000000
A1 (Gain):	0.050198	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999843	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001944		
Predicted MQL:	0.006481		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00014	.000	1
S1	.02000	.02050	.001	2.52	.00089	.000	1
S3	2.5000	2.4496	-.050	-2.02	.12281	.000	1
S4	5.0000	4.9260	-.074	-1.48	.24710	.002	1
S5	10.000	10.155	.155	1.55	.50957	.001	1
S2	.80000	.76857	-.031	-3.93	.03843	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



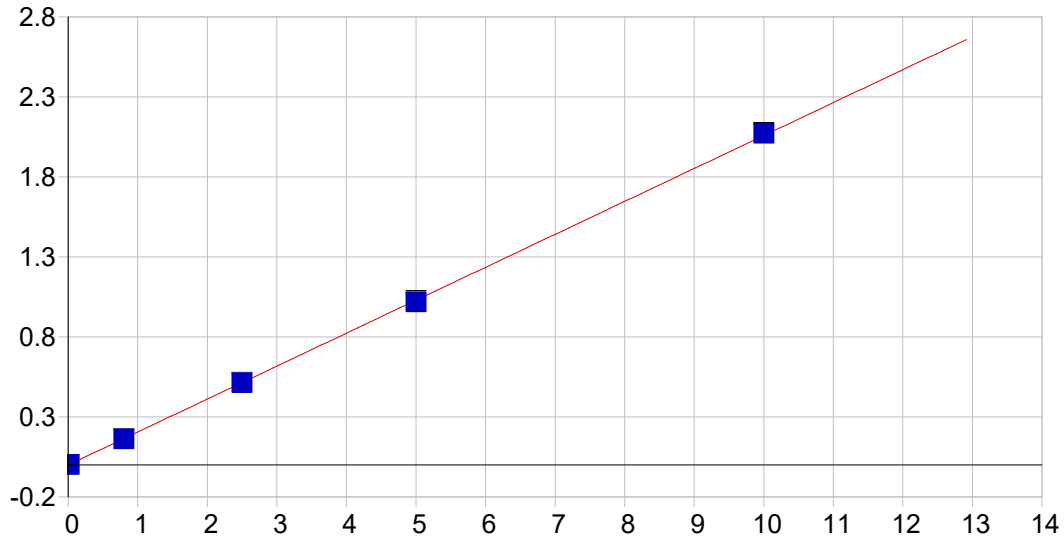
Tl 190.856 {477}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000211	Re-Slope:	1.000000
A1 (Gain):	0.058406	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.001842		
Predicted MQL:	0.006142		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00021	.000	1
S1	.04000	.04261	.003	6.52	.00256	.000	1
S3	2.5000	2.5577	.058	2.31	.14724	.002	1
S4	5.0000	5.0294	.029	.589	.28924	.001	1
S5	10.000	9.9082	-.092	-.918	.56946	.008	1
S2	.80000	.80219	.002	.274	.04631	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



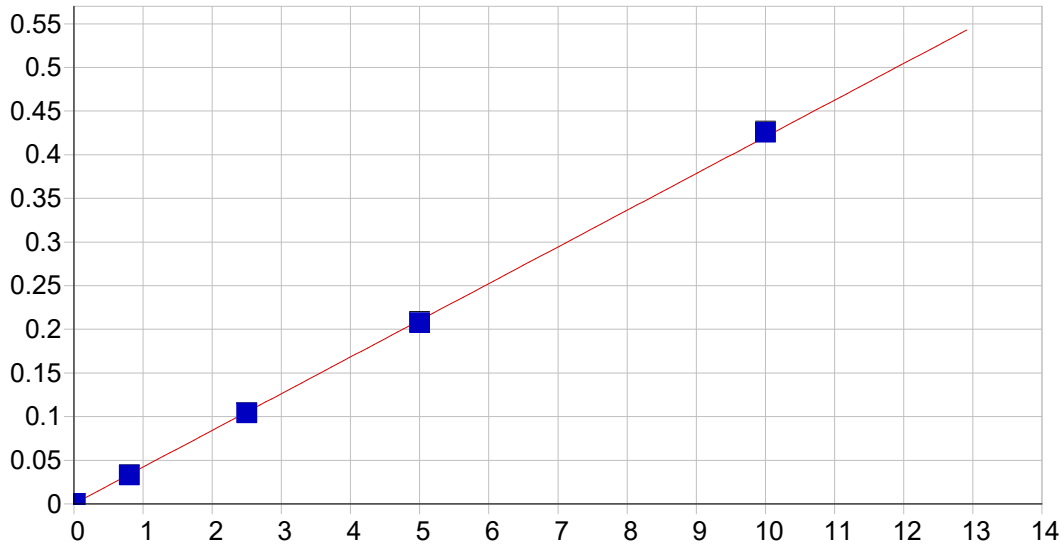
Pb 220.353 {453}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000252	Re-Slope:	1.000000
A1 (Gain):	0.205865	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.001171		
Predicted MQL:	0.003904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00025	.000	1
S1	.01200	.01190	-.000	-.843	.00217	.000	1
S3	2.5000	2.4977	-.002	-.094	.51382	.001	1
S4	5.0000	4.9449	-.055	-1.10	1.0175	.008	1
S5	10.000	10.067	.067	.669	2.0718	.005	1
S2	.80000	.79061	-.009	-1.17	.16247	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



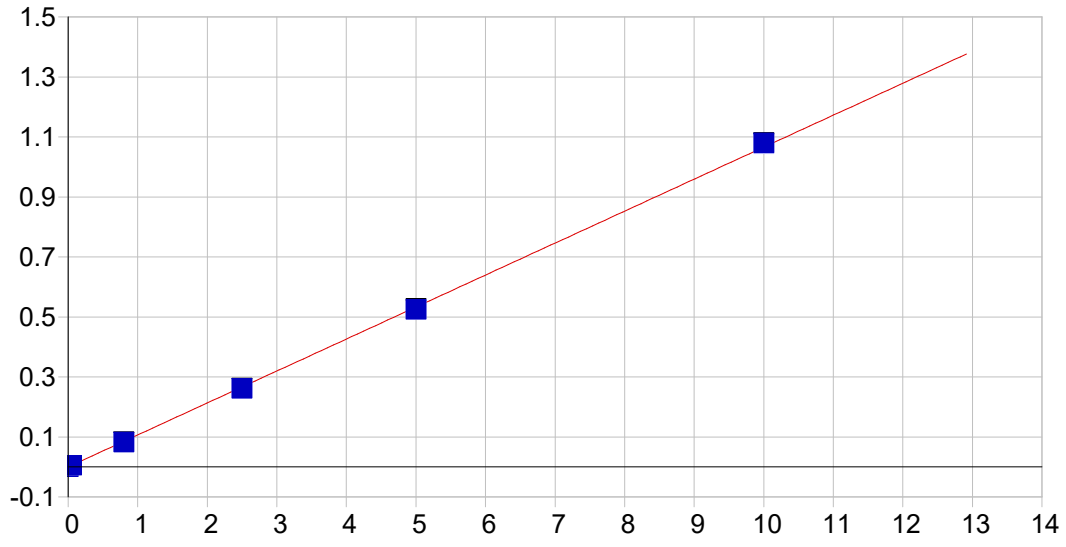
Se 196.090 {472}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000218	Re-Slope:	1.000000
A1 (Gain):	0.042025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.002913		
Predicted MQL:	0.009710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00022	.000	1
S1	.02000	.01797	-.002	-10.2	.00097	.000	1
S3	2.5000	2.4696	-.030	-1.22	.10406	.000	1
S4	5.0000	4.9292	-.071	-1.42	.20748	.001	1
S5	10.000	10.124	.124	1.24	.42589	.001	1
S2	.80000	.77938	-.021	-2.58	.03299	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



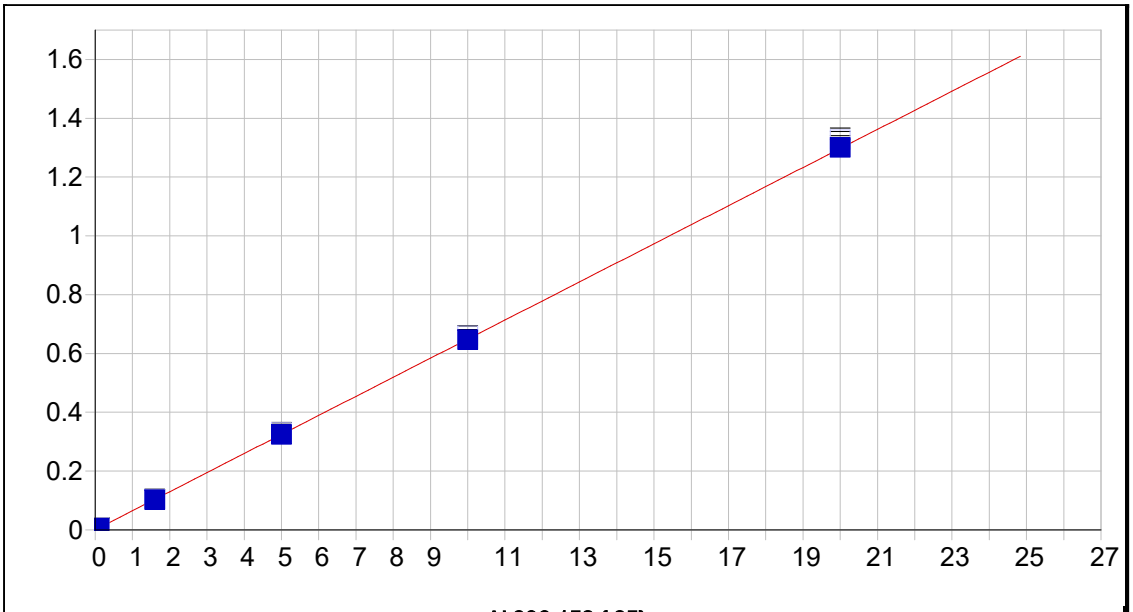
Sb 206.833 {463}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.106579	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999885	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.001295		
Predicted MQL:	0.004318		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.05000	.05155	.002	3.10	.00548	.000	1
S3	2.5000	2.4583	-.042	-1.67	.26123	.000	1
S4	5.0000	4.9283	-.072	-1.43	.52372	.003	1
S5	10.000	10.134	.134	1.34	1.0770	.000	1
S2	.80000	.77778	-.022	-2.78	.08265	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



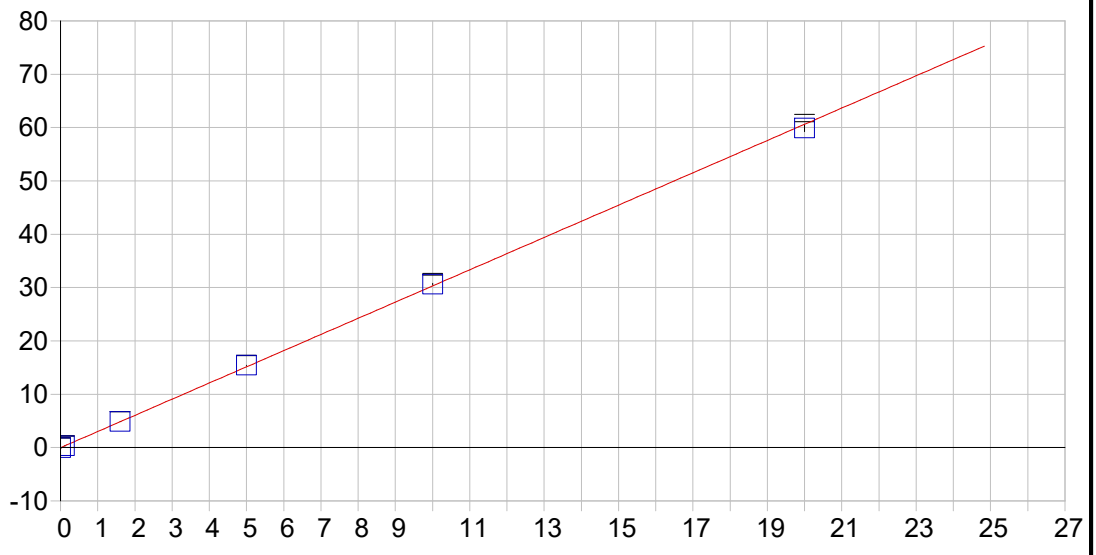
Al 396.152 { 85}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000333	Re-Slope:	1.000000
A1 (Gain):	0.064851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.004877		
Predicted MQL:	0.016258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.10000	.09959	-.000	-.414	.00729	.000	1
S3	5.0000	4.9979	-.002	-.042	.33097	.000	1
S4	10.000	9.9700	-.030	-.300	.65994	.001	1
S5	20.000	20.058	.058	.290	1.3272	.006	1
S2	1.6000	1.5746	-.025	-1.59	.10453	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



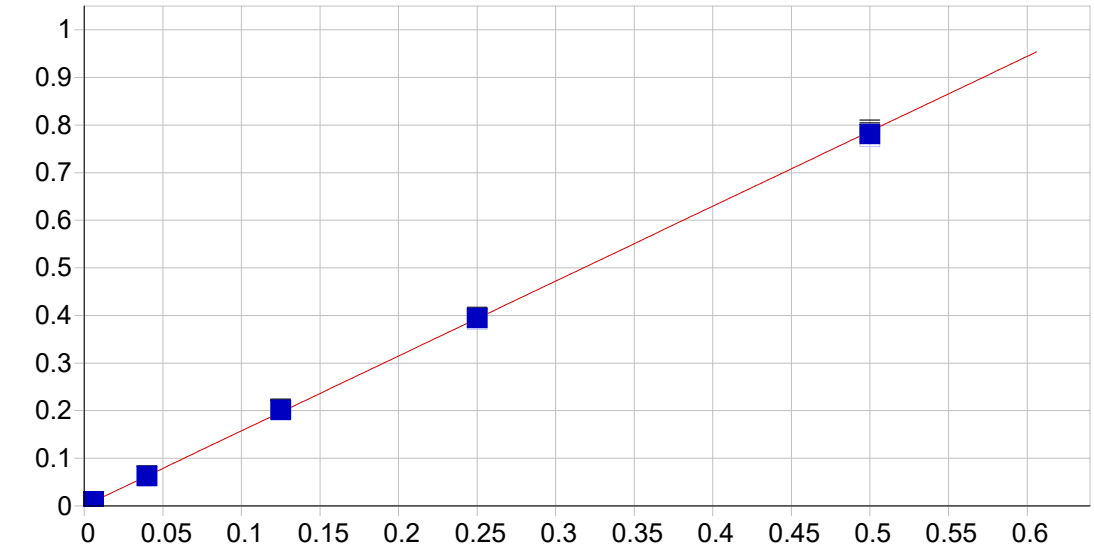
Ba 493.409 { 68}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.016916	Re-Slope:	1.000000
A1 (Gain):	3.031787	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.002925		
Predicted MDL:	0.000289		
Predicted MQL:	0.000962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.01694	.001	1
S1	.10000	.10482	.005	4.82	.30089	.000	1
S3	5.0000	5.0920	.092	1.84	15.421	.024	1
S4	10.000	10.114	.114	1.14	30.645	.161	1
S5	20.000	19.768	-.232	-1.16	59.915	.700	1
S2	1.6000	1.6218	.022	1.36	4.9000	.008	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



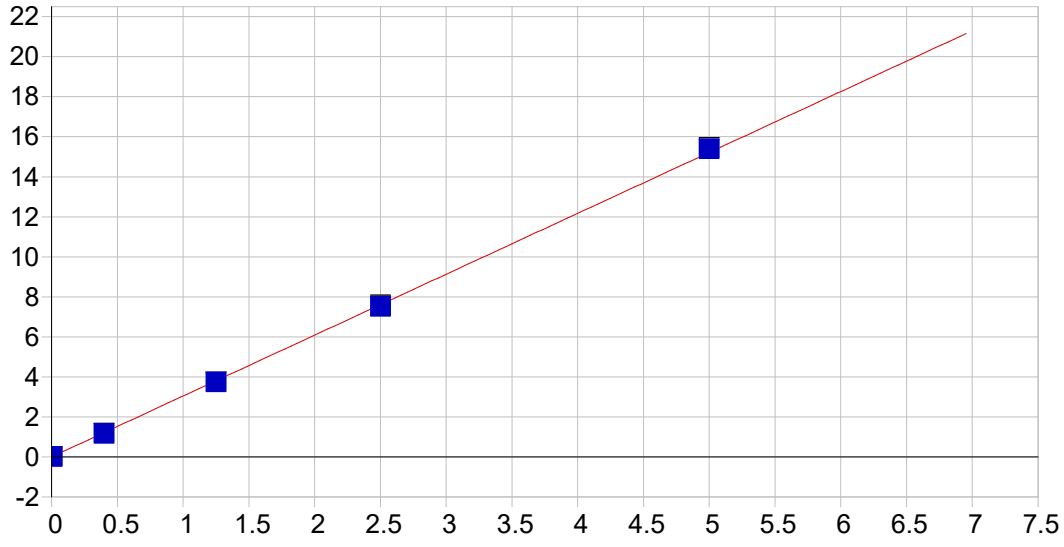
Be 234.861 {144}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000165	Re-Slope:	1.000000
A1 (Gain):	1.573561	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.000069		
Predicted MQL:	0.000231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.00600	.00628	.000	4.66	.00994	.000	1
S3	.12500	.12826	.003	2.61	.20052	.001	1
S4	.25000	.25048	.000	.194	.39136	.003	1
S5	.50000	.49614	-.004	-.772	.77496	.009	1
S2	.04000	.03983	-.000	-.421	.06237	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



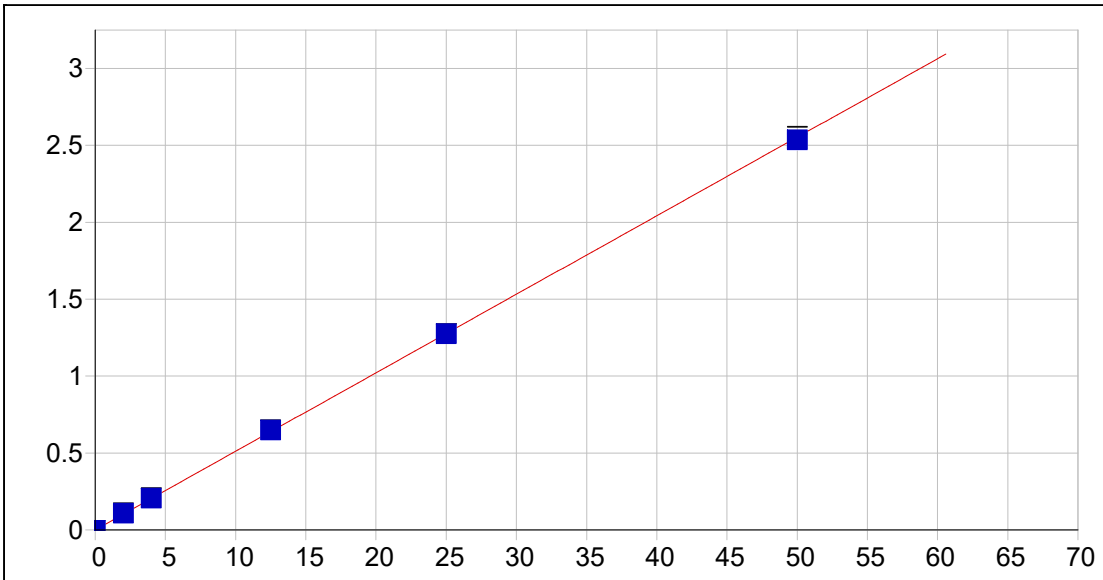
Cd 226.502 {449}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000235	Re-Slope:	1.000000
A1 (Gain):	3.042823	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.000394		
Predicted MDL:	0.000069		
Predicted MQL:	0.000229		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00023	.000	1
S1	.00600	.00632	.000	5.31	.01909	.000	1
S3	1.2500	1.2310	-.019	-1.52	3.7494	.005	1
S4	2.5000	2.4721	-.028	-1.12	7.5295	.059	1
S5	5.0000	5.0608	.061	1.22	15.414	.044	1
S2	.40000	.38576	-.014	-3.56	1.1748	.003	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



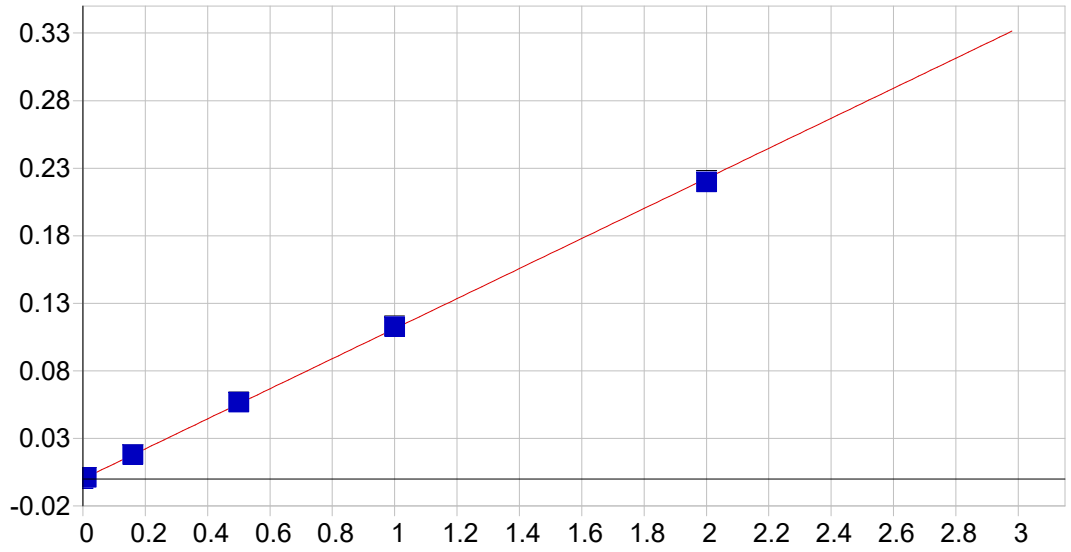
Ca 373.690 { 90}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000553	Re-Slope:	1.000000
A1 (Gain):	0.051053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000313		
Predicted MDL:	0.005810		
Predicted MQL:	0.019368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00055	.000	1
S2	4.0000	4.0440	.044	1.10	.20670	.001	1
S3	12.500	12.698	.198	1.58	.64782	.001	1
S4	25.000	24.962	-.038	-.153	1.2730	.002	1
S5	50.000	49.680	-.320	-.640	2.5330	.023	1
S1	2.0000	2.1166	.117	5.83	.10857	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



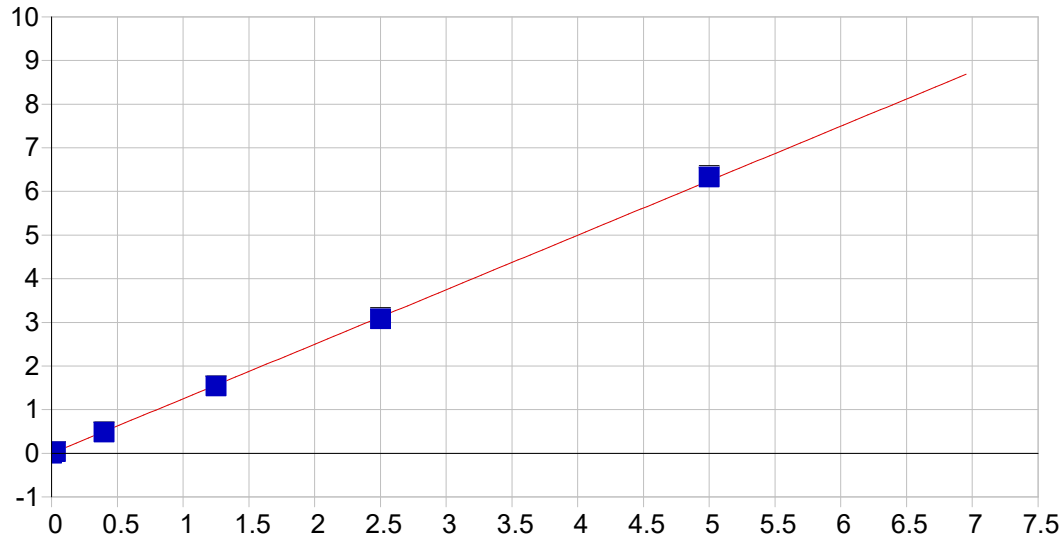
Cr 267.716 {126}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.111219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.000272		
Predicted MQL:	0.000906		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01000	.01019	.000	1.94	.00113	.000	1
S3	.50000	.50979	.010	1.96	.05675	.000	1
S4	1.0000	1.0132	.013	1.32	.11279	.000	1
S5	2.0000	1.9754	-.025	-1.23	.21992	.001	1
S2	.16000	.16142	.001	.888	.01796	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



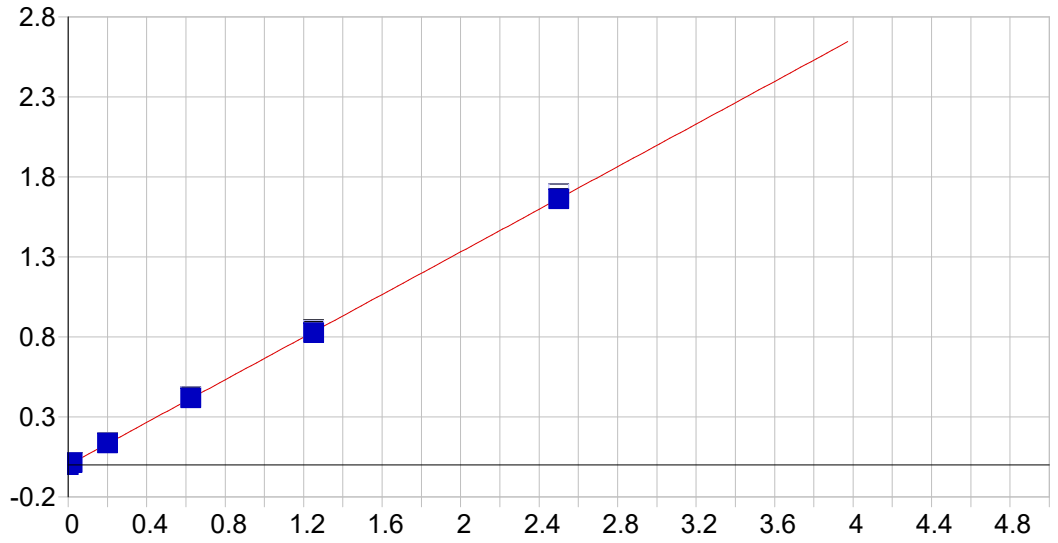
Co 228.616 {448}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000049	Re-Slope:	1.000000
A1 (Gain):	1.249203	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000379		
Predicted MDL:	0.000153		
Predicted MQL:	0.000511		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00005	.000	1
S1	.03000	.02968	-.000	-1.05	.03693	.000	1
S3	1.2500	1.2336	-.016	-1.31	1.5443	.003	1
S4	2.5000	2.4616	-.038	-1.54	3.0818	.025	1
S5	5.0000	5.0669	.067	1.34	6.3432	.016	1
S2	.40000	.38823	-.012	-2.94	.48602	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



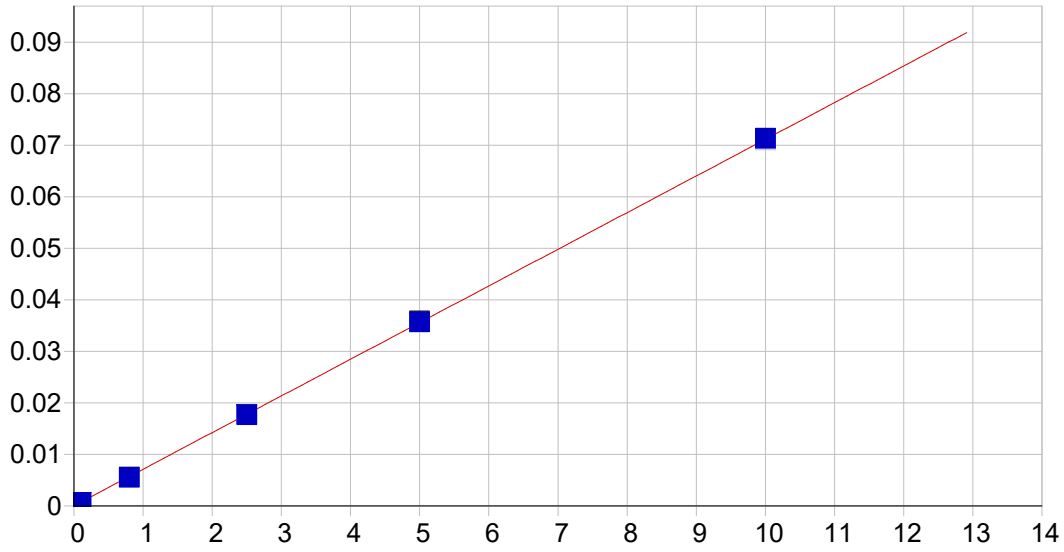
Cu 224.700 {450}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000580	Re-Slope:	1.000000
A1 (Gain):	0.665862	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000307		
Predicted MQL:	0.001023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00058	.000	1
S1	.02000	.02262	.003	13.1	.01471	.000	1
S3	.62500	.62916	.004	.665	.42600	.001	1
S4	1.2500	1.2416	-.008	-.669	.84148	.005	1
S5	2.5000	2.4980	-.002	-.082	1.6933	.002	1
S2	.20000	.20362	.004	1.81	.13745	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



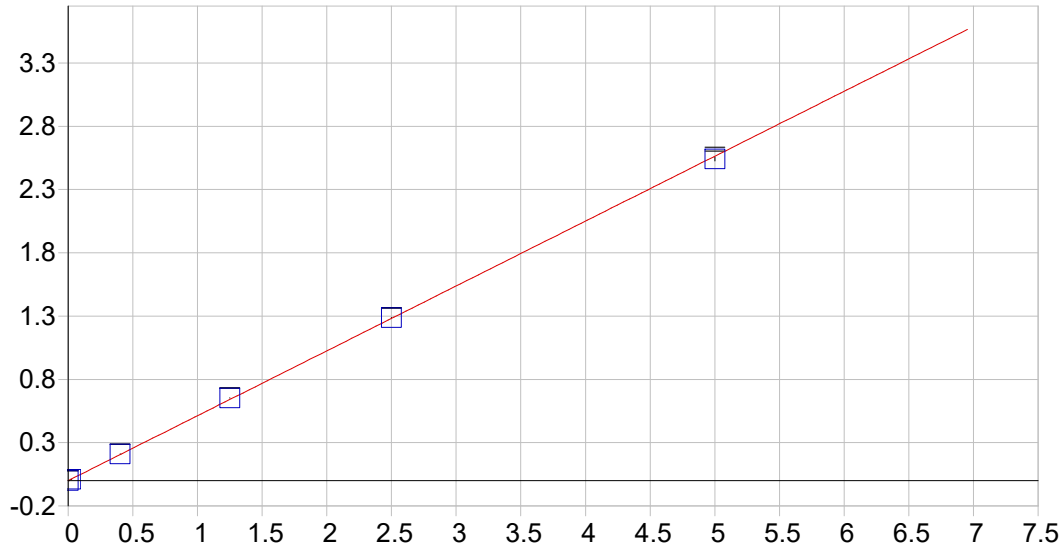
Fe 240.488 {140}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.007114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.002598		
Predicted MQL:	0.008659		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00001	.000	1
S1	.10000	.09527	-.005	-4.73	.00068	.000	1
S3	2.5000	2.4871	-.013	-.515	.01763	.000	1
S4	5.0000	5.0204	.020	.407	.03558	.000	1
S5	10.000	10.020	.020	.204	.07100	.000	1
S2	.80000	.77686	-.023	-2.89	.00551	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



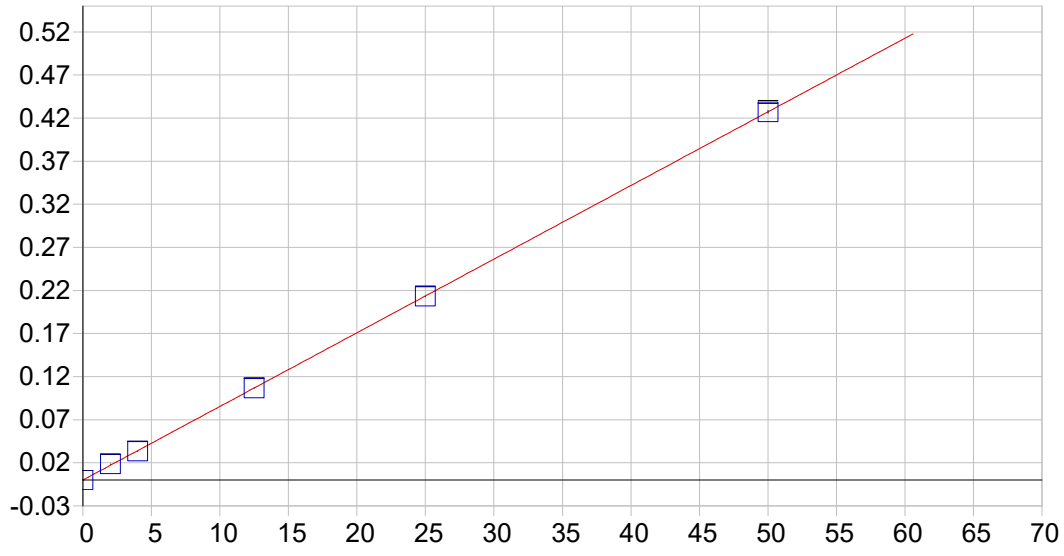
Mn 257.610 {131}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	0.512699	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000095		
Predicted MDL:	0.000200		
Predicted MQL:	0.000666		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.02000	.02143	.001	7.16	.01102	.000	1
S3	1.2500	1.2740	.024	1.92	.65319	.001	1
S4	2.5000	2.5107	.011	.428	1.2873	.002	1
S5	5.0000	4.9559	-.044	-.882	2.5409	.016	1
S2	.40000	.40801	.008	2.00	.20922	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



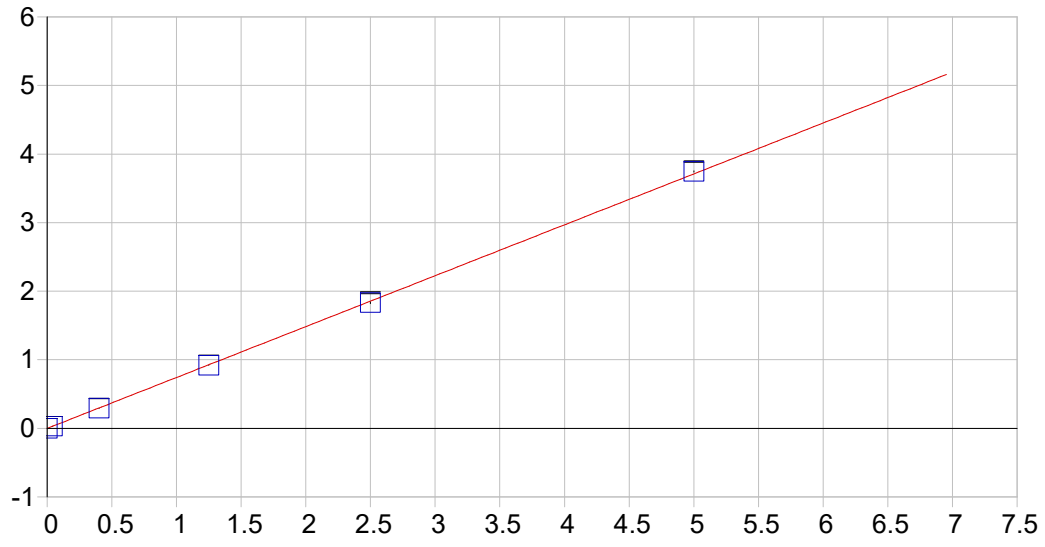
Mg 279.079 {121}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.008545	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.013322		
Predicted MQL:	0.044407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00000	.000	1
S2	4.0000	3.9045	-.095	-2.39	.03337	.000	1
S3	12.500	12.474	-.026	-.206	.10660	.000	1
S4	25.000	24.949	-.051	-.204	.21319	.000	1
S5	50.000	50.000	-.000	-.000	.42725	.002	1
S1	2.0000	2.1724	.172	8.62	.01857	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



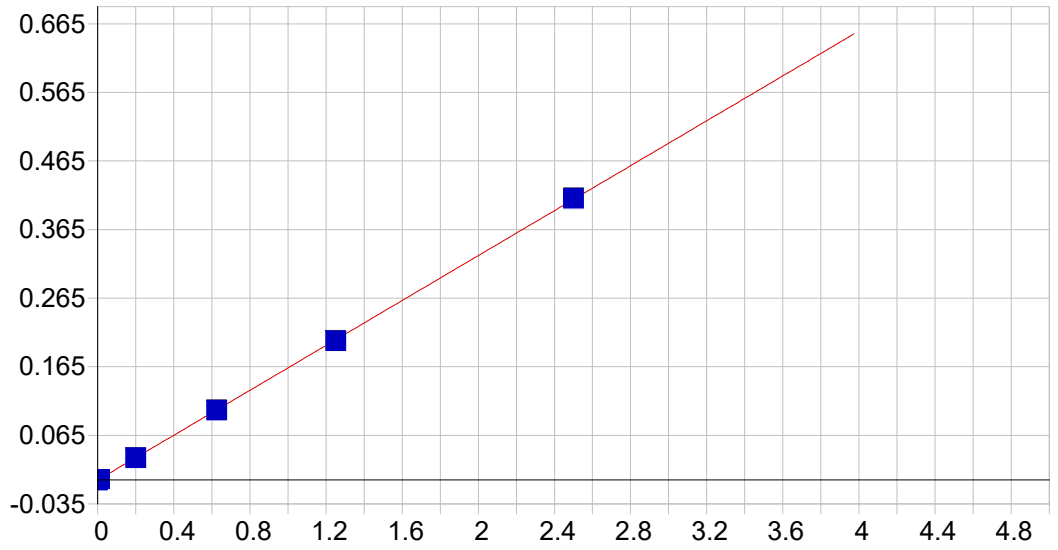
Ni 231.604 {446}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000259	Re-Slope:	1.000000
A1 (Gain):	0.742097	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000189		
Predicted MDL:	0.000256		
Predicted MQL:	0.000855		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00026	.000	1
S1	.04000	.03961	-.000	-.967	.02914	.000	1
S3	1.2500	1.2403	-.010	-.776	.92016	.002	1
S4	2.5000	2.4698	-.030	-1.21	1.8326	.015	1
S5	5.0000	5.0484	.048	.969	3.7462	.010	1
S2	.40000	.39185	-.008	-2.04	.29053	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



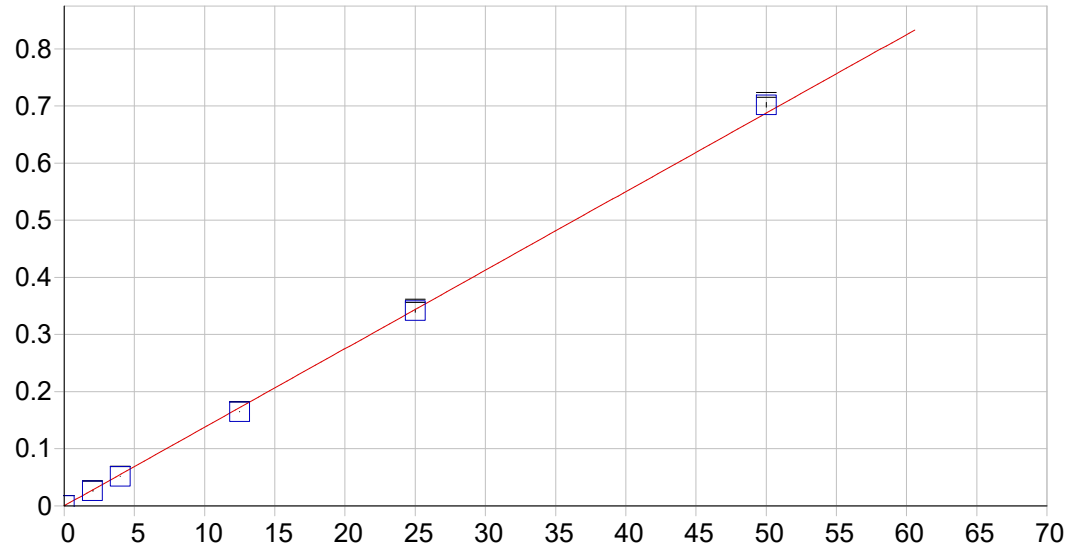
Ag 328.068 {103}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000433	Re-Slope:	1.000000
A1 (Gain):	0.163745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.000293		
Predicted MQL:	0.000976		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00043	.000	1
S1	.01000	.01018	.000	1.82	.00123	.000	1
S3	.62500	.62294	-.002	-.329	.10120	.000	1
S4	1.2500	1.2434	-.007	-.530	.20243	.000	1
S5	2.5000	2.5106	.011	.425	.40919	.000	1
S2	.20000	.19788	-.002	-1.06	.03185	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



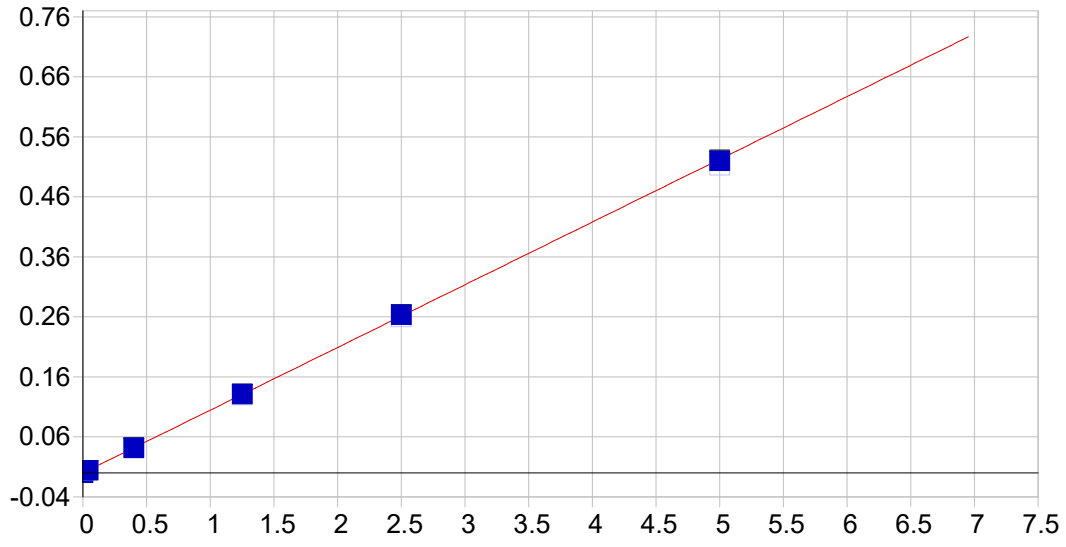
Na 589.592 { 57}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000313	Re-Slope:	1.000000
A1 (Gain):	0.013746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999633	Status:	OK.
Std Error of Est:	0.000197		
Predicted MDL:	0.005658		
Predicted MQL:	0.018860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00029	.000	.000	.00032	.000	1
S2	4.0000	3.7352	-.265	-6.62	.05166	.000	1
S3	12.500	11.968	-.532	-4.26	.16482	.000	1
S4	25.000	24.853	-.147	-.589	.34193	.003	1
S5	50.000	51.049	1.05	2.10	.70201	.004	1
S1	2.0000	1.8949	-.105	-5.26	.02636	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



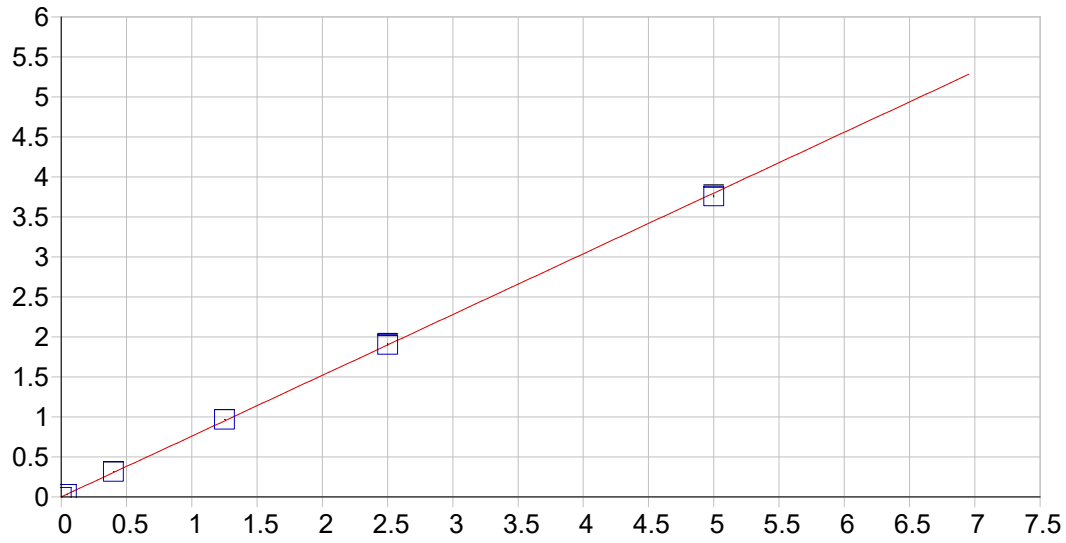
V 292.402 {115}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	0.104508	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.001269		
Predicted MQL:	0.004231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.04000	.04153	.002	3.83	.00422	.000	1
S3	1.2500	1.2553	.005	.421	.12935	.000	1
S4	2.5000	2.5194	.019	.776	.25959	.000	1
S5	5.0000	4.9760	-.024	-.481	.51257	.002	1
S2	.40000	.39787	-.002	-.533	.04101	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



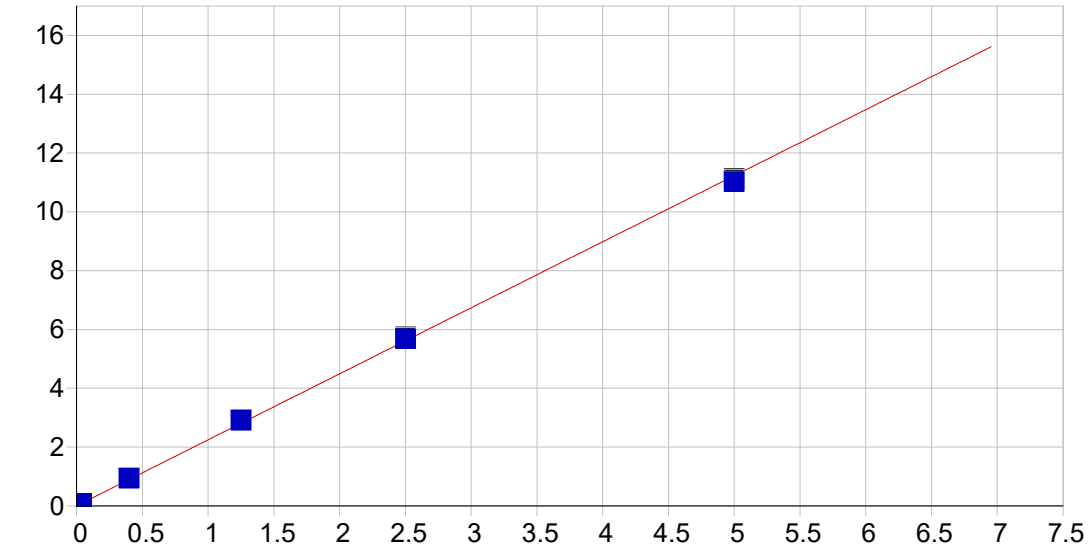
Zn 206.200 {464}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000212	Re-Slope:	1.000000
A1 (Gain):	0.759685	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000242		
Predicted MDL:	0.000167		
Predicted MQL:	0.000557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00021	.000	1
S1	.04000	.04249	.002	6.22	.03249	.000	1
S3	1.2500	1.2737	.024	1.90	.96782	.002	1
S4	2.5000	2.5076	.008	.304	1.9052	.014	1
S5	5.0000	4.9509	-.049	-.983	3.7613	.014	1
S2	.40000	.41534	.015	3.83	.31574	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



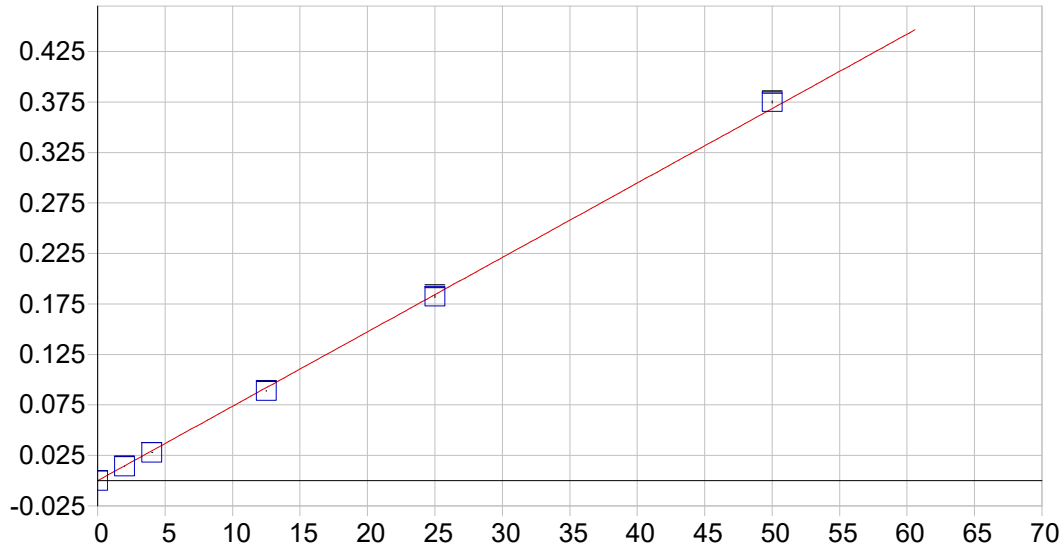
Zn 213.856 {158}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001540	Re-Slope:	1.000000
A1 (Gain):	2.245843	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.001123		
Predicted MDL:	0.000182		
Predicted MQL:	0.000606		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00153	.000	1
S1	.04000	.04256	.003	6.41	.09780	.001	1
S3	1.2500	1.2925	.042	3.40	2.9251	.005	1
S4	2.5000	2.5292	.029	1.17	5.7234	.021	1
S5	5.0000	4.9101	-.090	-1.80	11.112	.026	1
S2	.40000	.41562	.016	3.90	.94162	.004	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



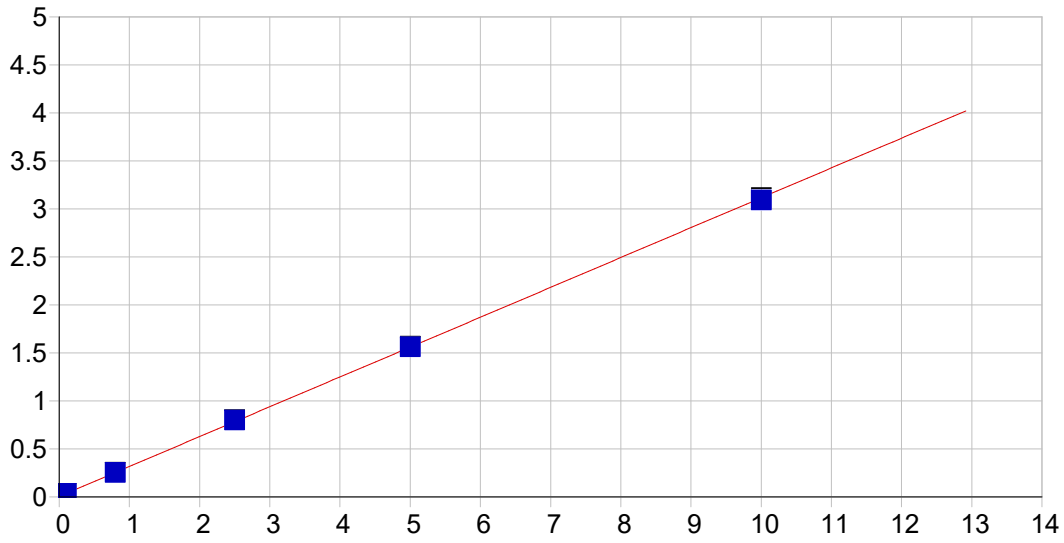
K 766.490 { 44}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000035	Re-Slope:	1.000000
A1 (Gain):	0.007370	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999750	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	0.015092		
Predicted MQL:	0.050306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	-.00003	.000	1
S2	4.0000	3.7766	-.223	-5.58	.02780	.000	1
S3	12.500	12.078	-.422	-3.38	.08898	.000	1
S4	25.000	24.798	-.202	-.809	.18272	.002	1
S5	50.000	50.909	.909	1.82	.37516	.001	1
S1	2.0000	1.9386	-.061	-3.07	.01425	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



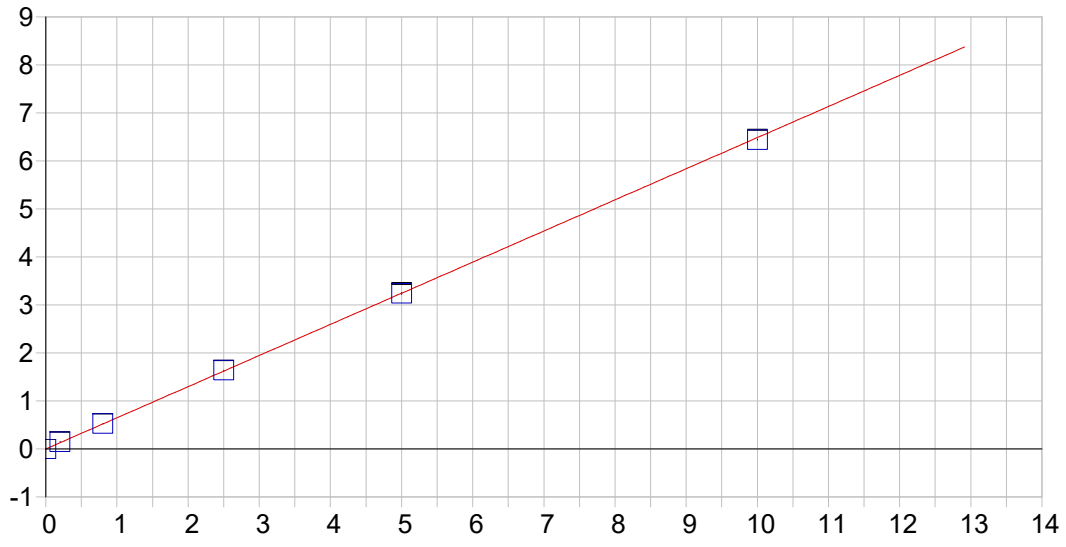
B 249.678 {135}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005846	Re-Slope:	1.000000
A1 (Gain):	0.310963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	0.000537		
Predicted MQL:	0.001789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00584	.000	1
S1	.10000	.10547	.005	5.47	.03847	.000	1
S3	2.5000	2.5584	.058	2.34	.79980	.003	1
S4	5.0000	5.0061	.006	.122	1.5593	.008	1
S5	10.000	9.9310	-.069	-.690	3.0876	.021	1
S2	.80000	.79903	-.001	-.122	.25380	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



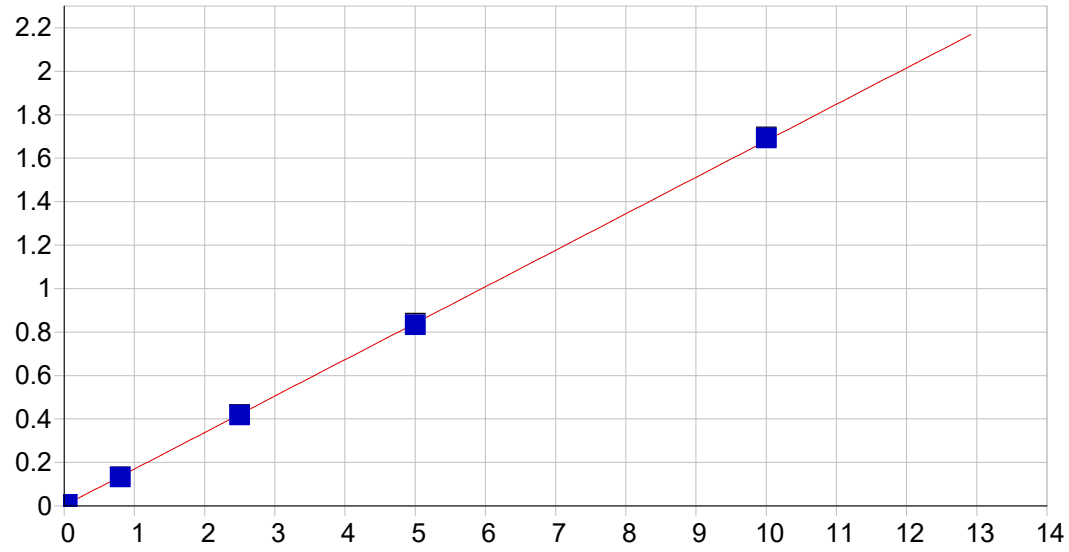
Mo 202.030 {467}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.648532	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000796		
Predicted MDL:	0.000195		
Predicted MQL:	0.000650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00001	.000	1
S1	.20000	.22847	.028	14.2	.14818	.000	1
S3	2.5000	2.5264	.026	1.06	1.6385	.004	1
S4	5.0000	4.9971	-.003	-.058	3.2408	.022	1
S5	10.000	9.9337	-.066	-.663	6.4423	.008	1
S2	.80000	.81429	.014	1.79	.52810	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



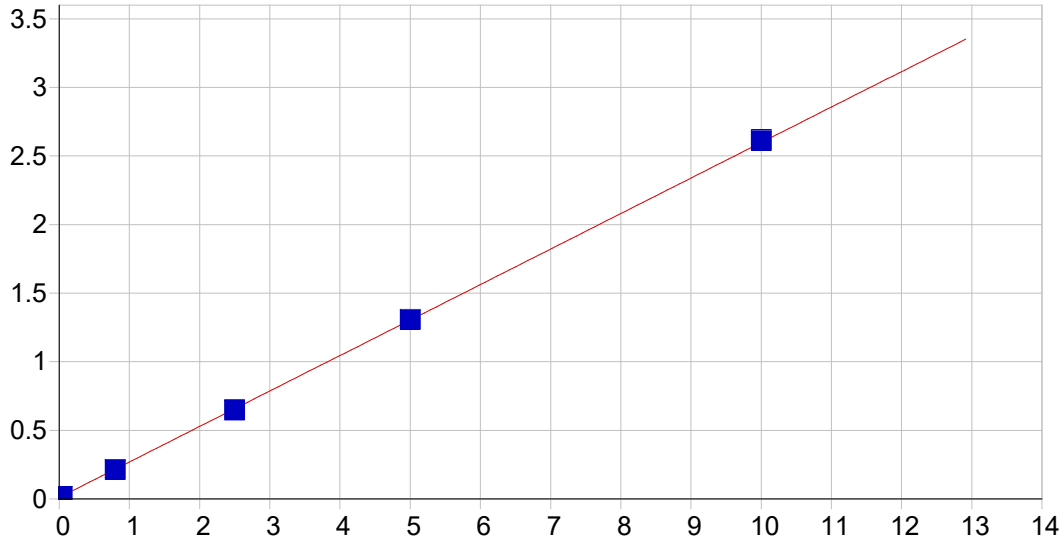
Sn 189.989 {478}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001793	Re-Slope:	1.000000
A1 (Gain):	0.167799	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.000590		
Predicted MQL:	0.001967		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00179	.000	1
S1	.04000	.04014	.000	.354	.00851	.000	1
S3	2.5000	2.4824	-.018	-.706	.41720	.001	1
S4	5.0000	4.9592	-.041	-.815	.83169	.007	1
S5	10.000	10.081	.081	.811	1.6889	.004	1
S2	.80000	.77722	-.023	-2.85	.13185	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



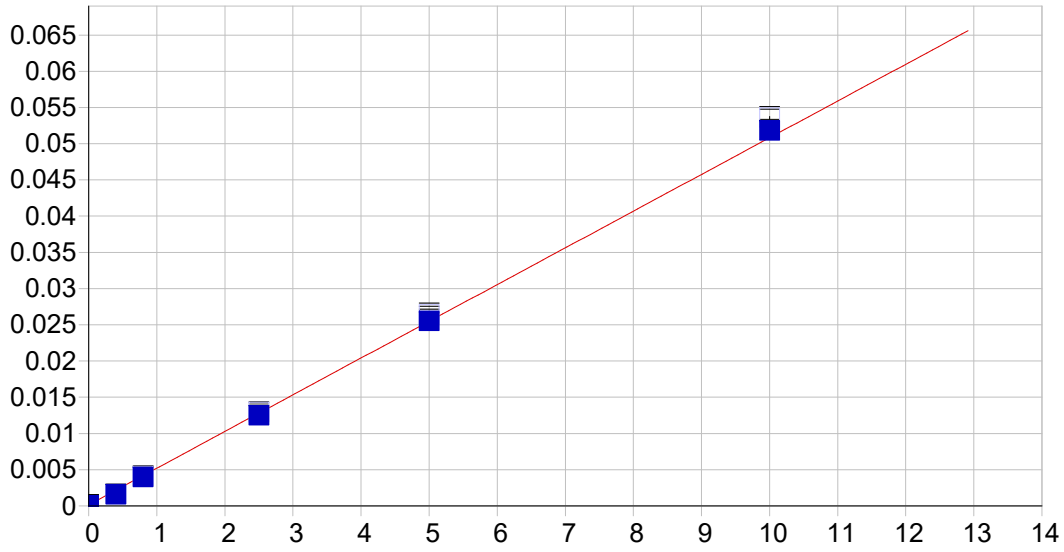
Ti 336.121 {100}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010491	Re-Slope:	1.000000
A1 (Gain):	0.258739	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000642		
Predicted MQL:	0.002141		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01049	.000	1
S1	.04000	.04013	.000	.322	.02087	.000	1
S3	2.5000	2.4582	-.042	-1.67	.64678	.002	1
S4	5.0000	5.0124	.012	.248	1.3079	.001	1
S5	10.000	10.052	.052	.519	2.6123	.006	1
S2	.80000	.77733	-.023	-2.83	.21169	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



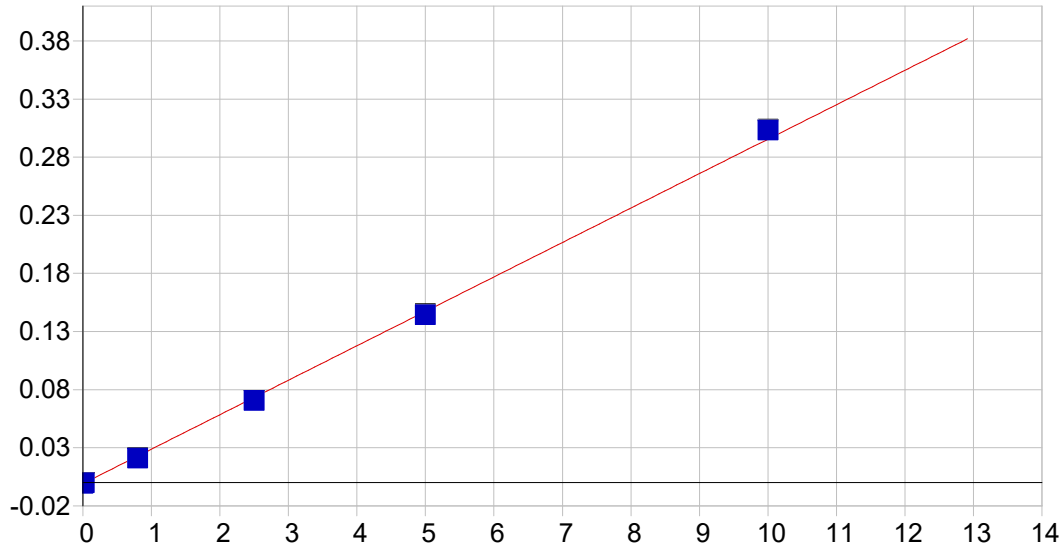
Si 288.158 {117}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000139	Re-Slope:	1.000000
A1 (Gain):	0.005069	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999058	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.005273		
Predicted MQL:	0.017577		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00013	.000	.000	.00014	.000	1
S1	.40000	.29032	-.110	-27.4	.00162	.000	1
S3	2.5000	2.4387	-.061	-2.45	.01294	.000	1
S4	5.0000	5.0138	.014	.276	.02643	.000	1
S5	10.000	10.196	.196	1.96	.05357	.000	1
S2	.80000	.75794	-.042	-5.26	.00412	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



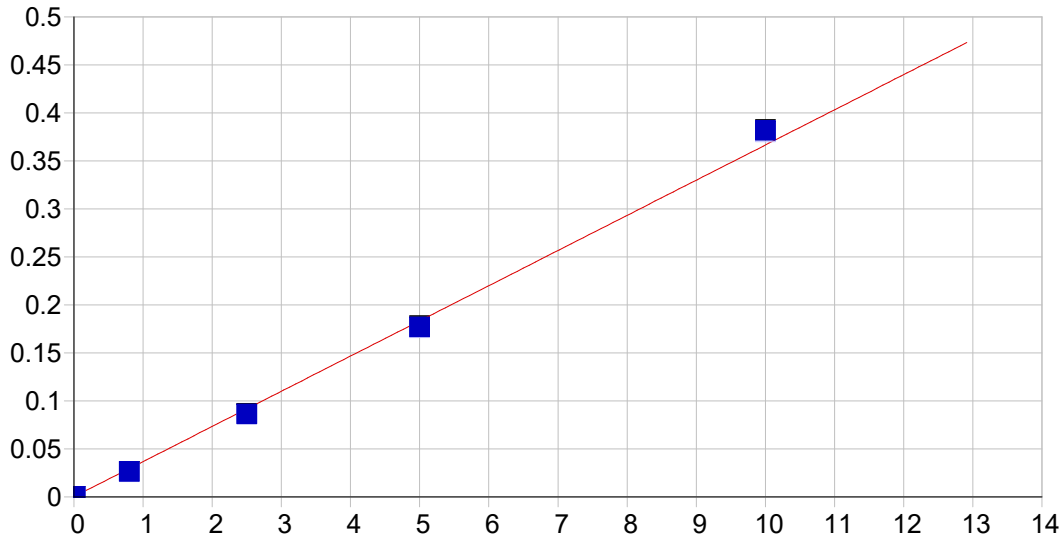
P 177.495 {490}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000791	Re-Slope:	1.000000
A1 (Gain):	0.029629	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999520	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.002758		
Predicted MQL:	0.009193		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00079	.000	1
S1	.02000	.01832	-.002	-8.39	-.00025	.000	1
S3	2.5000	2.4068	-.093	-3.73	.07057	.000	1
S4	5.0000	4.8942	-.106	-2.12	.14432	.001	1
S5	10.000	10.263	.263	2.63	.30349	.001	1
S2	.80000	.73766	-.062	-7.79	.02108	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



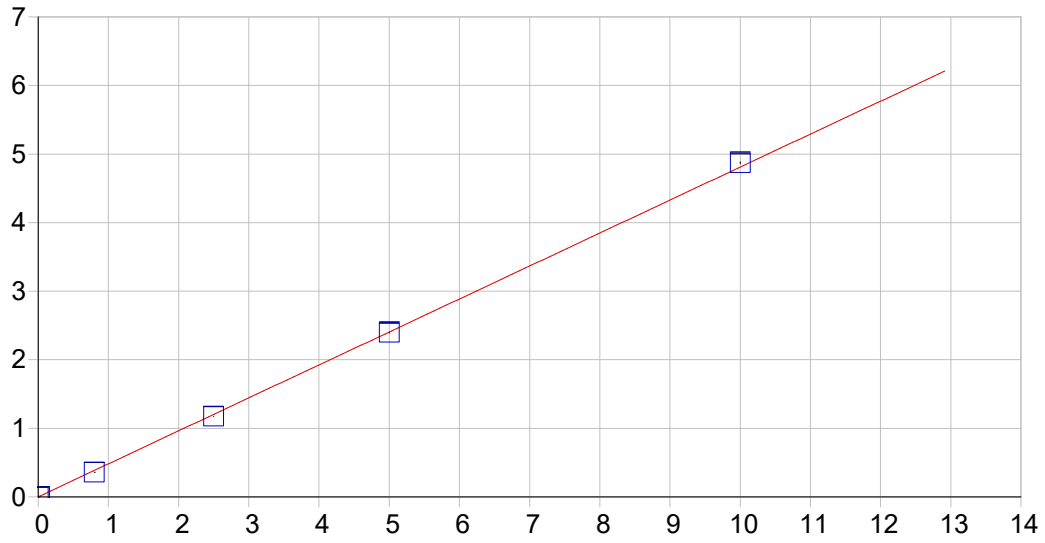
S 182.034 {485}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000151	Re-Slope:	1.000000
A1 (Gain):	0.036640	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998855	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.002512		
Predicted MQL:	0.008373		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00015	.000	1
S1	.02000	.01688	-.003	-15.6	.00072	.000	1
S3	2.5000	2.3546	-.145	-5.82	.08601	.000	1
S4	5.0000	4.8243	-.176	-3.51	.17608	.001	1
S5	10.000	10.412	.412	4.12	.37996	.001	1
S2	.80000	.71245	-.088	-10.9	.02612	.000	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



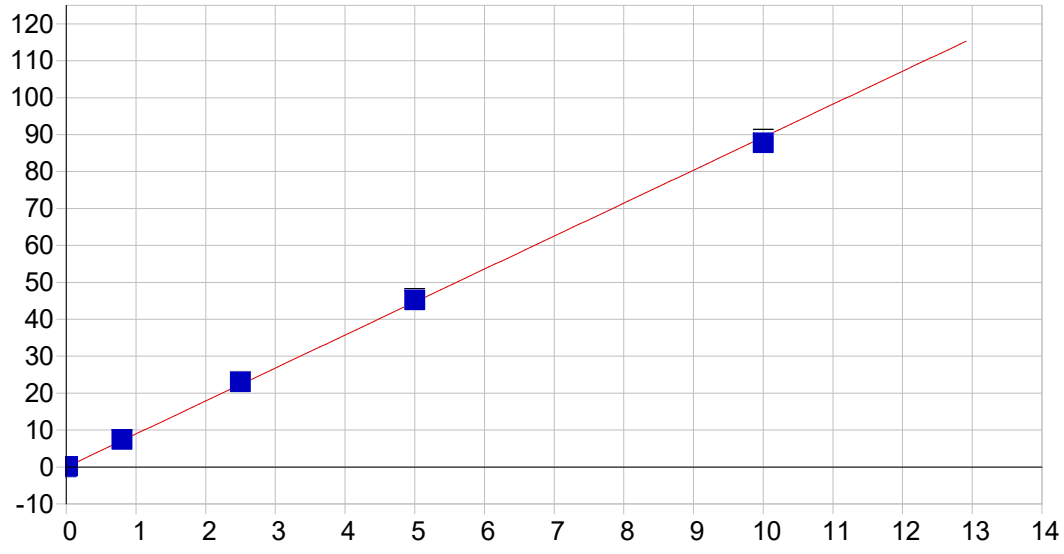
Li 670.784 { 50}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001483	Re-Slope:	1.000000
A1 (Gain):	0.480806	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.000219		
Predicted MDL:	0.001262		
Predicted MQL:	0.004207		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00148	.000	1
S5	10.000	10.132	.132	1.32	4.8728	.013	1
S4	5.0000	4.9840	-.016	-.319	2.3978	.008	1
S3	2.5000	2.4388	-.061	-2.45	1.1741	.002	1
S1	.02000	.01982	-.000	-.888	.01101	.000	1
S2	.80000	.74582	-.054	-6.77	.36008	.001	1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



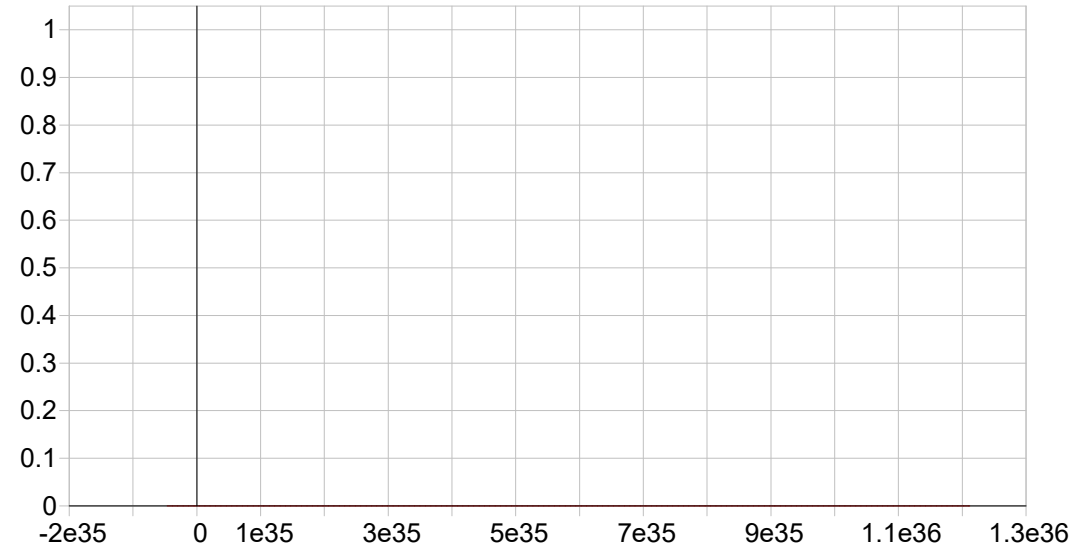
Sr 407.771 { 83}

Date of Fit:	3/18/2024 17:32:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000565	Re-Slope:	1.000000
A1 (Gain):	8.929328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999780	Status:	OK.
Std Error of Est:	0.004394		
Predicted MDL:	0.000034		
Predicted MQL:	0.000112		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00060	.000	1
S1	.02000	.02268	.003	13.4	.20284	.001	1
S3	2.5000	2.5818	.082	3.27	23.075	.072	1
S4	5.0000	5.0662	.066	1.32	45.282	.331	1
S5	10.000	9.8214	-.179	-1.79	87.787	.953	1
S2	.80000	.82800	.028	3.50	7.4001	.003	1

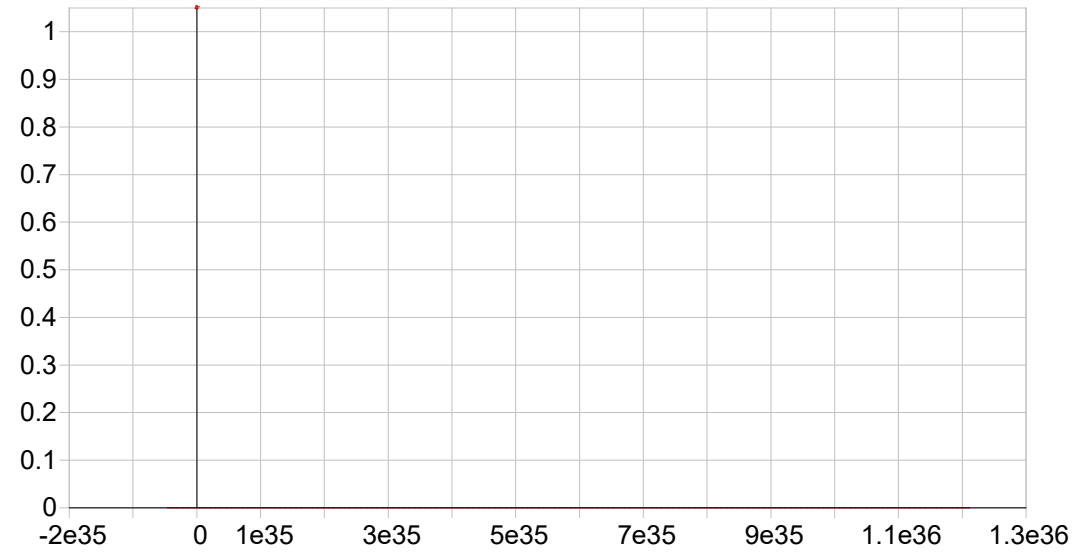
Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934



Ce 404.076 { 83}

Date of Fit:	3/18/2024 17:32:07	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:	0.002788				
Predicted MDL:	0.053515				
Predicted MQL:	0.178384				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



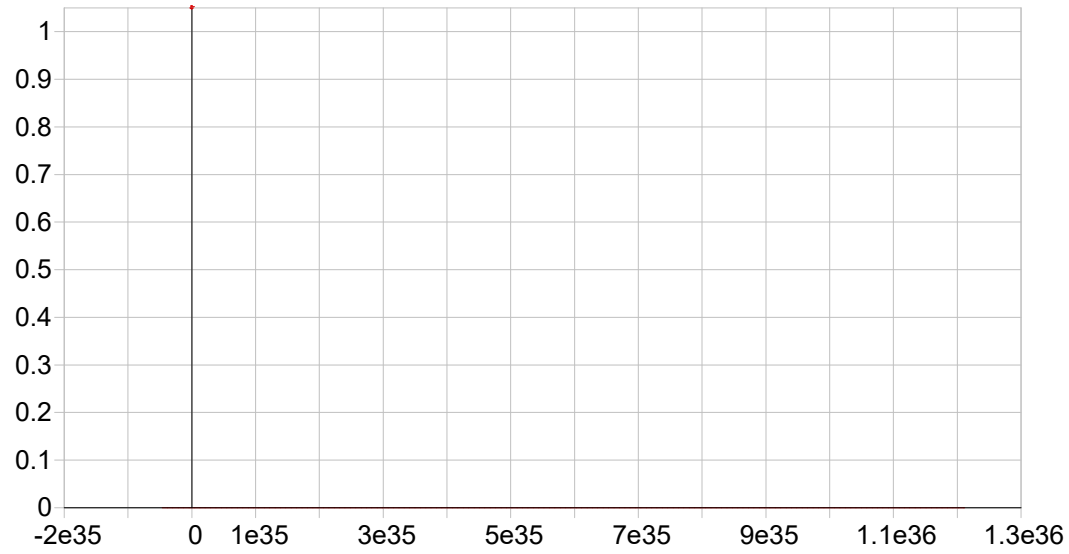
Y 224.306 {450}*

Date of Fit:	3/18/2024	Type of Fit:	Linear	Weighting:	1/Conc
17:32:07 A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

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

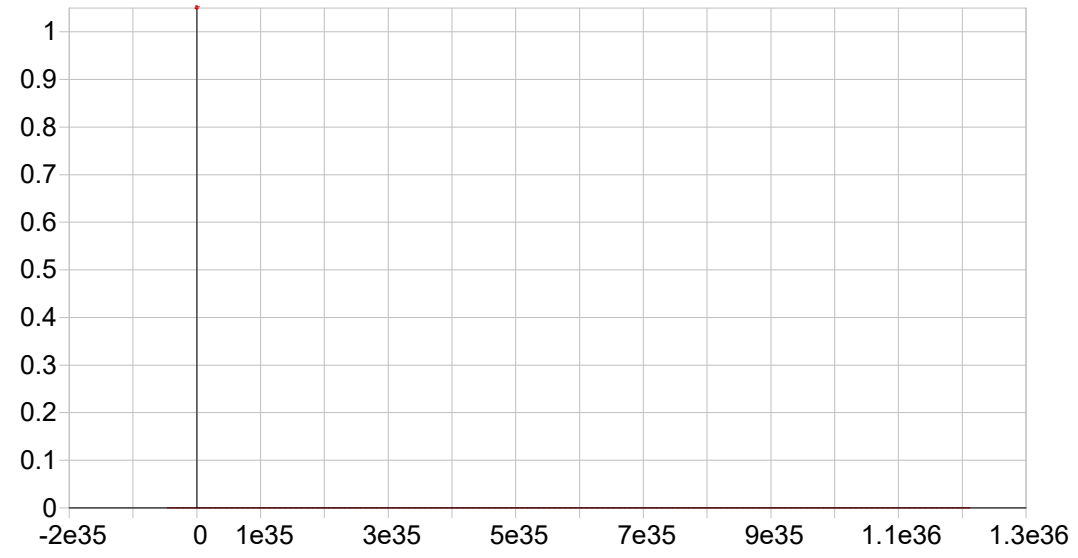


Y 360.073 { 94}*

Date of Fit:	<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

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

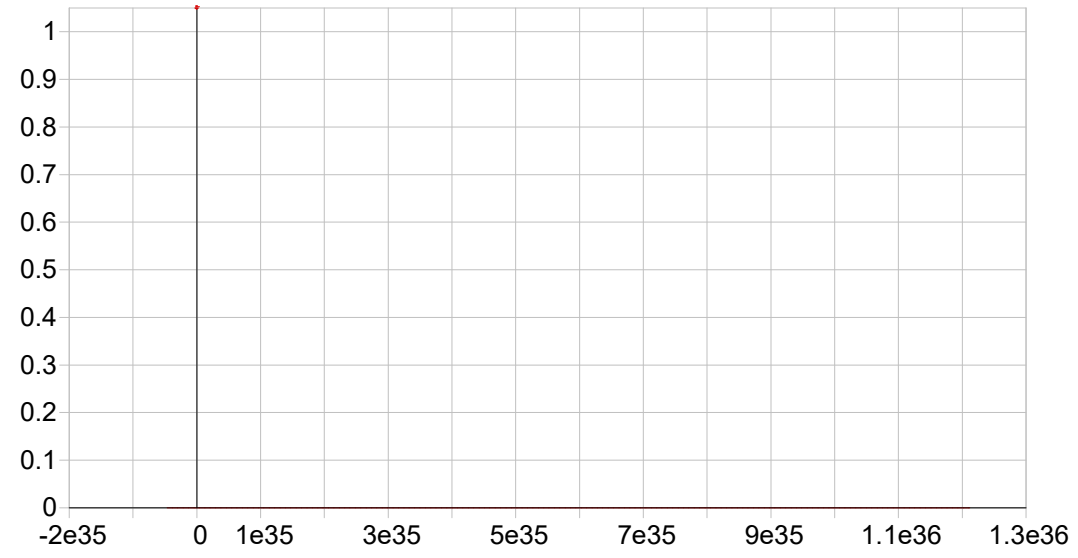


Y 371.030 { 91}*

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



Y 224.306 {150}*

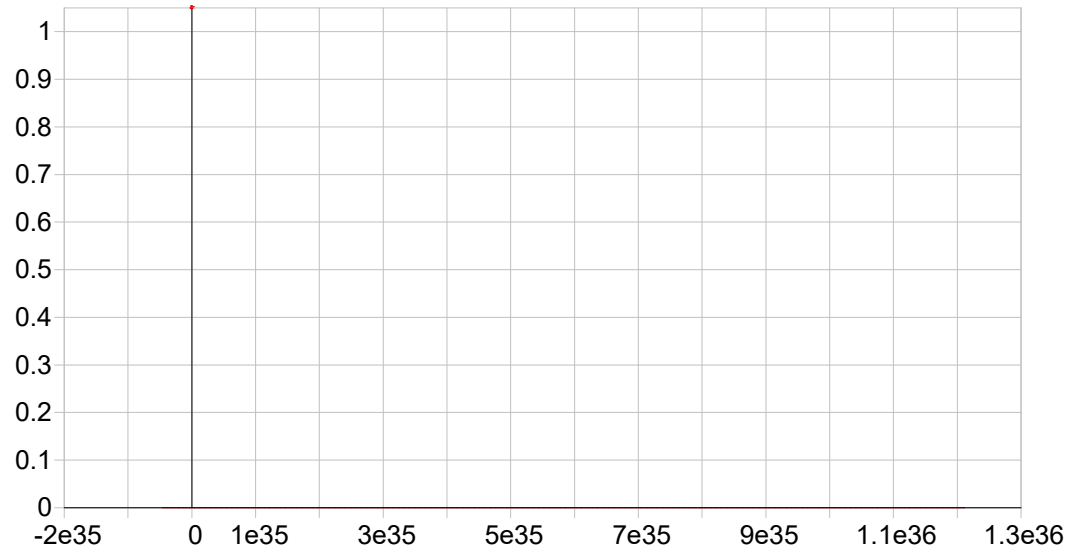
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

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



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

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S0 Acquired: 3/18/2024 16:53:48 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00014**	**.00021**	**-.00025**	**.00022**	**-.00000**	**.00033**	**-.01694**	**.00016**
Stddev	.00002	.00008	.00025	.00014	.00008	.00015	.00077	.00002
%RSD	11.173	36.250	98.289	66.079	2711.1	45.952	4.5340	11.075
#1	-.00012	.00014	.00002	.00009	.00003	.00022	-.01608	.00018
#2	-.00016	.00020	-.00047	.00038	.00005	.00051	-.01719	.00014
#3	-.00015	.00029	-.00030	.00018	-.00009	.00028	-.01755	.00017

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00023**	**.00055**	**-.00001**	**-.00005**	**-.00058**	**.00001**	**.00003**	**.00000**
Stddev	.00021	.00016	.00004	.00007	.00019	.00001	.00008	.00008
%RSD	88.872	28.753	451.75	154.19	32.711	86.501	236.74	4418.5
#1	-.00024	.00056	-.00002	-.00008	-.00058	.00000	-.00005	.00006
#2	-.00002	.00038	-.00003	.00004	-.00077	.00001	.00010	.00003
#3	-.00044	.00069	.00003	-.00010	-.00039	.00001	.00005	-.00008

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00026**	**-.00043**	**.00032**	**.00003**	**.00153**	**-.00003**	**.00584**	**-.00001**
Stddev	.00011	.00001	.00003	.00006	.00007	.00005	.00012	.00007
%RSD	43.694	2.8605	10.309	177.92	4.6087	159.07	2.0896	742.49
#1	-.00019	-.00043	.00031	-.00002	.00161	.00002	.00593	.00006
#2	-.00039	-.00045	.00035	.00003	.00149	-.00008	.00589	-.00008
#3	-.00019	-.00042	.00029	.00010	.00149	-.00005	.00570	-.00001

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00179**	**.01049**	**.00014**	**-.00079**	**.00015**	**.00148**	**-.00060**
Stddev	.00006	.00012	.00002	.00005	.00007	.00039	.00028
%RSD	3.4457	1.1525	15.288	5.8401	43.558	26.271	46.745
#1	.00173	.01036	.00016	-.00076	.00023	.00169	-.00029
#2	.00180	.01051	.00014	-.00077	.00010	.00173	-.00067
#3	.00185	.01060	.00012	-.00084	.00013	.00103	-.00084

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S0 Acquired: 3/18/2024 16:53:48 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4794.8**	**126080.**	**20428.**	**4195.8**	**4757.0**
Stddev	10.4	229.	71.	28.1	6.1
%RSD	.21670	.18187	.34870	.67017	.12911
#1	4806.8	125810.	20498.	4163.6	4750.5
#2	4788.3	126220.	20355.	4208.1	4762.7
#3	4789.4	126200.	20431.	4215.6	4757.8

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S1 Acquired: 3/18/2024 16:58:13 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00089**	**.00256**	**.00217**	**.00097**	**.00548**	**.00729**	**.30089**	**.00994**
Stddev	.00013	.00004	.00021	.00008	.00007	.00033	.00012	.00009
%RSD	14.679	1.4980	9.6113	8.5673	1.2144	4.5649	.04125	.86669
#1	.00099	.00260	.00193	.00106	.00552	.00717	.30079	.00994
#2	.00074	.00254	.00229	.00096	.00540	.00766	.30102	.01002
#3	.00093	.00253	.00229	.00090	.00551	.00703	.30084	.00985

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01909**	**.10857**	**.00113**	**.03693**	**.01471**	**.00068**	**.01102**	**.01857**
Stddev	.00013	.00065	.00001	.00009	.00022	.00002	.00008	.00016
%RSD	.68623	.60233	.54905	.23081	1.4811	2.8023	.74572	.83874
#1	.01896	.10806	.00113	.03684	.01489	.00066	.01098	.01860
#2	.01908	.10836	.00114	.03701	.01476	.00069	.01097	.01870
#3	.01923	.10931	.00112	.03695	.01446	.00070	.01112	.01840

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02914**	**.00123**	**.02636**	**.00422**	**.09780**	**.01425**	**.03847**	**.14818**
Stddev	.00015	.00001	.00021	.00016	.00063	.00021	.00019	.00014
%RSD	.51031	.94405	.78385	3.7615	.64233	1.4825	.50152	.09121
#1	.02903	.00123	.02624	.00408	.09812	.01405	.03861	.14830
#2	.02908	.00121	.02624	.00440	.09708	.01424	.03854	.14803
#3	.02931	.00124	.02660	.00419	.09820	.01447	.03825	.14821

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00851**	**.02087**	**.00162**	**-.00025**	**.00072**	**.01101**	**.20284**
Stddev	.00012	.00017	.00002	.00004	.00012	.00033	.00063
%RSD	1.4288	.83459	1.0890	14.265	16.121	3.0211	.30836
#1	.00865	.02067	.00161	-.00021	.00086	.01131	.20287
#2	.00846	.02100	.00161	-.00028	.00064	.01066	.20220
#3	.00842	.02094	.00164	-.00024	.00067	.01107	.20345

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S1 Acquired: 3/18/2024 16:58:13 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4806.8	126010.	20911.	4253.3	4645.7
Stddev	5.3	284.	63.	14.1	7.3
%RSD	.11044	.22517	.30193	.33267	.15803
#1	4805.4	126080.	20911.	4245.9	4640.5
#2	4802.2	126250.	20848.	4269.6	4642.6
#3	4812.6	125700.	20974.	4244.4	4654.1

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S2 Acquired: 3/18/2024 17:02:37 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03843**	**.04631**	**.16247**	**.03299**	**.08265**	**.10453**	**4.9000**	**.06237**
Stddev	.00012	.00042	.00020	.00007	.00023	.00035	.0076	.00052
%RSD	.32154	.91493	.12479	.20262	.27585	.33845	.15576	.83864
#1	.03831	.04610	.16248	.03293	.08247	.10483	4.9046	.06186
#2	.03856	.04680	.16227	.03306	.08290	.10462	4.9042	.06235
#3	.03843	.04603	.16267	.03297	.08257	.10414	4.8912	.06290

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1748**	**.20670**	**.01796**	**.48602**	**.13745**	**.00551**	**.20922**	**.03337**
Stddev	.0026	.00111	.00004	.00077	.00044	.00004	.00066	.00006
%RSD	.22165	.53610	.22886	.15937	.31885	.71545	.31605	.18838
#1	1.1749	.20569	.01792	.48591	.13767	.00547	.20859	.03333
#2	1.1773	.20653	.01796	.48685	.13774	.00551	.20915	.03333
#3	1.1721	.20788	.01800	.48531	.13695	.00555	.20991	.03344

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.29053**	**.03185**	**.05166**	**.04101**	**.94162**	**.02780**	**.25380**	**.52810**
Stddev	.00053	.00008	.00023	.00018	.00422	.00002	.00108	.00060
%RSD	.18368	.24154	.45294	.42868	.44784	.06758	.42367	.11424
#1	.29072	.03193	.05179	.04120	.93891	.02778	.25355	.52759
#2	.29094	.03186	.05179	.04086	.94648	.02781	.25287	.52877
#3	.28993	.03177	.05139	.04098	.93948	.02781	.25498	.52795

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13185**	**.21169**	**.00412**	**.02108**	**.02612**	**.36008**	**7.4001**
Stddev	.00031	.00066	.00002	.00008	.00009	.00068	.0027
%RSD	.23189	.31263	.46344	.36880	.33246	.18920	.03667
#1	.13198	.21244	.00411	.02112	.02612	.36077	7.4009
#2	.13207	.21119	.00414	.02099	.02621	.36005	7.4023
#3	.13150	.21145	.00411	.02113	.02603	.35941	7.3971

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S2 Acquired: 3/18/2024 17:02:37 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4692.5	122300.	20901.	4119.4	4454.1
Stddev	1.0	393.	30.	36.9	5.7
%RSD	.02077	.32116	.14289	.89555	.12862
#1	4691.4	122190.	20905.	4105.1	4450.8
#2	4693.2	121960.	20869.	4091.8	4450.7
#3	4692.9	122730.	20928.	4161.3	4460.7

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S3 Acquired: 3/18/2024 17:06:49 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12281**	**.14724**	**.51382**	**.10406**	**.26123**	**.33097**	**15.421**	**.20052**
Stddev	.00042	.00228	.00142	.00030	.00049	.00048	.024	.00138
%RSD	.34322	1.5457	.27633	.28988	.18889	.14479	.15389	.69063
#1	.12233	.14468	.51238	.10371	.26067	.33078	15.413	.20106
#2	.12294	.14798	.51387	.10426	.26160	.33152	15.402	.20156
#3	.12314	.14905	.51522	.10420	.26142	.33062	15.448	.19895

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.7494**	**.64782**	**.05675**	**1.5443**	**.42600**	**.01763**	**.65319**	**.10660**
Stddev	.0052	.00123	.00009	.0026	.00109	.00007	.00074	.00036
%RSD	.13864	.18997	.15623	.16736	.25614	.37887	.11395	.33664
#1	3.7436	.64733	.05679	1.5414	.42474	.01761	.65310	.10661
#2	3.7509	.64923	.05681	1.5454	.42659	.01757	.65250	.10623
#3	3.7536	.64692	.05664	1.5462	.42668	.01770	.65398	.10695

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.92016**	**.10120**	**.16482**	**.12935**	**2.9251**	**.08898**	**.79980**	**1.6385**
Stddev	.00220	.00001	.00024	.00014	.0050	.00037	.00309	.0040
%RSD	.23923	.00539	.14451	.10849	.16909	.41828	.38662	.24102
#1	.91825	.10121	.16490	.12950	2.9237	.08856	.80288	1.6341
#2	.91966	.10120	.16455	.12924	2.9210	.08928	.79984	1.6397
#3	.92257	.10120	.16500	.12929	2.9306	.08908	.79669	1.6417

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.41720**	**.64678**	**.01294**	**.07057**	**.08601**	**1.1741**	**23.075**
Stddev	.00115	.00159	.00006	.00008	.00048	.0017	.072
%RSD	.27658	.24616	.50165	.10975	.55688	.14218	.31165
#1	.41587	.64731	.01301	.07065	.08546	1.1756	23.142
#2	.41793	.64499	.01293	.07055	.08637	1.1723	23.084
#3	.41780	.64804	.01288	.07050	.08618	1.1744	22.999

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S3 Acquired: 3/18/2024 17:06:49 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4564.9	117650.	20344.	4006.8	4200.5
Stddev	7.2	437.	131.	23.8	7.6
%RSD	.15672	.37113	.64473	.59340	.18064
#1	4570.7	117180.	20219.	3980.2	4204.9
#2	4567.0	117750.	20332.	4026.0	4204.8
#3	4556.9	118040.	20481.	4014.0	4191.7

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S4 Acquired: 3/18/2024 17:11:13 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.24710**	**.28924**	**1.0175**	**.20748**	**.52372**	**.65994**	**30.645**	**.39136**
Stddev	.00167	.00087	.0082	.00129	.00268	.00069	.161	.00253
%RSD	.67661	.30076	.80859	.62101	.51243	.10471	.52459	.64669
#1	.24886	.28941	1.0267	.20891	.52661	.65969	30.723	.39423
#2	.24690	.29001	1.0152	.20711	.52325	.65941	30.460	.39044
#3	.24554	.28829	1.0107	.20642	.52130	.66072	30.752	.38943

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.5295**	**1.2730**	**.11279**	**3.0818**	**.84148**	**.03558**	**1.2873**	**.21319**
Stddev	.0593	.0020	.00034	.0247	.00509	.00015	.0018	.00036
%RSD	.78707	.15994	.29765	.80051	.60484	.42520	.14244	.17081
#1	7.5961	1.2744	.11317	3.1097	.84736	.03541	1.2890	.21319
#2	7.5095	1.2706	.11266	3.0730	.83855	.03571	1.2875	.21356
#3	7.4828	1.2739	.11253	3.0628	.83854	.03561	1.2853	.21283

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8326**	**.20243**	**.34193**	**.25959**	**5.7234**	**.18272**	**1.5593**	**3.2408**
Stddev	.0153	.00021	.00276	.00033	.0206	.00153	.0076	.0223
%RSD	.83556	.10556	.80715	.12832	.36033	.83905	.48416	.68733
#1	1.8494	.20226	.33874	.25973	5.7464	.18096	1.5681	3.2653
#2	1.8288	.20235	.34351	.25982	5.7065	.18372	1.5552	3.2352
#3	1.8195	.20267	.34353	.25920	5.7174	.18349	1.5548	3.2218

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.83169**	**1.3079**	**.02643**	**.14432**	**.17608**	**2.3978**	**45.282**
Stddev	.00681	.0009	.00022	.00090	.00134	.0080	.331
%RSD	.81921	.07097	.84874	.62100	.76183	.33313	.73069
#1	.83933	1.3088	.02617	.14522	.17756	2.3905	45.639
#2	.82948	1.3080	.02658	.14343	.17574	2.4063	45.220
#3	.82625	1.3069	.02654	.14430	.17494	2.3967	44.986

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S4 Acquired: 3/18/2024 17:11:13 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4477.7	116060.	20512.	3941.1	4057.5
Stddev	22.5	81.	108.	4.6	24.4
%RSD	.50154	.06997	.52525	.11582	.60214
#1	4451.8	116110.	20387.	3935.8	4029.4
#2	4490.9	116100.	20576.	3943.7	4073.3
#3	4490.4	115960.	20572.	3943.7	4069.9

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S5 Acquired: 3/18/2024 17:15:33 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.50957**	**.56946**	**2.0718**	**.42589**	**1.0770**	**1.3272**	**59.915**	**.77496**
Stddev	.00052	.00844	.0049	.00108	.0003	.0061	.700	.00868
%RSD	.10206	1.4827	.23623	.25392	.03180	.46246	1.1687	1.1206
#1	.50937	.56025	2.0672	.42478	1.0771	1.3214	59.707	.76712
#2	.51016	.57683	2.0712	.42694	1.0773	1.3266	59.342	.77348
#3	.50918	.57129	2.0769	.42595	1.0767	1.3336	60.695	.78429

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.414**	**2.5330**	**.21992**	**6.3432**	**1.6933**	**.07100**	**2.5409**	**.42725**
Stddev	.044	.0229	.00109	.0159	.0020	.00006	.0159	.00160
%RSD	.28249	.90474	.49565	.25020	.11718	.08434	.62613	.37386
#1	15.368	2.5140	.21892	6.3270	1.6910	.07107	2.5279	.42665
#2	15.420	2.5265	.21976	6.3440	1.6946	.07098	2.5362	.42604
#3	15.454	2.5584	.22108	6.3587	1.6943	.07096	2.5586	.42906

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.7462**	**.40919**	**.70201**	**.51257**	**11.112**	**.37516**	**3.0876**	**6.4423**
Stddev	.0098	.00013	.00418	.00150	.026	.00107	.0212	.0079
%RSD	.26265	.03153	.59496	.29334	.23228	.28567	.68672	.12261
#1	3.7360	.40908	.70304	.51154	11.132	.37462	3.0674	6.4334
#2	3.7468	.40933	.70557	.51187	11.083	.37640	3.0858	6.4453
#3	3.7557	.40916	.69741	.51429	11.122	.37447	3.1096	6.4483

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6889**	**2.6123**	**.05357**	**.30349**	**.37996**	**4.8728**	**87.787**
Stddev	.0044	.0057	.00018	.00061	.00108	.0134	.953
%RSD	.25924	.21751	.33374	.20080	.28488	.27574	1.0856
#1	1.6842	2.6073	.05363	.30418	.37890	4.8585	87.150
#2	1.6896	2.6112	.05372	.30324	.37993	4.8852	87.329
#3	1.6928	2.6185	.05337	.30304	.38106	4.8746	88.882

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: S5 Acquired: 3/18/2024 17:15:33 Type: Cal
Method: NON EPA-6010-200.7(v2199) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4203.1	112780.	20150.	3774.1	3698.9
Stddev	7.2	198.	107.	22.4	3.1
%RSD	.17153	.17522	.52905	.59446	.08275
#1	4194.8	112590.	20217.	3749.6	3695.5
#2	4207.1	112770.	20207.	3779.2	3701.4
#3	4207.4	112990.	20028.	3793.5	3699.9

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICV01 Acquired: 3/18/2024 17:48:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.018306**	**1.008148**	**.9990751**	**1.015653**	**1.005618**	**2.466838**
Stddev	.001865	.034729	.0010932	.004074	.003179	.003417
%RSD	.1831159	3.444795	.1094161	.4010790	.3160862	.1385205
#1	1.020337	1.043441	.9999807	1.018910	1.006866	2.470782
#2	1.017912	1.006992	.9978608	1.016963	1.007983	2.464963
#3	1.016670	.974012	.9993839	1.011086	1.002005	2.464770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5097333**	**.4993142**	**.4970653**	**9.928497**	**.4997187**	F **.4876877**
Stddev	.0003608	.0010760	.0013425	.037897	.0009446	.0012872
%RSD	.0707861	.2154876	.2700803	.3817014	.1890190	.2639431
#1	.5101419	.5003369	.4961675	9.885969	.4993841	.4869243
#2	.5095993	.4994139	.4964197	9.958690	.5007850	.4869650
#3	.5094586	.4981919	.4986086	9.940832	.4989870	.4891739

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5147438**	F **9.286682**	**.5142353**	**6.051672**	F **.4919121**	**.2429608**
Stddev	.0006541	.034912	.0003815	.009248	.0010401	.0006247
%RSD	.1270793	.3759375	.0741926	.1528231	.2114416	.2571397
#1	.5154926	9.246949	.5139345	6.059680	.4911629	.2422739
#2	.5144558	9.312453	.5146645	6.041550	.4914737	.2434952
#3	.5142831	9.300643	.5141071	6.053787	.4930996	.2431134

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.943645**	**.4965646**	**.9995880**	**10.19481**	F **.0012069**	**2.487051**
Stddev	.064223	.0017268	.0047470	.08068	.0005150	.007505
%RSD	.6458679	.3477498	.4748918	.7913425	42.67208	.3017723
#1	9.869730	.4948265	.9967196	10.10242	.0016644	2.493814
#2	9.985801	.4965874	1.005067	10.23064	.0013071	2.488361
#3	9.975404	.4982799	.996977	10.25136	.0006491	2.478976

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICV01 Acquired: 3/18/2024 17:48:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000908	F -.000947	F -.022106	F -.003199	F .0060376	F .0010344
Stddev	.000506	.000719	.003334	.002237	.0028818	.0012882
%RSD	55.69546	75.94800	15.08173	69.93504	47.73172	124.5372
#1	-.000591	-.001643	-.021890	-.005326	.0089458	.0025152
#2	-.001492	-.000990	-.018886	-.000866	.0059840	.0001717
#3	-.000642	-.000207	-.025543	-.003406	.0031829	.0004163

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F -.008014	z *****
Stddev	.000009	-----
%RSD	.1084569	-----
#1	-.008017	z 1799.093
#2	-.008004	z 1804.940
#3	-.008021	z 1812.948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4619.934	122677.5	20600.42	4053.611	4400.793
Stddev	24.734	311.7	89.05	11.917	14.485
%RSD	.5353699	.2540689	.4322698	.2939813	.3291504
#1	4596.048	122876.9	20524.56	4058.264	4384.070
#2	4618.318	122318.4	20578.24	4040.070	4408.868
#3	4645.437	122837.3	20698.47	4062.500	4409.441

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LLICV01 Acquired: 3/18/2024 17:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221134**	**.0442589**	**.0111012**	**.0212370**	**.0552948**	**.1044659**
Stddev	.0020072	.0008530	.0001172	.0007199	.0012804	.0010873
%RSD	9.076861	1.927345	1.055826	3.389913	2.315654	1.040843
#1	.0227982	.0436720	.0109849	.0213163	.0550277	.1043483
#2	.0198534	.0452374	.0112193	.0204807	.0566877	.1056072
#3	.0236886	.0438673	.0110993	.0219139	.0541690	.1034421

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1102005**	**.0064507**	**.0065963**	**2.236374**	**.0107516**	**.0311425**
Stddev	.0003978	.0000089	.0000859	.014197	.0001745	.0000601
%RSD	.3609610	.1373704	1.301760	.6348429	1.622777	.1928473
#1	.1098760	.0064597	.0065028	2.241331	.0107644	.0311685
#2	.1106443	.0064419	.0066147	2.220362	.0105711	.0310738
#3	.1100812	.0064506	.0066715	2.247428	.0109194	.0311851

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0238088**	**.1035817**	**.0225505**	**2.280532**	**.0418842**	**.0107736**
Stddev	.0000233	.0014243	.0002250	.017348	.0002546	.0000859
%RSD	.0980013	1.375046	.9977027	.7606964	.6079532	.7972993
#1	.0238213	.1021063	.0227266	2.279268	.0415917	.0108690
#2	.0238231	.1036899	.0222971	2.263851	.0420045	.0107024
#3	.0237818	.1049487	.0226280	2.298477	.0420563	.0107494

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.017545**	**.0431421**	**.0451214**	**2.054705**	**.1021041**	F **.2400379**
Stddev	.016387	.0008386	.0005351	.023933	.0006204	.0005239
%RSD	.8122217	1.943888	1.185993	1.164780	.6076121	.2182676
#1	1.999616	.0440906	.0452965	2.027277	.1018991	.2406377
#2	2.021272	.0424988	.0445207	2.071343	.1016122	.2396695
#3	2.031748	.0428369	.0455471	2.065496	.1028011	.2398066

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LLICV01 Acquired: 3/18/2024 17:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421475	.0428606	F .3109285	.0224704	.0197442	.0199836
Stddev	.0003127	.0006653	.0032284	.0007941	.0006392	.0014955
%RSD	.7420038	1.552356	1.038325	3.533949	3.237527	7.483785
#1	.0422008	.0431787	.3125339	.0225722	.0204407	.0183003
#2	.0424301	.0420959	.3130396	.0216304	.0191843	.0204916
#3	.0418115	.0433071	.3072121	.0232087	.0196076	.0211590

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F .0240128	z *****
Stddev	.0000791	-----
%RSD	.3292939	-----
#1	.0239215	z 1705.653
#2	.0240602	z 1727.876
#3	.0240567	z 1708.050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4563.369	118881.6	19894.26	3970.662	4455.737
Stddev	29.730	362.5	111.77	26.147	17.959
%RSD	.6514936	.3048839	.5618045	.6585159	.4030468
#1	4530.717	118516.1	19765.27	3950.135	4436.930
#2	4570.518	119240.9	19962.46	4000.100	4457.577
#3	4588.874	118887.9	19955.05	3961.750	4472.706

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICB01 Acquired: 3/18/2024 17:58:53 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000834**	**-.000751**	**.0006699**	**.0001260**	**-.000014**	**.0002158**	**.0001204**
Stddev	.0012653	.000969	.0015780	.0007133	.001280	.0014791	.0001311
%RSD	1517.476	129.0392	235.5497	566.2118	9349.478	685.4798	108.8349
#1	-.000329	-.001870	.0003755	.0006773	-.001477	.0007530	.0000314
#2	.001504	-.000176	-.000740	-.000680	.000896	.0013513	.0002709
#3	-.000924	-.000207	.002374	.000380	.000540	-.001457	.0000589

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000025**	**.0000008**	**.0018808**	**.0000227**	**-.000096**	**.0002695**	**-.000852**
Stddev	.000021	.0000277	.0048678	.0001476	.000063	.0001421	.000506
%RSD	82.39473	3561.874	258.8226	650.0957	66.12793	52.71643	59.39748
#1	-.000034	-.000027	-.001220	-.000126	-.000026	.0004048	-.000307
#2	-.000002	.000001	.007491	.000170	-.000112	.0001216	-.001307
#3	-.000041	.000028	-.000629	.000024	-.000149	.0002820	-.000941

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000151**	**-.009254**	**-.000078**	**-.000090**	**-.003687**	**-.000459**	**.0001491**
Stddev	.000142	.003318	.000265	.000078	.003208	.001202	.0001066
%RSD	93.93628	35.85405	341.6110	86.65615	87.01332	261.5695	71.53388
#1	-.000253	-.007757	-.000383	-.000112	-.001563	-.001844	.0002061
#2	.000011	-.013056	.000087	-.000003	-.002121	.000159	.0000260
#3	-.000212	-.006948	.000063	-.000155	-.007378	.000307	.0002150

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007370**	**-.014245**	**-.000205**	**.0006736**	**-.000042**	**-.003997**	**.0001111**
Stddev	.009465	.000535	.000151	.0005814	.000787	.001900	.0005135
%RSD	128.4246	3.752435	73.31915	86.31786	1856.220	47.55029	462.0807
#1	-.003663	-.014029	-.000256	.0000120	-.000644	-.001954	-.000482
#2	-.000320	-.013853	-.000324	.0009055	.000848	-.004324	.000403
#3	-.018127	-.014854	-.000036	.0011033	-.000332	-.005712	.000412

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICB01 Acquired: 3/18/2024 17:58:53 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.002235	-.001956	-.000092	z *****	
Stddev	.002039	.000927	.000023	-----	
%RSD	91.22844	47.38958	24.43135	-----	
#1	.000119	-.002009	-.000112	z 1721.185	
#2	-.003415	-.001004	-.000097	z 1718.188	
#3	-.003410	-.002856	-.000068	z 1731.110	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4801.056	126386.2	20652.34	4241.130	4749.800
Stddev	77.289	400.0	101.92	15.693	65.732
%RSD	1.609835	.3164549	.4934933	.3700214	1.383887
#1	4842.030	125943.3	20606.21	4235.892	4787.683
#2	4849.231	126494.4	20581.64	4228.726	4787.818
#3	4711.907	126721.0	20769.17	4258.772	4673.900

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CRI01 Acquired: 3/18/2024 18:03:21 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210062	.0420990	.0113712	.0208685	.0531063	.1004120	.1066350
Stddev	.0002088	.0004410	.0010579	.0002978	.0017113	.0040512	.0004641
%RSD	.9938091	1.047419	9.303005	1.426981	3.222469	4.034561	.4352598
#1	.0209680	.0420123	.0107485	.0206824	.0519052	.1033980	.1069820
#2	.0212314	.0425768	.0125927	.0212120	.0523479	.1020375	.1068152
#3	.0208191	.0417078	.0107726	.0207112	.0550658	.0958005	.1061078

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063169	.0064119	2.187335	.0103981	.0305575	.0231466	.0990245
Stddev	.0000887	.0000579	.013705	.0002743	.0001859	.0000131	.0035973
%RSD	1.404692	.9025965	.6265411	2.637985	.6082149	.0567799	3.632745
#1	.0063823	.0064345	2.187827	.0105106	.0307648	.0231598	.0958330
#2	.0063526	.0063461	2.173392	.0100854	.0305020	.0231335	.1029227
#3	.0062159	.0064550	2.200788	.0105982	.0304057	.0231465	.0983179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220482	2.253007	.0407111	.0103843	1.940360	.0417017	.0449951
Stddev	.0001843	.018733	.0001638	.0001688	.008590	.0014585	.0003535
%RSD	.8358773	.8314603	.4023281	1.625141	.4426857	3.497445	.7857147
#1	.0220903	2.233431	.0408739	.0102123	1.930491	.0400380	.0446618
#2	.0222078	2.254824	.0407131	.0105496	1.946149	.0427600	.0453659
#3	.0218465	2.270764	.0405463	.0103910	1.944441	.0423071	.0449575

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.959290	.0986372	.2331882	.0419071	.0404102	.2983142	.0180648
Stddev	.008319	.0007378	.0006711	.0001696	.0009401	.0022270	.0030030
%RSD	.4245872	.7480343	.2878103	.4048099	2.326442	.7465325	16.62371
#1	1.958690	.0994216	.2335729	.0420344	.0411862	.2958871	.0146156
#2	1.967893	.0979570	.2324133	.0417145	.0393648	.2987919	.0200987
#3	1.951287	.0985330	.2335786	.0419724	.0406797	.3002636	.0194800

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CRI01 Acquired: 3/18/2024 18:03:21 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0192347	.0185956	.0232473	z *****	
Stddev	.0018409	.0002613	.0000694	-----	
%RSD	9.570634	1.405155	.2987612	-----	
#1	.0213522	.0186616	.0232949	z 1753.439	
#2	.0183381	.0188176	.0231676	z 1735.517	
#3	.0180140	.0183076	.0232794	z 1749.900	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4736.372	122837.5	20364.42	4145.605	4574.974
Stddev	9.085	333.0	77.73	22.966	6.179
%RSD	.1918062	.2710815	.3816707	.5539805	.1350562
#1	4727.569	123151.9	20275.02	4160.187	4567.840
#2	4745.714	122872.0	20415.98	4119.132	4578.623
#3	4735.834	122488.6	20402.27	4157.496	4578.459

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSA01 Acquired: 3/18/2024 18:07:46 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071911**	**-.005652**	**-.000300**	**-.011462**	**-.001819**	**249.1455**
Stddev	.0004878	.000632	.003355	.004175	.002293	.4445
%RSD	6.783885	11.17951	1117.558	36.42505	126.0754	.1784026
#1	.0070819	-.005614	.000452	-.013509	-.001299	249.6551
#2	.0067672	-.006302	.002614	-.014219	.000170	248.9429
#3	.0077243	-.005040	-.003967	-.006659	-.004328	248.8384

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058916**	**.0016834**	**.0010983**	**236.2547**	**.0552919**	**.0041481**
Stddev	.0000999	.0001030	.0001492	1.4063	.0001632	.0001147
%RSD	1.694990	6.116225	13.58460	.5952491	.2952370	2.765056
#1	.0058489	.0017880	.0012679	234.6313	.0554719	.0040988
#2	.0060058	.0016798	.0009871	237.1002	.0552502	.0040663
#3	.0058203	.0015822	.0010400	237.0326	.0551536	.0042792

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050723**	**90.27299**	**.0113298**	**259.9283**	**.0047273**	**.0009776**
Stddev	.0001344	.39168	.0001767	1.2709	.0007530	.0003061
%RSD	2.649431	.4338818	1.559763	.4889532	15.92855	31.30960
#1	.0051073	89.82156	.0114620	258.5131	.0053588	.0008718
#2	.0051857	90.47480	.0113983	260.2992	.0038940	.0013225
#3	.0049238	90.52261	.0111291	260.9725	.0049292	.0007384

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0249404**	**.0013246**	**.0045035**	**-.000695**	F **.1201908**	**.0009739**
Stddev	.0024568	.0012149	.0003145	.008606	.0012845	.0002963
%RSD	9.850775	91.71932	6.983329	1238.849	1.068736	30.42115
#1	.0256056	.0019191	.0045442	.002777	.1194336	.0011324
#2	.0222194	.0021278	.0041707	-.010495	.1216739	.0011573
#3	.0269961	-.000073	.0047957	.005634	.1194649	.0006321

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSA01 Acquired: 3/18/2024 18:07:46 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001242	.0002249	-.094541	.0005926	.0002148	F .0387569
Stddev	.001644	.0005827	.003539	.0028009	.0002069	.0010504
%RSD	132.3934	259.0412	3.743662	472.6773	96.33255	2.710289
#1	-.001603	-.000263	-.097128	.0008488	.0003633	.0391848
#2	.000553	.000870	-.090508	-.002328	-.000022	.0395257
#3	-.002676	.000068	-.095988	.003257	.000303	.0375600

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0121859	z *****
Stddev	.0006078	-----
%RSD	4.987452	-----
#1	.0128872	z 2420.477
#2	.0118121	z 2423.703
#3	.0118586	z 2444.422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4254.462	111088.7	19563.57	3772.949	3622.677
Stddev	5.398	76.9	12.77	20.925	3.679
%RSD	.1268882	.0692021	.0652588	.5546125	.1015421
#1	4249.737	111100.5	19569.64	3757.738	3618.527
#2	4260.346	111006.6	19548.90	3764.296	3623.965
#3	4253.303	111159.0	19572.17	3796.813	3625.537

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSAB01 Acquired: 3/18/2024 18:21:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1105242**	**.0896389**	**.0461682**	**.0400605**	**.6046208**	**252.7392**
Stddev	.0022663	.0047444	.0026375	.0041306	.0029431	1.1287
%RSD	2.050485	5.292770	5.712834	10.31081	.4867732	.4465778
#1	.1083467	.0843144	.0479595	.0381485	.6026478	253.6889
#2	.1128699	.0934176	.0431395	.0372323	.6032110	253.0373
#3	.1103559	.0911848	.0474055	.0448006	.6080036	251.4914

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4987105**	**.5012132**	**1.014870**	**242.8643**	**.5348525**	**.4964189**
Stddev	.0006593	.0036856	.004563	1.7912	.0024177	.0016048
%RSD	.1322058	.7353336	.4495873	.7375299	.4520349	.3232777
#1	.4992748	.5024536	1.010197	242.9085	.5375388	.4946423
#2	.4979858	.5041185	1.015098	244.6330	.5328512	.4968508
#3	.4988709	.4970674	1.019314	241.0514	.5341674	.4977636

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4742655**	**93.57726**	**.5001581**	**266.0550**	**.9778505**	**.2085389**
Stddev	.0020572	.15686	.0010476	.8150	.0046422	.0005476
%RSD	.4337557	.1676248	.2094463	.3063449	.4747320	.2626057
#1	.4719858	93.49026	.5009839	266.3267	.9731015	.2091481
#2	.4748272	93.48317	.5005106	266.6995	.9780723	.2083810
#3	.4759835	93.75834	.4989797	265.1388	.9823778	.2080875

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0456630**	**.4782144**	**1.031705**	**.0159112**	F **.1295436**	**.9638421**
Stddev	.0025205	.0004922	.000927	.0020986	.0022831	.0060536
%RSD	5.519898	.1029237	.0898542	13.18953	1.762391	.6280705
#1	.0436789	.4787708	1.031389	.0140175	.1283018	.9573567
#2	.0448109	.4780365	1.032749	.0181675	.1281506	.9648265
#3	.0484991	.4778358	1.030977	.0155487	.1321784	.9693433

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSAB01 Acquired: 3/18/2024 18:21:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.003046	F .0002476	F -.104099	F -.005051	F .0074830	F .0399694
Stddev	.000771	.0002775	.000907	.002909	.0024458	.0007047
%RSD	25.32122	112.1021	.8711068	57.59210	32.68539	1.763084
#1	-.002212	.0000683	-.103542	-.002572	.0047498	.0395975
#2	-.003193	.0005673	-.105145	-.008254	.0094655	.0407822
#3	-.003734	.0001071	-.103609	-.004327	.0082337	.0395287

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F .0117917	z *****
Stddev	.0002886	-----
%RSD	2.447329	-----
#1	.0119524	z 2413.988
#2	.0119641	z 2418.149
#3	.0114585	z 2413.874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4144.923	108464.9	19333.99	3684.286	3504.343
Stddev	5.908	323.1	129.38	8.087	5.642
%RSD	.1425385	.2979266	.6691871	.2195128	.1609965
#1	4147.778	108120.6	19244.31	3683.506	3508.233
#2	4148.860	108761.7	19275.36	3692.734	3506.923
#3	4138.129	108512.4	19482.31	3676.616	3497.872

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSA01DLX20 Acquired: 3/18/2024 18:25:27 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006337**	**-.001211**	**-.000070**	**-.000910**	**.0010275**	**11.63672**	**.0006873**
Stddev	.0018977	.001826	.000760	.001886	.0004413	.01085	.0000913
%RSD	299.4488	150.8161	1079.150	207.2127	42.95124	.0932196	13.28885
#1	-.001234	-.000704	-.000847	-.002989	.0005773	11.62978	.0006017
#2	.000575	-.003236	-.000036	-.000434	.0010457	11.63115	.0006766
#3	.002560	.000308	.000672	.000692	.0014594	11.64922	.0007835

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001317**	**.0000190**	**11.93947**	**.0026366**	**.0002571**	**.0006772**	**4.562067**
Stddev	.0000296	.0000329	.03439	.0001640	.0002003	.0001426	.056804
%RSD	22.45184	172.7428	.2880112	6.220550	77.90783	21.06123	1.245134
#1	.0001348	-.000008	11.90232	.0027452	.0002545	.0008333	4.523263
#2	.0001006	.000010	11.94588	.0024479	.0004587	.0005536	4.535672
#3	.0001595	.000056	11.97020	.0027166	.0000581	.0006447	4.627266

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005032**	**12.10424**	**.0004678**	**-.000188**	**.0092216**	**-.000975**	**.0002501**
Stddev	.0001714	.06322	.0000595	.000109	.0009489	.000700	.0000645
%RSD	34.05946	.5223135	12.72606	57.95235	10.28957	71.77653	25.78974
#1	.0004111	12.03139	.0004688	-.000201	.0082601	-.000250	.0002710
#2	.0003975	12.13657	.0004077	-.000289	.0101573	-.001029	.0003015
#3	.0007009	12.14476	.0005268	-.000073	.0092475	-.001647	.0001777

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000327**	**-.009706**	**-.000108**	**.0009533**	**-.000155**	**-.003951**	**-.001006**
Stddev	.014716	.000325	.000097	.0007455	.000614	.003921	.003580
%RSD	4494.549	3.346632	89.14873	78.20034	395.1489	99.23687	355.8312
#1	.014305	-.009331	.000003	.0003824	-.000801	-.001981	.002901
#2	-.000161	-.009888	-.000173	.0017966	-.000086	-.001406	-.001790
#3	-.015126	-.009898	-.000155	.0006808	.000421	-.008466	-.004128

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSA01DLX20 Acquired: 3/18/2024 18:25:27 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0002993	-.001613	.0005151	z *****	
Stddev	.0016370	.000138	.0000521	-----	
%RSD	546.8412	8.584573	10.11648	-----	
#1	-.000021	-.001768	.0005704	z 1855.773	
#2	-.001154	-.001503	.0005081	z 1838.344	
#3	.002073	-.001566	.0004669	z 1850.779	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4715.062	123214.7	20876.97	4194.067	4416.924
Stddev	105.968	1422.6	25.21	40.123	97.573
%RSD	2.247436	1.154583	.1207675	.9566702	2.209072
#1	4745.915	123535.7	20851.05	4220.236	4447.762
#2	4597.091	124449.3	20878.45	4214.093	4307.658
#3	4802.179	121658.9	20901.41	4147.873	4495.353

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSAB01DLX20 Acquired: 3/18/2024 18:29:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054104	.0041377	.0039516	.0007388	.0276622	11.71617	.0243224
Stddev	.0015478	.0026679	.0013232	.0005147	.0006200	.02717	.0000622
%RSD	28.60712	64.47759	33.48457	69.66629	2.241312	.2318746	.2555121
#1	.0070739	.0068611	.0046864	.0003448	.0283771	11.68829	.0243073
#2	.0051446	.0015291	.0047442	.0005504	.0272707	11.71766	.0243907
#3	.0040127	.0040228	.0024241	.0013211	.0273390	11.74256	.0242692

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247554	.0475235	12.03281	.0263002	.0231522	.0246154	4.418223
Stddev	.0000586	.0000816	.04942	.0002098	.0001753	.0002612	.027570
%RSD	.2366421	.1716134	.4106889	.7975702	.7571610	1.061261	.6240072
#1	.0246981	.0474345	12.00501	.0263073	.0229621	.0245802	4.386456
#2	.0247530	.0475945	12.00356	.0260869	.0231871	.0243736	4.432305
#3	.0248152	.0475416	12.08987	.0265063	.0233075	.0248925	4.435908

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252338	12.16684	.0466976	.0092412	.0084285	.0233250	.0493874
Stddev	.0001862	.02391	.0000144	.0002080	.0020888	.0011649	.0002239
%RSD	.7377800	.1965404	.0309050	2.251176	24.78279	4.994147	.4534067
#1	.0250322	12.13923	.0466844	.0091169	.0066596	.0226817	.0491490
#2	.0252699	12.18081	.0467130	.0091253	.0078930	.0226236	.0495933
#3	.0253993	12.18049	.0466955	.0094813	.0107330	.0246697	.0494197

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026611	-.010940	.0479805	.0005634	.0011588	-.002472	-.000349
Stddev	.0029222	.000271	.0003538	.0002113	.0005518	.003742	.001994
%RSD	109.8112	2.475534	.7374341	37.49965	47.62011	151.3928	571.4257
#1	-.000447	-.011236	.0483150	.0003364	.0008547	-.001571	.001314
#2	.003077	-.010879	.0476101	.0007544	.0008259	-.006583	-.002559
#3	.005353	-.010705	.0480163	.0005994	.0017958	.000737	.000198

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: ICSAB01DLX20 Acquired: 3/18/2024 18:29:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0020747	-.000442	.0006364	z *****	
Stddev	.0005722	.000595	.0000312	-----	
%RSD	27.57942	134.5923	4.899907	-----	
#1	.0024244	-.000877	.0006641	z 1871.056	
#2	.0014144	.000236	.0006027	z 1875.698	
#3	.0023852	-.000686	.0006425	z 1864.625	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4707.037	122415.7	19950.47	4161.053	4433.437
Stddev	25.632	164.2	63.44	11.149	13.044
%RSD	.5445468	.1341016	.3179803	.2679334	.2942160
#1	4677.833	122304.9	19879.38	4148.512	4418.379
#2	4725.801	122604.3	19970.75	4169.842	4440.679
#3	4717.478	122337.8	20001.30	4164.805	4441.254

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV01 Acquired: 3/18/2024 18:34:15 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.965751**	**4.995173**	**4.992351**	**4.967933**	**4.959756**	**10.00084**	**9.957487**
Stddev	.009190	.041030	.013706	.004045	.007920	.01637	.081018
%RSD	.1850624	.8213888	.2745376	.0814269	.1596848	.1636673	.8136375
#1	4.976188	5.038446	5.007605	4.970381	4.958374	9.98694	9.914347
#2	4.962197	4.956832	4.981071	4.963264	4.952618	9.99670	9.907167
#3	4.958870	4.990241	4.988378	4.970155	4.968276	10.01888	10.05095

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2536306**	**2.495386**	**25.46022**	**1.004760**	**2.481555**	**1.248868**	**4.896274**
Stddev	.0028538	.009234	.12043	.004171	.008686	.001193	.010597
%RSD	1.125170	.3700335	.4729928	.4151612	.3500176	.0955131	.2164221
#1	.2534770	2.505941	25.39813	1.006272	2.491581	1.248661	4.885223
#2	.2508567	2.488803	25.38352	1.000043	2.476319	1.247792	4.906349
#3	.2565580	2.491414	25.59902	1.007964	2.476764	1.250151	4.897250

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.543418**	**25.29928**	**2.491522**	**1.243404**	**23.92042**	**2.516966**	**2.548951**
Stddev	.012522	.20201	.007659	.000966	.16838	.005477	.002096
%RSD	.4923098	.7985000	.3073986	.0776663	.7039090	.2176188	.0822495
#1	2.536973	25.12766	2.500285	1.243606	23.97454	2.513727	2.550087
#2	2.535433	25.24827	2.486105	1.242353	24.05509	2.513881	2.546532
#3	2.557850	25.52191	2.488177	1.244252	23.73164	2.523290	2.550235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.02674**	**5.184217**	**5.026644**	**5.013784**	**4.997128**	**4.839890**	**4.988438**
Stddev	.15029	.044569	.007194	.016382	.008504	.027858	.023369
%RSD	.6255040	.8597075	.1431265	.3267368	.1701834	.5755990	.4684676
#1	24.08214	5.166094	5.034159	5.032697	4.990736	4.825928	5.014318
#2	24.14146	5.151564	5.019820	5.004077	4.993867	4.871968	4.968880
#3	23.85661	5.234993	5.025952	5.004577	5.006780	4.821773	4.982115

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV01 Acquired: 3/18/2024 18:34:15 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	**4.844441**	**4.962229**	**5.067165**	z *****
Stddev	.015417	.013078	.048369	-----
%RSD	.3182425	.2635447	.9545660	-----
#1	4.856383	4.969855	5.015300	z 2044.341
#2	4.849904	4.969703	5.075150	z 2031.468
#3	4.827036	4.947128	5.111045	z 2065.852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4486.696**	**117592.8**	**20020.83**	**3983.926**	**4061.289**
Stddev	7.617	260.5	95.10	16.529	5.021
%RSD	.1697680	.2214907	.4749987	.4148820	.1236206
#1	4493.722	117407.1	20030.50	3979.579	4061.875
#2	4487.764	117480.8	20110.73	3970.005	4065.991
#3	4478.601	117890.5	19921.27	4002.193	4056.001

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB01 Acquired: 3/18/2024 18:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003568**	**-.000518**	**.0009143**	**-.001022**	**-.000093**	**-.002117**	**-.000460**
Stddev	.0016694	.001012	.0012178	.002687	.000977	.003108	.000282
%RSD	467.9156	195.4703	133.1884	262.8018	1054.005	146.8080	61.32976
#1	-.000703	-.000260	.0005006	-.001510	-.000560	.001201	-.000724
#2	-.000508	.000341	-.000043	-.003432	.001030	-.004961	-.000493
#3	.002281	-.001633	.002285	.001875	-.000748	-.002592	-.000163

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000040**	**-.000012**	**.0026841**	**.0001322**	**.0000030**	**.0002221**	**-.001983**
Stddev	.000073	.000060	.0026696	.0003028	.0000382	.0001575	.001515
%RSD	183.1768	490.6548	99.45820	228.9702	1272.260	70.94495	76.37156
#1	.000028	-.000049	.0056317	.0004729	-.000032	.0003204	-.001485
#2	-.000030	-.000044	.0019918	.0000297	-.000002	.0000403	-.003684
#3	-.000116	.000057	.0004289	-.000106	.000043	.0003054	-.000780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000120**	**-.013832**	**-.000030**	**-.000030**	**.0072035**	**-.000509**	**.0000791**
Stddev	.000180	.006899	.000200	.000105	.0041567	.000186	.0001297
%RSD	149.3913	49.87831	668.3371	347.0269	57.70423	36.46373	164.0013
#1	-.000041	-.016770	.000024	.000088	.0081406	-.000432	.0001347
#2	.000006	-.018777	.000138	-.000067	.0026582	-.000721	.0001718
#3	-.000326	-.005950	-.000251	-.000113	.0108117	-.000375	-.000069

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058313**	**-.010278**	**-.000009**	**.0009804**	**.0002948**	**.0010206**	**.0003481**
Stddev	.0071889	.000277	.000096	.0005386	.0002661	.0013049	.0017393
%RSD	123.2808	2.698739	1016.510	54.93779	90.27051	127.8579	499.6339
#1	.0137177	-.009998	.000056	.0013351	.0005228	.0007210	.0001991
#2	.0041321	-.010283	.000034	.0003606	.0003592	.0024492	.0021571
#3	-.000356	-.010553	-.000119	.0012456	.0000024	-.000108	-.001312

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB01 Acquired: 3/18/2024 18:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0015375	-.001188	-.000000	z *****	
Stddev	.0019376	.000654	.000020	-----	
%RSD	126.0243	55.06592	9579.046	-----	
#1	.0030116	-.001937	.000009	z 1748.355	
#2	-.000657	-.000729	-.000023	z 1741.727	
#3	.002258	-.000897	.000013	z 1752.193	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4839.515	127140.1	19992.61	4270.484	4754.624
Stddev	13.815	317.5	81.89	11.315	14.532
%RSD	.2854726	.2497039	.4095931	.2649474	.3056448
#1	4836.563	126819.8	19934.09	4257.750	4749.518
#2	4854.568	127454.6	19957.55	4279.381	4771.020
#3	4827.414	127145.9	20086.19	4274.322	4743.334

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159517BL Acquired: 3/18/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001108**	**-.000644**	**.0001150**	**-.000450**	**.0000648**	**-.000036**	**-.000893**
Stddev	.0015014	.001090	.0004728	.000747	.0009062	.002830	.000267
%RSD	1355.449	169.2571	411.0419	165.9458	1398.991	7829.781	29.88786
#1	-.001129	.000586	.0003402	.000372	-.000982	-.000476	-.000987
#2	-.000319	-.001491	-.000428	-.000634	.000592	-.002620	-.001099
#3	.001780	-.001026	.000433	-.001089	.000584	.002988	-.000592

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000011**	**.0000059**	**-.002936**	**-.000016**	**.0000273**	**.0001666**	**-.000453**
Stddev	.000003	.0000413	.005951	.000263	.0000325	.0001577	.001281
%RSD	30.66988	703.3042	202.6685	1627.325	119.2258	94.65001	282.9941
#1	-.000015	.0000365	-.001054	-.000058	.0000649	.0000016	.000773
#2	-.000011	-.000041	-.009602	-.000256	.0000092	.0003158	-.001783
#3	-.000008	.000022	.001846	.000266	.0000078	.0001824	-.000348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.003080**	**.0000935**	**-.000003**	**.0092347**	**-.000727**	**-.000091**
Stddev	.000064	.001683	.0001678	.000178	.0030018	.001452	.000111
%RSD	350.3774	54.65878	179.3713	5697.921	32.50581	199.7881	122.3544
#1	.000050	-.003630	.0001213	.000044	.0126852	-.002056	-.000218
#2	-.000029	-.001190	.0002457	-.000200	.0077944	-.000946	-.000026
#3	-.000077	-.004419	-.000086	.000146	.0072244	.000823	-.000027

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041210**	**-.014124**	**-.000277**	**.0007563**	**-.000752**	**.0034178**	**.0012112**
Stddev	.0029812	.000502	.000181	.0001115	.000608	.0038482	.0027057
%RSD	72.34199	3.554513	65.40924	14.74782	80.90947	112.5951	223.3830
#1	.0071027	-.014669	-.000486	.0008650	-.000456	.0030523	-.000366
#2	.0041199	-.013680	-.000176	.0007619	-.000348	-.000235	-.000336
#3	.0011403	-.014025	-.000169	.0006421	-.001451	.007436	.004335

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159517BL Acquired: 3/18/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	-.002302	-.001945	-.000086	z *****
Stddev	.002699	.001107	.000009	-----
%RSD	117.2662	56.92805	10.08108	-----
#1	.000811	-.002928	-.000095	z 1667.963
#2	-.003725	-.000745	-.000078	z 1653.316
#3	-.003990	-.002161	-.000084	z 1638.684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4456.566	118709.0	20514.34	3905.026	4512.435
Stddev	18.936	396.4	91.64	32.814	9.794
%RSD	.4249044	.3339226	.4467047	.8402926	.2170490
#1	4452.645	118937.8	20460.94	3932.292	4504.911
#2	4477.156	118937.9	20461.93	3914.178	4523.509
#3	4439.897	118251.3	20620.16	3868.608	4508.885

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159517BS Acquired: 3/18/2024 18:55:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8127489**	**1.983679**	**.9772578**	**2.002492**	**.8029715**	**1.955836**
Stddev	.0016155	.022544	.0015662	.008186	.0036776	.004519
%RSD	.1987666	1.136463	.1602670	.4088129	.4579962	.2310311
#1	.8143714	1.961749	.9755018	2.002031	.8018625	1.958312
#2	.8127349	1.982499	.9785104	1.994546	.7999761	1.958575
#3	.8111405	2.006790	.9777612	2.010899	.8070760	1.950620

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2005360**	**.1980300**	**.1903868**	**1.011255**	**.3942409**	**.1875227**
Stddev	.0006369	.0009421	.0001031	.008023	.0014746	.0000085
%RSD	.3175880	.4757487	.0541379	.7933961	.3740406	.0045506
#1	.2011320	.1977276	.1902987	1.001991	.3945547	.1875130
#2	.2006112	.1990862	.1905002	1.015841	.3955334	.1875262
#3	.1998649	.1972762	.1903614	1.015934	.3926346	.1875289

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3059135**	**2.805691**	**.2039284**	**1.936542**	**.4733850**	**.0704369**
Stddev	.0002483	.002725	.0007564	.020456	.0001333	.0003086
%RSD	.0811677	.0971163	.3709077	1.056307	.0281634	.4381300
#1	.3056285	2.808434	.2034417	1.941310	.4732504	.0702811
#2	.3060288	2.802985	.2047998	1.954192	.4735171	.0702372
#3	.3060832	2.805654	.2035436	1.914123	.4733874	.0707924

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.801320**	**.2976394**	**.2061594**	**9.175479**	**.3010535**	**.4163446**
Stddev	.014390	.0010571	.0004315	.032497	.0009515	.0003661
%RSD	.5136701	.3551514	.2092858	.3541754	.3160648	.0879291
#1	2.817781	.2972154	.2057139	9.212275	.3002630	.4159297
#2	2.791130	.2988426	.2061889	9.163455	.3021096	.4164818
#3	2.795049	.2968601	.2065753	9.150708	.3007880	.4166223

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159517BS Acquired: 3/18/2024 18:55:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6709171	.2008731	F .6336568	5.234288	F -.002593	.1959805
Stddev	.0015107	.0015822	.0013256	.031537	.004763	.0008206
%RSD	.2251671	.7876785	.2091973	.6025150	183.7201	.4186923
#1	.6692687	.1991106	.6325626	5.230760	-.003578	.1968717
#2	.6722356	.2021711	.6351309	5.267441	-.006786	.1958136
#3	.6712470	.2013375	.6332769	5.204663	.002586	.1952562

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2102385	z *****
Stddev	.0003280	-----
%RSD	.1560036	-----
#1	.2106172	z 14365.04
#2	.2100455	z 14368.11
#3	.2100527	z 14440.30

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4477.380	118923.0	19818.50	3953.616	4378.124
Stddev	16.245	324.6	53.17	5.285	12.121
%RSD	.3628339	.2729472	.2682957	.1336754	.2768614
#1	4460.067	118657.8	19829.49	3951.293	4364.212
#2	4492.291	118826.2	19760.69	3959.665	4383.747
#3	4479.783	119285.0	19865.32	3949.890	4386.412

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1675-02 Acquired: 3/18/2024 18:59:47 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029396**	**.0006658**	**.0127544**	**.0005152**	**.0025919**	**.4571443**
Stddev	.0007533	.0008074	.0003329	.0012323	.0004464	.0294404
%RSD	25.62678	121.2585	2.610379	239.2019	17.22340	6.440060
#1	.0036302	-.000050	.0128152	.0010378	.0022815	.4461579
#2	.0021363	.000506	.0123953	.0014000	.0031036	.4904981
#3	.0030523	.001541	.0130528	-.000892	.0023908	.4347770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0426124**	**.0001073**	**.0021079**	**18.65930**	**.0183823**	**.0051780**
Stddev	.0005370	.0000246	.0000391	.04492	.0003168	.0002172
%RSD	1.260256	22.90288	1.855759	.2407349	1.723337	4.195383
#1	.0428125	.0001210	.0020756	18.63338	.0186363	.0049445
#2	.0420040	.0001219	.0020968	18.63335	.0180273	.0053742
#3	.0430206	.0000789	.0021514	18.71116	.0184832	.0052152

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.096725**	**1.778382**	**.0754825**	**8.120450**	**.1108939**	**.1274739**
Stddev	.006181	.004310	.0003903	.031883	.0001963	.0001906
%RSD	.5635496	.2423335	.5170065	.3926307	.1770075	.1495465
#1	1.089829	1.777438	.0750363	8.089990	.1110538	.1272566
#2	1.098579	1.774623	.0756515	8.117772	.1109529	.1276130
#3	1.101766	1.783086	.0757598	8.153588	.1106748	.1275521

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**127.5069**	**.0019940**	**.3919056**	**7.860830**	**5.847144**	**.0029789**
Stddev	.3055	.0006468	.0012133	.018866	.009056	.0000588
%RSD	.2395865	32.43949	.3095810	.2399960	.1548819	1.975367
#1	127.8265	.0012530	.3913222	7.870184	5.836708	.0029277
#2	127.2179	.0024460	.3910943	7.873192	5.851783	.0029658
#3	127.4762	.0022828	.3933004	7.839116	5.852940	.0030432

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1675-02 Acquired: 3/18/2024 18:59:47 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004271	.0174489	2.825110	3.888059	F 59.93519	.0032208
Stddev	.000328	.0002778	.010597	.031218	.02631	.0005554
%RSD	7.689087	1.592208	.3751115	.8029157	.0438911	17.24404
#1	-.003904	.0172086	2.828284	3.923991	59.93435	.0029215
#2	-.004374	.0173850	2.833758	3.867595	59.90931	.0038616
#3	-.004536	.0177531	2.813289	3.872592	59.96190	.0028792

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0829531	z *****
Stddev	.0000358	-----
%RSD	.0431149	-----
#1	.0829549	z 1719.518
#2	.0829164	z 1731.908
#3	.0829879	z 1721.790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3978.519	107740.1	20187.33	3580.343	3790.969
Stddev	39.766	98.9	44.89	15.353	25.926
%RSD	.9995082	.0918056	.2223908	.4288092	.6838982
#1	4020.041	107744.1	20236.97	3586.073	3814.303
#2	3974.735	107836.9	20175.45	3592.006	3795.546
#3	3940.780	107639.2	20149.57	3562.949	3763.059

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1723-02 Acquired: 3/18/2024 19:04:14 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000350**	**-.000591**	**.0034095**	**.0014155**	**-.000196**	**.1190599**	**.0097492**
Stddev	.0017167	.002641	.0002342	.0007935	.001352	.0086185	.0008861
%RSD	4898.425	446.9984	6.867702	56.05593	688.2509	7.238772	9.088570
#1	.0016529	-.002812	.0035467	.0021049	.000148	.1177644	.0097931
#2	.0002181	.002329	.0031391	.0005482	-.001687	.1111625	.0088420
#3	-.001766	-.001289	.0035426	.0015935	.000950	.1282528	.0106125

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000479**	**.0002691**	**11.50152**	**.0010283**	**.0005606**	**.1096139**	**.2978376**
Stddev	.0000425	.0000413	.06985	.0001694	.0000144	.0003004	.0039074
%RSD	88.69845	15.35064	.6072899	16.47323	2.563100	.2740059	1.311911
#1	.0000392	.0003168	11.42712	.0011723	.0005747	.1099593	.2934214
#2	.0000104	.0002437	11.56568	.0008417	.0005460	.1094675	.2992455
#3	.0000940	.0002469	11.51177	.0010709	.0005612	.1094148	.3008460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0205475**	**3.099786**	**.0013328**	**.0003829**	**28.84629**	**-.000871**	**.2579954**
Stddev	.0001456	.024315	.0000591	.0001357	.26553	.000766	.0010122
%RSD	.7086139	.7843962	4.437572	35.43085	.9205002	87.86741	.3923210
#1	.0206106	3.072086	.0012787	.0003219	28.64948	-.001743	.2573374
#2	.0203810	3.109667	.0013238	.0002884	28.74108	-.000307	.2574879
#3	.0206509	3.117604	.0013959	.0005383	29.14830	-.000564	.2591609

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.24285**	**.0066540**	**.0006217**	**-.009009**	**-.001484**	**2.308604**	**1.074906**
Stddev	.09246	.0002371	.0001632	.000210	.000804	.004147	.005507
%RSD	.8223513	3.563436	26.24390	2.328348	54.13383	.1796215	.5123230
#1	11.15229	.0068584	.0007845	-.009005	-.002353	2.304711	1.081249
#2	11.23918	.0063940	.0006226	-.009221	-.001332	2.312965	1.072128
#3	11.33709	.0067095	.0004582	-.008801	-.000768	2.308137	1.071341

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1723-02 Acquired: 3/18/2024 19:04:14 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	5.084228	-.000739	.0508901	z *****	
Stddev	.008444	.001025	.0005969	-----	
%RSD	.1660737	138.7197	1.172813	-----	
#1	5.077886	-.001750	.0504288	z 1659.250	
#2	5.093812	-.000765	.0506773	z 1623.779	
#3	5.080986	.000299	.0515642	z 1627.268	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4081.123	111351.3	20574.98	3626.498	4074.645
Stddev	7.413	310.3	122.58	33.659	7.662
%RSD	.1816365	.2786916	.5957741	.9281277	.1880481
#1	4086.385	111709.5	20716.34	3665.286	4073.716
#2	4084.337	111181.3	20498.09	3609.222	4067.490
#3	4072.645	111163.1	20510.51	3604.985	4082.730

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03DUP Acquired: 3/18/2024 19:21:17 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062866	-.003772	.0035118	-.006230	-.000526	.3032073
Stddev	.0001476	.001853	.0009181	.004965	.003016	.0042789
%RSD	2.347098	49.13453	26.14426	79.69309	573.8234	1.411204
#1	.0061177	-.002530	.0035444	-.001249	.002476	.2989711
#2	.0063909	-.002884	.0044133	-.011179	-.000497	.3075276
#3	.0063510	-.005902	.0025778	-.006261	-.003556	.3031233

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3981698	.0005090	-.000410	167.6877	.0356420	.0010782
Stddev	.0006829	.0000442	.000065	1.3644	.0001816	.0000447
%RSD	.1715088	8.689428	15.75005	.8136266	.5095485	4.143172
#1	.3975278	.0004703	-.000479	168.6295	.0354508	.0010308
#2	.3980943	.0005572	-.000401	168.3106	.0358122	.0011195
#3	.3988873	.0004995	-.000351	166.1231	.0356631	.0010845

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039648	25.51311	1.381995	46.09541	.0139170	.0013595
Stddev	.0006090	.16039	.007714	.42235	.0002230	.0001243
%RSD	15.36150	.6286695	.5581457	.9162472	1.602657	9.142161
#1	.0033244	25.69820	1.384883	46.42441	.0136709	.0013475
#2	.0040333	25.42639	1.387848	46.24268	.0141059	.0014893
#3	.0045367	25.41475	1.373254	45.61915	.0139743	.0012416

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	114.6336	.0012571	.0493998	12.38820	.1154887	.0065861
Stddev	.4266	.0010675	.0002495	.05086	.0009214	.0001062
%RSD	.3721839	84.91937	.5050798	.4105665	.7978105	1.612797
#1	114.7030	.0009920	.0495059	12.41754	.1164870	.0067054
#2	114.1765	.0003471	.0495788	12.32947	.1153083	.0065511
#3	115.0213	.0024321	.0491148	12.41759	.1146709	.0065018

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03DUP Acquired: 3/18/2024 19:21:17 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008144	.0080695	F 15.84149	.4754658	F 16.13103	.0385604
Stddev	.000506	.0004719	.06013	.0044295	.03651	.0015081
%RSD	6.211490	5.848110	.3795909	.9316142	.2263641	3.910890
#1	-.008724	.0086138	15.91047	.4703768	16.16629	.0379916
#2	-.007792	.0078198	15.80008	.4784541	16.13342	.0402702
#3	-.007916	.0077748	15.81393	.4775666	16.09338	.0374195

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.4682235	z *****
Stddev	.0008953	-----
%RSD	.1912040	-----
#1	.4672090	z 2045.577
#2	.4685591	z 2081.124
#3	.4689025	z 2064.743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3834.327	105770.3	19933.09	3422.539	3680.115
Stddev	25.137	333.3	77.39	29.175	17.751
%RSD	.6555691	.3151614	.3882343	.8524414	.4823480
#1	3858.909	105390.8	19915.60	3400.309	3699.679
#2	3835.401	106015.8	19865.95	3455.576	3675.629
#3	3808.670	105904.3	20017.73	3411.732	3665.038

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03 Acquired: 3/18/2024 19:26:19 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057936**	**-.004389**	**.0025548**	**-.003991**	**-.001345**	**.3255442**
Stddev	.0003650	.000980	.0009118	.001068	.001452	.0055573
%RSD	6.299999	22.32989	35.68918	26.75065	107.9379	1.707077
#1	.0061987	-.003609	.0017954	-.003825	-.001738	.3292748
#2	.0056915	-.005489	.0035660	-.003017	-.002560	.3282005
#3	.0054905	-.004068	.0023029	-.005132	.000263	.3191572

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4068810**	**.0005073**	**-.000360**	**172.6866**	**.0199921**	**.0010083**
Stddev	.0009133	.0000299	.000069	.6072	.0003352	.0001497
%RSD	.2244618	5.891688	19.09491	.3516466	1.676891	14.85038
#1	.4078485	.0004728	-.000318	173.1347	.0197123	.0010601
#2	.4060339	.0005238	-.000439	172.9297	.0203637	.0011253
#3	.4067604	.0005253	-.000322	171.9955	.0199004	.0008395

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036193**	**25.39694**	**1.425415**	**47.58156**	**.0077013**	**.0012251**
Stddev	.0004167	.06315	.003916	.21723	.0001788	.0002246
%RSD	11.51283	.2486494	.2747105	.4565503	2.321598	18.33631
#1	.0032193	25.41828	1.429290	47.76770	.0076881	.0009662
#2	.0040508	25.44667	1.425494	47.63410	.0078864	.0013688
#3	.0035878	25.32589	1.421460	47.34287	.0075295	.0013402

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.0872**	**.0007489**	**.0497279**	**12.40679**	**.1151433**	**.0069503**
Stddev	.1830	.0011866	.0004152	.03477	.0004437	.0000585
%RSD	.1590353	158.4435	.8349959	.2802535	.3853356	.8416354
#1	114.9104	.0013780	.0501840	12.37412	.1147655	.0069662
#2	115.0754	.0014886	.0493719	12.40293	.1150324	.0069992
#3	115.2759	-.000620	.0496279	12.44333	.1156319	.0068855

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03 Acquired: 3/18/2024 19:26:19 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008317	.0090379	F 15.86052	.4788243	F 16.31738	.0400220
Stddev	.000452	.0011510	.03293	.0028406	.00792	.0004556
%RSD	5.433685	12.73544	.2075941	.5932377	.0485436	1.138459
#1	-.007842	.0103099	15.82270	.4813884	16.32620	.0400190
#2	-.008741	.0087352	15.88278	.4757708	16.31505	.0395679
#3	-.008367	.0080684	15.87608	.4793136	16.31088	.0404792

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.4811239	z *****
Stddev	.0006574	-----
%RSD	.1366305	-----
#1	.4815063	z 2065.621
#2	.4803648	z 2064.822
#3	.4815005	z 2056.519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.521	104209.4	19006.10	3359.124	3648.971
Stddev	11.752	265.1	11.05	2.876	7.944
%RSD	.3120973	.2543461	.0581515	.0856239	.2176979
#1	3768.132	104486.2	18998.01	3360.992	3649.077
#2	3752.683	104183.8	19018.69	3360.567	3640.975
#3	3775.748	103958.0	19001.58	3355.811	3656.861

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03LX5 Acquired: 3/18/2024 19:30:48 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002311**	**-.003048**	**.0002170**	**.0020001**	**.0005562**	**.0730891**	**.0764500**
Stddev	.001596	.001190	.0004109	.0006303	.0006192	.0040789	.0000892
%RSD	69.06750	39.02936	189.2988	31.51376	111.3211	5.580764	.1166897
#1	-.000469	-.003456	.0003165	.0026608	.0000164	.0689948	.0764739
#2	-.003276	-.001708	-.000234	.0014053	.0012321	.0731200	.0763513
#3	-.003187	-.003979	.000569	.0019343	.0004202	.0771525	.0765249

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000077**	**-.000179**	**31.73538**	**.0127880**	**-.000124**	**.0009325**	**4.700720**
Stddev	.000050	.000040	.05250	.0002664	.000013	.0002727	.007408
%RSD	65.59740	22.34437	.1654367	2.082977	10.47856	29.24761	.1575992
#1	-.000133	-.000133	31.71167	.0130877	-.000134	.0006231	4.705254
#2	-.000059	-.000205	31.69892	.0126981	-.000109	.0011382	4.692171
#3	-.000038	-.000200	31.79556	.0125782	-.000129	.0010361	4.704735

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2710550**	**8.546477**	**.0066914**	**.0006523**	**20.52471**	**-.000575**	**.0075019**
Stddev	.0001594	.052230	.0001674	.0001391	.03757	.000471	.0001557
%RSD	.0588151	.6111235	2.501364	21.32426	.1830407	81.82545	2.075238
#1	.2710902	8.543883	.0064983	.0006187	20.55408	-.000063	.0076809
#2	.2708810	8.495592	.0067804	.0008051	20.53768	-.000673	.0073977
#3	.2711939	8.599955	.0067954	.0005331	20.48238	-.000989	.0074272

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.179364**	**.0067351**	**.0011019**	**-.010180**	**.0010604**	**2.779100**	**.0824589**
Stddev	.006281	.0005018	.0000433	.000709	.0006977	.004626	.0030148
%RSD	.2881968	7.450540	3.928328	6.962193	65.79518	.1664662	3.656189
#1	2.186610	.0064352	.0010695	-.010020	.0017617	2.777227	.0815471
#2	2.176000	.0064558	.0011511	-.009565	.0010532	2.784370	.0858244
#3	2.175482	.0073145	.0010851	-.010955	.0003663	2.775705	.0800052

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03LX5 Acquired: 3/18/2024 19:30:48 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	2.534264	.0047902	.0914989	z *****	
Stddev	.004155	.0004890	.0000028	-----	
%RSD	.1639333	10.20792	.0030878	-----	
#1	2.537888	.0051678	.0914993	z 1770.825	
#2	2.529730	.0049648	.0915015	z 1774.173	
#3	2.535173	.0042378	.0914959	z 1783.892	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4082.929	114607.0	20379.83	3625.501	4220.508
Stddev	8.117	337.0	43.99	11.129	7.287
%RSD	.1987963	.2940324	.2158637	.3069530	.1726648
#1	4091.207	114292.3	20329.39	3628.146	4227.565
#2	4082.598	114566.1	20399.86	3613.287	4220.949
#3	4074.983	114962.6	20410.25	3635.068	4213.010

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03MS Acquired: 3/18/2024 19:35:11 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9012413**	**1.886134**	**.9328546**	**2.149126**	**.8700132**	**2.376966**
Stddev	.0015615	.003488	.0042127	.007339	.0028249	.004198
%RSD	.1732622	.1849342	.4515884	.3414869	.3246918	.1766028
#1	.9030072	1.886204	.9368538	2.156566	.8675897	2.373786
#2	.9006737	1.882612	.9332531	2.148919	.8731157	2.381725
#3	.9000429	1.889587	.9284568	2.141892	.8693343	2.375388

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6140080**	**.1989492**	**.1872187**	**168.7934**	**.4475369**	**.1819394**
Stddev	.0014634	.0010622	.0002891	.4068	.0015892	.0004678
%RSD	.2383421	.5339181	.1544352	.2410044	.3550972	.2570897
#1	.6123560	.1982410	.1874774	168.3265	.4493572	.1817825
#2	.6151422	.1984361	.1872721	169.0717	.4468278	.1824655
#3	.6145257	.2001706	.1869066	168.9819	.4464257	.1815703

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3086829**	**27.94109**	**1.601286**	**48.41199**	**.5002102**	**.0782298**
Stddev	.0007806	.17541	.001480	.08795	.0008457	.0005873
%RSD	.2528755	.6277734	.0924149	.1816750	.1690712	.7506983
#1	.3080313	28.12872	1.599850	48.50724	.5008244	.0788791
#2	.3095480	27.91333	1.602806	48.33384	.5005607	.0777357
#3	.3084693	27.78122	1.601202	48.39490	.4992456	.0780745

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.4271**	**.3030369**	**.2633172**	**23.33962**	**.4219214**	**.4287144**
Stddev	.3103	.0009368	.0002953	.16150	.0009483	.0003286
%RSD	.2642240	.3091489	.1121358	.6919498	.2247490	.0766559
#1	117.1124	.3023401	.2634385	23.44626	.4210410	.4290820
#2	117.7327	.3041019	.2635324	23.41879	.4229254	.4286121
#3	117.4360	.3026686	.2629806	23.15381	.4217978	.4284491

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03MS Acquired: 3/18/2024 19:35:11 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6483841**	**.2241202**	F **16.12445**	**6.059113**	F **15.73532**	**.2550954**
Stddev	.0007892	.0013786	.13571	.032498	.04018	.0004476
%RSD	.1217169	.6151386	.8416274	.5363513	.2553251	.1754595
#1	.6487700	.2233423	16.26622	6.089966	15.76475	.2547599
#2	.6489061	.2233063	16.11138	6.062184	15.75167	.2556036
#3	.6474762	.2257120	15.99575	6.025188	15.68955	.2549228

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.6949464**	z *****
Stddev	.0016465	-----
%RSD	.2369264	-----
#1	.6933307	z 12955.02
#2	.6966220	z 12995.96
#3	.6948864	z 12992.46

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3753.275**	**104102.6**	**19009.86**	**3313.145**	**3637.559**
Stddev	8.059	528.4	58.42	28.513	10.097
%RSD	.2147171	.5076221	.3073319	.8606147	.2775740
#1	3757.985	103623.6	19076.19	3296.374	3645.323
#2	3743.970	104014.7	18966.06	3296.993	3626.144
#3	3757.871	104669.5	18987.32	3346.067	3641.209

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03MSD Acquired: 3/18/2024 19:39:26 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8980162**	**1.799700**	**.9215739**	**2.123322**	**.8653294**	**2.316633**
Stddev	.0042545	.038912	.0052394	.014601	.0029410	.012537
%RSD	.4737681	2.162142	.5685254	.6876617	.3398750	.5411749
#1	.8934241	1.810742	.9158902	2.116113	.8653165	2.303729
#2	.8988006	1.756460	.9262110	2.113727	.8623948	2.317401
#3	.9018240	1.831898	.9226206	2.140126	.8682768	2.328768

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6077925**	**.1926372**	**.1843844**	**167.2367**	**.4181089**	**.1793971**
Stddev	.0032729	.0012639	.0001863	.6375	.0012410	.0004848
%RSD	.5384851	.6561074	.1010184	.3811719	.2968233	.2702574
#1	.6040938	.1931293	.1842234	167.9235	.4191266	.1788471
#2	.6089700	.1912012	.1843413	166.6640	.4167263	.1795817
#3	.6103138	.1935810	.1845884	167.1226	.4184738	.1797625

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3044990**	**27.83754**	**1.571884**	**47.39293**	**.4755386**	**.0768649**
Stddev	.0008082	.04186	.003535	.18059	.0010083	.0000980
%RSD	.2654330	.1503814	.2248689	.3810582	.2120288	.1275423
#1	.3040045	27.83978	1.572499	47.31083	.4744129	.0768189
#2	.3040608	27.87824	1.568083	47.26798	.4758443	.0767983
#3	.3054317	27.79460	1.575071	47.59999	.4763587	.0769775

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.0954**	**.2958401**	**.2658214**	**23.31784**	**.4106634**	**.4249104**
Stddev	.4761	.0018847	.0005153	.09369	.0018437	.0010214
%RSD	.4101041	.6370731	.1938415	.4017911	.4489466	.2403863
#1	116.6451	.2937238	.2660436	23.25965	.4090883	.4254299
#2	115.8294	.2964588	.2661883	23.42591	.4102108	.4237337
#3	115.8118	.2973377	.2652323	23.26795	.4126913	.4255677

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03MSD Acquired: 3/18/2024 19:39:26 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6413349	.2183970	F 16.03412	5.961728	F 15.65677	.2483200
Stddev	.0016066	.0000201	.05931	.010508	.05433	.0018555
%RSD	.2505012	.0092085	.3699059	.1762563	.3470259	.7472200
#1	.6417088	.2183852	15.99307	5.968714	15.62920	.2464234
#2	.6395744	.2184202	16.10212	5.966827	15.62176	.2501314
#3	.6427216	.2183856	16.00718	5.949644	15.71936	.2484052

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6885022	z *****
Stddev	.0023730	-----
%RSD	.3446650	-----
#1	.6858651	z 12714.87
#2	.6891760	z 12687.22
#3	.6904654	z 12715.79

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3694.959	103594.2	19168.30	3285.839	3587.935
Stddev	11.652	125.4	42.47	26.601	10.310
%RSD	.3153593	.1210563	.2215451	.8095636	.2873635
#1	3699.900	103616.9	19180.57	3301.051	3594.940
#2	3703.327	103459.0	19203.28	3255.123	3592.768
#3	3681.650	103706.8	19121.05	3301.342	3576.095

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03A Acquired: 3/18/2024 19:43:43 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9052696**	**1.830402**	**.9314659**	**2.163312**	**.8737499**	**2.303538**
Stddev	.0023940	.020122	.0021840	.013614	.0016780	.010913
%RSD	.2644529	1.099340	.2344741	.6292935	.1920447	.4737448
#1	.9032471	1.813915	.9312148	2.148354	.8751278	2.292247
#2	.9079129	1.824466	.9294182	2.174976	.8718812	2.304337
#3	.9046489	1.852824	.9337646	2.166606	.8742405	2.314029

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6049889**	**.1921891**	**.1863034**	**165.5437**	**.3984452**	**.1805557**
Stddev	.0014021	.0003315	.0002728	.2443	.0005245	.0006765
%RSD	.2317608	.1724862	.1464408	.1475940	.1316305	.3746844
#1	.6040727	.1918550	.1865574	165.6749	.3980041	.1797924
#2	.6042910	.1925179	.1860150	165.2618	.3983064	.1810813
#3	.6066030	.1921944	.1863379	165.6945	.3990251	.1807933

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3094293**	**27.49237**	**1.552739**	**46.96272**	**.4669681**	**.0771329**
Stddev	.0003997	.05265	.002951	.14475	.0011017	.0007555
%RSD	.1291714	.1915072	.1900307	.3082237	.2359329	.9794529
#1	.3098626	27.55290	1.553528	47.12913	.4656982	.0764325
#2	.3090751	27.45726	1.549474	46.86598	.4675370	.0770329
#3	.3093502	27.46694	1.555216	46.89305	.4676691	.0779335

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.2408**	**.2984726**	**.2707203**	**23.23354**	**.4124525**	**.4307723**
Stddev	.2148	.0013032	.0012506	.05114	.0017110	.0003737
%RSD	.1847490	.4366173	.4619491	.2200971	.4148354	.0867595
#1	116.2536	.2994040	.2693236	23.18099	.4127479	.4303560
#2	116.0200	.2969833	.2717362	23.23648	.4106130	.4308816
#3	116.4489	.2990303	.2711011	23.28314	.4139965	.4310791

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-03A Acquired: 3/18/2024 19:43:43 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6452185	.2167493	F 15.82895	6.003249	F 15.54642	.2497437
Stddev	.0015284	.0018570	.04391	.003068	.05185	.0006503
%RSD	.2368821	.8567321	.2773919	.0511000	.3334873	.2603809
#1	.6434560	.2153863	15.87746	6.006791	15.49180	.2491884
#2	.6461788	.2159974	15.81747	6.001420	15.55250	.2495838
#3	.6460206	.2188643	15.79192	6.001537	15.59496	.2504591

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6851174	z *****
Stddev	.0019227	-----
%RSD	.2806357	-----
#1	.6837473	z 12804.31
#2	.6842896	z 12803.24
#3	.6873153	z 12836.45

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3678.812	103782.4	19175.15	3262.974	3585.035
Stddev	.781	138.8	38.67	7.021	4.677
%RSD	.0212269	.1337033	.2016678	.2151658	.1304535
#1	3678.026	103927.1	19218.23	3270.979	3590.434
#2	3678.825	103650.4	19163.74	3257.859	3582.450
#3	3679.587	103769.6	19143.46	3260.085	3582.222

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV02 Acquired: 3/18/2024 19:48:00 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.151853**	**4.629515**	**4.594491**	**5.183036**	**5.203001**	**10.17379**
Stddev	.008577	.064481	.008757	.012448	.013080	.00164
%RSD	.1664765	1.392826	.1905971	.2401767	.2513897	.0161506
#1	5.159346	4.631148	4.586958	5.195889	5.215170	10.17218
#2	5.153715	4.564233	4.592416	5.171036	5.204664	10.17373
#3	5.142499	4.693164	4.604099	5.182184	5.189169	10.17546

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.83707**	**.2411092**	**2.279620**	**24.77291**	**.9848389**	**2.256893**
Stddev	.09987	.0020567	.003326	.09373	.0028422	.003204
%RSD	.9215791	.8530224	.1459030	.3783471	.2885992	.1419632
#1	10.77537	.2433668	2.277186	24.84924	.9880806	2.255803
#2	10.78355	.2393420	2.278264	24.66830	.9827742	2.254376
#3	10.95230	.2406190	2.283410	24.80119	.9836619	2.260499

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.277019**	**5.102001**	**2.560172**	**24.75542**	**2.328849**	**1.256905**
Stddev	.000462	.024278	.006152	.10374	.001780	.003323
%RSD	.0361406	.4758568	.2402913	.4190710	.0764424	.2643640
#1	1.277373	5.097757	2.565561	24.87520	2.328531	1.259198
#2	1.277186	5.080124	2.553469	24.69694	2.327250	1.258422
#3	1.276497	5.128121	2.561484	24.69412	2.330767	1.253094

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.75190**	**2.554791**	**2.644827**	**26.46631**	**5.133359**	**5.137128**
Stddev	.20749	.009480	.005563	.20585	.030354	.004562
%RSD	.7756048	.3710606	.2103469	.7777748	.5913053	.0888109
#1	26.53978	2.564813	2.638492	26.24349	5.168346	5.141818
#2	26.95443	2.545967	2.647076	26.64940	5.114052	5.132705
#3	26.76149	2.553593	2.648914	26.50601	5.117679	5.136861

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV02 Acquired: 3/18/2024 19:48:00 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.512071**	**5.305090**	**4.924303**	F **4.384596**	F **4.361082**	**5.312813**
Stddev	.010176	.008671	.034832	.008912	.009634	.033967
%RSD	.2255392	.1634428	.7073586	.2032575	.2209104	.6393370
#1	4.510226	5.313747	4.887994	4.375417	4.360929	5.292820
#2	4.502943	5.305118	4.927472	4.393214	4.351525	5.352031
#3	4.523043	5.296405	4.957443	4.385157	4.370792	5.293587

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.374718**	z *****
Stddev	.025406	-----
%RSD	.4726951	-----
#1	5.401986	z 1869.526
#2	5.351714	z 1849.300
#3	5.370454	z 1853.194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4017.585**	**109647.9**	**19461.57**	**3483.006**	**3987.494**
Stddev	16.387	113.5	95.61	14.941	11.291
%RSD	.4078852	.1034928	.4912544	.4289802	.2831583
#1	4003.209	109589.2	19351.38	3499.650	3976.236
#2	4014.118	109575.8	19510.78	3470.750	3987.428
#3	4035.428	109778.7	19522.54	3478.618	3998.818

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB02 Acquired: 3/18/2024 19:52:23 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000491**	**-.000857**	**-.000009**	**.0012236**	**.0008832**	**.0008400**	**-.002562**
Stddev	.000992	.000081	.000508	.0027706	.0014566	.0054527	.000130
%RSD	202.0873	9.503078	5456.442	226.4398	164.9180	649.1095	5.074892
#1	-.000493	-.000923	-.000475	.0028681	.0012926	-.004520	-.002496
#2	-.001482	-.000766	.000532	.0027778	.0020914	.006381	-.002712
#3	.000502	-.000882	-.000085	-.001975	-.000734	.000659	-.002478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000071**	**.0000238**	**.0002738**	**-.000094**	**.0000379**	**.0002966**	**.0018465**
Stddev	.000015	.0000636	.0019296	.000050	.0001172	.0002700	.0020703
%RSD	21.13834	266.9848	704.7692	53.25334	309.5728	91.04184	112.1187
#1	-.000083	-.000014	.0008074	-.000045	.0001501	.0005576	.0042335
#2	-.000077	.000097	-.001866	-.000091	-.000084	.0003140	.0007669
#3	-.000054	-.000011	.001880	-.000145	.000047	.0000183	.0005392

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000211**	**-.005864**	**-.000048**	**.0005115**	**.0571724**	**-.000847**	**.0003574**
Stddev	.0001487	.003525	.000243	.0000732	.0039463	.000595	.0001858
%RSD	703.7654	60.10758	502.5137	14.31355	6.902413	70.23632	51.99483
#1	-.000009	-.004080	-.000318	.0005526	.0530201	-.000924	.0005709
#2	-.000110	-.003588	.000151	.0005550	.0608739	-.001399	.0002312
#3	.000183	-.009924	.000022	.0004270	.0576231	-.000217	.0002703

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0431929**	**-.007227**	**.0001987**	**.0004064**	**.0010967**	**.0042797**	**.0049490**
Stddev	.0168423	.000697	.0002861	.0000718	.0005876	.0024405	.0006683
%RSD	38.99332	9.649205	143.9974	17.66178	53.58413	57.02447	13.50456
#1	.0322385	-.006679	.0005249	.0003988	.0014523	.0066849	.0056624
#2	.0625864	-.006990	.0000803	.0003387	.0014192	.0018054	.0043374
#3	.0347537	-.008012	-.000009	.0004817	.0004184	.0043489	.0048473

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB02 Acquired: 3/18/2024 19:52:23 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0043076	-.000192	-.000036	z *****	
Stddev	.0035357	.001684	.000014	-----	
%RSD	82.07867	876.4263	39.34214	-----	
#1	.0083650	.000312	-.000029	z 1601.625	
#2	.0026717	.001183	-.000052	z 1602.472	
#3	.0018862	-.002071	-.000026	z 1600.679	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4239.434	116700.6	19535.67	3692.906	4598.865
Stddev	12.294	170.8	63.68	6.624	12.113
%RSD	.2899834	.1463200	.3259814	.1793698	.2634001
#1	4231.944	116503.5	19462.83	3685.257	4589.999
#2	4253.622	116801.3	19563.32	3696.671	4612.667
#3	4232.735	116797.1	19580.86	3696.789	4593.929

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159617BL Acquired: 3/18/2024 19:56:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011051**	**-.000539**	**.0007865**	**-.000729**	**-.000046**	**.0018850**	**-.002219**
Stddev	.0019343	.000258	.0008102	.001787	.001208	.0054036	.000164
%RSD	175.0282	47.82661	103.0161	245.1778	2647.457	286.6637	7.407392
#1	-.000673	-.000685	.0010454	-.002219	-.000967	-.004034	-.002408
#2	.003165	-.000241	.0014357	-.001220	.001322	.006554	-.002137
#3	.000824	-.000690	-.000122	.001253	-.000492	.003135	-.002111

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000107**	**.0000396**	**.0051606**	**-.000047**	**.0000048**	**.0002147**	**.0006263**
Stddev	.000082	.0000367	.0075554	.000139	.0000868	.0003263	.0030873
%RSD	76.72002	92.77089	146.4049	293.4622	1795.165	152.0175	492.9608
#1	-.000056	.0000226	-.001104	.000029	-.000080	.0005767	-.001340
#2	-.000202	.0000817	.013551	.000037	.000094	.0001240	-.000965
#3	-.000063	.0000145	.003035	-.000207	.000001	-.000057	.004185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000071**	**-.011309**	**-.000097**	**.0005850**	**.0437389**	**-.001606**	**-.000082**
Stddev	.000127	.008277	.000063	.0001939	.0012212	.000560	.000063
%RSD	179.3687	73.18780	65.15003	33.14841	2.792010	34.84849	77.44586
#1	.000068	-.020755	-.000089	.0005892	.0423495	-.001999	-.000142
#2	-.000098	-.007846	-.000038	.0003890	.0442248	-.001853	-.000016
#3	-.000182	-.005327	-.000164	.0007768	.0446423	-.000965	-.000087

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208777**	**-.010948**	**-.000239**	**-.000096**	**.0011630**	**.0050113**	**.0021642**
Stddev	.0114102	.000328	.000146	.000374	.0005305	.0008844	.0006231
%RSD	54.65253	2.993554	61.19070	391.4717	45.61081	17.64897	28.79104
#1	.0293949	-.010579	-.000370	.000291	.0013629	.0048894	.0015340
#2	.0079136	-.011205	-.000266	-.000456	.0005616	.0059504	.0021788
#3	.0253245	-.011060	-.000081	-.000122	.0015645	.0041941	.0027800

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159617BL Acquired: 3/18/2024 19:56:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0018511	-.002014	-.000107	z *****	
Stddev	.0026082	.000821	.000011	-----	
%RSD	140.9041	40.73647	10.71458	-----	
#1	.0048023	-.002674	-.000099	z 1597.583	
#2	-.000145	-.001096	-.000101	z 1608.020	
#3	.000895	-.002274	-.000120	z 1605.213	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4433.559	120116.3	20178.38	3839.861	4788.563
Stddev	21.386	503.7	23.52	17.149	23.487
%RSD	.4823709	.4193783	.1165579	.4466076	.4904729
#1	4408.870	119539.3	20159.86	3825.759	4761.453
#2	4446.362	120468.6	20170.44	3834.873	4802.748
#3	4445.445	120340.8	20204.84	3858.951	4801.489

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159617BS Acquired: 3/18/2024 20:01:20 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8096875**	**1.840690**	**.8994870**	**1.980444**	**.7998853**	**1.932282**
Stddev	.0249427	.073519	.0272863	.068031	.0261240	.005997
%RSD	3.080533	3.994113	3.033540	3.435131	3.265963	.3103601
#1	.8374657	1.905089	.9295856	2.053856	.8291557	1.925782
#2	.8023873	1.856393	.8925059	1.967951	.7915664	1.937599
#3	.7892094	1.760588	.8763694	1.919526	.7789339	1.933466

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2056493**	**.1949693**	**.1741298**	**1.003980**	**.3764406**	**.1697390**
Stddev	.0007086	.0005801	.0046652	.004331	.0017767	.0050443
%RSD	.3445646	.2975197	2.679139	.4313802	.4719614	2.971787
#1	.2052073	.1943899	.1792783	.999469	.3749775	.1752382
#2	.2052741	.1955501	.1729279	1.008106	.3759267	.1686519
#3	.2064666	.1949678	.1701831	1.004366	.3784176	.1653269

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2996611**	**2.728744**	**.2055581**	**1.897318**	**.4398777**	**.0699897**
Stddev	.0092591	.012715	.0006856	.003394	.0121767	.0003950
%RSD	3.089845	.4659648	.3335101	.1788883	2.768191	.5643947
#1	.3100024	2.731208	.2047786	1.900076	.4533649	.0700446
#2	.2968404	2.714977	.2060674	1.898350	.4365752	.0695701
#3	.2921404	2.740046	.2058284	1.893527	.4296929	.0703544

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.771306**	**.2965514**	**.2066659**	**9.072207**	**.3096215**	**.4100336**
Stddev	.016351	.0019570	.0012996	.058607	.0006934	.0135367
%RSD	.5900247	.6599079	.6288298	.6460065	.2239459	3.301361
#1	2.774072	.2946181	.2062431	9.070804	.3089308	.4248642
#2	2.753748	.2965051	.2081242	9.014314	.3103175	.4068937
#3	2.786098	.2985312	.2056304	9.131502	.3096162	.3983427

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159617BS Acquired: 3/18/2024 20:01:20 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6061718	.2073940	F .5877638	4.855235	F -.000073	.1965263
Stddev	.0186042	.0013272	.0067904	.138960	.000990	.0011618
%RSD	3.069126	.6399376	1.155293	2.862067	1359.981	.5911695
#1	.6264823	.2061058	.5808275	5.010666	-.001071	.1961719
#2	.6020771	.2087570	.5880657	4.812029	-.000057	.1955831
#3	.5899562	.2073192	.5943983	4.743011	.000910	.1978241

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2166243	z *****
Stddev	.0005441	-----
%RSD	.2511593	-----
#1	.2160676	z 14004.63
#2	.2166504	z 13994.45
#3	.2171548	z 14037.16

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4332.175	118336.2	19084.37	3775.732	4520.918
Stddev	129.523	152.3	85.13	24.978	125.638
%RSD	2.989786	.1287138	.4460734	.6615348	2.779047
#1	4188.903	118217.3	19094.02	3766.263	4381.588
#2	4366.651	118283.5	18994.83	3756.874	4555.579
#3	4440.972	118507.9	19164.27	3804.060	4625.587

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10 Acquired: 3/18/2024 20:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0403184	-.032114	.1185583	-.025145	.0047382	133.0987
Stddev	.0013106	.002062	.0022926	.002611	.0004900	.3975
%RSD	3.250673	6.421232	1.933693	10.38426	10.34182	.2986576
#1	.0388687	-.030861	.1161934	-.025978	.0041755	132.7133
#2	.0406673	-.034494	.1187108	-.022219	.0049677	133.5073
#3	.0414194	-.030986	.1207708	-.027238	.0050713	133.0756

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5983362	.0094850	.0044753	15.47685	.2325261	.0963602
Stddev	.0018096	.0001485	.0002123	.03569	.0018035	.0005081
%RSD	.3024420	1.565960	4.742699	.2305814	.7756225	.5272371
#1	.5963708	.0093840	.0043732	15.51605	.2312027	.0957850
#2	.5999333	.0096556	.0047193	15.44624	.2345803	.0967478
#3	.5987046	.0094156	.0043334	15.46828	.2317953	.0965477

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1558950	219.9348	5.035830	25.49516	.1891918	.0115284
Stddev	.0000162	.5091	.005930	.01333	.0009458	.0003054
%RSD	.0104113	.2314724	.1177545	.0522764	.4999233	2.649179
#1	.1559047	220.2735	5.042463	25.50819	.1881310	.0118402
#2	.1558762	219.3493	5.031042	25.48156	.1899471	.0115151
#3	.1559039	220.1815	5.033984	25.49574	.1894974	.0112298

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.433114	.2355336	.5500125	8.290603	.3283312	.0008472
Stddev	.017670	.0009617	.0004043	.033825	.0008419	.0000475
%RSD	.7262342	.4082960	.0735019	.4079930	.2564328	5.612633
#1	2.414093	.2365931	.5503546	8.255495	.3291819	.0008641
#2	2.436232	.2347159	.5495664	8.293334	.3274983	.0008841
#3	2.449018	.2352919	.5501167	8.322980	.3283136	.0007935

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10 Acquired: 3/18/2024 20:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041064	2.337697	F 10.77851	3.872593	.3916670	.1013659
Stddev	.0005559	.004252	.01588	.023304	.0033216	.0006494
%RSD	13.53827	.1818772	.1473367	.6017572	.8480699	.6406395
#1	.0047444	2.336014	10.79680	3.864210	.3900452	.1015545
#2	.0038489	2.334544	10.77050	3.854640	.3894678	.1006431
#3	.0037260	2.342532	10.76823	3.898928	.3954879	.1019001

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.132585	z *****
Stddev	.000722	-----
%RSD	.5443403	-----
#1	-.133324	z 6211.205
#2	-.131882	z 6218.413
#3	-.132549	z 6206.754

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4517.842	126927.4	22627.90	4016.628	3903.202
Stddev	7.839	154.4	41.25	17.801	6.755
%RSD	.1735018	.1216406	.1823167	.4431798	.1730532
#1	4508.837	127101.8	22650.40	4006.823	3910.533
#2	4521.556	126871.9	22580.28	4037.176	3901.843
#3	4523.134	126808.4	22653.01	4005.886	3897.230

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10DUP Acquired: 3/18/2024 20:09:44 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0391182	-.030063	.1196552	-.024637	.0039506	133.4111
Stddev	.0006767	.001820	.0013245	.000812	.0025327	.1369
%RSD	1.729821	6.055240	1.106936	3.293912	64.10898	.1025995
#1	.0398630	-.028011	.1211452	-.025528	.0031693	133.4067
#2	.0385413	-.031484	.1186116	-.023939	.0019006	133.2764
#3	.0389502	-.030695	.1192088	-.024445	.0067819	133.5501

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6009477	.0094666	.0046877	15.25044	.2307704	.0955007
Stddev	.0005390	.0000433	.0002286	.07275	.0012221	.0002957
%RSD	.0896868	.4570117	4.876324	.4770152	.5295601	.3095851
#1	.6003299	.0095165	.0044367	15.28731	.2320690	.0951597
#2	.6013215	.0094440	.0047427	15.16664	.2305992	.0956851
#3	.6011917	.0094393	.0048838	15.29737	.2296429	.0956574

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1541186	218.3842	5.036310	25.46392	.1883963	.0114708
Stddev	.0012721	.4141	.023338	.10463	.0004199	.0003372
%RSD	.8253793	.1896082	.4633865	.4109028	.2228766	2.939258
#1	.1528291	218.5906	5.049623	25.53251	.1885684	.0115350
#2	.1541543	217.9075	5.009363	25.34349	.1887028	.0111062
#3	.1553725	218.6546	5.049944	25.51576	.1879177	.0117713

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.291759	.2346420	.4929273	8.180742	.3144159	.0010027
Stddev	.013918	.0011244	.0007577	.056602	.0015943	.0001366
%RSD	.6072915	.4791760	.1537169	.6918954	.5070564	13.62601
#1	2.276261	.2359401	.4934402	8.128156	.3150285	.0010275
#2	2.303190	.2339713	.4920570	8.240648	.3156129	.0011251
#3	2.295827	.2340147	.4932847	8.173422	.3126062	.0008553

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10DUP Acquired: 3/18/2024 20:09:44 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040002	2.342818	F 10.87803	3.839676	.3076235	.1023909
Stddev	.0003690	.009255	.00648	.025056	.0035240	.0009777
%RSD	9.224941	.3950391	.0596143	.6525682	1.145541	.9549054
#1	.0043037	2.344432	10.87080	3.812608	.3036386	.1025453
#2	.0041075	2.332862	10.88333	3.844359	.3103290	.1032822
#3	.0035895	2.351159	10.87996	3.862061	.3089029	.1013451

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.130883	z *****
Stddev	.000596	-----
%RSD	.4555249	-----
#1	-.131290	z 6203.885
#2	-.130198	z 6167.931
#3	-.131160	z 6163.163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4501.189	125971.8	22292.71	3957.222	3903.736
Stddev	17.232	70.4	99.38	18.510	10.557
%RSD	.3828313	.0558554	.4457834	.4677649	.2704396
#1	4520.182	126017.7	22235.12	3966.235	3915.914
#2	4496.826	126006.9	22407.46	3969.499	3897.180
#3	4486.557	125890.8	22235.54	3935.931	3898.113

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10LX5 Acquired: 3/18/2024 20:13:56 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081324**	**-.008002**	**.0210456**	**-.002525**	**.0000880**	**28.11406**	**.1295934**
Stddev	.0006845	.000814	.0001269	.000629	.0002562	.04421	.0001853
%RSD	8.417255	10.17433	.6028743	24.91287	291.1745	.1572471	.1429961
#1	.0084100	-.007171	.0210074	-.001978	.0003728	28.06306	.1294688
#2	.0086345	-.008798	.0211872	-.003213	-.000124	28.14149	.1295050
#3	.0073527	-.008038	.0209422	-.002385	.000015	28.13764	.1298063

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018451**	**-.000591**	**3.422586**	**.0506177**	**.0168028**	**.0333090**	**46.60230**
Stddev	.0000154	.000097	.009648	.0000863	.0000980	.0004539	.07074
%RSD	.8374105	16.45600	.2819037	.1705954	.5832144	1.362787	.1517870
#1	.0018546	-.000501	3.426255	.0506438	.0167146	.0329238	46.60129
#2	.0018534	-.000578	3.411641	.0505213	.0167854	.0338094	46.53207
#3	.0018272	-.000695	3.429861	.0506880	.0169083	.0331936	46.67354

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.121710**	**5.443850**	**.0341883**	**.0030205**	**.4963910**	**.0507386**	**.1142178**
Stddev	.002802	.023607	.0001452	.0001511	.0021615	.0017046	.0007987
%RSD	.2497911	.4336395	.4248177	5.002288	.4354435	3.359502	.6992781
#1	1.119664	5.438867	.0340208	.0029068	.4960285	.0518695	.1139856
#2	1.124904	5.469551	.0342793	.0031920	.4944338	.0515683	.1135609
#3	1.120563	5.423133	.0342647	.0029627	.4987109	.0487781	.1151068

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.674364**	**.0499122**	**-.000105**	**-.007917**	**.5133808**	**2.182470**	**.6586145**
Stddev	.005497	.0004466	.000177	.000701	.0017818	.002845	.0044807
%RSD	.3283072	.8947570	169.4695	8.848099	.3470803	.1303672	.6803262
#1	1.679983	.0500548	.000040	-.008262	.5136064	2.185711	.6591925
#2	1.668998	.0494117	-.000052	-.007111	.5150392	2.181317	.6627781
#3	1.674110	.0502700	-.000302	-.008379	.5114969	2.180382	.6538728

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10LX5 Acquired: 3/18/2024 20:13:56 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0613491	.0184730	-.027396	z *****
Stddev	.0010823	.0006570	.000023	-----
%RSD	1.764128	3.556617	.0828409	-----
#1	.0621634	.0192311	-.027396	z 2499.500
#2	.0601210	.0181198	-.027373	z 2516.992
#3	.0617630	.0180682	-.027418	z 2499.950

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4202.742	118641.4	19951.45	3645.773	4376.669
Stddev	3.647	338.2	20.41	25.657	12.345
%RSD	.0867766	.2850809	.1023192	.7037415	.2820719
#1	4206.427	118630.9	19950.58	3641.400	4390.325
#2	4199.134	118984.8	19931.48	3673.336	4373.383
#3	4202.664	118308.6	19972.28	3622.584	4366.299

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10MS Acquired: 3/18/2024 20:18:16 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7967559	1.753074	.9976221	1.809196	.7382091	134.6994
Stddev	.0038294	.030711	.0027455	.000744	.0051170	.2434
%RSD	.4806208	1.751839	.2752099	.0411299	.6931640	.1806898
#1	.7994826	1.738694	.9944584	1.809049	.7323283	134.4233
#2	.7923779	1.788337	.9993815	1.810003	.7416447	134.7917
#3	.7984071	1.732191	.9990263	1.808537	.7406544	134.8831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7921730	.1744844	.1836042	16.21091	.5447170	.2665127
Stddev	.0032087	.0007217	.0007916	.03110	.0003137	.0010702
%RSD	.4050448	.4136381	.4311237	.1918623	.0575828	.4015579
#1	.7885777	.1743819	.1827072	16.24619	.5445396	.2652870
#2	.7931953	.1752519	.1839011	16.18746	.5450791	.2669888
#3	.7947459	.1738194	.1842044	16.19909	.5445321	.2672622

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4115797	220.4247	5.211127	27.01315	.6323916	.0770140
Stddev	.0006982	1.2634	.014911	.12719	.0018500	.0001935
%RSD	.1696468	.5731476	.2861444	.4708539	.2925468	.2512548
#1	.4107783	221.7844	5.228343	27.14888	.6303691	.0768485
#2	.4119046	219.2872	5.202301	26.99388	.6328071	.0769667
#3	.4120564	220.2026	5.202737	26.89669	.6339985	.0772267

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.014862	.4906851	.6815887	17.57302	.5860329	.3622862
Stddev	.024517	.0036684	.0026702	.10626	.0064702	.0006263
%RSD	.4888798	.7476025	.3917539	.6046687	1.104073	.1728662
#1	4.993509	.4945980	.6785062	17.46934	.5922021	.3623816
#2	5.009441	.4901336	.6830704	17.56805	.5792987	.3616178
#3	5.041635	.4873236	.6831894	17.68168	.5865980	.3628594

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10MS Acquired: 3/18/2024 20:18:16 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6093717	2.561550	F 12.63729	8.739763	.2871278	.2825887
Stddev	.0013545	.005051	.04399	.052174	.0055207	.0024443
%RSD	.2222809	.1971672	.3480864	.5969699	1.922749	.8649665
#1	.6108541	2.565579	12.67040	8.763715	.2926817	.2798106
#2	.6090626	2.563186	12.58738	8.679914	.2816409	.2835459
#3	.6081984	2.555884	12.65410	8.775661	.2870608	.2844095

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0661040	z *****
Stddev	.0021185	-----
%RSD	3.204784	-----
#1	.0636746	z 17131.60
#2	.0675662	z 17160.32
#3	.0670714	z 17150.58

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4386.796	123219.3	21742.78	3812.554	3842.017
Stddev	17.339	170.2	54.25	16.330	14.979
%RSD	.3952610	.1380966	.2494948	.4283140	.3898668
#1	4388.086	123198.6	21779.51	3819.045	3849.485
#2	4403.454	123398.9	21680.47	3824.640	3851.795
#3	4368.847	123060.5	21768.36	3793.977	3824.773

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10MSD Acquired: 3/18/2024 20:22:22 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7889724**	**1.781864**	**.9927867**	**1.791569**	**.7337231**	**134.7832**
Stddev	.0037133	.028638	.0021459	.008974	.0020603	.2073
%RSD	.4706461	1.607210	.2161497	.5008942	.2807986	.1537710
#1	.7859480	1.761217	.9903162	1.786562	.7355237	135.0225
#2	.7878523	1.814558	.9941875	1.801930	.7341694	134.6646
#3	.7931167	1.769818	.9938564	1.786217	.7314763	134.6624

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7855561**	**.1770749**	**.1841817**	**16.12003**	**.5401475**	**.2651672**
Stddev	.0008733	.0010079	.0004009	.04376	.0029561	.0007138
%RSD	.1111752	.5692113	.2176489	.2714344	.5472688	.2691949
#1	.7863588	.1772988	.1837243	16.07166	.5399010	.2644310
#2	.7846261	.1779521	.1843491	16.15685	.5432191	.2652143
#3	.7856833	.1759739	.1844717	16.13158	.5373224	.2658563

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4069443**	**213.0340**	**5.214789**	**27.16250**	**.6300371**	**.0752058**
Stddev	.0016308	1.1941	.015585	.02818	.0018750	.0001328
%RSD	.4007375	.5605034	.2988540	.1037544	.2975990	.1765382
#1	.4062644	211.9671	5.196833	27.13057	.6294013	.0750536
#2	.4057635	212.8111	5.224804	27.18390	.6285627	.0752982
#3	.4088050	214.3238	5.222729	27.17304	.6321473	.0752655

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.859426**	**.4855046**	**.6667612**	**16.91850**	**.5429279**	**.3615539**
Stddev	.032322	.0006262	.0028658	.08214	.0048363	.0008517
%RSD	.6651400	.1289857	.4298156	.4855067	.8907876	.2355704
#1	4.847676	.4849742	.6662985	16.86821	.5376162	.3607491
#2	4.834622	.4853442	.6641549	16.87400	.5440903	.3614667
#3	4.895979	.4861955	.6698303	17.01329	.5470770	.3624458

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10MSD Acquired: 3/18/2024 20:22:22 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6102995	2.535527	F 11.51331	8.692900	.2851795	.2833499
Stddev	.0006697	.007788	.05613	.021658	.0052610	.0001516
%RSD	.1097270	.3071598	.4874926	.2491412	1.844802	.0534908
#1	.6097191	2.527794	11.48901	8.686574	.2801114	.2831836
#2	.6110322	2.543369	11.47343	8.675110	.2906143	.2834803
#3	.6101473	2.535418	11.57749	8.717016	.2848128	.2833859

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0710579	z *****
Stddev	.0008371	-----
%RSD	1.178116	-----
#1	.0718551	z 17216.20
#2	.0711327	z 17246.45
#3	.0701858	z 17188.12

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4408.802	124729.2	21263.69	3863.524	3833.514
Stddev	10.705	485.4	23.76	43.219	10.304
%RSD	.2428025	.3891500	.1117344	1.118643	.2687826
#1	4409.988	124994.3	21276.92	3875.199	3835.277
#2	4418.865	125024.3	21236.26	3899.705	3842.823
#3	4397.554	124169.0	21277.89	3815.666	3822.443

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10A Acquired: 3/18/2024 20:26:28 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7836684**	**1.742151**	**.9859807**	**1.783007**	**.7275203**	**134.3164**
Stddev	.0018661	.015801	.0025882	.005156	.0029109	.1736
%RSD	.2381284	.9069541	.2625033	.2891989	.4001050	.1292386
#1	.7816857	1.754043	.9834949	1.782132	.7260143	134.2254
#2	.7839289	1.724222	.9857868	1.778344	.7308756	134.2072
#3	.7853906	1.748187	.9886605	1.788545	.7256711	134.5165

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7838186**	**.1755715**	**.1827363**	**15.99991**	**.5430689**	**.2641669**
Stddev	.0012969	.0005490	.0006437	.01577	.0005734	.0008580
%RSD	.1654646	.3126737	.3522642	.0985898	.1055814	.3247757
#1	.7827655	.1754252	.1820180	15.99937	.5436283	.2631784
#2	.7834231	.1761788	.1829299	16.01594	.5430959	.2647183
#3	.7852673	.1751106	.1832610	15.98441	.5424825	.2646040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4043816**	**214.9449**	**5.173227**	**26.89603**	**.6258689**	**.0750381**
Stddev	.0013498	.3931	.005166	.09897	.0009689	.0001079
%RSD	.3337942	.1828784	.0998611	.3679571	.1548087	.1438167
#1	.4036083	215.3880	5.172203	26.93113	.6249399	.0749994
#2	.4035963	214.6379	5.178829	26.97265	.6257936	.0751601
#3	.4059402	214.8089	5.168650	26.78429	.6268733	.0749549

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.899680**	**.4851616**	**.6674885**	**17.12447**	**.5601691**	**.3601689**
Stddev	.014883	.0014355	.0023038	.10252	.0018107	.0004230
%RSD	.3037578	.2958810	.3451382	.5986759	.3232452	.1174322
#1	4.911495	.4867768	.6694341	17.10640	.5622511	.3600179
#2	4.882965	.4846765	.6680868	17.03219	.5589616	.3598422
#3	4.904581	.4840315	.6649447	17.23483	.5592948	.3606466

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-10A Acquired: 3/18/2024 20:26:28 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6113619	2.543783	F 12.50318	8.611313	.2864529	.2811602
Stddev	.0032629	.007249	.07600	.012444	.0051211	.0004733
%RSD	.5337072	.2849820	.6078742	.1445034	1.787750	.1683252
#1	.6077187	2.550139	12.58498	8.616517	.2805431	.2816393
#2	.6123517	2.545321	12.48980	8.620310	.2895826	.2811482
#3	.6140152	2.535888	12.43475	8.597112	.2892331	.2806930

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0677777	z *****
Stddev	.0009815	-----
%RSD	1.448041	-----
#1	.0666870	z 17204.03
#2	.0680566	z 17142.49
#3	.0685896	z 17157.16

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4442.568	124453.5	21575.58	3899.154	3857.670
Stddev	2.508	257.0	26.87	7.860	6.878
%RSD	.0564576	.2065348	.1245569	.2015942	.1782941
#1	4445.463	124361.3	21606.40	3893.049	3865.438
#2	4441.182	124744.0	21563.32	3908.024	3852.353
#3	4441.058	124255.3	21557.02	3896.390	3855.219

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-11 Acquired: 3/18/2024 20:30:34 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462307	-.031757	.1127570	-.024816	.0041775	131.6457	.7272478
Stddev	.0011452	.001879	.0006789	.002501	.0014098	.0810	.0009024
%RSD	2.477115	5.918180	.6020439	10.07958	33.74812	.0615639	.1240809
#1	.0471554	-.029847	.1124874	-.022003	.0057954	131.7228	.7279326
#2	.0449497	-.033604	.1135293	-.026790	.0035243	131.5612	.7262253
#3	.0465870	-.031820	.1122544	-.025656	.0032127	131.6531	.7275855

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094156	.0041378	15.83745	.1468940	.0941588	.1556107	219.9108
Stddev	.0000526	.0001786	.03940	.0005248	.0002564	.0006926	.9601
%RSD	.5589911	4.315674	.2487509	.3572623	.2722582	.4451139	.4365868
#1	.0094730	.0039356	15.79425	.1465113	.0939428	.1553166	218.8105
#2	.0093697	.0042041	15.84669	.1474923	.0940913	.1551136	220.3435
#3	.0094040	.0042739	15.87140	.1466784	.0944421	.1564018	220.5785

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.208312	29.77759	.1709594	.0127239	1.294165	.2361154	.5463929
Stddev	.010876	.07242	.0005211	.0003335	.015277	.0008118	.0013563
%RSD	.1751765	.2431919	.3048190	2.620877	1.180443	.3438250	.2482258
#1	6.195896	29.69415	.1709243	.0127159	1.278992	.2351949	.5450377
#2	6.212890	29.81450	.1704566	.0130613	1.293959	.2364219	.5463907
#3	6.216151	29.82411	.1714971	.0123945	1.309544	.2367293	.5477503

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.845364	.3423764	-.000041	.0024734	2.253494	4.978078	4.591242
Stddev	.011507	.0056171	.000266	.0005688	.003289	.024911	.027679
%RSD	.1300896	1.640621	656.4263	22.99666	.1459672	.5004205	.6028728
#1	8.849014	.3360181	.000058	.0018336	2.255839	4.957278	4.575911
#2	8.832475	.3444461	-.000342	.0029217	2.249734	5.005685	4.574621
#3	8.854603	.3466651	.000163	.0026650	2.254910	4.971272	4.623195

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1764-11 Acquired: 3/18/2024 20:30:34 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.4334039	.1110445	-.121130	z *****
Stddev	.0033250	.0001115	.000916	-----
%RSD	.7671772	.1003992	.7565304	-----
#1	.4296915	.1109547	-.120080	z 5901.600
#2	.4344120	.1110095	-.121540	z 5862.787
#3	.4361081	.1111693	-.121770	z 5858.791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4528.027	125071.7	22832.65	3908.331	3863.942
Stddev	6.438	379.5	32.22	36.447	14.162
%RSD	.1421896	.3034288	.1411040	.9325451	.3665169
#1	4535.424	125509.0	22867.73	3941.650	3875.178
#2	4524.973	124828.8	22804.39	3913.936	3868.613
#3	4523.684	124877.2	22825.82	3869.406	3848.034

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1767-01 Acquired: 3/18/2024 20:34:48 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0761209	-.051348	.3327797	-.047141	.0068114	181.5598	1.282963
Stddev	.0032723	.002647	.0038161	.004548	.0020942	.7491	.001448
%RSD	4.298778	5.155319	1.146746	9.648757	30.74562	.4126107	.1128669
#1	.0794720	-.052658	.3339189	-.043857	.0090445	182.4243	1.281311
#2	.0729336	-.053085	.3285237	-.052332	.0064985	181.1029	1.283564
#3	.0759571	-.048302	.3358965	-.045233	.0048913	181.1521	1.284013

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157073	.0156873	424.4772	.2833042	.1481668	.1904525	301.5077
Stddev	.0000846	.0001697	1.3586	.0021079	.0006374	.0010202	.0906
%RSD	.5385172	1.081442	.3200612	.7440489	.4301837	.5356617	.0300552
#1	.0158033	.0158383	423.0782	.2854243	.1476465	.1895425	301.4679
#2	.0156749	.0155038	424.5621	.2812087	.1488778	.1902598	301.4438
#3	.0156437	.0157200	425.7914	.2832797	.1479763	.1915554	301.6114

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.313135	324.6545	.3252836	.0141867	4.931282	.4032801	1.049698
Stddev	.014088	1.2420	.0012357	.0001796	.011617	.0007877	.000982
%RSD	.3266337	.3825607	.3798806	1.266013	.2355869	.1953169	.0935218
#1	4.297961	323.3137	.3241713	.0141242	4.940619	.4023708	1.049926
#2	4.315646	324.8844	.3250659	.0140467	4.934955	.4037504	1.050546
#3	4.325799	325.7656	.3266137	.0143892	4.918272	.4037192	1.048622

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.46988	.4481028	.0012881	.0059867	1.861656	9.231191	5.185723
Stddev	.06161	.0031346	.0003288	.0010522	.008564	.009629	.018697
%RSD	.3335746	.6995258	25.52283	17.57524	.4600156	.1043146	.3605515
#1	18.53644	.4517180	.0016658	.0054300	1.851783	9.240250	5.164636
#2	18.45836	.4464491	.0010665	.0072003	1.866116	9.232244	5.192255
#3	18.41485	.4461414	.0011320	.0053298	1.867070	9.221078	5.200277

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1767-01 Acquired: 3/18/2024 20:34:48 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	2.905807	.6031907	.2571356	z *****	
Stddev	.007601	.0016374	.0013533	-----	
%RSD	.2615696	.2714624	.5262976	-----	
#1	2.907092	.6022005	.2556192	z 6023.341	
#2	2.897645	.6050807	.2575672	z 6015.213	
#3	2.912683	.6022908	.2582205	z 6010.275	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3814.038	110291.8	20237.46	3342.471	3188.375
Stddev	7.523	90.9	65.49	11.489	6.875
%RSD	.1972427	.0824142	.3236265	.3437407	.2156423
#1	3814.453	110187.5	20302.36	3351.859	3192.076
#2	3821.345	110354.3	20238.63	3329.659	3192.608
#3	3806.316	110333.6	20171.39	3345.895	3180.442

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV03 Acquired: 3/18/2024 21:09:04 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.195061**	**4.910334**	**4.744341**	**5.230198**	**5.271452**	**9.991301**
Stddev	.057408	.025538	.048919	.057796	.061052	.006576
%RSD	1.105055	.5200849	1.031094	1.105035	1.158156	.0658128
#1	5.158805	4.925180	4.708432	5.198995	5.238683	9.998649
#2	5.165128	4.924978	4.724534	5.194709	5.233782	9.985970
#3	5.261250	4.880846	4.800057	5.296888	5.341892	9.989283

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.97544**	**.2402729**	**2.403268**	**25.34512**	**.9529986**	**2.360505**
Stddev	.12127	.0011439	.024607	.08163	.0013358	.025527
%RSD	1.104948	.4761055	1.023902	.3220574	.1401713	1.081424
#1	10.91947	.2394668	2.385012	25.32282	.9515764	2.341485
#2	10.89226	.2397698	2.393539	25.27697	.9542269	2.350514
#3	11.11459	.2415822	2.431252	25.43558	.9531925	2.389517

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.278884**	**5.039972**	**2.610859**	**24.87977**	**2.338107**	**1.265462**
Stddev	.012922	.017589	.008866	.05495	.024683	.002924
%RSD	1.010420	.3489962	.3395639	.2208600	1.055678	.2310812
#1	1.271204	5.041377	2.612403	24.85955	2.320324	1.268298
#2	1.271646	5.056817	2.601323	24.83780	2.327708	1.265630
#3	1.293803	5.021722	2.618852	24.94197	2.366287	1.262457

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.83743**	**2.533333**	**2.664519**	**25.98583**	**5.306908**	**5.187388**
Stddev	.14342	.010810	.014662	.12560	.024363	.053370
%RSD	.5550746	.4267202	.5502573	.4833595	.4590874	1.028845
#1	25.90485	2.533048	2.675400	25.99871	5.310182	5.159719
#2	25.93470	2.522668	2.670311	26.10450	5.281074	5.153533
#3	25.67272	2.544283	2.647846	25.85428	5.329469	5.248911

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV03 Acquired: 3/18/2024 21:09:04 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.298114	5.364770	4.610883	F 4.260224	F 4.116159	5.174056
Stddev	.037878	.004121	.032146	.051096	.030712	.009016
%RSD	.8812656	.0768138	.6971674	1.199379	.7461312	.1742586
#1	4.272808	5.366862	4.584025	4.217287	4.093663	5.179162
#2	4.279873	5.360023	4.646500	4.246649	4.103665	5.179360
#3	4.341661	5.367426	4.602123	4.316737	4.151149	5.163645

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F 5.546380	z *****
Stddev	.035673	-----
%RSD	.6431810	-----
#1	5.568644	z 1840.032
#2	5.505234	z 1847.208
#3	5.565262	z 1852.797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3832.750	106989.5	18446.39	3296.080	3987.569
Stddev	35.334	425.9	46.78	24.566	33.366
%RSD	.9218868	.3980746	.2535863	.7453175	.8367556
#1	3846.894	106638.6	18411.80	3271.971	4006.711
#2	3858.821	106866.4	18499.61	3295.189	4006.954
#3	3792.536	107463.3	18427.75	3321.079	3949.041

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB03 Acquired: 3/18/2024 21:13:24 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001267**	**.0003799**	**-.000049**	**-.001011**	**-.000373**	**-.001242**	**-.003352**
Stddev	.000644	.0012400	.000297	.002821	.000912	.002971	.000375
%RSD	50.80292	326.3614	607.8858	278.9593	244.4201	239.2291	11.18849
#1	-.001620	.0007841	-.000058	-.000562	.000646	-.004218	-.003414
#2	-.000524	.0013674	.000253	-.004030	-.001114	.001724	-.003692
#3	-.001657	-.001012	-.000342	.001558	-.000651	-.001232	-.002950

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000113**	**.0000494**	**.0056098**	**.0000536**	**-.000062**	**.0003254**	**-.000785**
Stddev	.000051	.0000469	.0014364	.0001673	.000068	.0002999	.002639
%RSD	44.91082	94.87797	25.60456	312.2587	109.5387	92.15800	336.1025
#1	-.000058	.0000685	.0040205	.0000182	-.000011	.0005694	-.001395
#2	-.000122	-.000004	.0059936	-.000093	-.000036	.0004161	-.003065
#3	-.000158	.000084	.0068152	.000236	-.000139	-.000009	.002105

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000077**	**-.011305**	**-.000139**	**.0008128**	**.0197688**	**-.001315**	**.0003241**
Stddev	.000124	.015883	.000068	.0001589	.0026130	.000279	.0001726
%RSD	160.4893	140.4883	48.94770	19.54642	13.21790	21.24314	53.26266
#1	-.000071	-.007504	-.000118	.0008833	.0226861	-.001586	.0004174
#2	.000043	-.028743	-.000085	.0009243	.0189770	-.001331	.0001249
#3	-.000205	.002332	-.000216	.0006309	.0176432	-.001028	.0004300

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071956**	**.0025187**	**-.000032**	**.0001418**	**.0055147**	**.0070360**	**.0055940**
Stddev	.0017790	.0008053	.000226	.0004438	.0008056	.0055087	.0012483
%RSD	24.72353	31.97141	699.6173	312.8943	14.60886	78.29350	22.31454
#1	.0074948	.0031593	.000221	-.000095	.0050072	.0015529	.0068124
#2	.0052860	.0016147	-.000212	-.000133	.0064437	.0069851	.0043179
#3	.0088060	.0027821	-.000106	.000654	.0050933	.0125699	.0056517

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB03 Acquired: 3/18/2024 21:13:24 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0004070	-.000599	.0000025	z *****	
Stddev	.0010343	.000711	.0000245	-----	
%RSD	254.1598	118.5860	976.8356	-----	
#1	-.000759	.000122	.0000116	z 1599.381	
#2	.000768	-.000622	-.000025	z 1579.496	
#3	.001212	-.001298	.000021	z 1594.437	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4095.710	112386.0	18070.01	3474.446	4617.853
Stddev	6.426	279.6	51.81	14.420	6.906
%RSD	.1569029	.2487422	.2866974	.4150322	.1495500
#1	4094.633	112081.0	18015.88	3467.839	4615.602
#2	4102.607	112447.1	18119.13	3464.514	4625.603
#3	4089.891	112630.0	18075.04	3490.986	4612.352

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1772-01 Acquired: 3/18/2024 21:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014836	-.003066	.0211914	-.002271	.0005991	1.220313	.1168405
Stddev	.0024034	.000532	.0012203	.000507	.0011214	.006260	.0007507
%RSD	161.9986	17.34700	5.758287	22.34296	187.1688	.5129914	.6424701
#1	.0041202	-.003655	.0224828	-.002826	.0001977	1.213085	.1159741
#2	.0009155	-.002621	.0210337	-.002158	.0018660	1.223999	.1172961
#3	-.000585	-.002922	.0200576	-.001830	-.000266	1.223855	.1172513

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003921	.0002245	4.656510	.0405557	.0027744	.0731923	20.59764
Stddev	.0000636	.0000543	.016094	.0003882	.0001080	.0003023	.03936
%RSD	16.22521	24.19730	.3456154	.9571743	3.893053	.4130171	.1910791
#1	.0004218	.0002867	4.638214	.0409537	.0028067	.0735410	20.57490
#2	.0003190	.0001861	4.668476	.0401781	.0028626	.0730310	20.64309
#3	.0004354	.0002008	4.662840	.0405353	.0026540	.0730048	20.57494

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1604197	.7662163	.0268373	.0018339	1.341269	.0047681	2.185705
Stddev	.0013958	.0172899	.0002386	.0000547	.007389	.0011396	.004680
%RSD	.8700836	2.256529	.8892208	2.980130	.5508769	23.90091	.2141028
#1	.1588107	.7463182	.0270174	.0018229	1.332843	.0049149	2.182985
#2	.1611420	.7747548	.0269279	.0017856	1.344323	.0058271	2.183021
#3	.1613062	.7775759	.0265667	.0018932	1.346641	.0035622	2.191108

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9716761	.1764626	.0272222	.0033894	.0926148	.1858708	1.281653
Stddev	.0131061	.0012078	.0001282	.0003656	.0011387	.0032975	.012874
%RSD	1.348810	.6844739	.4708406	10.78590	1.229468	1.774105	1.004470
#1	.9856573	.1763911	.0272938	.0029677	.0915627	.1893703	1.293814
#2	.9596693	.1752921	.0272987	.0036175	.0938238	.1854206	1.282976
#3	.9697016	.1777046	.0270743	.0035830	.0924581	.1828215	1.268168

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1772-01 Acquired: 3/18/2024 21:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	4.970385	.0028147	-.006003	z *****
Stddev	.012470	.0000831	.000061	-----
%RSD	.2508805	2.952730	1.017733	-----
#1	4.977068	.0027628	-.006060	z 1625.449
#2	4.978089	.0029106	-.006010	z 1620.132
#3	4.955999	.0027708	-.005939	z 1611.720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3963.125	111948.9	18427.94	3422.488	4496.264
Stddev	10.805	303.5	88.17	8.521	8.568
%RSD	.2726335	.2711274	.4784593	.2489773	.1905652
#1	3970.504	112277.4	18521.61	3429.263	4498.818
#2	3950.723	111890.6	18415.68	3425.280	4486.709
#3	3968.147	111678.8	18346.55	3412.921	4503.265

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1772-02 Acquired: 3/18/2024 21:22:13 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039544	-.001543	.0233263	-.002193	.0019581	8.677467	.1060189
Stddev	.0016348	.001129	.0010484	.001978	.0009799	.008207	.0004443
%RSD	41.34229	73.19815	4.494298	90.19124	50.04391	.0945820	.4190367
#1	.0021797	-.001924	.0231997	-.003763	.0015721	8.669431	.1056715
#2	.0042844	-.000272	.0223471	-.002844	.0030722	8.677135	.1065195
#3	.0053990	-.002432	.0244323	.000028	.0012299	8.685835	.1058658

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005535	.0000852	10.72124	.0391430	.0064294	.1065064	20.22022
Stddev	.0000736	.0001664	.02530	.0023605	.0000268	.0010311	1.04327
%RSD	13.29089	195.3533	.2360242	6.030450	.4168991	.9680813	5.159534
#1	.0004858	-.000107	10.73697	.0418651	.0064429	.1058821	21.42483
#2	.0006317	.000192	10.69205	.0379016	.0064467	.1059407	19.60816
#3	.0005429	.000170	10.73469	.0376622	.0063985	.1076965	19.62767

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2356107	4.039887	.0280180	.0023944	8.324487	.0320348	.7904997
Stddev	.0004432	.032312	.0004421	.0003081	.407810	.0013998	.0462578
%RSD	.1880975	.7998208	1.577928	12.86580	4.898916	4.369668	5.851721
#1	.2353673	4.046729	.0277134	.0023046	8.793272	.0323632	.8438837
#2	.2353425	4.004702	.0278156	.0021412	8.128686	.0332412	.7622603
#3	.2361222	4.068230	.0285251	.0027374	8.051504	.0305000	.7653550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.698868	.0370218	.0153365	-.002728	.5597646	.8278205	.3687641
Stddev	.086431	.0041356	.0002563	.000298	.0021632	.0412571	.0062397
%RSD	5.087559	11.17078	1.671378	10.90739	.3864451	4.983823	1.692057
#1	1.798603	.0417939	.0150811	-.002398	.5620149	.8749375	.3624842
#2	1.652156	.0344811	.0153346	-.002975	.5577006	.7981679	.3688454
#3	1.645845	.0347905	.0155937	-.002813	.5595785	.8103561	.3749628

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1772-02 Acquired: 3/18/2024 21:22:13 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	1.724528	.0073412	.0270257	z *****	
Stddev	.021035	.0003943	.0010349	-----	
%RSD	1.219765	5.371650	3.829433	-----	
#1	1.701155	.0069462	.0258307	z 1861.228	
#2	1.730491	.0073424	.0276130	z 1843.900	
#3	1.741938	.0077349	.0276334	z 1836.573	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4074.933	110086.6	18702.76	3368.884	4404.143
Stddev	31.550	5367.8	42.16	151.001	33.012
%RSD	.7742357	4.875963	.2253950	4.482230	.7495703
#1	4092.448	103889.2	18695.87	3195.686	4422.307
#2	4093.840	113269.8	18747.93	3472.893	4424.085
#3	4038.512	113100.8	18664.47	3438.073	4366.038

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1774-01 Acquired: 3/18/2024 21:26:34 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0642503	-.049720	.2598839	-.038167	.0043325	120.1835
Stddev	.0020035	.001937	.0015094	.002295	.0010034	.2788
%RSD	3.118282	3.895137	.5808066	6.012940	23.15976	.2320039
#1	.0647805	-.051387	.2606761	-.035885	.0049052	120.4767
#2	.0620350	-.047596	.2581433	-.038140	.0049185	120.1520
#3	.0659354	-.050179	.2608323	-.040475	.0031739	119.9217

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.526338	.0162817	.0117266	42.44233	.2038843	.1545531
Stddev	.003028	.0001856	.0002487	.03834	.0007445	.0006743
%RSD	.1983694	1.139693	2.120578	.0903391	.3651406	.4363097
#1	1.527559	.0164702	.0120061	42.40980	.2030543	.1539170
#2	1.528565	.0162756	.0115297	42.48460	.2044930	.1544820
#3	1.522890	.0160992	.0116441	42.43258	.2041057	.1552601

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1475812	296.7636	8.956768	63.03256	.3061250	.0161655
Stddev	.0010788	2.0358	.010655	.15014	.0010420	.0002539
%RSD	.7310012	.6859986	.1189635	.2381974	.3403983	1.570513
#1	.1468314	294.6699	8.969049	63.20145	.3053394	.0158745
#2	.1470946	296.8848	8.951284	62.91419	.3057286	.0163414
#3	.1488176	298.7361	8.949973	62.98205	.3073071	.0162807

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.286542	.2665281	.9849429	18.99945	.4158173	.0028093
Stddev	.014957	.0009387	.0021206	.12599	.0112990	.0005006
%RSD	.4551060	.3521814	.2153031	.6631490	2.717287	17.81781
#1	3.270414	.2658110	.9873216	18.86498	.4034732	.0022942
#2	3.289255	.2675905	.9832502	19.01860	.4183309	.0028398
#3	3.299957	.2661827	.9842570	19.11478	.4256477	.0032939

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1774-01 Acquired: 3/18/2024 21:26:34 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047183	1.953779	F 13.98651	7.616894	.3693575	.3496574
Stddev	.0003125	.005611	.05939	.020427	.0032640	.0005969
%RSD	6.623039	.2871726	.4246207	.2681778	.8836889	.1707028
#1	.0047382	1.960247	13.93759	7.600592	.3655943	.3503225
#2	.0043964	1.950871	13.96935	7.639808	.3710587	.3494811
#3	.0050204	1.950219	14.05259	7.610282	.3714194	.3491685

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.077274	z *****
Stddev	.002346	-----
%RSD	3.035922	-----
#1	-.075010	z 8585.400
#2	-.077117	z 8560.777
#3	-.079694	z 8549.022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4439.529	125603.6	21916.37	3828.551	3756.407
Stddev	22.412	543.0	78.32	13.688	15.409
%RSD	.5048217	.4323287	.3573605	.3575232	.4102140
#1	4450.596	126004.4	21826.28	3823.425	3767.400
#2	4454.255	125820.7	21968.33	3844.062	3763.027
#3	4413.737	124985.6	21954.48	3818.166	3738.794

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1774-02 Acquired: 3/18/2024 21:30:46 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0811769**	**-.059728**	**.6671947**	**-.037841**	**.0078932**	**149.6887**
Stddev	.0026871	.002443	.0000738	.005151	.0012326	.8043
%RSD	3.310126	4.090611	.0110590	13.61226	15.61636	.5373438
#1	.0814044	-.060024	.6671651	-.033492	.0087914	150.6117
#2	.0783834	-.057151	.6671404	-.043529	.0084002	149.3172
#3	.0837430	-.062010	.6672787	-.036500	.0064879	149.1373

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.081256**	**.0192705**	**.0144840**	**77.31716**	**.2062995**	**.1935137**
Stddev	.007393	.0002206	.0003724	.31031	.0002790	.0007225
%RSD	.1811474	1.144850	2.571045	.4013496	.1352294	.3733438
#1	4.082719	.0195243	.0144858	77.49468	.2064049	.1927995
#2	4.073241	.0191247	.0141107	77.49795	.2059832	.1934973
#3	4.087809	.0191625	.0148555	76.95885	.2065105	.1942442

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5804324**	**283.2231**	**16.67020**	**52.26592**	**.2749774**	**.0183127**
Stddev	.0023371	.7464	.03775	.10120	.0006440	.0003012
%RSD	.4026501	.2635294	.2264401	.1936322	.2341840	1.644794
#1	.5795585	283.4277	16.67809	52.15975	.2745152	.0186554
#2	.5786581	283.8458	16.70338	52.36129	.2747042	.0181927
#3	.5830805	282.3957	16.62913	52.27673	.2757130	.0180899

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.223724**	**.4641024**	**1.533818**	**10.39997**	**.4331450**	**.0030672**
Stddev	.036699	.0023980	.001767	.03434	.0029976	.0002627
%RSD	.3978770	.5166949	.1151896	.3301658	.6920562	8.564532
#1	9.239689	.4638514	1.535591	10.43649	.4319202	.0029710
#2	9.181746	.4618398	1.532058	10.36835	.4365611	.0028662
#3	9.249736	.4666161	1.533806	10.39507	.4309538	.0033644

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1774-02 Acquired: 3/18/2024 21:30:46 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0377420	1.348464	F 14.60402	6.278562	1.799891	.3007183
Stddev	.0011577	.001920	.01270	.010204	.011217	.0006440
%RSD	3.067424	.1423885	.0869529	.1625169	.6232281	.2141564
#1	.0364790	1.346933	14.59751	6.288869	1.789150	.3011443
#2	.0379939	1.347841	14.61866	6.268465	1.798991	.3010332
#3	.0387530	1.350618	14.59590	6.278353	1.811531	.2999775

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0587718	z *****
Stddev	.0011533	-----
%RSD	1.962327	-----
#1	.0589899	z 7017.537
#2	.0575250	z 6978.456
#3	.0598005	z 7031.867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4412.937	126411.5	21785.79	3845.035	3729.846
Stddev	12.378	200.4	43.17	10.356	13.403
%RSD	.2805018	.1584987	.1981554	.2693362	.3593500
#1	4415.207	126396.4	21773.77	3852.606	3732.739
#2	4424.023	126219.1	21749.90	3833.234	3741.566
#3	4399.581	126619.0	21833.69	3849.267	3715.232

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LR1 Acquired: 3/18/2024 21:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0652213	-.104749	-.035758	-.117236	-.003551	2089.517
Stddev	.0029643	.007390	.007649	.018610	.003548	19.685
%RSD	4.544976	7.054628	21.39183	15.87359	99.92952	.9420983
#1	.0657377	-.096223	-.035168	-.106454	-.007572	2110.351
#2	.0678934	-.109324	-.028421	-.106529	-.002219	2071.228
#3	.0620327	-.108698	-.043685	-.138725	-.000861	2086.973

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126450	.0128326	.0984802	1621.737	.0580630	.0694182
Stddev	.0001258	.0000817	.0071367	20.227	.0025396	.0000931
%RSD	.9952033	.6369846	7.246831	1.247262	4.373899	.1341121
#1	.0126499	.0129127	.1017805	1643.172	.0570393	.0694194
#2	.0127684	.0127493	.1033695	1619.054	.0561951	.0693245
#3	.0125168	.0128357	.0902907	1602.985	.0609547	.0695107

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.027712	F 1009.584	-.016474	1811.367	.0651241	.0319921
Stddev	.003219	44.430	.000260	19.384	.0010174	.0006272
%RSD	11.61666	4.400808	1.576829	1.070154	1.562227	1.960338
#1	-.026599	988.959	-.016454	1828.537	.0656733	.0326836
#2	-.025197	979.215	-.016743	1790.346	.0639501	.0314600
#3	-.031340	1060.578	-.016225	1815.217	.0657489	.0318328

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2089.757	.0074678	.1745765	F 1555.161	^ *****	.0038506
Stddev	113.960	.0029729	.0107649	68.838	-----	.0007462
%RSD	5.453283	39.80877	6.166279	4.426437	-----	19.37884
#1	2013.445	.0108032	.1660203	1516.378	^ -----	.0031884
#2	2035.074	.0065032	.1710460	1514.464	^ -----	.0037043
#3	2220.754	.0050971	.1866633	1634.641	^ -----	.0046591

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LR1 Acquired: 3/18/2024 21:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR1 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039537**	**-.025432**	**-.978197**	**.0598792**	**-.077294**	**.4455616**
Stddev	.0008608	.001756	.042863	.0011499	.004500	.0075634
%RSD	21.77235	6.903742	4.381867	1.920415	5.821311	1.697507
#1	.0030900	-.024851	-.968751	.0600077	-.081506	.4517541
#2	.0048116	-.024040	-.940844	.0586704	-.072554	.4477987
#3	.0039594	-.027405	-1.02500	.0609594	-.077823	.4371319

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**-.996002**	z *****
Stddev	.044529	-----
%RSD	4.470793	-----
#1	-.975386	z 4293.072
#2	-.965516	z 4305.345
#3	-1.04710	z 4349.860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2370.044**	**68729.40**	**14204.07**	**2020.184**	**2045.077**
Stddev	7.705	3050.21	69.24	89.713	7.067
%RSD	.3250905	4.437999	.4874980	4.440855	.3455559
#1	2375.583	70512.64	14128.40	2086.544	2051.615
#2	2373.304	70468.16	14219.52	2055.894	2046.038
#3	2361.245	65207.42	14264.28	1918.115	2037.579

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LR2 Acquired: 3/18/2024 21:45:24 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006228**	**-.047347**	kF **23.10898**	k **-.026794**	**-.028334**	k **.1089957**
Stddev	.003129	.001729	.09490	.003595	.001996	.0035938
%RSD	50.23964	3.651496	.4106609	13.41710	7.044657	3.297170
#1	-.008471	-.046531	k 23.00475	k -.022719	-.026533	k .1049806
#2	-.002654	-.049333	k 23.13183	k -.029518	-.027988	k .1100953
#3	-.007559	-.046178	k 23.19038	k -.028144	-.030480	k .1119112

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	**-.000279**	**-.006723**	**.1833840**	**.0115440**	**.0024650**
Stddev	-----	.000042	.000096	.0065515	.0000766	.0000577
%RSD	-----	15.06774	1.420995	3.572548	.6637795	2.342067
#1	^ -----	-.000232	-.006615	.1795187	.0114561	.0024154
#2	^ -----	-.000294	-.006761	.1909484	.0115969	.0024513
#3	^ -----	-.000312	-.006794	.1796849	.0115790	.0025284

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **256.8787**	**.2018143**	**47.12159**	**-.016095**	F **42.41488**	**.0114328**
Stddev	2.3379	.0037829	.26252	.011612	.16854	.0005262
%RSD	.9101112	1.874426	.5571116	72.14462	.3973688	4.602544
#1	k 254.3360	.1975420	46.85428	-.022235	42.22523	.0116192
#2	k 257.3650	.2047384	47.37904	-.023348	42.47191	.0108388
#3	k 258.9353	.2031624	47.13144	-.002702	42.54752	.0118404

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3995964**	**-.009638**	kF **19.51572**	**.3669598**	**-.012940**	**.0007843**
Stddev	.0068600	.001376	.04844	.0075787	.000320	.0001509
%RSD	1.716735	14.27571	.2481880	2.065268	2.469899	19.24215
#1	.3917247	-.009581	k 19.57058	.3644680	-.013201	.0007496
#2	.4027666	-.011042	k 19.49769	.3754707	-.012584	.0006538
#3	.4042981	-.008292	k 19.47888	.3609408	-.013036	.0009496

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: LR2 Acquired: 3/18/2024 21:45:24 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR2 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009270**	**-.027112**	**-.001983**	k **-2.86242**	**-.111132**	**-.000643**
Stddev	.000183	.001367	.004643	.02742	.003610	.000895
%RSD	1.972033	5.041694	234.0902	.9577809	3.248744	139.1797
#1	-.009134	-.026688	-.006130	k -2.83113	-.107411	-.001358
#2	-.009198	-.026007	.003032	k -2.87390	-.111364	.000361
#3	-.009478	-.028640	-.002852	k -2.88222	-.114620	-.000933

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.0013957**	z *****
Stddev	.0000425	-----
%RSD	3.044676	-----
#1	.0013958	z 1798.974
#2	.0014381	z 1792.990
#3	.0013532	z 1784.651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3700.474**	**108869.3**	**18207.60**	**3270.649**	**4099.279**
Stddev	21.217	138.9	88.52	20.140	19.912
%RSD	.5733504	.1275705	.4861486	.6157942	.4857479
#1	3710.807	109027.9	18255.83	3291.476	4113.942
#2	3714.545	108810.5	18105.45	3251.273	4107.285
#3	3676.070	108769.5	18261.53	3269.198	4076.610

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-01 Acquired: 3/18/2024 21:51:21 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004863**	**-.002997**	**.0006684**	**.0048064**	**-.000230**	**.2464533**	**.0316498**
Stddev	.001024	.001240	.0008076	.0014062	.001624	.0022626	.0005090
%RSD	21.05944	41.37038	120.8346	29.25620	706.7031	.9180599	1.608184
#1	-.005248	-.003478	.0010017	.0059270	-.001833	.2457632	.0318419
#2	-.003702	-.003925	-.000253	.0032285	-.000271	.2489806	.0320348
#3	-.005638	-.001589	.001256	.0052635	.001415	.2446162	.0310727

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000152**	**-.000070**	**42.55155**	**.0014536**	**.0000629**	**.0105119**	**.6746136**
Stddev	.000043	.000037	.30226	.0000795	.0000554	.0002647	.0034106
%RSD	27.94869	53.46078	.7103374	5.468805	88.15870	2.517733	.5055711
#1	-.000193	-.000099	42.23151	.0014736	-.000001	.0102974	.6716426
#2	-.000108	-.000028	42.83217	.0013660	.000095	.0108077	.6738604
#3	-.000155	-.000084	42.59097	.0015212	.000095	.0104306	.6783380

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2254664**	**6.166818**	**.0022762**	**.0007882**	**36.24903**	**-.000895**	**.1284454**
Stddev	.0003380	.013128	.0002725	.0002803	.26831	.000890	.0007232
%RSD	.1499126	.2128770	11.97116	35.55798	.7401877	99.49303	.5630759
#1	.2256060	6.156120	.0025887	.0006668	36.48918	-.001348	.1292591
#2	.2250810	6.181468	.0021517	.0005891	35.95943	.000131	.1282009
#3	.2257123	6.162867	.0020882	.0011087	36.29847	-.001467	.1278760

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.682331**	**.0024050**	**.0085673**	**-.007838**	**.0138034**	**3.156191**	**.1690628**
Stddev	.012762	.0007233	.0002035	.000183	.0005267	.014387	.0023846
%RSD	.3465692	30.07551	2.375937	2.338957	3.815738	.4558274	1.410479
#1	3.694870	.0025567	.0085927	-.007695	.0139778	3.149847	.1672538
#2	3.669358	.0030404	.0083522	-.007775	.0142207	3.146066	.1717650
#3	3.682765	.0016179	.0087569	-.008044	.0132116	3.172659	.1681695

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-01 Acquired: 3/18/2024 21:51:21 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	2.877920	.0129538	.1135203	z *****	
Stddev	.013161	.0011790	.0001942	-----	
%RSD	.4572979	9.101226	.1710587	-----	
#1	2.866695	.0133127	.1136257	z 1789.972	
#2	2.892404	.0139117	.1136390	z 1808.979	
#3	2.874662	.0116372	.1132962	z 1799.591	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4052.264	111508.7	18574.20	3414.341	4289.896
Stddev	1.797	390.0	137.17	20.068	9.874
%RSD	.0443418	.3497202	.7384766	.5877640	.2301704
#1	4050.266	111063.3	18574.75	3392.444	4280.963
#2	4053.749	111673.6	18436.75	3418.722	4300.498
#3	4052.777	111789.1	18711.09	3431.857	4288.228

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-02 Acquired: 3/18/2024 21:55:45 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003035**	**-.001598**	**.0014550**	**.0026374**	**.0000993**	**.7539702**	**.0386941**
Stddev	.000810	.001645	.0008735	.0006246	.0008964	.0578506	.0023955
%RSD	26.68087	102.9132	60.02941	23.68288	902.4930	7.672803	6.190759
#1	-.002555	-.000389	.0008888	.0021302	.0010431	.8197884	.0414395
#2	-.002580	-.000935	.0024609	.0024470	-.000741	.7309438	.0376142
#3	-.003970	-.003471	.0010154	.0033351	-.000005	.7111783	.0370287

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000114**	**-.000077**	**45.90861**	**.0029360**	**.0001380**	**.0145422**	**1.732805**
Stddev	.000039	.000013	3.15333	.0001556	.0000596	.0000476	.008885
%RSD	33.74379	17.32333	6.868715	5.301279	43.16076	.3271191	.5127394
#1	-.000085	-.000088	49.49206	.0028711	.0000745	.0145085	1.734531
#2	-.000100	-.000062	44.67601	.0031136	.0001927	.0145214	1.723185
#3	-.000158	-.000080	43.55774	.0028232	.0001469	.0145966	1.740701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2519228**	**6.802206**	**.0030088**	**.0012004**	**36.64599**	**.0005750**	**.1358683**
Stddev	.0178005	.458654	.0002516	.0001689	.20670	.0015429	.0010690
%RSD	7.065849	6.742720	8.362603	14.06906	.5640562	268.3100	.7867799
#1	.2719743	7.325881	.0028862	.0011508	36.86887	.0010953	.1348850
#2	.2458100	6.608826	.0028420	.0013885	36.46060	.0017905	.1357138
#3	.2379841	6.471911	.0032982	.0010618	36.60850	-.001161	.1370061

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.879977**	**.0045732**	**.0093566**	**-.006555**	**.0538546**	**3.702551**	**.2424618**
Stddev	.006968	.0017478	.0002491	.000118	.0020727	.030110	.0029551
%RSD	.1795773	38.21703	2.662413	1.800523	3.848796	.8132361	1.218799
#1	3.887899	.0065850	.0096413	-.006436	.0562479	3.726642	.2458554
#2	3.874799	.0037066	.0091785	-.006558	.0526769	3.668795	.2404562
#3	3.877233	.0034282	.0092500	-.006672	.0526390	3.712217	.2410738

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-02 Acquired: 3/18/2024 21:55:45 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	2.975231	.0136692	.1203632	z *****
Stddev	.009502	.0015062	.0089318	-----
%RSD	.3193563	11.01902	7.420684	-----
#1	2.964777	.0153720	.1304784	z 1831.938
#2	2.983343	.0125110	.1170487	z 1834.579
#3	2.977572	.0131247	.1135625	z 1838.943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4033.351	111748.6	17783.92	3454.799	4293.000
Stddev	5.564	332.5	1150.36	7.837	1.327
%RSD	.1379600	.2975588	6.468566	.2268527	.0309099
#1	4026.973	111949.8	16485.94	3461.423	4292.427
#2	4037.214	111931.2	18188.40	3446.147	4292.055
#3	4035.866	111364.8	18677.41	3456.827	4294.517

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-04 Acquired: 3/18/2024 22:00:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002261**	**-.002130**	**.0007163**	**.0140818**	**.0012706**	**.3688830**
Stddev	.002337	.000765	.0012317	.0012788	.0006320	.0057895
%RSD	103.3625	35.90778	171.9558	9.081316	49.74209	1.569462
#1	-.003403	-.001522	.0011352	.0154712	.0011441	.3633129
#2	-.003809	-.002989	-.000670	.0138201	.0007114	.3684667
#3	.000427	-.001879	.001684	.0129541	.0019563	.3748694

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1862638**	**-.000195**	**-.000009**	**164.5667**	**.0041782**	**-.000256**
Stddev	.0004942	.000035	.000058	.9058	.0002413	.000129
%RSD	.2653038	17.83359	657.5507	.5504169	5.776137	50.22994
#1	.1868319	-.000225	-.000026	163.5209	.0039797	-.000179
#2	.1859335	-.000157	-.000056	165.1033	.0044468	-.000184
#3	.1860260	-.000202	.000056	165.0758	.0041081	-.000405

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076787**	**.2231355**	**.0089444**	**25.58466**	**.0021587**	**.0008781**
Stddev	.0001571	.0007342	.0002452	.12157	.0000451	.0001899
%RSD	2.045738	.3290427	2.741005	.4751862	2.087425	21.62779
#1	.0075032	.2226385	.0087207	25.46722	.0021287	.0008631
#2	.0077269	.2239788	.0092065	25.57677	.0022105	.0006962
#3	.0078061	.2227890	.0089060	25.70999	.0021368	.0010751

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.28631**	**.0010044**	**.0125585**	**11.18789**	**.0643721**	**.0215196**
Stddev	.22697	.0004314	.0002800	.02707	.0003976	.0002617
%RSD	.5011839	42.95400	2.229765	.2419216	.6177390	1.216120
#1	45.53986	.0005081	.0127651	11.20050	.0643402	.0212179
#2	45.10212	.0012146	.0126706	11.20635	.0639914	.0216861
#3	45.21695	.0012904	.0122398	11.15682	.0647848	.0216547

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-04 Acquired: 3/18/2024 22:00:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011410	.0112651	6.252970	.0239309	F 11.70585	.0290043
Stddev	.000531	.0003308	.024398	.0030268	.06527	.0012005
%RSD	4.650752	2.936814	.3901783	12.64796	.5576098	4.139026
#1	-.011284	.0115074	6.250715	.0204359	11.63099	.0278524
#2	-.010953	.0108882	6.229778	.0256805	11.73569	.0302482
#3	-.011992	.0113997	6.278417	.0256764	11.75087	.0289124

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.5903944	z *****
Stddev	.0016342	-----
%RSD	.2767896	-----
#1	.5919839	z 2086.446
#2	.5904803	z 2102.227
#3	.5887190	z 2106.197

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3862.175	107102.7	17995.94	3305.795	4008.195
Stddev	4.942	294.0	49.89	28.976	8.002
%RSD	.1279628	.2744916	.2772256	.8765169	.1996354
#1	3856.838	106800.4	17939.30	3272.348	4007.694
#2	3866.593	107387.6	18015.18	3321.739	4016.436
#3	3863.094	107119.9	18033.35	3323.296	4000.456

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-05 Acquired: 3/18/2024 22:04:30 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016397	-.009165	.0019990	-.001570	.0005690	3.727534
Stddev	.0000959	.000399	.0012017	.003889	.0002567	.010990
%RSD	5.847920	4.357708	60.11419	247.6919	45.11107	.2948239
#1	.0016182	-.009081	.0019257	.002502	.0008316	3.726206
#2	.0017446	-.009600	.0008356	-.001967	.0003187	3.739127
#3	.0015565	-.008814	.0032356	-.005245	.0005566	3.717268

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6007320	.0007467	-.000141	210.7484	.0116152	.0027149
Stddev	.0004535	.0000308	.000061	1.7393	.0000556	.0001781
%RSD	.0754873	4.118668	43.25049	.8253125	.4785259	6.558448
#1	.6002511	.0007317	-.000090	208.7703	.0116421	.0025814
#2	.6011518	.0007821	-.000123	212.0382	.0116522	.0029171
#3	.6007932	.0007264	-.000208	211.4369	.0115513	.0026464

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049300	35.98986	1.790870	60.47776	.0062616	.0035126
Stddev	.0004565	.17384	.007138	.36556	.0002374	.0001685
%RSD	9.260397	.4830114	.3985613	.6044463	3.791192	4.796751
#1	.0051280	35.78974	1.782654	60.05895	.0059977	.0035484
#2	.0044078	36.07645	1.794413	60.64155	.0063293	.0033291
#3	.0052540	36.10339	1.795543	60.73278	.0064578	.0036603

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	122.6715	.0112026	.0327901	13.84285	.1336963	.0030964
Stddev	.9434	.0009109	.0004125	.02928	.0009435	.0002189
%RSD	.7690675	8.130964	1.257899	.2115329	.7056780	7.068578
#1	122.0157	.0110667	.0329155	13.87317	.1329599	.0032639
#2	123.7527	.0121738	.0331254	13.84064	.1347598	.0028487
#3	122.2461	.0103673	.0323296	13.81473	.1333692	.0031765

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-05 Acquired: 3/18/2024 22:04:30 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010868**	**.3713461**	F **21.45597**	**.5039000**	F **16.26604**	**.0540759**
Stddev	.001072	.0004791	.06219	.0042298	.22945	.0014030
%RSD	9.867699	.1290225	.2898353	.8394063	1.410597	2.594541
#1	-.010804	.3707970	21.42055	.4990927	16.08366	.0530967
#2	-.011971	.3715617	21.41959	.5055565	16.19081	.0556832
#3	-.009829	.3716795	21.52778	.5070507	16.52366	.0534477

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.5957904**	z *****
Stddev	.0010349	-----
%RSD	.1736970	-----
#1	.5956425	z 2266.142
#2	.5968913	z 2276.447
#3	.5948375	z 2258.018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3770.021**	**104433.4**	**18106.65**	**3249.899**	**3788.281**
Stddev	22.019	141.2	63.97	2.409	25.500
%RSD	.5840517	.1352131	.3533220	.0741248	.6731205
#1	3776.088	104463.0	18163.50	3250.324	3801.696
#2	3788.371	104279.8	18037.38	3247.305	3804.272
#3	3745.605	104557.5	18119.08	3252.067	3758.874

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV04 Acquired: 3/18/2024 22:27:10 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.061008**	**4.846871**	**4.649255**	**5.088804**	**5.105992**	**9.994994**
Stddev	.005089	.021961	.005934	.013421	.005983	.007984
%RSD	.1005551	.4530872	.1276338	.2637449	.1171828	.0798819
#1	5.057504	4.855571	4.653643	5.074810	5.099248	9.992494
#2	5.058675	4.821894	4.642503	5.090034	5.110663	9.988560
#3	5.066845	4.863149	4.651618	5.101568	5.108065	10.00393

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.85675**	**.2492022**	**2.357040**	**25.37552**	**.9611097**	**2.312164**
Stddev	.03881	.0014649	.001184	.02313	.0019924	.001676
%RSD	.3575140	.5878434	.0502468	.0911505	.2073034	.0724890
#1	10.81566	.2504487	2.357254	25.38548	.9633250	2.312228
#2	10.89279	.2495692	2.355763	25.34907	.9605397	2.310457
#3	10.86181	.2475887	2.358103	25.39200	.9594644	2.313808

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.240411**	**4.950790**	**2.621734**	**25.24582**	**2.350965**	**1.253375**
Stddev	.000777	.029032	.000488	.06482	.001791	.001269
%RSD	.0626339	.5864140	.0186053	.2567588	.0761903	.1012396
#1	1.239583	4.936253	2.622281	25.29143	2.353011	1.254831
#2	1.240525	4.931898	2.621578	25.27443	2.350200	1.252781
#3	1.241124	4.984219	2.621344	25.17162	2.349682	1.252511

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.02930**	**2.545503**	**2.579457**	**25.01046**	**5.380947**	**5.054871**
Stddev	.16070	.004026	.007795	.16956	.021228	.002479
%RSD	.6420292	.1581615	.3021839	.6779645	.3945066	.0490353
#1	24.93255	2.541066	2.587515	24.90044	5.391528	5.052314
#2	24.94055	2.548922	2.571955	24.92521	5.394804	5.057263
#3	25.21480	2.546522	2.578902	25.20573	5.356507	5.055037

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV04 Acquired: 3/18/2024 22:27:10 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.287453	5.345745	4.531524	F 4.293432	F 4.144492	5.132086
Stddev	.003344	.008672	.023326	.002646	.006190	.012180
%RSD	.0780037	.1622195	.5147530	.0616257	.1493465	.2373283
#1	4.283720	5.337687	4.530277	4.295694	4.137946	5.122454
#2	4.290177	5.344626	4.508846	4.290522	4.150250	5.128028
#3	4.288461	5.354922	4.555448	4.294081	4.145279	5.145777

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.478053	z *****
Stddev	.014150	-----
%RSD	.2583046	-----
#1	5.485531	z 1900.820
#2	5.461733	z 1899.900
#3	5.486896	z 1898.402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3962.433	108178.7	18171.43	3420.467	4041.223
Stddev	4.411	188.7	86.03	5.358	5.380
%RSD	.1113209	.1744442	.4734226	.1566438	.1331261
#1	3960.247	107966.2	18098.37	3423.340	4038.025
#2	3959.542	108326.9	18149.67	3423.776	4038.211
#3	3967.510	108242.9	18266.25	3414.286	4047.434

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB04 Acquired: 3/18/2024 22:31:32 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000837**	**.0004186**	**-.000148**	**.0011340**	**-.000369**	**.0007701**	**-.002937**
Stddev	.000324	.0017680	.000905	.0017757	.000967	.0016973	.000134
%RSD	38.68585	422.3637	612.6024	156.5812	262.1968	220.3850	4.553679
#1	-.000562	-.001357	-.000560	-.000719	.000226	.0022126	-.003077
#2	-.000756	.002179	-.000773	.001300	.000152	-.001100	-.002925
#3	-.001194	.000433	.000890	.002821	-.001484	.001198	-.002810

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**.0000711**	**.0014561**	**-.000112**	**.0000386**	**.0004321**	**-.000823**
Stddev	.000037	.0000969	.0031461	.000070	.0000846	.0002173	.001728
%RSD	43.54462	136.4139	216.0651	62.04540	218.9043	50.29097	209.8545
#1	-.000042	.0001790	.0046034	-.000137	-.000036	.0006605	-.001435
#2	-.000103	.0000428	.0014536	-.000166	.000130	.0002278	-.002163
#3	-.000108	-.000009	-.001689	-.000034	.000022	.0004081	.001127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000642**	**-.007485**	**.0000300**	**.0008963**	**.0436419**	**-.001003**	**.0001320**
Stddev	.0001453	.005743	.0000920	.0000387	.0066300	.000713	.0001901
%RSD	226.3875	76.73134	306.2943	4.320106	15.19183	71.06239	144.0256
#1	.0001183	-.001006	-.000047	.0009396	.0360024	-.001214	-.000049
#2	.0001746	-.009497	.000005	.0008839	.0478929	-.001587	.000330
#3	-.000100	-.011951	.000132	.0008652	.0470303	-.000209	.000116

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0486524**	**-.001342**	**.0001781**	**-.000947**	**.0041443**	**.0046997**	**.0045597**
Stddev	.0049205	.000080	.0002915	.000422	.0000995	.0040708	.0005491
%RSD	10.11364	5.939396	163.6315	44.53057	2.401132	86.61713	12.04235
#1	.0446218	-.001423	.0005147	-.001367	.0040919	.0003310	.0048061
#2	.0541358	-.001339	.0000057	-.000524	.0040818	.0083863	.0049424
#3	.0471996	-.001264	.0000140	-.000950	.0042590	.0053819	.0039305

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB04 Acquired: 3/18/2024 22:31:32 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0012019	-.000230	-.000021	z *****	
Stddev	.0013808	.000833	.000006	-----	
%RSD	114.8840	361.7794	31.28748	-----	
#1	.0015384	.000727	-.000024	z 1633.090	
#2	-.000316	-.000793	-.000013	z 1619.706	
#3	.002383	-.000625	-.000025	z 1631.629	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4313.432	113476.3	17980.58	3593.943	4798.912
Stddev	10.973	774.5	32.24	25.435	41.677
%RSD	.2543876	.6825016	.1793179	.7077230	.8684654
#1	4323.510	113761.5	17949.89	3614.887	4846.938
#2	4301.743	114067.6	18014.18	3601.303	4772.228
#3	4315.044	112599.6	17977.68	3565.640	4777.570

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-07 Acquired: 3/18/2024 22:36:00 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002974**	**-.002480**	**.0002780**	**.0028177**	**.0010955**	**.3136147**	**.0324419**
Stddev	.001572	.001183	.0012317	.0011680	.0010876	.0074445	.0002031
%RSD	52.86137	47.70141	443.0386	41.45129	99.28065	2.373761	.6259775
#1	-.001429	-.003812	.0000464	.0040681	.0021686	.3100750	.0322614
#2	-.004572	-.001552	.0016091	.0026303	.0011240	.3221686	.0326618
#3	-.002922	-.002076	-.000821	.0017548	-.000006	.3086006	.0324024

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000146**	**-.000082**	**43.25431**	**.0154664**	**.0001398**	**.0100942**	**.8299087**
Stddev	.000051	.000046	.33213	.0003013	.0001048	.0002197	.0029739
%RSD	34.65121	56.69812	.7678582	1.948017	74.97172	2.176310	.3583451
#1	-.000123	-.000136	42.89424	.0152534	.0001633	.0100504	.8268282
#2	-.000112	-.000052	43.31999	.0153346	.0000252	.0103325	.8301348
#3	-.000205	-.000058	43.54869	.0158111	.0002307	.0098998	.8327631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2321589**	**6.417920**	**.0087226**	**.0007084**	**35.98242**	**-.000524**	**.1290013**
Stddev	.0013236	.028529	.0000612	.0002581	.31721	.000929	.0005748
%RSD	.5701177	.4445149	.7020086	36.43710	.8815606	177.3211	.4455789
#1	.2308491	6.385171	.0087822	.0005146	36.33398	-.001593	.1283479
#2	.2321319	6.437379	.0086599	.0010014	35.89564	.000086	.1292265
#3	.2334958	6.431209	.0087257	.0006091	35.71763	-.000064	.1294293

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.555432**	**.0110715**	**.0090929**	**-.008430**	**.0157079**	**3.318570**	**.1792201**
Stddev	.013738	.0001295	.0000559	.000410	.0007740	.015707	.0027450
%RSD	.3863881	1.169694	.6151045	4.868306	4.927162	.4732914	1.531656
#1	3.570584	.0109495	.0090287	-.008882	.0151373	3.325456	.1812282
#2	3.543790	.0112074	.0091310	-.008327	.0165889	3.300597	.1760922
#3	3.551922	.0110575	.0091189	-.008081	.0153976	3.329658	.1803399

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-07 Acquired: 3/18/2024 22:36:00 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	**2.944183**	**.0117783**	**.1126398**	z *****	
Stddev	.005852	.0006646	.0001874	-----	
%RSD	.1987509	5.642615	.1663757	-----	
#1	2.948011	.0112180	.1128404	z 1873.951	
#2	2.947091	.0125126	.1126098	z 1903.619	
#3	2.937447	.0116043	.1124692	z 1901.150	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4213.349**	**114084.0**	**18871.56**	**3623.974**	**4413.920**
Stddev	9.837	637.5	25.67	17.024	9.766
%RSD	.2334828	.5587732	.1360067	.4697603	.2212472
#1	4203.135	113382.5	18896.57	3604.899	4403.963
#2	4214.150	114241.5	18845.29	3629.399	4414.315
#3	4222.761	114627.9	18872.83	3637.625	4423.483

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-08 Acquired: 3/18/2024 22:40:25 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001421**	**-.002758**	**.0028664**	**.0026504**	**.0013864**	**.7385330**	**.0388001**
Stddev	.000731	.000487	.0007524	.0028162	.0016693	.0182465	.0000827
%RSD	51.45456	17.67591	26.24747	106.2576	120.4086	2.470637	.2131063
#1	-.002066	-.002571	.0019980	.0038372	.0018394	.7324175	.0387271
#2	-.001570	-.003311	.0032817	-.000565	.0027825	.7241298	.0388899
#3	-.000627	-.002391	.0033197	.004679	-.000463	.7590517	.0387832

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000129**	**-.000058**	**43.15734**	**.0068945**	**.0003254**	**.0121654**	**1.853753**
Stddev	.000033	.000069	.30695	.0002501	.0000268	.0001413	.012477
%RSD	25.86368	118.9256	.7112457	3.627749	8.225566	1.161695	.6730791
#1	-.000093	-.000047	42.85419	.0071777	.0003308	.0120035	1.843553
#2	-.000158	.000005	43.14987	.0068022	.0003490	.0122285	1.850041
#3	-.000137	-.000131	43.46797	.0067037	.0002963	.0122641	1.867665

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2410903**	**6.507488**	**.0044501**	**.0011755**	**36.30472**	**.0005503**	**.1396234**
Stddev	.0016122	.019600	.0001595	.0002758	.12433	.0017979	.0002180
%RSD	.6687156	.3011884	3.583017	23.46078	.3424726	326.7224	.1561079
#1	.2393493	6.485049	.0043339	.0012040	36.44635	-.000893	.1394599
#2	.2413902	6.521260	.0046319	.0014359	36.21355	.002564	.1395396
#3	.2425316	6.516156	.0043846	.0008866	36.25427	-.000021	.1398709

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.745454**	**.0095811**	**.0090977**	**-.006193**	**.0513400**	**3.797375**	**.2458886**
Stddev	.022988	.0004561	.0002009	.000325	.0025093	.047067	.0009941
%RSD	.6137598	4.760863	2.208581	5.253146	4.887648	1.239466	.4042933
#1	3.731897	.0091851	.0092038	-.005911	.0499322	3.755143	.2465275
#2	3.732469	.0094783	.0088659	-.006118	.0498508	3.788865	.2463951
#3	3.771997	.0100799	.0092233	-.006549	.0542372	3.848116	.2447433

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-08 Acquired: 3/18/2024 22:40:25 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	**2.970180**	**.0123673**	**.1124030**	z *****
Stddev	.027566	.0011769	.0002953	-----
%RSD	.9280941	9.516296	.2627115	-----
#1	2.951472	.0110158	.1126764	z 1850.979
#2	2.957233	.0131660	.1120898	z 1875.200
#3	3.001837	.0129202	.1124427	z 1877.247

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4218.948**	**113836.1**	**19101.57**	**3601.586**	**4404.974**
Stddev	19.636	162.5	17.33	20.501	7.686
%RSD	.4654259	.1427175	.0907416	.5692323	.1744891
#1	4206.525	113658.5	19097.39	3584.049	4400.412
#2	4208.732	113977.2	19120.61	3596.584	4400.662
#3	4241.586	113872.6	19086.71	3624.126	4413.848

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-09 Acquired: 3/18/2024 22:44:49 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002971**	**-.003321**	**.0022717**	**.0129992**	**.0005351**	**.9784825**
Stddev	.000678	.001873	.0004742	.0042807	.0003266	.0120305
%RSD	22.82491	56.38029	20.87384	32.93013	61.04421	1.229504
#1	-.002188	-.005415	.0017310	.0179407	.0006301	.9923225
#2	-.003364	-.001806	.0024673	.0104262	.0008036	.9725981
#3	-.003361	-.002743	.0026169	.0106308	.0001715	.9705268

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1778431**	**-.000102**	**-.000080**	**158.6748**	**.0062533**	**-.000274**
Stddev	.0008450	.000014	.000061	.6927	.0001993	.000139
%RSD	.4751275	13.47073	75.82760	.4365461	3.186429	50.68868
#1	.1787768	-.000092	-.000090	157.9919	.0060666	-.000306
#2	.1771309	-.000096	-.000135	159.3769	.0062303	-.000393
#3	.1776218	-.000118	-.000015	158.6557	.0064631	-.000122

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0092413**	**.6903245**	**.0112677**	**24.99084**	**.0034248**	**.0029887**
Stddev	.0006490	.0051288	.0001868	.13398	.0003032	.0002891
%RSD	7.022432	.7429493	1.658231	.5361236	8.854132	9.673673
#1	.0099532	.6872162	.0112237	24.83682	.0037354	.0026984
#2	.0086828	.6875131	.0114726	25.05526	.0031295	.0032766
#3	.0090879	.6962442	.0111068	25.08045	.0034094	.0029911

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.90281**	**.0007690**	**.0097931**	**10.60818**	**.0672803**	**.0231306**
Stddev	.15927	.0001818	.0000944	.01626	.0003545	.0015226
%RSD	.3712388	23.63870	.9639558	.1532634	.5269384	6.582828
#1	43.07143	.0005719	.0098501	10.62033	.0676104	.0247197
#2	42.75492	.0009301	.0098451	10.58971	.0673248	.0216845
#3	42.88208	.0008051	.0096841	10.61450	.0669056	.0229875

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-09 Acquired: 3/18/2024 22:44:49 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054185	.0462770	6.843745	.0251666	F 12.36840	.0275509
Stddev	.0009684	.0007176	.030084	.0015747	.94255	.0015391
%RSD	17.87184	1.550748	.4395887	6.257182	7.620663	5.586367
#1	.0065363	.0456019	6.809551	.0267160	13.28085	.0292559
#2	.0048858	.0461985	6.855536	.0235677	11.39838	.0271322
#3	.0048334	.0470307	6.866148	.0252161	12.42596	.0262644

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.5569452	z *****
Stddev	.0007239	-----
%RSD	.1299830	-----
#1	.5577230	z 2131.380
#2	.5568215	z 2117.688
#3	.5562911	z 2120.908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3824.364	109108.2	18326.72	3479.819	3848.876
Stddev	244.058	92.5	20.84	9.647	247.871
%RSD	6.381674	.0847484	.1136955	.2772217	6.440081
#1	3584.130	109130.0	18318.53	3485.546	3613.541
#2	4072.075	109006.8	18311.22	3468.681	4107.622
#3	3816.888	109187.9	18350.41	3485.229	3825.466

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-10 Acquired: 3/18/2024 22:49:10 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014180	-.008774	.0024382	-.002791	.0008791	3.645108
Stddev	.0014803	.001411	.0012752	.004155	.0007249	.017823
%RSD	104.3935	16.08706	52.29999	148.8849	82.45210	.4889516
#1	.0022714	-.007161	.0033409	-.006501	.0004456	3.646854
#2	.0022737	-.009377	.0009794	.001699	.0017160	3.661993
#3	-.000291	-.009783	.0029943	-.003570	.0004759	3.626476

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5687584	.0008086	-.000261	203.6806	.0165812	.0027994
Stddev	.0025869	.0000996	.000059	1.7109	.0001159	.0001899
%RSD	.4548402	12.32137	22.78373	.8399718	.6988563	6.784157
#1	.5692193	.0007378	-.000242	201.8100	.0166562	.0026953
#2	.5710839	.0009225	-.000327	205.1660	.0166396	.0026842
#3	.5659720	.0007655	-.000213	204.0660	.0164477	.0030186

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052587	34.99574	1.722899	58.60036	.0066450	.0032108
Stddev	.0000772	.19043	.010672	.33317	.0001951	.0002443
%RSD	1.468994	.5441571	.6194355	.5685453	2.935624	7.609358
#1	.0051711	34.77777	1.711167	58.26092	.0066825	.0034412
#2	.0052881	35.07962	1.732031	58.92689	.0068185	.0029546
#3	.0053169	35.12984	1.725498	58.61326	.0064339	.0032365

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	116.5059	.0103977	.0351332	13.11375	.1343673	.0029477
Stddev	1.2030	.0003612	.0002047	.02883	.0012440	.0002113
%RSD	1.032529	3.473631	.5825643	.2198795	.9257992	7.169008
#1	116.9964	.0102923	.0349013	13.10845	.1329322	.0028224
#2	115.1352	.0101010	.0352886	13.14487	.1351378	.0031917
#3	117.3861	.0107999	.0352097	13.08794	.1350319	.0028291

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1747-10 Acquired: 3/18/2024 22:49:10 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011132	.3616517	F 20.98976	.5056835	F 16.21473	.0493799
Stddev	.000373	.0009606	.06858	.0028031	.05337	.0014634
%RSD	3.354939	.2656190	.3267255	.5543268	.3291512	2.963463
#1	-.010786	.3605467	20.91082	.5053368	16.17743	.0480887
#2	-.011528	.3621197	21.03470	.5030699	16.27587	.0509694
#3	-.011082	.3622885	21.02375	.5086439	16.19090	.0490815

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.5612913	z *****
Stddev	.0023462	-----
%RSD	.4180041	-----
#1	.5615486	z 2336.389
#2	.5634982	z 2322.460
#3	.5588270	z 2334.431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3995.578	107429.7	18659.26	3426.889	3875.227
Stddev	4.047	210.7	59.26	5.444	4.560
%RSD	.1012818	.1961037	.3175650	.1588488	.1176699
#1	3991.737	107198.4	18636.03	3432.369	3879.270
#2	3995.195	107610.6	18615.15	3426.818	3870.284
#3	3999.803	107480.3	18726.62	3421.482	3876.127

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-01 Acquired: 3/18/2024 22:53:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0375877**	**-.006178**	**.0057404**	**-.000924**	**.0010524**	**.4406700**
Stddev	.0017760	.002045	.0010241	.004134	.0009869	.0048632
%RSD	4.724854	33.10619	17.84058	447.4143	93.77922	1.103586
#1	.0386610	-.005459	.0064181	-.002132	.0000812	.4402555
#2	.0355378	-.004589	.0062409	.003679	.0010216	.4457272
#3	.0385644	-.008485	.0045623	-.004319	.0020543	.4360273

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2125723**	**.0001899**	**-.000340**	**139.8144**	**.0109034**	**.0006180**
Stddev	.0006176	.0000493	.000024	.3108	.0002143	.0000899
%RSD	.2905445	25.99138	6.932839	.2223285	1.965470	14.54518
#1	.2123096	.0002032	-.000367	140.0465	.0106713	.0005719
#2	.2121295	.0002311	-.000329	139.4613	.0110938	.0005605
#3	.2132779	.0001352	-.000323	139.9356	.0109451	.0007216

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027121**	**19.42137**	**1.145024**	**23.94929**	**.0103876**	**.0012307**
Stddev	.0000254	.05172	.002882	.03658	.0002253	.0000684
%RSD	.9348429	.2663270	.2517030	.1527327	2.168632	5.556626
#1	.0027407	19.36331	1.144830	23.98925	.0106078	.0011553
#2	.0026924	19.46252	1.142244	23.91746	.0103975	.0012886
#3	.0027031	19.43829	1.147998	23.94117	.0101575	.0012483

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**253.4289**	**.0009143**	**.0164834**	**10.66132**	**.1907999**	**.0085001**
Stddev	1.6737	.0011127	.0002365	.07962	.0007139	.0000775
%RSD	.6604083	121.7108	1.434552	.7467970	.3741447	.9118918
#1	251.5805	-.000050	.0163429	10.57019	.1906710	.0084279
#2	254.8417	.000660	.0163510	10.71736	.1901592	.0085820
#3	253.8645	.002132	.0167564	10.69642	.1915694	.0084905

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-01 Acquired: 3/18/2024 22:53:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012511	.0116457	F 11.54856	.4589432	F 15.49037	.0325663
Stddev	.000415	.0003052	.09097	.0040767	.04954	.0011821
%RSD	3.319598	2.620691	.7877392	.8882710	.3198110	3.629877
#1	-.012577	.0119968	11.44395	.4560275	15.51917	.0323620
#2	-.012888	.0114440	11.60920	.4636015	15.43317	.0314997
#3	-.012066	.0114962	11.59251	.4572006	15.51878	.0338373

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	1.080414	z *****
Stddev	.001884	-----
%RSD	.1743976	-----
#1	1.080622	z 2090.142
#2	1.078435	z 2093.538
#3	1.082186	z 2107.356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3936.522	105802.0	18498.59	3418.046	3847.182
Stddev	9.725	335.1	117.02	9.552	7.488
%RSD	.2470358	.3166999	.6326063	.2794644	.1946473
#1	3932.018	105650.2	18367.62	3415.776	3843.245
#2	3929.867	105569.8	18535.28	3409.833	3842.483
#3	3947.682	106186.1	18592.87	3428.529	3855.818

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-02 Acquired: 3/18/2024 22:58:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001820**	**-.004701**	**.0001177**	**.0185391**	**.0003846**	**4.759413**
Stddev	.001496	.001714	.0010118	.0039740	.0031754	.028650
%RSD	82.21104	36.44817	859.9475	21.43544	825.7119	.6019745
#1	-.003483	-.003231	.0009300	.0213040	.0039950	4.763239
#2	-.001394	-.004290	-.001016	.0203283	-.000867	4.785958
#3	-.000583	-.006583	.000439	.0139851	-.001975	4.729041

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1177804**	**.0024434**	**.0019571**	**93.94147**	**.0071367**	**.0053517**
Stddev	.0008723	.0000700	.0000607	.36186	.0001032	.0000828
%RSD	.7405822	2.862849	3.101969	.3851999	1.445639	1.547290
#1	.1175835	.0023837	.0018953	93.53512	.0071189	.0054355
#2	.1187342	.0025204	.0020166	94.22893	.0070436	.0052699
#3	.1170233	.0024261	.0019595	94.06035	.0072476	.0053496

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0103183**	**3.186578**	**2.104140**	**10.13565**	**.0179012**	**.0015721**
Stddev	.0001615	.005543	.003906	.03391	.0003171	.0000967
%RSD	1.564991	.1739454	.1856550	.3345788	1.771565	6.148914
#1	.0101861	3.182753	2.099642	10.11413	.0179822	.0014895
#2	.0102705	3.184046	2.106682	10.11808	.0181699	.0016784
#3	.0104983	3.192934	2.106098	10.17474	.0175514	.0015484

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2073.560**	**.0037623**	**.0393951**	**15.81185**	**.4313647**	**.0013788**
Stddev	3.801	.0007896	.0000381	.09425	.0030124	.0001691
%RSD	.1833286	20.98754	.0965800	.5960851	.6983351	12.26238
#1	2077.781	.0044503	.0393696	15.70310	.4308321	.0013746
#2	2070.407	.0029002	.0393769	15.86987	.4346078	.0012119
#3	2072.492	.0039366	.0394388	15.86259	.4286541	.0015500

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-02 Acquired: 3/18/2024 22:58:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012705	.0851412	F 18.95197	.1085360	F 148.3787	.0547745
Stddev	.000785	.0008230	.05453	.0035882	1.2086	.0033786
%RSD	6.180668	.9666886	.2877062	3.306031	.8145544	6.168099
#1	-.011991	.0853211	18.94733	.1117413	149.6750	.0517030
#2	-.012579	.0858594	19.00866	.1092072	147.2827	.0542272
#3	-.013546	.0842431	18.89990	.1046596	148.1783	.0583933

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.9095866	z *****
Stddev	.0037448	-----
%RSD	.4117064	-----
#1	.9114587	z 2024.786
#2	.9120262	z 2031.499
#3	.9052749	z 2033.217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3421.182	90718.68	17818.33	3004.950	2974.842
Stddev	38.229	393.89	67.56	20.041	31.796
%RSD	1.117415	.4341930	.3791813	.6669297	1.068826
#1	3378.138	90343.02	17753.86	2985.288	2939.490
#2	3451.180	90684.44	17812.51	3004.212	3001.100
#3	3434.228	91128.57	17888.61	3025.350	2983.937

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-03 Acquired: 3/18/2024 23:02:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012399	-.003481	-.000979	.0187598	.0012907	.8628686
Stddev	.0023566	.000702	.001195	.0005160	.0020708	.0037715
%RSD	190.0598	20.16230	122.0686	2.750651	160.4474	.4370884
#1	.0024202	-.004270	-.002255	.0190645	.0023590	.8585164
#2	.0027732	-.003249	.000116	.0190508	.0026091	.8649104
#3	-.001474	-.002925	-.000799	.0181640	-.001096	.8651789

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649320	-.000064	.0004625	39.82363	.0053553	.0010834
Stddev	.0002032	.000039	.0000284	.31740	.0000856	.0001931
%RSD	.3128902	60.21915	6.149141	.7970260	1.598777	17.82475
#1	.0647596	-.000097	.0004465	39.45714	.0052850	.0013059
#2	.0648805	-.000021	.0004457	40.00366	.0054506	.0009600
#3	.0651560	-.000075	.0004953	40.01009	.0053301	.0009842

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257439	1.120361	.5127844	4.662600	.0064598	.0005762
Stddev	.0001374	.009019	.0033977	.041770	.0001825	.0002296
%RSD	.5335140	.8049881	.6625899	.8958579	2.825136	39.84727
#1	.0258052	1.110605	.5089502	4.614727	.0063422	.0008391
#2	.0255866	1.128394	.5139816	4.681443	.0066701	.0004149
#3	.0258399	1.122083	.5154213	4.691629	.0063673	.0004747

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1951.929	.0077779	.0133905	21.37007	.5236237	.0252609
Stddev	3.677	.0015358	.0000701	.09087	.0053304	.0003187
%RSD	.1883609	19.74556	.5231998	.4251995	1.017990	1.261511
#1	1954.866	.0063512	.0133970	21.28329	.5185420	.0255053
#2	1953.116	.0094035	.0134571	21.36237	.5291722	.0249005
#3	1947.806	.0075791	.0133175	21.46454	.5231569	.0253769

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-03 Acquired: 3/18/2024 23:02:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010970	.0281373	8.282960	.6327598	F 96.69464	.0368549
Stddev	.000759	.0012656	.026278	.0041311	.84612	.0030887
%RSD	6.922941	4.497758	.3172594	.6528743	.8750405	8.380802
#1	-.011443	.0270020	8.272101	.6279898	96.59715	.0340032
#2	-.011372	.0279081	8.312928	.6351037	97.58528	.0364257
#3	-.010094	.0295018	8.263852	.6351859	95.90149	.0401358

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.3181973	z *****
Stddev	.0012760	-----
%RSD	.4010056	-----
#1	.3167459	z 1869.776
#2	.3187035	z 1888.485
#3	.3191425	z 1856.943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3527.028	90458.29	17516.28	3035.802	3114.793
Stddev	16.976	223.61	83.78	9.663	12.204
%RSD	.4813129	.2471927	.4782939	.3183155	.3917988
#1	3507.664	90238.33	17609.32	3024.670	3110.327
#2	3534.076	90451.17	17446.82	3040.703	3105.452
#3	3539.346	90685.38	17492.71	3042.033	3128.601

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-04 Acquired: 3/18/2024 23:07:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173763	-.002942	.0024678	.0004960	.0042924	1.537335	.0108527
Stddev	.0020126	.002368	.0008911	.0007768	.0008034	.006023	.0002349
%RSD	11.58277	80.50818	36.11133	156.6032	18.71713	.3917506	2.164857
#1	.0195716	-.003606	.0027592	.0000590	.0036177	1.530515	.0108885
#2	.0156181	-.000312	.0014674	.0000361	.0040785	1.541922	.0106019
#3	.0169391	-.004908	.0031767	.0013929	.0051812	1.539569	.0110677

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	-.000114	132.5349	.0177003	.0004875	.0038375	2.540048
Stddev	.000063	.000058	1.4368	.0002555	.0002224	.0003614	.009953
%RSD	117.5468	50.32575	1.084102	1.443611	45.62214	9.417530	.3918598
#1	-.000033	-.000181	130.9375	.0177984	.0007215	.0042183	2.529058
#2	-.000003	-.000086	132.9456	.0178922	.0004622	.0037949	2.542629
#3	-.000124	-.000077	133.7217	.0174103	.0002788	.0034993	2.548456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466897	6.944480	.0042927	.0004143	408.7534	.0124059	.0159223
Stddev	.0004580	.086372	.0003534	.0001518	2.0390	.0007608	.0001985
%RSD	.9809391	1.243750	8.233512	36.63735	.4988348	6.132718	1.246842
#1	.0462813	6.865825	.0044472	.0002640	410.9294	.0116355	.0161344
#2	.0471849	6.930703	.0045427	.0005675	408.4442	.0131567	.0158915
#3	.0466030	7.036913	.0038884	.0004113	406.8867	.0124254	.0157410

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.52320	.0404875	.0048055	-.012169	.0378295	9.067427	.7195943
Stddev	.02448	.0009646	.0001940	.000547	.0007190	.005281	.0020704
%RSD	.2326011	2.382365	4.037356	4.496573	1.900691	.0582403	.2877136
#1	10.52399	.0397082	.0047390	-.012790	.0371197	9.063096	.7193845
#2	10.54728	.0415663	.0046535	-.011755	.0385575	9.065876	.7176369
#3	10.49834	.0401880	.0050240	-.011963	.0378114	9.073310	.7217616

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1749-04 Acquired: 3/18/2024 23:07:08 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	7.636577	.0377566	.8619368	z *****
Stddev	.033952	.0005747	.0024325	-----
%RSD	.4445943	1.522061	.2822126	-----
#1	7.673959	.0384170	.8591688	z 2090.641
#2	7.607654	.0373706	.8629079	z 2106.722
#3	7.628118	.0374821	.8637337	z 2092.554

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.359	106532.0	18895.70	3499.101	3847.080
Stddev	37.037	456.2	41.42	15.607	26.742
%RSD	.9034866	.4282677	.2192295	.4460173	.6951198
#1	4068.257	106071.4	18938.62	3482.321	3823.451
#2	4089.489	106540.7	18892.51	3501.798	3841.679
#3	4140.332	106983.8	18855.95	3513.183	3876.110

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159591BL Acquired: 3/18/2024 23:11:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001562**	**.0001913**	**.0000731**	**.0023754**	**.0004251**	**-.000808**	**-.000618**
Stddev	.0006092	.0007687	.0005338	.0007737	.0007939	.004745	.000227
%RSD	389.9941	401.8433	730.1718	32.56983	186.7457	587.2861	36.72920
#1	-.000291	-.000667	-.000520	.0016751	.0004185	-.001006	-.000657
#2	-.000090	.000423	.000515	.0032059	-.000365	-.005451	-.000824
#3	.000850	.000817	.000224	.0022453	.001222	.004033	-.000375

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**.0000558**	**.0069536**	**-.000135**	**.0000330**	**.0002210**	**-.000949**
Stddev	.000034	.0000711	.0039857	.000185	.0001375	.0001297	.000325
%RSD	246.2656	127.5918	57.31809	137.6149	416.4144	58.69374	34.28625
#1	.000024	.0000470	.0111246	-.000347	.0001810	.0002233	-.001306
#2	-.000023	.0001309	.0031835	-.000007	-.000091	.0003495	-.000872
#3	-.000042	-.000011	.0065526	-.000050	.000009	.0000901	-.000669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000237**	**-.010425**	**-.000036**	**.0003230**	**.4051188**	**-.001312**	**-.000082**
Stddev	.000104	.004519	.000139	.0001210	.0095763	.000154	.000149
%RSD	43.86289	43.34716	388.4595	37.46632	2.363815	11.75272	181.4110
#1	-.000312	-.013810	.000122	.0003354	.3989140	-.001335	-.000239
#2	-.000281	-.005294	-.000138	.0004374	.4161478	-.001453	-.000065
#3	-.000118	-.012172	-.000091	.0001963	.4002948	-.001148	.000058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1743026**	**-.015223**	**-.000268**	**-.000124**	**.0016611**	**.0014329**	**.0006245**
Stddev	.0033265	.000537	.000132	.000550	.0002898	.0027561	.0007747
%RSD	1.908476	3.524711	49.04889	443.7739	17.44909	192.3432	124.0619
#1	.1705137	-.015268	-.000378	-.000108	.0018335	.0024364	.0013394
#2	.1767439	-.014665	-.000122	-.000682	.0018233	-.001684	.0007326
#3	.1756501	-.015735	-.000305	.000418	.0013265	.003547	-.000199

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159591BL Acquired: 3/18/2024 23:11:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0015994	.0022251	-.000075	z *****
Stddev	.0003552	.0008651	.000015	-----
%RSD	22.21184	38.87738	19.91042	-----
#1	.0011916	.0015260	-.000080	z 1738.786
#2	.0017647	.0019567	-.000086	z 1747.907
#3	.0018418	.0031926	-.000058	z 1766.348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4562.059	118254.7	18864.01	3968.385	4755.347
Stddev	13.597	241.5	76.23	21.925	7.755
%RSD	.2980426	.2042467	.4040860	.5524979	.1630806
#1	4551.226	117983.1	18778.68	3943.979	4759.143
#2	4577.317	118335.8	18887.94	3974.756	4760.473
#3	4557.634	118445.3	18925.39	3986.419	4746.425

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159591BS Acquired: 3/18/2024 23:16:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7533052**	**1.825641**	**.8935802**	**1.831533**	**.7391502**	**1.872033**
Stddev	.0034921	.012310	.0009707	.004821	.0026139	.002392
%RSD	.4635769	.6742684	.1086324	.2632105	.3536337	.1277608
#1	.7510577	1.821297	.8939731	1.830376	.7373496	1.874134
#2	.7515295	1.816093	.8942929	1.827396	.7379527	1.872535
#3	.7573284	1.839534	.8924746	1.836827	.7421483	1.869430

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1932746**	**.2048516**	**.1745482**	**1.018492**	**.3767498**	**.1687926**
Stddev	.0005937	.0006213	.0005448	.005915	.0012264	.0004164
%RSD	.3071595	.3032949	.3121104	.5807380	.3255256	.2466948
#1	.1936204	.2041575	.1749488	1.019756	.3769628	.1683798
#2	.1936144	.2050416	.1747679	1.012048	.3778558	.1692125
#3	.1925892	.2053558	.1739279	1.023673	.3754309	.1687856

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2813965**	**2.629509**	**.2041703**	**1.923866**	**.4350807**	**.0685695**
Stddev	.0008334	.013748	.0009490	.014678	.0004090	.0001855
%RSD	.2961610	.5228213	.4648205	.7629315	.0940114	.2704680
#1	.2817286	2.629755	.2047350	1.918456	.4351771	.0683569
#2	.2804483	2.643132	.2030746	1.940481	.4354330	.0686533
#3	.2820126	2.615640	.2047013	1.912660	.4346321	.0686982

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.672169**	**.2887323**	**.1965005**	**8.305030**	**.3141883**	**.3894544**
Stddev	.017638	.0008528	.0008811	.021595	.0009934	.0006650
%RSD	.6600538	.2953532	.4484007	.2600210	.3161919	.1707548
#1	2.691366	.2879716	.1975153	8.315131	.3145195	.3898038
#2	2.668460	.2896542	.1960565	8.280236	.3149738	.3886875
#3	2.656681	.2885712	.1959297	8.319724	.3130715	.3898719

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: PB159591BS Acquired: 3/18/2024 23:16:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6105692	.1989485	F .5600263	5.148552	F -.001173	.1822042
Stddev	.0013478	.0015421	.0050129	.028128	.000951	.0011049
%RSD	.2207447	.7751499	.8951119	.5463358	81.03811	.6064245
#1	.6111254	.1982622	.5655479	5.177520	-.002201	.1834487
#2	.6090323	.1978686	.5587697	5.146790	-.000326	.1813386
#3	.6115499	.2007146	.5557612	5.121346	-.000992	.1818253

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2042817	z *****
Stddev	.0007284	-----
%RSD	.3565473	-----
#1	.2051211	z 13859.53
#2	.2038172	z 13905.93
#3	.2039067	z 13883.97

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4690.241	121642.1	18688.66	4093.899	4702.090
Stddev	9.974	287.0	35.78	21.686	2.981
%RSD	.2126592	.2359520	.1914307	.5297225	.0634068
#1	4685.981	121410.4	18649.28	4069.312	4699.543
#2	4701.638	121552.9	18697.51	4102.082	4701.358
#3	4683.105	121963.2	18719.17	4110.303	4705.369

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV05 Acquired: 3/18/2024 23:20:15 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.852537**	**4.969764**	**4.941233**	**4.821441**	**4.835565**	**9.536533**
Stddev	.017697	.045870	.006600	.019865	.019758	.026656
%RSD	.3646896	.9229913	.1335655	.4120189	.4086070	.2795188
#1	4.832567	4.930860	4.940319	4.810355	4.814851	9.567313
#2	4.858769	4.958088	4.935138	4.809592	4.837641	9.521201
#3	4.866274	5.020344	4.948242	4.844375	4.854204	9.521085

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.856140**	**.2524902**	**2.557199**	**24.74140**	**.9952337**	**2.504514**
Stddev	.069610	.0032779	.002499	.12755	.0715414	.003016
%RSD	.7062564	1.298234	.0977155	.5155349	7.188398	.1204161
#1	9.867598	.2538519	2.559936	24.88235	.9569252	2.506456
#2	9.781513	.2487509	2.556619	24.63393	.9510041	2.506047
#3	9.919310	.2548677	2.555040	24.70792	1.077772	2.501040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.205803**	**4.820687**	**2.496701**	**24.67123**	**2.504639**	**1.240830**
Stddev	.003226	.293200	.008818	.11037	.003866	.088603
%RSD	.2675421	6.082117	.3531883	.4473812	.1543693	7.140604
#1	1.202359	4.648529	2.505593	24.76724	2.508798	1.186366
#2	1.206296	4.654303	2.487959	24.55064	2.503967	1.193058
#3	1.208754	5.159229	2.496552	24.69581	2.501153	1.343067

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.33316**	**2.430672**	**2.563163**	**23.37513**	**5.228309**	**4.928206**
Stddev	1.43534	.006343	.175069	1.40874	.060356	.015668
%RSD	6.151509	.2609654	6.830192	6.026676	1.154409	.3179239
#1	22.31835	2.436551	2.461987	22.38127	5.222084	4.913987
#2	22.70574	2.423949	2.462187	22.75684	5.171307	4.925628
#3	24.97539	2.431515	2.765315	24.98729	5.291537	4.945003

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV05 Acquired: 3/18/2024 23:20:15 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.567117**	**4.954874**	**4.523624**	**4.673244**	F **4.371464**	**4.728473**
Stddev	.007988	.009419	.286754	.007686	.006388	.014834
%RSD	.1748963	.1901003	6.339027	.1644725	.1461294	.3137128
#1	4.571668	4.965655	4.339182	4.671425	4.368391	4.715489
#2	4.557894	4.950726	4.377698	4.681676	4.367192	4.744639
#3	4.571790	4.948241	4.853991	4.666630	4.378807	4.725290

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**4.974346**	z *****
Stddev	.037095	-----
%RSD	.7457316	-----
#1	4.951163	z 2026.697
#2	4.954746	z 2013.858
#3	5.017130	z 2028.172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4300.181**	**111427.4**	**18836.67**	**3727.929**	**4117.138**
Stddev	14.341	6641.0	136.78	211.364	8.313
%RSD	.3335005	5.959895	.7261157	5.669738	.2019202
#1	4316.734	115291.3	18698.51	3867.390	4124.972
#2	4292.293	115231.8	18972.02	3831.655	4108.417
#3	4291.515	103759.2	18839.48	3484.740	4118.024

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB05 Acquired: 3/18/2024 23:24:36 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002303**	**-.001151**	**.0004145**	**.0011503**	**.0008814**	**-.000311**	**-.000986**
Stddev	.0003003	.001341	.0002235	.0009795	.0001520	.004403	.000255
%RSD	130.3915	116.4802	53.92056	85.15572	17.24103	1414.308	25.82746
#1	.0003906	.000307	.0001715	.0003949	.0008583	-.002628	-.001092
#2	.0004165	-.001430	.0004608	.0007989	.0007423	-.003071	-.001170
#3	-.000116	-.002332	.0006112	.0022570	.0010436	.004766	-.000695

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000059**	**.0000183**	**.0042594**	**-.000166**	**-.000006**	**.0002353**	**.0009441**
Stddev	.000045	.0000292	.0039063	.000231	.000146	.0001931	.0002389
%RSD	76.30864	158.9568	91.71038	139.1194	2405.947	82.09581	25.30229
#1	-.000010	-.000001	.0087400	-.000193	-.000052	.0004442	.0006927
#2	-.000068	.000052	.0015696	.000077	-.000124	.0000633	.0011681
#3	-.000100	.000004	.0024685	-.000383	.000157	.0001983	.0009715

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000112**	**-.014355**	**-.000052**	**.0005382**	**.1411123**	**-.001500**	**.0000927**
Stddev	.0000476	.007606	.000135	.0002518	.0018143	.000566	.0001886
%RSD	424.0585	52.98241	261.1271	46.77580	1.285688	37.77514	203.4963
#1	.0000659	-.018257	-.000191	.0002859	.1417598	-.001636	-.000095
#2	-.000012	-.019218	-.000041	.0005394	.1390631	-.001986	.000282
#3	-.000021	-.005590	.000078	.0007894	.1425139	-.000877	.000090

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0709019**	**-.009644**	**.0000710**	**.0005526**	**.0015766**	**.0025916**	**.0023288**
Stddev	.0066938	.000431	.0000046	.0005036	.0009081	.0030638	.0011222
%RSD	9.440996	4.465293	6.487152	91.13603	57.59687	118.2227	48.18650
#1	.0632850	-.009245	.0000693	.0000355	.0005479	.0048996	.0035896
#2	.0758484	-.009587	.0000762	.0010415	.0022667	.0037595	.0014393
#3	.0735722	-.010100	.0000674	.0005808	.0019152	-.000884	.0019576

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB05 Acquired: 3/18/2024 23:24:36 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.000025	-.000177	-.000065	z *****	
Stddev	.000369	.001745	.000024	-----	
%RSD	1467.889	983.3154	37.47603	-----	
#1	.000062	-.000245	-.000075	z 1722.306	
#2	-.000429	.001600	-.000082	z 1713.957	
#3	.000292	-.001888	-.000037	z 1718.401	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4602.778	120535.6	19520.26	3986.804	4770.454
Stddev	25.770	135.7	27.89	18.463	27.469
%RSD	.5598687	.1125534	.1428578	.4630950	.5758138
#1	4620.107	120515.3	19495.32	3996.626	4784.521
#2	4615.063	120411.2	19550.37	3965.507	4788.042
#3	4573.165	120680.2	19515.08	3998.280	4738.801

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-01 Acquired: 3/18/2024 23:42:52 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0850973**	**-.038007**	**.6914672**	**-.048788**	**.0271839**	**277.0018**
Stddev	.0034026	.004209	.0024300	.002544	.0009934	1.5483
%RSD	3.998522	11.07546	.3514191	5.215195	3.654523	.5589395
#1	.0886731	-.034842	.6900471	-.045910	.0278322	275.2242
#2	.0847195	-.036395	.6900816	-.049718	.0260402	277.7254
#3	.0818993	-.042784	.6942730	-.050737	.0276793	278.0559

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.448422**	**.0182800**	**.0229309**	**92.65075**	**.4657414**	**.2603029**
Stddev	.005425	.0001647	.0003323	.14216	.0019466	.0007822
%RSD	.3745740	.9010381	1.449152	.1534413	.4179501	.3004980
#1	1.442709	.0184662	.0231897	92.60247	.4669781	.2606195
#2	1.449051	.0181531	.0225562	92.53901	.4634976	.2608771
#3	1.453505	.0182208	.0230469	92.81076	.4667485	.2594120

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5695808**	**409.5927**	**6.943214**	**132.8127**	**.4625746**	**.0254427**
Stddev	.0007659	2.3469	.003355	.3807	.0006546	.0004965
%RSD	.1344692	.5729879	.0483209	.2866520	.1415162	1.951567
#1	.5701230	407.3920	6.939370	133.1790	.4618305	.0254467
#2	.5687046	412.0626	6.944718	132.8401	.4630617	.0259373
#3	.5699148	409.3235	6.945554	132.4190	.4628317	.0249442

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.232920**	**.6930991**	**1.264343**	**57.28188**	**^ *****	**.0054487**
Stddev	.022267	.0033475	.002480	.28029	-----	.0004480
%RSD	.6887666	.4829688	.1961352	.4893106	-----	8.222104
#1	3.209023	.6968564	1.262289	56.96268	^ -----	.0056641
#2	3.253085	.6904347	1.267098	57.39517	^ -----	.0057482
#3	3.236652	.6920061	1.263643	57.48779	^ -----	.0049337

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-01 Acquired: 3/18/2024 23:42:52 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0766008	F 19.60114	.3925685	F 12.81715	1.720896	.3217565
Stddev	.0015868	.01273	.0102863	.05307	.005139	.0005030
%RSD	2.071588	.0649298	2.620259	.4140661	.2986160	.1563300
#1	.0755709	19.58963	.4039188	12.81408	1.714987	.3221171
#2	.0758033	19.61481	.3899242	12.87169	1.723386	.3211819
#3	.0784283	19.59899	.3838625	12.76568	1.724316	.3219705

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0503347	z *****
Stddev	.0021609	-----
%RSD	4.293152	-----
#1	.0515465	z 9163.922
#2	.0478398	z 9090.442
#3	.0516178	z 9108.550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4906.745	131990.6	24325.92	4295.989	3484.842
Stddev	20.706	499.8	78.71	33.282	5.794
%RSD	.4219815	.3786908	.3235823	.7747143	.1662697
#1	4885.450	132565.6	24414.93	4333.283	3478.245
#2	4926.806	131746.1	24297.37	4269.309	3489.104
#3	4907.979	131660.0	24265.47	4285.375	3487.177

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-02 Acquired: 3/18/2024 23:47:22 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0418044**	**-.013109**	**.2067869**	**-.064928**	**.0428920**	**355.3293**
Stddev	.0011602	.006091	.0066370	.003347	.0014032	3.4420
%RSD	2.775332	46.46173	3.209567	5.155133	3.271372	.9686724
#1	.0430325	-.019850	.2095374	-.062122	.0415618	355.9297
#2	.0407268	-.008001	.1992169	-.064030	.0443582	351.6266
#3	.0416540	-.011477	.2116064	-.068633	.0427560	358.4315

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.321924**	**.0207116**	**.0319882**	**108.6787**	**.7415653**	**.2515751**
Stddev	.003228	.0001087	.0044620	.0965	.0041129	.0121349
%RSD	.2441896	.5249852	13.94888	.0888385	.5546177	4.823580
#1	1.319059	.0206028	.0353823	108.7372	.7368240	.2608468
#2	1.321291	.0207118	.0269341	108.7317	.7441724	.2378407
#3	1.325422	.0208202	.0336482	108.5673	.7436994	.2560378

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4154187**	**524.8844**	**3.081385**	**220.8136**	**.4486913**	**.0356722**
Stddev	.0154730	.6072	.002046	.5315	.0167984	.0004322
%RSD	3.724671	.1156784	.0664009	.2407031	3.743867	1.211575
#1	.4274538	525.1383	3.083308	221.4273	.4596911	.0356129
#2	.3979652	524.1915	3.081612	220.5112	.4293552	.0352727
#3	.4208371	525.3234	3.079234	220.5022	.4570275	.0361310

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.95510**	**1.220784**	**1.280691**	**112.1567**	**^ *****	**.0068497**
Stddev	.03760	.003207	.002935	.1368	-----	.0000817
%RSD	.2217797	.2626720	.2291662	.1220067	-----	1.193456
#1	16.99375	1.224285	1.278767	112.2266	^ -----	.0068400
#2	16.91864	1.217989	1.279238	111.9991	^ -----	.0069359
#3	16.95293	1.220079	1.284069	112.2446	^ -----	.0067733

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-02 Acquired: 3/18/2024 23:47:22 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1112775	F 37.56351	.0622803	F 15.38315	F 10.11060	.5307255
Stddev	.0009319	.24070	.0078607	.60592	.40968	.0013031
%RSD	.8374531	.6407882	12.62147	3.938887	4.051969	.2455266
#1	.1107250	37.40759	.0712953	15.88093	10.41174	.5305447
#2	.1107541	37.44222	.0568573	14.70846	9.64409	.5295223
#3	.1123534	37.84073	.0586883	15.56005	10.27598	.5321095

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.349920	z *****
Stddev	.000726	-----
%RSD	.2075801	-----
#1	-.350641	z 9703.759
#2	-.349188	z 9695.038
#3	-.349930	z 9699.781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4724.884	126732.6	23109.39	4120.994	3384.324
Stddev	125.157	119.5	67.01	6.741	113.699
%RSD	2.648883	.0942705	.2899651	.1635727	3.359566
#1	4634.112	126861.1	23186.76	4113.577	3306.359
#2	4867.659	126624.9	23069.76	4126.747	3514.786
#3	4672.883	126711.6	23071.66	4122.658	3331.828

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-03 Acquired: 3/18/2024 23:51:57 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0447720	-.028066	.1538722	-.045268	.0240925	348.3749
Stddev	.0012344	.005132	.0019690	.006932	.0013223	.7279
%RSD	2.757135	18.28447	1.279637	15.31375	5.488414	.2089515
#1	.0455103	-.022548	.1559710	-.038617	.0250640	348.1145
#2	.0454588	-.032696	.1535799	-.044736	.0225866	349.1973
#3	.0433469	-.028954	.1520657	-.052451	.0246269	347.8130

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.072759	.0169961	.0277790	57.20885	.4816178	.1831677
Stddev	.004044	.0001576	.0001621	.32199	.0011861	.0003024
%RSD	.3769704	.9270131	.5836115	.5628402	.2462816	.1651089
#1	1.068164	.0171587	.0278657	57.57408	.4824914	.1834169
#2	1.074336	.0168441	.0275920	56.96591	.4802675	.1828312
#3	1.075776	.0169854	.0278794	57.08658	.4820945	.1832549

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3320966	417.4831	3.251019	519.9923	.4078496	.0234362
Stddev	.0005201	1.6555	.009096	2.9488	.0008507	.0003051
%RSD	.1566187	.3965419	.2797975	.5670862	.2085849	1.301931
#1	.3325708	415.7161	3.261409	523.3407	.4068744	.0231313
#2	.3315403	418.9982	3.247162	518.8533	.4084393	.0237415
#3	.3321786	417.7350	3.244488	517.7828	.4082351	.0234357

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	93.03185	.6454430	.9427054	26.93645	^ *****	.0111477
Stddev	.84458	.0015742	.0032907	.10330	-----	.0004563
%RSD	.9078392	.2438929	.3490701	.3834877	-----	4.093182
#1	92.52227	.6438337	.9434472	26.84587	^ -----	.0116612
#2	94.00675	.6469796	.9455619	27.04895	^ -----	.0109931
#3	92.56652	.6455157	.9391071	26.91453	^ -----	.0107888

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-03 Acquired: 3/18/2024 23:51:57 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0533474	F 19.80400	.7399634	F 11.20110	3.640028	.3002870
Stddev	.0009673	.02385	.0024460	.04313	.025620	.0017620
%RSD	1.813193	.1204393	.3305542	.3850948	.7038479	.5867807
#1	.0544545	19.79898	.7427420	11.24941	3.610755	.2982527
#2	.0526657	19.82997	.7381355	11.16645	3.658368	.3013359
#3	.0529221	19.78307	.7390128	11.18744	3.650960	.3012724

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.101728	z *****
Stddev	.000949	-----
%RSD	.9329983	-----
#1	-.100953	z 10124.58
#2	-.102787	z 10123.68
#3	-.101446	z 10120.89

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4672.943	127481.4	23061.43	4181.337	3274.434
Stddev	2.077	324.5	72.71	20.982	3.423
%RSD	.0444392	.2545279	.3152770	.5018069	.1045435
#1	4670.734	127818.1	23023.00	4196.802	3273.634
#2	4673.240	127170.8	23145.29	4157.453	3278.186
#3	4674.855	127455.3	23016.00	4189.756	3271.481

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-04RE Acquired: 3/18/2024 23:56:35 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .4024455	k -.053288	k 1.862897	k -.032338	k .0118657	k 284.3822
Stddev	.0261389	.016621	.091356	.004158	.0029564	.8296
%RSD	6.495025	31.19078	4.903980	12.85655	24.91536	.2917072
#1	k .3774623	k -.072478	k 1.781291	k -.027550	k .0150235	k 285.3400
#2	.4002700	-.043405	1.845809	-.035037	.0091637	283.9112
#3	.4296042	-.043983	1.961590	-.034426	.0114098	283.8952

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.364201	.0157411	k .0331311	k 83.28825	s .3595608	k .1547405
Stddev	.001524	.0003264	.0305256	1.33599	.0168621	.0057350
%RSD	.1116856	2.073759	92.13566	1.604055	4.689642	3.706219
#1	1.363054	.0154310	k .0682674	k 81.79594	s .3401296	k .1557216
#2	1.365930	.0157105	.0131358	84.37296	.3703502	.1485782
#3	1.363621	.0160817	.0179902	83.69587	.3682026	.1599217

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .8874669	s 341.6005	5.443940	67.11985	.3033695	s -.001784
Stddev	.0264721	9.2936	.017129	.34918	.0145051	.030546
%RSD	2.982888	2.720610	.3146394	.5202269	4.781336	1712.639
#1	k .8838449	s 330.9763	5.460270	67.46951	.2910291	s -.037055
#2	.8629922	348.2224	5.445438	67.11889	.2997323	.015990
#3	.9155635	345.6029	5.426111	66.77116	.3193470	.015714

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s 2.619506	k .6215189	k 1.507002	s 22.12891	k .0691161	.0115384
Stddev	.081411	.0047275	.120037	.69410	.7865648	.0004010
%RSD	3.107879	.7606444	7.965305	3.136614	1138.035	3.475131
#1	s 2.525847	k .6261480	k 1.368477	s 21.32865	k -.839113	.0114396
#2	2.673313	.6217098	1.580409	22.56729	.528147	.0111961
#3	2.659359	.6166987	1.572119	22.49078	.518314	.0119796

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-04RE Acquired: 3/18/2024 23:56:35 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0459048	k 5.835709	s .6243817	kF 17.96904	k 7.116065	.2256184
Stddev	.0142581	.021969	.2007278	.81851	.312058	.0013598
%RSD	31.06005	.3764659	32.14825	4.555087	4.385265	.6026919
#1	k .0295298	k 5.858982	s .8559205	k 17.28814	k 6.889421	.2243848
#2	.0526133	5.832813	.5177772	17.74184	6.986786	.2270765
#3	.0555713	5.815331	.4994475	18.87715	7.471987	.2253940

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	k .1182671	z *****
Stddev	.2005493	-----
%RSD	169.5732	-----
#1	k .3498360	z 6624.651
#2	.0011036	z 6755.294
#3	.0038616	z 6749.950

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.909	^ *****	21590.67	4115.684	3515.869
Stddev	165.441	-----	25.51	329.767	150.502
%RSD	3.729583	-----	.1181456	8.012451	4.280646
#1	4575.551	^ -----	21596.13	4496.058	3643.263
#2	4478.986	119196.6	21562.88	3910.233	3554.537
#3	4253.191	119690.0	21613.01	3940.761	3349.805

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-06 Acquired: 3/19/2024 0:00:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4524887**	**-.035813**	**2.344956**	**-.025467**	**.0101748**	**266.4624**
Stddev	.0011389	.001771	.011050	.003903	.0026922	.6456
%RSD	.2516848	4.944249	.4712212	15.32445	26.45930	.2422772
#1	.4511863	-.036578	2.356569	-.029600	.0119865	267.1415
#2	.4529824	-.033788	2.343727	-.024958	.0114568	265.8566
#3	.4532973	-.037073	2.334572	-.021844	.0070812	266.3890

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.231143**	**.0138945**	**.0103778**	**77.46308**	**.3127987**	**.1138411**
Stddev	.003473	.0000822	.0001488	.21319	.0009585	.0005270
%RSD	.2820696	.5912365	1.433960	.2752185	.3064131	.4629112
#1	1.227145	.0139347	.0105147	77.37887	.3137091	.1144400
#2	1.232877	.0138000	.0103992	77.30487	.3128884	.1136349
#3	1.233408	.0139487	.0102194	77.70552	.3117985	.1134484

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9367934**	**304.1128**	**4.183829**	**57.22039**	**.2449345**	**.0130991**
Stddev	.0021115	.9270	.020616	.25177	.0011036	.0000068
%RSD	.2254022	.3048370	.4927489	.4400039	.4505503	.0516673
#1	.9392028	303.5712	4.163080	56.93329	.2458585	.0131031
#2	.9359121	303.5840	4.184098	57.32435	.2452323	.0131029
#3	.9352652	305.1833	4.204309	57.40354	.2437126	.0130913

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.495485**	**.5396752**	**1.327801**	**17.10005**	**.4580810**	**.0095749**
Stddev	.002105	.0018314	.004113	.02387	.0020321	.0000766
%RSD	.0843374	.3393472	.3097426	.1396062	.4436153	.7998189
#1	2.494350	.5380874	1.323873	17.10541	.4601743	.0096598
#2	2.494191	.5392595	1.327453	17.07395	.4561162	.0095538
#3	2.497913	.5416787	1.332077	17.12079	.4579527	.0095110

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-06 Acquired: 3/19/2024 0:00:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1356570	4.705184	.6079553	F 17.07134	4.546325	.2134168
Stddev	.0001345	.019501	.0043440	.10967	.029262	.0016734
%RSD	.0991589	.4144557	.7145326	.6424469	.6436405	.7840759
#1	.1356670	4.682763	.6109022	17.13824	4.580105	.2118766
#2	.1355177	4.718203	.6099971	17.13102	4.528777	.2151973
#3	.1357862	4.714584	.6029665	16.94477	4.530092	.2131765

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.026040	z *****
Stddev	.000703	-----
%RSD	2.700636	-----
#1	-.026475	z 6144.574
#2	-.025229	z 6140.186
#3	-.026417	z 6116.996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4477.039	120024.5	21674.42	4009.060	3625.366
Stddev	8.719	470.8	96.47	33.307	10.313
%RSD	.1947434	.3922604	.4450904	.8307916	.2844742
#1	4467.432	120337.0	21775.85	4036.929	3614.011
#2	4479.236	120253.4	21663.60	4018.078	3627.936
#3	4484.449	119483.0	21583.83	3972.172	3634.152

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-08 Acquired: 3/19/2024 0:05:14 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1987037	-.050282	5.760203	-.046786	.0318106	233.6874
Stddev	.0018024	.002573	.021948	.002629	.0012498	1.8424
%RSD	.9070846	5.117004	.3810297	5.619148	3.928958	.7883972
#1	.1994309	-.053144	5.735009	-.043967	.0303827	234.4261
#2	.1966513	-.049539	5.770418	-.047220	.0327056	231.5903
#3	.2000289	-.048162	5.775181	-.049171	.0323435	235.0458

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.198187	.0196058	.0278951	124.5425	.4624566	.2222656
Stddev	.007707	.0001311	.0003101	.2732	.0017027	.0007738
%RSD	.3505890	.6686216	1.111708	.2194003	.3681857	.3481386
#1	2.189982	.0197543	.0282318	124.8296	.4643925	.2213722
#2	2.205273	.0195567	.0276212	124.2856	.4611915	.2227066
#3	2.199306	.0195063	.0278323	124.5123	.4617858	.2227181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7045001	389.5843	7.928887	113.3083	.5025047	.0212966
Stddev	.0006565	.8697	.019306	.3333	.0024645	.0005070
%RSD	.0931806	.2232405	.2434940	.2941609	.4904378	2.380759
#1	.7047698	388.8229	7.942424	113.6846	.4996591	.0209163
#2	.7037517	390.5321	7.906779	113.0502	.5039053	.0218722
#3	.7049787	389.3979	7.937457	113.1901	.5039498	.0211012

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.044515	.8667268	2.882271	40.50146	^ *****	.0106843
Stddev	.028443	.0020109	.004618	.14507	-----	.0003113
%RSD	.4705595	.2320091	.1602153	.3581840	-----	2.913285
#1	6.034282	.8690033	2.886050	40.39296	^ -----	.0110118
#2	6.076658	.8659846	2.883639	40.66624	^ -----	.0103923
#3	6.022603	.8651925	2.877124	40.44520	^ -----	.0106490

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-08 Acquired: 3/19/2024 0:05:14 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6296226	F 13.05348	.2664073	F 11.39157	4.445534	.2376123
Stddev	.0025401	.00644	.0008025	.08068	.015167	.0016451
%RSD	.4034259	.0493249	.3012275	.7082286	.3411782	.6923601
#1	.6267976	13.05704	.2659819	11.30067	4.437193	.2378612
#2	.6303524	13.05735	.2659071	11.45470	4.463041	.2391187
#3	.6317179	13.04605	.2673330	11.41932	4.436368	.2358568

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0038214	z *****
Stddev	.0004666	-----
%RSD	12.21104	-----
#1	.0035212	z 9045.618
#2	.0035840	z 8999.253
#3	.0043590	z 9044.746

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4674.454	127593.6	22899.36	4192.500	3479.960
Stddev	5.755	270.5	15.68	17.923	4.681
%RSD	.1231121	.2120391	.0684523	.4274963	.1345027
#1	4668.026	127784.8	22885.94	4206.374	3485.349
#2	4679.128	127284.1	22895.55	4172.264	3477.628
#3	4676.206	127712.1	22916.59	4198.861	3476.904

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-09 Acquired: 3/19/2024 0:09:42 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2074527**	**-.047397**	**6.925209**	**-.041580**	**.0212265**	**226.9517**
Stddev	.0039793	.003946	.012045	.007022	.0026517	8.8738
%RSD	1.918163	8.324685	.1739268	16.88903	12.49235	3.909996
#1	.2030038	-.051313	6.939007	-.049335	.0183395	216.7333
#2	.2106720	-.047455	6.919816	-.039753	.0217867	232.7194
#3	.2086825	-.043422	6.916802	-.035652	.0235534	231.4023

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.258950**	**.0177713**	**.0257564**	**137.0811**	**.4725194**	**.2140775**
Stddev	.099170	.0008893	.0007027	6.1485	.0007199	.0008010
%RSD	4.390085	5.004368	2.728185	4.485312	.1523536	.3741410
#1	2.144508	.0167444	.0263501	129.9832	.4732609	.2149721
#2	2.312728	.0182881	.0249806	140.4928	.4718233	.2138336
#3	2.319615	.0182814	.0259385	140.7674	.4724741	.2134269

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7143479**	**367.1087**	**7.946240**	**124.4277**	**.8765227**	**.0214189**
Stddev	.0011807	2.1570	.346292	5.4937	.0005267	.0005366
%RSD	.1652835	.5875775	4.357935	4.415178	.0600855	2.505299
#1	.7145958	364.8306	7.546394	118.0914	.8771012	.0208050
#2	.7130630	369.1199	8.149390	127.8592	.8763960	.0216531
#3	.7153850	367.3755	8.142936	127.3324	.8760710	.0217986

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.518376**	**.9136041**	**2.899722**	**39.02270**	**.5774434**	**.0075106**
Stddev	.033915	.0387934	.002155	.37650	.0264712	.0001774
%RSD	.9639427	4.246196	.0743005	.9648151	4.584210	2.362138
#1	3.483638	.8688310	2.898314	38.58991	.6071676	.0073166
#2	3.551403	.9347845	2.898650	39.20346	.5687523	.0075504
#3	3.520088	.9371969	2.902202	39.27472	.5564104	.0076646

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-09 Acquired: 3/19/2024 0:09:42 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1540706	F 12.70069	.3320846	F 11.40368	4.744837	.2467103
Stddev	.0018209	.54619	.0055447	.02271	.014099	.0109299
%RSD	1.181834	4.300500	1.669677	.1991223	.2971406	4.430238
#1	.1520005	12.07005	.3280809	11.42990	4.754487	.2340897
#2	.1554244	13.02297	.3384134	11.39077	4.751367	.2530615
#3	.1547868	13.00904	.3297597	11.39037	4.728657	.2529797

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.023505	z *****
Stddev	.013374	-----
%RSD	56.89820	-----
#1	-.038876	z 7965.419
#2	-.017112	z 7922.259
#3	-.014528	z 7947.927

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4711.574	125750.0	23587.13	4124.670	3490.287
Stddev	25.376	428.8	958.63	17.033	16.075
%RSD	.5385844	.3410093	4.064196	.4129520	.4605763
#1	4717.590	126244.2	24691.76	4139.147	3488.343
#2	4733.401	125529.8	23096.61	4105.902	3507.247
#3	4683.731	125476.1	22973.03	4128.962	3475.273

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-11 Acquired: 3/19/2024 0:14:07 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1349614**	**-.034809**	**2.273353**	**-.039448**	**.0184642**	**189.4486**
Stddev	.0012196	.001541	.008471	.006391	.0015456	1.0990
%RSD	.9036765	4.426674	.3726334	16.20204	8.370721	.5801014
#1	.1335735	-.036586	2.263572	-.034049	.0177216	190.6725
#2	.1354483	-.033838	2.278343	-.037791	.0202409	189.1274
#3	.1358623	-.034003	2.278144	-.046505	.0174300	188.5461

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.617748**	**.0144140**	**.0168606**	**208.6352**	**.3840667**	**.1699469**
Stddev	.007425	.0001529	.0002086	1.3533	.0013161	.0006889
%RSD	.4589489	1.061043	1.237464	.6486445	.3426834	.4053719
#1	1.611498	.0143792	.0166289	208.7019	.3838315	.1692652
#2	1.615790	.0145814	.0170336	207.2498	.3854845	.1699325
#3	1.625955	.0142816	.0169192	209.9539	.3828840	.1706428

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5695848**	**300.3380**	**5.859210**	**144.4256**	**.3601770**	**.0172517**
Stddev	.0030820	.6895	.034279	.8963	.0004388	.0001600
%RSD	.5410961	.2295678	.5850392	.6205625	.1218353	.9272454
#1	.5663573	301.1336	5.851762	144.4821	.3598293	.0174030
#2	.5699003	299.9150	5.829269	143.5025	.3600316	.0172679
#3	.5724970	299.9655	5.896601	145.2923	.3606700	.0170843

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.768706**	**.6689356**	**1.881777**	**29.70756**	**.4657849**	**.0065923**
Stddev	.011060	.0037521	.003726	.11649	.0046977	.0003103
%RSD	.3994615	.5609030	.1980222	.3921079	1.008563	4.707329
#1	2.764600	.6666052	1.884206	29.62065	.4696648	.0063287
#2	2.781231	.6669377	1.883638	29.83991	.4671281	.0069343
#3	2.760286	.6732638	1.877487	29.66210	.4605619	.0065139

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-11 Acquired: 3/19/2024 0:14:07 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1098509	F 11.30759	.2374424	F 10.09322	4.103986	.2246870
Stddev	.0009496	.04733	.0031050	.02150	.033252	.0004022
%RSD	.8644610	.4185319	1.307687	.2130569	.8102462	.1789989
#1	.1088049	11.28440	.2339816	10.11497	4.068048	.2242313
#2	.1100888	11.27634	.2399842	10.07196	4.133662	.2249922
#3	.1106589	11.36204	.2383613	10.09274	4.110248	.2248375

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.1025544	z *****
Stddev	.0024642	-----
%RSD	2.402863	-----
#1	.1000830	z 6796.492
#2	.1025687	z 6802.085
#3	.1050114	z 6794.978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4467.380	121420.4	22304.00	3977.078	3404.499
Stddev	24.139	33.4	156.35	3.633	17.795
%RSD	.5403371	.0274983	.7010107	.0913469	.5226916
#1	4495.131	121416.7	22350.27	3978.922	3424.702
#2	4455.759	121455.4	22431.99	3979.420	3397.645
#3	4451.250	121388.9	22129.73	3972.893	3391.151

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-12 Acquired: 3/19/2024 0:18:26 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1371246**	**-.058216**	**2.028601**	**-.051493**	**.0190586**	**216.0469**
Stddev	.0037512	.005780	.057982	.006398	.0010338	1.3449
%RSD	2.735633	9.928590	2.858224	12.42441	5.424205	.6225090
#1	.1329116	-.054743	1.993461	-.045804	.0193547	214.5754
#2	.1401029	-.064889	2.095524	-.058418	.0179090	216.3527
#3	.1383592	-.055017	1.996817	-.050256	.0199120	217.2126

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.915409**	**.0178820**	**.0286299**	**167.4551**	**.4681917**	**.2532009**
Stddev	.004711	.0001088	.0028928	.4456	.0026742	.0082327
%RSD	.2459364	.6081363	10.10397	.2661059	.5711802	3.251458
#1	1.913824	.0179984	.0261976	167.8402	.4709246	.2486311
#2	1.911694	.0178646	.0318287	167.5580	.4655803	.2627049
#3	1.920707	.0177830	.0278634	166.9670	.4680702	.2482666

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5322132**	**392.3919**	**10.74919**	**134.1558**	**.4640386**	**.0200564**
Stddev	.0130417	3.1760	.01053	.4924	.0139967	.0008209
%RSD	2.450469	.8093983	.0979910	.3670279	3.016270	4.092726
#1	.5219541	394.6778	10.76046	134.6616	.4549493	.0208220
#2	.5468900	393.7327	10.74753	134.1277	.4801567	.0201575
#3	.5277955	388.7654	10.73959	133.6780	.4570098	.0191897

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.581808**	**.7924546**	**1.841460**	**37.82306**	**^ *****	**.0246294**
Stddev	.005028	.0026456	.005168	.01708	-----	.0007192
%RSD	.1947347	.3338491	.2806710	.0451475	-----	2.919893
#1	2.579917	.7954487	1.836121	37.84238	^ -----	.0243805
#2	2.587507	.7914827	1.846439	37.81001	^ -----	.0254400
#3	2.578000	.7904324	1.841820	37.81679	^ -----	.0240678

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-12 Acquired: 3/19/2024 0:18:26 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0941792	F 13.58823	.2247409	F 15.92555	F 16.57052	.2264762
Stddev	.0012800	.03190	.0054684	.41536	.54349	.0026190
%RSD	1.359075	.2347312	2.433222	2.608155	3.279833	1.156406
#1	.0927132	13.62477	.2253506	15.73222	16.22372	.2260477
#2	.0950752	13.56593	.2189931	16.40235	17.19689	.2240978
#3	.0947490	13.57400	.2298789	15.64210	16.29097	.2292830

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.064139	z *****
Stddev	.003828	-----
%RSD	5.968997	-----
#1	-.066492	z 9520.958
#2	-.066204	z 9535.301
#3	-.059722	z 9542.165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4807.329	131177.0	23777.51	4329.981	3330.669
Stddev	95.540	122.1	22.02	35.093	85.187
%RSD	1.987387	.0930823	.0926110	.8104617	2.557646
#1	4879.490	131049.6	23792.99	4361.277	3389.108
#2	4698.981	131188.5	23787.25	4292.041	3232.926
#3	4843.516	131293.0	23752.30	4336.623	3369.971

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-13 Acquired: 3/19/2024 0:22:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0669144**	**-.036308**	**.9734919**	**-.040801**	**.0154656**	**234.6304**
Stddev	.0011463	.001036	.0025911	.002508	.0012651	.7678
%RSD	1.713124	2.852897	.2661633	6.148072	8.179941	.3272450
#1	.0665332	-.036813	.9763436	-.040370	.0148536	233.8179
#2	.0660072	-.035116	.9728498	-.038535	.0169203	234.7293
#3	.0682027	-.036994	.9712821	-.043496	.0146229	235.3440

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.328422**	**.0160867**	**.0129881**	**94.78065**	**.6783784**	**.1901195**
Stddev	.005150	.0000639	.0003457	.38640	.0023212	.0002891
%RSD	.3876874	.3972535	2.661316	.4076803	.3421682	.1520520
#1	1.332973	.0160139	.0127566	95.11807	.6790267	.1901102
#2	1.322831	.0161123	.0128222	94.86476	.6803066	.1898351
#3	1.329463	.0161337	.0133854	94.35913	.6758021	.1904131

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4308730**	**331.4717**	**4.073943**	**101.5706**	**.3718531**	**.0146208**
Stddev	.0021792	1.1919	.013905	.3957	.0005148	.0002608
%RSD	.5057701	.3595634	.3413069	.3896045	.1384460	1.784060
#1	.4286114	331.7025	4.084700	101.8713	.3723053	.0146741
#2	.4310483	332.5313	4.078887	101.7183	.3719612	.0148509
#3	.4329592	330.1813	4.058242	101.1223	.3712929	.0143374

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.689969**	**.7233347**	**1.090193**	**28.27008**	**.4655002**	**.0059499**
Stddev	.050137	.0041329	.003758	.08950	.0054996	.0004178
%RSD	2.966724	.5713724	.3447174	.3165802	1.181432	7.022083
#1	1.662473	.7272738	1.087948	28.33846	.4661748	.0063864
#2	1.659597	.7236984	1.088099	28.16879	.4706314	.0055537
#3	1.747838	.7190319	1.094532	28.30300	.4596945	.0059098

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-13 Acquired: 3/19/2024 0:22:54 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0726052	F 12.11033	.5439527	9.167015	1.299699	.2151837
Stddev	.0008713	.02692	.0201956	.034562	.003550	.0007683
%RSD	1.200030	.2222976	3.712743	.3770223	.2731514	.3570451
#1	.0732360	12.14068	.5301096	9.185648	1.297242	.2147515
#2	.0716111	12.10093	.5346220	9.188262	1.303769	.2147287
#3	.0729685	12.08936	.5671265	9.127135	1.298086	.2160707

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.133093	z *****
Stddev	.001523	-----
%RSD	1.144242	-----
#1	-.132679	z 7689.841
#2	-.134780	z 7677.952
#3	-.131820	z 7672.402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4733.279	126853.7	22424.24	4257.137	3593.312
Stddev	27.554	272.5	54.79	15.753	8.545
%RSD	.5821232	.2147987	.2443255	.3700395	.2377957
#1	4757.741	126832.3	22379.87	4273.357	3600.678
#2	4738.666	126592.5	22407.37	4256.158	3595.315
#3	4703.430	127136.2	22485.48	4241.896	3583.944

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV06 Acquired: 3/19/2024 0:42:50 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.851788**	**4.721145**	**5.005539**	**4.793763**	**4.822281**	**9.847980**	**9.966377**
Stddev	.013397	.020099	.008248	.015946	.012892	.012602	.045703
%RSD	.2761342	.4257152	.1647701	.3326334	.2673515	.1279697	.4585699
#1	4.858522	4.700735	4.996041	4.785444	4.830392	9.850738	9.972405
#2	4.860483	4.740918	5.010895	4.812148	4.829037	9.858974	9.917960
#3	4.836360	4.721780	5.009681	4.783697	4.807415	9.834226	10.00877

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2520637**	**2.625340**	**24.99798**	**1.001797**	**2.578179**	**1.213835**	**5.493935**
Stddev	.0003440	.006481	.07180	.002060	.005341	.005171	.013621
%RSD	.1364645	.2468751	.2872103	.2056177	.2071760	.4259666	.2479342
#1	.2518020	2.619774	24.91523	1.000708	2.573104	1.216661	5.478715
#2	.2519357	2.623791	25.04367	1.000511	2.577681	1.216977	5.504980
#3	.2524533	2.632456	25.03506	1.004173	2.583752	1.207868	5.498111

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.530250**	**25.21630**	**2.625118**	**1.225852**	**25.45588**	**2.514691**	**2.492556**
Stddev	.004068	.03755	.003111	.000801	.08137	.008188	.005055
%RSD	.1607640	.1489237	.1184908	.0653697	.3196632	.3255891	.2028210
#1	2.525773	25.17298	2.621535	1.226152	25.44838	2.518372	2.498268
#2	2.531258	25.23956	2.626693	1.224944	25.54075	2.520393	2.490743
#3	2.533718	25.23637	2.627126	1.226460	25.37853	2.505309	2.488657

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.36225**	**5.136947**	**4.915153**	**4.756827**	**5.052368**	**4.757294**	**4.785304**
Stddev	.06964	.005309	.006035	.013258	.008790	.021049	.017549
%RSD	.2745876	.1033453	.1227817	.2787127	.1739700	.4424507	.3667306
#1	25.32499	5.142244	4.917354	4.742380	5.062448	4.733649	4.774884
#2	25.44260	5.131627	4.919778	4.759664	5.046301	4.773988	4.775462
#3	25.31916	5.136972	4.908326	4.768436	5.048356	4.764244	4.805565

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV06 Acquired: 3/19/2024 0:42:50 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	**4.544271**	**4.860573**	**5.045984**	z *****	
Stddev	.012794	.018664	.045823	-----	
%RSD	.2815465	.3839927	.9081112	-----	
#1	4.530307	4.875394	5.083589	z 2058.471	
#2	4.555431	4.866711	4.994945	z 2049.220	
#3	4.547075	4.839612	5.059417	z 2064.650	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4387.790**	**113879.6**	**19411.27**	**3860.892**	**4067.387**
Stddev	18.491	105.0	36.83	21.308	6.314
%RSD	.4214203	.0921849	.1897430	.5518964	.1552257
#1	4380.241	113781.1	19368.85	3846.338	4068.458
#2	4374.267	113867.7	19429.88	3850.989	4060.606
#3	4408.861	113990.1	19435.09	3885.350	4073.097

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB06 Acquired: 3/19/2024 0:51:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004870**	**.0005738**	**.0013456**	**-.000490**	**-.000346**	**-.003103**	**.0000893**
Stddev	.0013824	.0002269	.0004820	.000619	.000908	.001856	.0003446
%RSD	283.8675	39.54705	35.82557	126.2646	262.5277	59.80781	385.7837
#1	.0018204	.0008291	.0015152	.000218	-.001200	-.001662	-.000180
#2	-.000940	.0003951	.0008016	-.000930	.000607	-.005197	-.000030
#3	.000580	.0004971	.0017199	-.000758	-.000444	-.002450	.000478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000038**	**-.000026**	**.0015132**	**.0001508**	**-.000092**	**.0003242**	**.0011305**
Stddev	.000049	.000039	.0060980	.0002736	.000070	.0001403	.0006640
%RSD	130.1150	147.3841	402.9981	181.4233	75.82751	43.26916	58.73708
#1	-.000094	-.000045	-.002072	.0000419	-.000166	.0003151	.0015447
#2	-.000006	-.000052	.008554	-.000052	-.000026	.0004689	.0003646
#3	-.000013	.000018	-.001943	.000462	-.000085	.0001887	.0014823

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000087**	**-.013637**	**.0000079**	**.0001891**	**.0425326**	**-.000410**	**-.000009**
Stddev	.000188	.007204	.0001311	.0001569	.0049790	.001126	.000127
%RSD	215.5817	52.82867	1658.905	82.94020	11.70640	274.8882	1492.421
#1	.000128	-.006739	-.000137	.0001175	.0392270	-.000364	.000046
#2	-.000174	-.021113	.000118	.0003691	.0401116	.000693	.000082
#3	-.000216	-.013059	.000042	.0000809	.0482591	-.001558	-.000154

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0401933**	**-.008847**	**-.000167**	**.0008596**	**-.000361**	**-.000984**	**-.001006**
Stddev	.0036774	.000258	.000117	.0003598	.000507	.005950	.001565
%RSD	9.149353	2.917431	70.34540	41.86070	140.5351	604.5060	155.5358
#1	.0374654	-.008629	-.000258	.0011672	.000135	.000799	.000647
#2	.0443755	-.008781	-.000207	.0004639	-.000340	.003870	-.002465
#3	.0387391	-.009132	-.000035	.0009478	-.000878	-.007622	-.001202

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB06 Acquired: 3/19/2024 0:51:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0017643	-.001387	-.000096	z *****	
Stddev	.0033624	.000362	.000017	-----	
%RSD	190.5763	26.10237	18.12171	-----	
#1	-.001419	-.001338	-.000109	z 1768.690	
#2	.005281	-.001053	-.000103	z 1737.565	
#3	.001432	-.001772	-.000077	z 1739.234	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4716.732	120144.2	19696.29	4089.480	4694.884
Stddev	12.498	117.1	45.39	19.973	4.569
%RSD	.2649657	.0974674	.2304471	.4884117	.0973266
#1	4703.685	120131.3	19671.03	4112.116	4697.357
#2	4717.916	120267.1	19669.15	4074.336	4697.684
#3	4728.596	120034.0	19748.69	4081.988	4689.611

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-15 Acquired: 3/19/2024 0:56:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2017735	-.052112	5.956502	-.047664	.0234626	236.9342
Stddev	.0021248	.002414	.018481	.005926	.0007874	.7994
%RSD	1.053062	4.631954	.3102645	12.43354	3.355893	.3373778
#1	.2010272	-.049338	5.935876	-.040984	.0238681	236.0446
#2	.2001226	-.053739	5.962074	-.049719	.0225552	237.5921
#3	.2041708	-.053257	5.971555	-.052290	.0239647	237.1661

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.370705	.0193435	.0301102	132.0009	.4908761	.2323859
Stddev	.004165	.0002081	.0006446	.4474	.0033654	.0014236
%RSD	.1756864	1.075683	2.140963	.3389571	.6855802	.6125979
#1	2.368047	.0194619	.0293709	131.5304	.4903832	.2307951
#2	2.368564	.0191033	.0305551	132.4210	.4877844	.2328228
#3	2.375506	.0194654	.0304046	132.0511	.4944607	.2335398

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7175269	392.3401	7.780724	130.3073	.4977686	.0216591
Stddev	.0042168	1.6567	.018142	.4528	.0031736	.0001409
%RSD	.5876809	.4222579	.2331616	.3475086	.6375742	.6505161
#1	.7139652	393.6534	7.765153	130.4382	.4948646	.0218073
#2	.7164326	390.4788	7.800645	130.6803	.4972848	.0215268
#3	.7221830	392.8879	7.776373	129.8035	.5011563	.0216433

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.805517	.8295732	2.904783	37.31251	^ *****	.0128863
Stddev	.021128	.0028326	.005693	.12032	-----	.0001932
%RSD	.5552031	.3414465	.1959707	.3224706	-----	1.499204
#1	3.829790	.8315473	2.911000	37.41149	^ -----	.0126853
#2	3.795509	.8308445	2.899825	37.17858	^ -----	.0130706
#3	3.791253	.8263277	2.903524	37.34745	^ -----	.0129030

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-15 Acquired: 3/19/2024 0:56:05 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3033854	F 12.64805	.4420608	F 13.00419	4.040045	.2543878
Stddev	.0020901	.01398	.0086635	.00508	.008632	.0005749
%RSD	.6889344	.1105533	1.959790	.0390829	.2136658	.2259982
#1	.3009728	12.65847	.4514036	13.00181	4.030562	.2540756
#2	.3045374	12.65351	.4404862	13.00073	4.042127	.2540366
#3	.3046460	12.63216	.4342927	13.01003	4.047446	.2550513

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.057495	z *****
Stddev	.001744	-----
%RSD	3.033368	-----
#1	-.059201	z 8749.002
#2	-.055715	z 8714.869
#3	-.057570	z 8726.625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4987.921	133686.5	24081.49	4459.590	3483.983
Stddev	37.973	221.2	104.52	10.179	28.527
%RSD	.7613064	.1654882	.4340149	.2282498	.8188092
#1	5029.310	133897.3	24202.05	4455.689	3515.745
#2	4979.765	133706.1	24025.94	4451.938	3475.665
#3	4954.688	133456.1	24016.47	4471.142	3460.539

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-16 Acquired: 3/19/2024 1:00:35 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2714552	-.035178	7.500115	-.035504	.0135199	227.3342
Stddev	.0022381	.006595	.023763	.001008	.0021892	.2442
%RSD	.8244641	18.74747	.3168305	2.837851	16.19263	.1074168
#1	.2733512	-.034204	7.480405	-.034362	.0159392	227.2069
#2	.2720280	-.029124	7.526502	-.035883	.0129454	227.6157
#3	.2689865	-.042205	7.493438	-.036267	.0116753	227.1800

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.849835	.0156352	.0194458	65.20584	.4178160	.1718816
Stddev	.009944	.0001282	.0002839	.43566	.0010469	.0006664
%RSD	.5375702	.8196189	1.460116	.6681359	.2505714	.3877405
#1	1.838934	.0155024	.0194727	64.71161	.4172110	.1711874
#2	1.852159	.0156448	.0191494	65.37170	.4190249	.1725163
#3	1.858410	.0157582	.0197154	65.53422	.4172122	.1719412

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6934984	316.4156	5.364821	81.41382	.3852862	.0161841
Stddev	.0005662	.2496	.033924	.51425	.0012261	.0001509
%RSD	.0816400	.0788781	.6323339	.6316445	.3182365	.9324996
#1	.6928594	316.1393	5.330456	81.03310	.3840631	.0162625
#2	.6939377	316.4828	5.365722	81.20954	.3865153	.0162796
#3	.6936979	316.6248	5.398285	81.99881	.3852802	.0160101

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.829168	.7707950	2.799286	27.44546	.4932281	.0073645
Stddev	.004941	.0056744	.016435	.04656	.0060268	.0001716
%RSD	.2701432	.7361762	.5871196	.1696480	1.221905	2.330512
#1	1.826615	.7654855	2.783800	27.39173	.4973391	.0071984
#2	1.826026	.7701245	2.797528	27.47401	.4960353	.0073539
#3	1.834864	.7767748	2.816529	27.47064	.4863098	.0075411

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-16 Acquired: 3/19/2024 1:00:35 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1086745	9.018779	.4472167	F 12.76173	3.669978	.2225071
Stddev	.0016869	.046929	.0046764	.02444	.017381	.0014561
%RSD	1.552235	.5203527	1.045673	.1915047	.4736031	.6543872
#1	.1069231	8.980962	.4430474	12.73611	3.649923	.2213847
#2	.1102884	9.004076	.4463295	12.78479	3.679332	.2219841
#3	.1088119	9.071300	.4522731	12.76428	3.680679	.2241524

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.103519	z *****
Stddev	.001263	-----
%RSD	1.220510	-----
#1	-.104933	z 7262.557
#2	-.103122	z 7240.652
#3	-.102501	z 7240.252

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4761.031	126841.0	23005.98	4286.731	3596.895
Stddev	11.901	358.3	184.50	37.609	12.351
%RSD	.2499762	.2824760	.8019614	.8773370	.3433866
#1	4768.656	127175.4	23179.87	4315.602	3610.506
#2	4767.120	126884.8	23025.62	4300.390	3593.778
#3	4747.317	126462.9	22812.45	4244.201	3586.400

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-17 Acquired: 3/19/2024 1:04:57 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1837359**	**-.047574**	**5.309232**	**-.049059**	**.0188761**	**213.1410**
Stddev	.0034671	.003343	.008188	.002096	.0003029	1.6386
%RSD	1.886985	7.027592	.1542232	4.271573	1.604408	.7687926
#1	.1797578	-.044331	5.318213	-.048830	.0192194	211.2560
#2	.1861140	-.051009	5.307300	-.051260	.0187622	214.2253
#3	.1853360	-.047381	5.302183	-.047087	.0186467	213.9417

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.165950**	**.0192142**	**.0273146**	**140.8855**	**.4208176**	**.2143331**
Stddev	.002886	.0002698	.0003753	.4582	.0010130	.0004404
%RSD	.1332250	1.404165	1.373997	.3252450	.2407224	.2054779
#1	2.167022	.0192396	.0274901	140.7849	.4205905	.2148350
#2	2.162682	.0194703	.0275699	140.4859	.4219250	.2140109
#3	2.168147	.0189325	.0268836	141.3856	.4199375	.2141536

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7060578**	**352.6150**	**8.948039**	**108.1769**	**.4642958**	**.0166776**
Stddev	.0012120	.8247	.009143	.1390	.0011869	.0001580
%RSD	.1716537	.2338879	.1021758	.1284471	.2556384	.9473234
#1	.7073990	351.9228	8.949440	108.0687	.4654812	.0165838
#2	.7057330	352.3947	8.938277	108.3336	.4631073	.0165890
#3	.7050412	353.5275	8.956400	108.1284	.4642990	.0168600

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.758971**	**.7947641**	**2.966132**	**30.84866**	**^ *****	**.0081067**
Stddev	.012284	.0030121	.005700	.10380	-----	.0001255
%RSD	.4452293	.3789887	.1921792	.3364652	-----	1.548566
#1	2.772977	.7967899	2.959583	30.89239	^ -----	.0082287
#2	2.750029	.7961996	2.968840	30.73015	.4869103	.0081134
#3	2.753908	.7913028	2.969974	30.92343	.4912713	.0079779

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-17 Acquired: 3/19/2024 1:04:57 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2244094	F 11.12112	.3574058	F 11.64153	3.944811	.2321722
Stddev	.0011914	.02137	.0064059	.06016	.015093	.0014070
%RSD	.5309287	.1921391	1.792344	.5167531	.3826032	.6060048
#1	.2257162	11.14575	.3589668	11.70974	3.961990	.2318558
#2	.2233834	11.10759	.3628869	11.61885	3.933679	.2337104
#3	.2241285	11.11001	.3503636	11.59602	3.938763	.2309503

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.027510	z *****
Stddev	.000773	-----
%RSD	2.809560	-----
#1	-.026664	z 8254.541
#2	-.028179	z 8253.046
#3	-.027687	z 8196.414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4847.606	129622.9	22757.72	4368.050	3487.953
Stddev	6.716	342.8	72.78	18.764	4.117
%RSD	.1385435	.2644227	.3197969	.4295663	.1180439
#1	4849.034	129874.8	22836.55	4374.850	3483.718
#2	4840.291	129761.3	22743.55	4382.465	3488.198
#3	4853.493	129232.6	22693.08	4346.834	3491.942

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19 Acquired: 3/19/2024 1:09:19 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1387381	-.027942	3.746553	-.033200	.0195807	228.4225
Stddev	.0016057	.005172	.096482	.001425	.0016567	6.7425
%RSD	1.157373	18.51084	2.575224	4.291299	8.460727	2.951784
#1	.1371077	-.026388	3.800715	-.033836	.0195918	236.0643
#2	.1403180	-.033713	3.803784	-.034196	.0212318	225.8911
#3	.1387887	-.023725	3.635159	-.031568	.0179185	223.3119

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.761361	.0157938	.0167530	58.72132	.4421717	.1885425
Stddev	.058709	.0001449	.0015431	2.20739	.0026263	.0046674
%RSD	3.333152	.9176366	9.210703	3.759103	.5939449	2.475540
#1	1.829137	.0159559	.0171739	61.25412	.4404464	.1900438
#2	1.728716	.0156767	.0180419	57.70247	.4408745	.1922745
#3	1.726230	.0157488	.0150431	57.20736	.4451941	.1833091

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6178050	307.3230	6.225186	87.56315	.4157506	.0162825
Stddev	.0118364	2.5396	.226603	3.37742	.0109930	.0007797
%RSD	1.915879	.8263774	3.640103	3.857127	2.644138	4.788268
#1	.6241401	310.2264	6.485321	91.44362	.4215355	.0171688
#2	.6251256	306.2287	6.119543	85.95973	.4226431	.0157023
#3	.6041494	305.5140	6.070695	85.28610	.4030730	.0159765

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.118935	.8376950	1.890453	37.02609	.4411342	.0065781
Stddev	.017008	.0295678	.002870	.21584	.0127942	.0002056
%RSD	.5453187	3.529659	.1518206	.5829316	2.900298	3.125521
#1	3.135075	.8716921	1.891176	37.27504	.4263633	.0063422
#2	3.101175	.8234163	1.892893	36.89129	.4487609	.0067195
#3	3.120554	.8179764	1.887291	36.91195	.4482782	.0066725

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19 Acquired: 3/19/2024 1:09:19 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0947876	F 11.24342	.4554367	F 11.46140	3.803812	.2536244
Stddev	.0016184	.38917	.0107816	.33213	.102090	.0087730
%RSD	1.707351	3.461316	2.367302	2.897777	2.683877	3.459071
#1	.0955442	11.69183	.4433250	11.63200	3.852554	.2637538
#2	.0958891	11.04473	.4639869	11.67356	3.872395	.2484445
#3	.0929295	10.99370	.4589981	11.07865	3.686487	.2486750

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0299398	z *****
Stddev	.0089576	-----
%RSD	29.91875	-----
#1	.0402821	z 7537.725
#2	.0248954	z 7540.387
#3	.0246419	z 7564.857

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4950.566	131065.5	22861.01	4409.435	3699.143
Stddev	76.765	222.7	666.25	27.595	77.212
%RSD	1.550638	.1699358	2.914345	.6258178	2.087306
#1	4912.166	130835.7	22092.63	4383.034	3661.825
#2	4900.579	131280.4	23212.20	4407.185	3647.679
#3	5038.955	131080.3	23278.18	4438.086	3787.925

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19DUP Acquired: 3/19/2024 1:13:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1408097**	**-.033752**	**3.850302**	**-.035614**	**.0163407**	**226.0497**
Stddev	.0043800	.002766	.008550	.004003	.0016056	1.5739
%RSD	3.110549	8.194652	.2220507	11.23864	9.826030	.6962503
#1	.1370067	-.036232	3.850133	-.036424	.0146969	224.2365
#2	.1455986	-.034255	3.858934	-.039150	.0179053	227.0631
#3	.1398240	-.030769	3.841838	-.031268	.0164200	226.8494

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.748483**	**.0155472**	**.0179681**	**58.84935**	**.4454849**	**.1951976**
Stddev	.003359	.0000536	.0000883	.17589	.0024477	.0001087
%RSD	.1920994	.3449220	.4915569	.2988802	.5494420	.0556613
#1	1.750414	.0156091	.0179922	58.65707	.4441345	.1951565
#2	1.750431	.0155144	.0178703	58.88886	.4440100	.1953209
#3	1.744605	.0155182	.0180419	59.00212	.4483104	.1951156

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6282044**	**311.5823**	**6.216373**	**87.27425**	**.4276909**	**.0162853**
Stddev	.0012821	.4977	.012229	.12502	.0003613	.0004600
%RSD	.2040926	.1597425	.1967162	.1432439	.0844704	2.824418
#1	.6296557	311.2476	6.203306	87.24492	.4273345	.0160066
#2	.6272256	312.1543	6.218272	87.16651	.4276812	.0168161
#3	.6277320	311.3449	6.227541	87.41133	.4280569	.0160330

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.078142**	**.8328719**	**1.917624**	**37.23950**	**.4569617**	**.0059749**
Stddev	.017134	.0020437	.005124	.11318	.0039171	.0000998
%RSD	.5566226	.2453804	.2671867	.3039115	.8571954	1.669900
#1	3.093890	.8314918	1.915528	37.25415	.4582080	.0060428
#2	3.080641	.8352197	1.923463	37.34463	.4601040	.0058603
#3	3.059897	.8319042	1.913880	37.11971	.4525732	.0060214

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19DUP Acquired: 3/19/2024 1:13:39 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0967634	F 11.23396	.7280122	F 11.88863	3.924493	.2475628
Stddev	.0018185	.00941	.0063802	.02839	.021979	.0009635
%RSD	1.879349	.0837971	.8763847	.2388241	.5600409	.3891961
#1	.0947627	11.24361	.7345534	11.87705	3.899503	.2486699
#2	.0983160	11.23348	.7218062	11.86786	3.940822	.2471047
#3	.0972113	11.22480	.7276770	11.92099	3.933153	.2469139

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0233450	z *****
Stddev	.0003836	-----
%RSD	1.643295	-----
#1	.0237171	z 7651.738
#2	.0229508	z 7618.576
#3	.0233673	z 7629.114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4924.347	130938.7	23146.59	4409.364	3646.802
Stddev	19.508	449.5	105.77	19.258	10.484
%RSD	.3961457	.3432874	.4569547	.4367557	.2874859
#1	4903.115	131455.4	23260.90	4421.310	3637.031
#2	4941.479	130637.0	23126.68	4387.148	3657.877
#3	4928.449	130724.0	23052.19	4419.634	3645.499

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19LX5 Acquired: 3/19/2024 1:17:58 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264555	-.004939	.6184744	-.005868	.0036507	39.17305	.3071847
Stddev	.0032112	.002106	.0028709	.002194	.0018426	.12713	.0004387
%RSD	12.13810	42.63955	.4641853	37.39527	50.47244	.3245279	.1428277
#1	.0253062	-.007295	.6154190	-.003400	.0015635	39.02922	.3067122
#2	.0300831	-.003238	.6188884	-.007598	.0043367	39.21959	.3075792
#3	.0239770	-.004285	.6211158	-.006606	.0050518	39.27036	.3072627

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028979	.0003137	10.73053	.0827297	.0294877	.1177408	55.57846
Stddev	.0000490	.0000772	.08716	.0001349	.0003469	.0004233	.08248
%RSD	1.691773	24.61772	.8122429	.1630985	1.176563	.3595374	.1484016
#1	.0028416	.0003504	10.69755	.0826404	.0297168	.1181847	55.49916
#2	.0029202	.0003657	10.66468	.0826637	.0290885	.1173415	55.57243
#3	.0029317	.0002249	10.82937	.0828849	.0296578	.1176962	55.66379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146956	15.35272	.0662809	.0024420	.5249616	.1495160	.3391785
Stddev	.004693	.11478	.0003392	.0001953	.0030245	.0016634	.0013474
%RSD	.4091821	.7475909	.5118361	7.998718	.5761401	1.112536	.3972635
#1	1.142878	15.24415	.0660224	.0022255	.5215394	.1476394	.3403647
#2	1.145906	15.34120	.0661553	.0026050	.5260695	.1508088	.3377135
#3	1.152086	15.47283	.0666651	.0024956	.5272760	.1500999	.3394573

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.039267	.0669134	.0008406	.0108156	1.931530	.1318396	1.789541
Stddev	.003066	.0014886	.0000733	.0005969	.010625	.0022637	.009124
%RSD	.0507701	2.224713	8.715105	5.519011	.5500569	1.716985	.5098505
#1	6.042806	.0671315	.0007774	.0105358	1.919925	.1294502	1.780826
#2	6.037408	.0682809	.0009209	.0104100	1.933886	.1321165	1.788773
#3	6.037587	.0653277	.0008236	.0115010	1.940778	.1339520	1.799025

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19LX5 Acquired: 3/19/2024 1:17:58 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5570655	.0414185	.0039533	z *****
Stddev	.0013031	.0004448	.0000786	-----
%RSD	.2339215	1.073905	1.988690	-----
#1	.5556220	.0419316	.0038718	z 2759.696
#2	.5574193	.0411435	.0040287	z 2759.084
#3	.5581551	.0411803	.0039592	z 2788.036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4698.456	120794.4	20203.51	4155.026	4229.628
Stddev	9.072	193.6	70.80	25.005	4.269
%RSD	.1930869	.1602733	.3504099	.6017979	.1009413
#1	4701.086	120603.4	20226.42	4128.174	4227.436
#2	4705.922	120789.3	20260.01	4159.263	4234.548
#3	4688.359	120990.5	20124.09	4177.642	4226.900

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19MS Acquired: 3/19/2024 1:36:12 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8452517**	**1.847239**	**4.921730**	**1.628576**	**.6855339**	**232.6252**
Stddev	.0047291	.015850	.015518	.006241	.0042369	.1444
%RSD	.5594852	.8580224	.3152866	.3832026	.6180371	.0620795
#1	.8473319	1.837812	4.918831	1.624584	.6836709	232.6895
#2	.8398392	1.838367	4.907867	1.625377	.6825477	232.7264
#3	.8485841	1.865538	4.938493	1.635768	.6903830	232.4598

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.850523**	**.1864104**	**.2202286**	**62.78641**	**.7827603**	**.3850922**
Stddev	.004113	.0012960	.0010339	.38537	.0018536	.0018856
%RSD	.2222708	.6952382	.4694776	.6137733	.2368040	.4896438
#1	1.847489	.1872312	.2199749	62.99773	.7811311	.3849147
#2	1.848876	.1870837	.2193452	63.01988	.7847771	.3833017
#3	1.855205	.1849164	.2213658	62.34161	.7823729	.3870603

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8815336**	**308.5666**	**5.433586**	**86.37396**	**.9215782**	**.0803027**
Stddev	.0017525	1.2454	.028451	.71904	.0032018	.0003065
%RSD	.1987964	.4036217	.5236174	.8324762	.3474247	.3816568
#1	.8826208	308.3837	5.449664	86.88582	.9202460	.0803200
#2	.8795120	309.8935	5.450358	86.68418	.9192576	.0806002
#3	.8824681	307.4228	5.400735	85.55189	.9252310	.0799880

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.915939**	**1.067477**	**2.076641**	**46.61273**	**.7182299**	**.3400745**
Stddev	.046608	.004729	.006528	.33231	.0046997	.0009177
%RSD	.7878333	.4430300	.3143575	.7129149	.6543386	.2698388
#1	5.881702	1.070698	2.077056	46.28084	.7147635	.3400822
#2	5.897098	1.069686	2.069915	46.61190	.7235790	.3391530
#3	5.969018	1.062047	2.082951	46.94546	.7163473	.3409883

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19MS Acquired: 3/19/2024 1:36:12 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7875463	F 11.87253	9.298249	F 19.54193	4.400430	.4198726
Stddev	.0028736	.03916	.005687	.08197	.011343	.0019001
%RSD	.3648794	.3298610	.0611633	.4194427	.2577814	.4525476
#1	.7877930	11.89392	9.302717	19.50657	4.388241	.4182270
#2	.7845572	11.89633	9.291847	19.48357	4.402371	.4194386
#3	.7902885	11.82733	9.300182	19.63564	4.410677	.4219522

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2036449	z *****
Stddev	.0021602	-----
%RSD	1.060793	-----
#1	.2040363	z 19156.29
#2	.2013157	z 19111.71
#3	.2055827	z 19050.81

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4906.340	129672.8	22965.35	4413.791	3522.074
Stddev	5.226	456.0	32.61	29.149	11.421
%RSD	.1065051	.3516744	.1420025	.6604090	.3242721
#1	4906.607	130145.0	22934.49	4424.900	3528.280
#2	4911.426	129638.5	22962.09	4435.751	3529.049
#3	4900.985	129234.9	22999.47	4380.720	3508.894

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19MSD Acquired: 3/19/2024 1:40:25 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8507509**	**1.800307**	**4.881145**	**1.639992**	**.6956143**	**226.9196**
Stddev	.0164613	.072171	.084206	.030039	.0086592	2.2536
%RSD	1.934911	4.008811	1.725128	1.831668	1.244834	.9931053
#1	.8350146	1.745505	4.817478	1.619419	.6885681	224.6694
#2	.8678522	1.882079	4.976622	1.674463	.7052811	226.9130
#3	.8493858	1.773339	4.849334	1.626094	.6929936	229.1765

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.819107**	**.1820892**	**.2192121**	**61.39821**	**.7714901**	**.3836121**
Stddev	.010626	.0016832	.0051292	.25945	.0058230	.0074109
%RSD	.5841369	.9243684	2.339816	.4225699	.7547712	1.931874
#1	1.806879	.1832393	.2153829	61.51260	.7748716	.3777180
#2	1.826092	.1801573	.2250396	61.10122	.7647663	.3919319
#3	1.824351	.1828710	.2172137	61.58080	.7748323	.3811864

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8872725**	**307.7557**	**5.311643**	**84.16789**	**.9188262**	**.0801392**
Stddev	.0123967	.3088	.007006	.12968	.0171092	.0002452
%RSD	1.397169	.1003550	.1318983	.1540744	1.862069	.3059245
#1	.8774585	308.0376	5.311993	84.31598	.9060444	.0799727
#2	.9012040	307.8039	5.304468	84.11309	.9382629	.0804207
#3	.8831549	307.4256	5.318467	84.07461	.9121714	.0800242

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.924445**	**1.044964**	**2.060145**	**46.74962**	**.7392166**	**.3455310**
Stddev	.054901	.000865	.005233	.34269	.0022531	.0053522
%RSD	.9266855	.0827941	.2540273	.7330270	.3047980	1.548972
#1	5.866571	1.044857	2.058258	46.36045	.7411440	.3410838
#2	5.975789	1.045878	2.066060	47.00621	.7397664	.3514711
#3	5.930974	1.044158	2.056117	46.88220	.7367395	.3440380

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19MSD Acquired: 3/19/2024 1:40:25 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7884691	F 11.59966	9.310242	F 19.22929	4.323646	.4102579
Stddev	.0160743	.03101	.031142	.27205	.095598	.0027452
%RSD	2.038667	.2673167	.3344917	1.414778	2.211055	.6691301
#1	.7764514	11.56456	9.285098	19.06899	4.257375	.4070905
#2	.8067279	11.62335	9.345078	19.54340	4.433235	.4117349
#3	.7822278	11.61107	9.300551	19.07547	4.280328	.4119485

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.1961006	z *****
Stddev	.0024448	-----
%RSD	1.246693	-----
#1	.1932810	z 18876.85
#2	.1973919	z 18831.55
#3	.1976290	z 18790.57

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4887.714	129422.8	23462.55	4409.080	3549.077
Stddev	48.339	134.4	61.74	36.116	50.064
%RSD	.9889906	.1038796	.2631575	.8191369	1.410632
#1	4930.169	129573.9	23453.77	4430.403	3589.185
#2	4835.105	129316.3	23528.21	4367.380	3492.968
#3	4897.869	129378.2	23405.66	4429.456	3565.077

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19A Acquired: 3/19/2024 1:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8300119**	**1.797555**	**4.836965**	**1.603784**	**.6788175**	**223.9694**
Stddev	.0053727	.042417	.009727	.001812	.0010122	1.9909
%RSD	.6473001	2.359723	.2011046	.1130035	.1491044	.8889050
#1	.8362106	1.830193	4.825749	1.605825	.6777775	221.6732
#2	.8266936	1.812862	4.842054	1.603161	.6797993	225.2145
#3	.8271316	1.749608	4.843092	1.602364	.6788756	225.0204

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.806543**	**.1822456**	**.2168424**	**61.34740**	**.7652846**	**.3799343**
Stddev	.010996	.0009108	.0001995	.15187	.0020212	.0005635
%RSD	.6086811	.4997621	.0919974	.2475628	.2641133	.1483212
#1	1.794218	.1832034	.2167897	61.44385	.7671310	.3796837
#2	1.810060	.1821429	.2170630	61.17233	.7655977	.3795396
#3	1.815350	.1813905	.2166746	61.42601	.7631251	.3805797

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8694923**	**303.7950**	**5.292054**	**83.79102**	**.9087215**	**.0793330**
Stddev	.0002303	.8665	.009565	.41799	.0003383	.0003007
%RSD	.0264829	.2852380	.1807361	.4988473	.0372279	.3789793
#1	.8693258	304.7446	5.301746	84.24614	.9086936	.0790047
#2	.8693959	303.0471	5.282622	83.42429	.9090728	.0793994
#3	.8697550	303.5932	5.291794	83.70264	.9083979	.0795949

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.814741**	**1.039572**	**2.040732**	**46.11187**	**.7207868**	**.3381414**
Stddev	.021007	.000440	.008140	.26750	.0046518	.0003345
%RSD	.3612637	.0422876	.3988942	.5801188	.6453763	.0989259
#1	5.791381	1.039727	2.032045	45.82193	.7261307	.3382186
#2	5.820766	1.039913	2.048185	46.16461	.7176442	.3384306
#3	5.832077	1.039076	2.041966	46.34908	.7185856	.3377751

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-19A Acquired: 3/19/2024 1:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7797779**	F **11.52085**	**9.265046**	F **19.11002**	**4.285532**	**.4075527**
Stddev	.0010213	.01542	.012792	.04832	.011622	.0027209
%RSD	.1309738	.1338309	.1380695	.2528510	.2711995	.6676152
#1	.7796809	11.50822	9.279706	19.07562	4.295244	.4044611
#2	.7808442	11.51630	9.259278	19.08919	4.288697	.4086139
#3	.7788086	11.53803	9.256154	19.16527	4.272655	.4095830

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.1972933**	z *****
Stddev	.0033519	-----
%RSD	1.698940	-----
#1	.1934592	z 18971.07
#2	.1987521	z 18991.46
#3	.1996686	z 18967.99

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5008.466**	**130980.6**	**23503.60**	**4457.543**	**3604.232**
Stddev	17.098	117.9	28.04	15.546	12.891
%RSD	.3413894	.0900357	.1193052	.3487489	.3576624
#1	5028.210	130874.8	23484.13	4475.349	3619.063
#2	4998.695	131107.7	23535.74	4446.668	3595.710
#3	4998.495	130959.3	23490.92	4450.613	3597.925

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-04 Acquired: 3/19/2024 1:48:49 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3967267**	**-.040965**	**1.924514**	**-.030900**	**.0141244**	**280.7602**
Stddev	.0044846	.001644	.007388	.002190	.0021289	.5750
%RSD	1.130411	4.012416	.3838963	7.087338	15.07221	.2047966
#1	.4009753	-.040730	1.923390	-.032032	.0160490	280.6018
#2	.3920384	-.042713	1.917752	-.032293	.0118377	280.2810
#3	.3971665	-.039451	1.932400	-.028376	.0144864	281.3978

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.305344**	**.0165451**	**.0130277**	**84.44333**	**.3705325**	**.1566547**
Stddev	.005439	.0000817	.0000644	.26705	.0016412	.0007324
%RSD	.4166768	.4936982	.4939132	.3162477	.4429382	.4675411
#1	1.299079	.0166328	.0129597	84.73716	.3720141	.1558224
#2	1.308084	.0165314	.0130876	84.37742	.3708151	.1569409
#3	1.308867	.0164712	.0130357	84.21540	.3687683	.1572008

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8641525**	**335.8144**	**5.383023**	**67.13541**	**.3097892**	**.0100970**
Stddev	.0026060	.2934	.007407	.23611	.0007620	.0001630
%RSD	.3015620	.0873692	.1376076	.3516953	.2459635	1.614568
#1	.8618221	335.7521	5.389560	67.36003	.3098211	.0101970
#2	.8636692	335.5571	5.374977	66.88928	.3090118	.0101851
#3	.8669663	336.1339	5.384531	67.15692	.3105348	.0099089

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.457564**	**.6102868**	**1.523903**	**21.40052**	**.5025781**	**.0114828**
Stddev	.014805	.0041494	.003033	.11559	.0007599	.0003561
%RSD	.6024220	.6799073	.1990112	.5401322	.1512014	3.100788
#1	2.440877	.6107053	1.521333	21.27052	.5017729	.0118063
#2	2.469125	.6059440	1.527248	21.49171	.5026788	.0111013
#3	2.462688	.6142110	1.523128	21.43934	.5032826	.0115409

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: P1746-04 Acquired: 3/19/2024 1:48:49 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0543398	5.616219	.5431109	F 18.30541	7.314678	.2194540
Stddev	.0000965	.015618	.0071267	.07964	.021197	.0018068
%RSD	.1775983	.2780885	1.312197	.4350455	.2897912	.8233329
#1	.0543234	5.612925	.5477705	18.33112	7.291113	.2178784
#2	.0544435	5.602511	.5466552	18.21610	7.320728	.2214262
#3	.0542526	5.633221	.5349069	18.36902	7.332192	.2190572

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0028107	z *****
Stddev	.0010522	-----
%RSD	37.43413	-----
#1	.0015990	z 6939.784
#2	.0034936	z 6922.071
#3	.0033393	z 6916.567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4681.278	123423.7	21748.03	4181.846	3543.273
Stddev	16.963	135.1	32.15	13.056	17.060
%RSD	.3623565	.1094915	.1478235	.3122104	.4814872
#1	4697.755	123579.0	21715.11	4194.428	3559.230
#2	4682.212	123359.4	21779.34	4182.748	3545.298
#3	4663.867	123332.8	21749.63	4168.362	3525.290

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV07 Acquired: 3/19/2024 1:53:09 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.800631**	**4.917022**	**5.239127**	**4.755081**	**4.775441**	**9.820380**	**9.640108**
Stddev	.007030	.128109	.017810	.015296	.003716	.023165	.037692
%RSD	.1464435	2.605410	.3399504	.3216784	.0778054	.2358822	.3909940
#1	4.796269	4.770063	5.219710	4.737426	4.772309	9.794556	9.653059
#2	4.796882	5.005133	5.242965	4.764354	4.774468	9.839329	9.597647
#3	4.808741	4.975869	5.254706	4.763463	4.779546	9.827255	9.669617

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2592457**	**2.744328**	**25.35683**	**1.002971**	**2.712869**	**1.214184**	**5.386341**
Stddev	.0031143	.010268	.11484	.003917	.007313	.000160	.038483
%RSD	1.201287	.3741462	.4529068	.3904989	.2695782	.0132030	.7144577
#1	.2628402	2.732999	25.48479	1.004401	2.704510	1.214144	5.341996
#2	.2575399	2.746962	25.26272	1.005972	2.718091	1.214360	5.410973
#3	.2573570	2.753022	25.32298	.998540	2.716004	1.214047	5.406055

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.519527**	**25.15089**	**2.728814**	**1.235303**	**24.50754**	**2.474309**	**2.460707**
Stddev	.004580	.07174	.008271	.002151	.28068	.004611	.010064
%RSD	.1817820	.2852576	.3030846	.1740934	1.145264	.1863630	.4089930
#1	2.524808	25.10422	2.720000	1.232873	24.19760	2.476239	2.455545
#2	2.516644	25.23350	2.730036	1.236963	24.74455	2.477641	2.454271
#3	2.517128	25.11494	2.736405	1.236072	24.58047	2.469046	2.472305

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.70325**	**5.242486**	**4.887039**	**4.990523**	**4.870036**	**4.716386**	**5.028198**
Stddev	.16319	.039447	.009920	.028713	.008274	.056991	.023449
%RSD	.6605815	.7524508	.2029785	.5753420	.1698969	1.208353	.4663556
#1	24.52226	5.285531	4.875659	4.957405	4.860617	4.650719	5.001690
#2	24.83914	5.208064	4.891604	5.005736	4.876131	4.745507	5.036672
#3	24.74836	5.233862	4.893855	5.008428	4.873360	4.752933	5.046233

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCV07 Acquired: 3/19/2024 1:53:09 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	**4.785016**	**4.778035**	**4.938078**	z *****
Stddev	.026894	.013072	.049086	-----
%RSD	.5620437	.2735830	.9940389	-----
#1	4.756294	4.763472	4.972303	z 2090.501
#2	4.809602	4.788753	4.881838	z 2084.995
#3	4.789152	4.781881	4.960093	z 2055.035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4463.532**	**112768.4**	**18907.95**	**3894.548**	**3968.015**
Stddev	19.632	292.9	156.21	17.084	11.280
%RSD	.4398202	.2597483	.8261532	.4386559	.2842711
#1	4440.865	112817.7	18727.84	3900.020	3955.225
#2	4474.672	112453.9	18989.54	3908.225	3972.279
#3	4475.060	113033.5	19006.48	3875.399	3976.541

Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB07 Acquired: 3/19/2024 1:57:30 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021400**	**-.000883**	**.0018130**	**.0013738**	**.0009220**	**.0010701**	**.0005861**
Stddev	.0008931	.000832	.0009529	.0009788	.0017023	.0018419	.0001532
%RSD	41.73494	94.22204	52.55850	71.24788	184.6286	172.1282	26.12928
#1	.0024076	-.001568	.0009205	.0024622	.0020349	-.000720	.0004099
#2	.0011437	.000043	.0028165	.0005659	.0017688	.000970	.0006866
#3	.0028687	-.001124	.0017019	.0010933	-.001038	.002960	.0006619

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**.0000560**	**.0008548**	**-.000047**	**.0001264**	**.0004616**	**.0017845**
Stddev	.000018	.0000261	.0035249	.000278	.0001224	.0000625	.0003012
%RSD	124.8479	46.68759	412.3666	588.9198	96.82915	13.54379	16.87714
#1	.000006	.0000860	.0049202	.000068	.0001535	.0004062	.0016000
#2	-.000027	.0000386	-.001349	.000154	.0002330	.0004492	.0016214
#3	-.000022	.0000433	-.001007	-.000364	-.000007	.0005294	.0021320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000036**	**-.006427**	**-.000005**	**-.000022**	**.0423950**	**-.001036**	**.0000466**
Stddev	.000187	.007285	.000196	.000095	.0023192	.001425	.0002075
%RSD	524.4851	113.3620	3983.902	433.3629	5.470552	137.4724	445.2679
#1	-.000153	-.001394	.000183	-.000086	.0417166	-.002373	-.000119
#2	-.000133	-.003105	-.000207	-.000067	.0404906	-.001197	.000280
#3	.000180	-.014781	.000009	.000088	.0449778	.000462	-.000021

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0582361**	**-.010567**	**.0002509**	**.0013822**	**.0013091**	**.0053440**	**-.000917**
Stddev	.0029534	.000473	.0001213	.0007302	.0008734	.0034662	.001589
%RSD	5.071396	4.471529	48.34036	52.83193	66.71806	64.86142	173.2109
#1	.0598412	-.010464	.0003908	.0006308	.0018876	.0027161	-.000532
#2	.0600393	-.011083	.0001856	.0020893	.0003044	.0092723	-.002664
#3	.0548277	-.010155	.0001762	.0014265	.0017352	.0040435	.000443

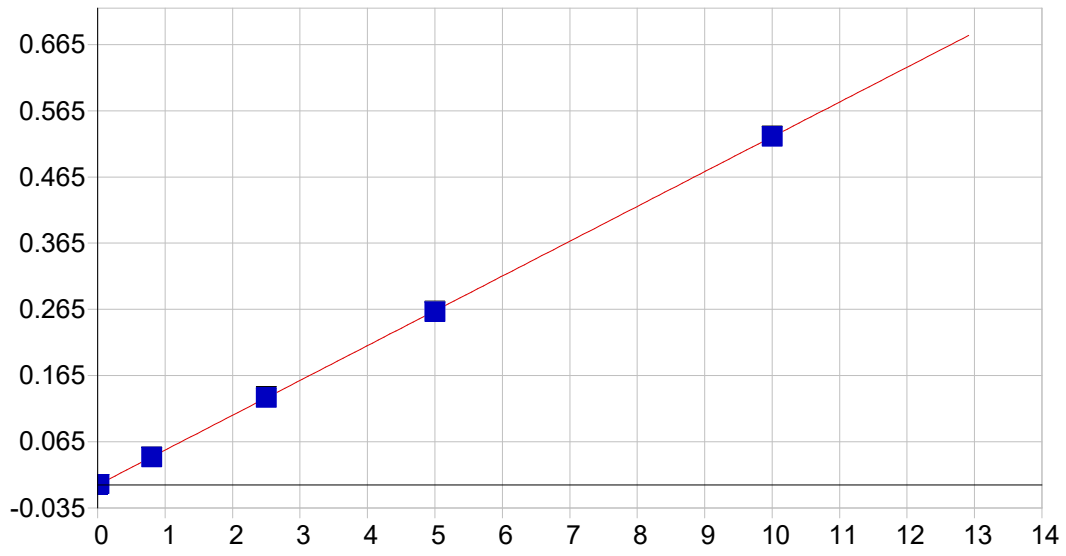
Reviewed By:Kareem
On:3/27/2024 4:32:26 PM
Inst Id :P4
LB :LB129934

Sample Name: CCB07 Acquired: 3/19/2024 1:57:30 Type: Unk
Method: NON EPA-6010-200.7(v2199) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0008972	.0002470	.0000645	z *****	
Stddev	.0025627	.0013537	.0000038	-----	
%RSD	285.6325	548.1743	5.932370	-----	
#1	-.001758	-.000373	.0000630	z 1786.057	
#2	.003356	.001800	.0000689	z 1802.287	
#3	.001094	-.000685	.0000617	z 1794.147	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4653.233	119284.3	19093.46	4080.994	4503.397
Stddev	11.611	326.7	14.40	20.198	8.203
%RSD	.2495189	.2738523	.0754343	.4949277	.1821454
#1	4646.658	118919.2	19090.80	4063.774	4506.445
#2	4666.639	119384.8	19109.01	4103.226	4509.639
#3	4646.401	119548.9	19080.57	4075.984	4494.106

Reviewed By:
On:
Inst Id :P4
LB :LB129987



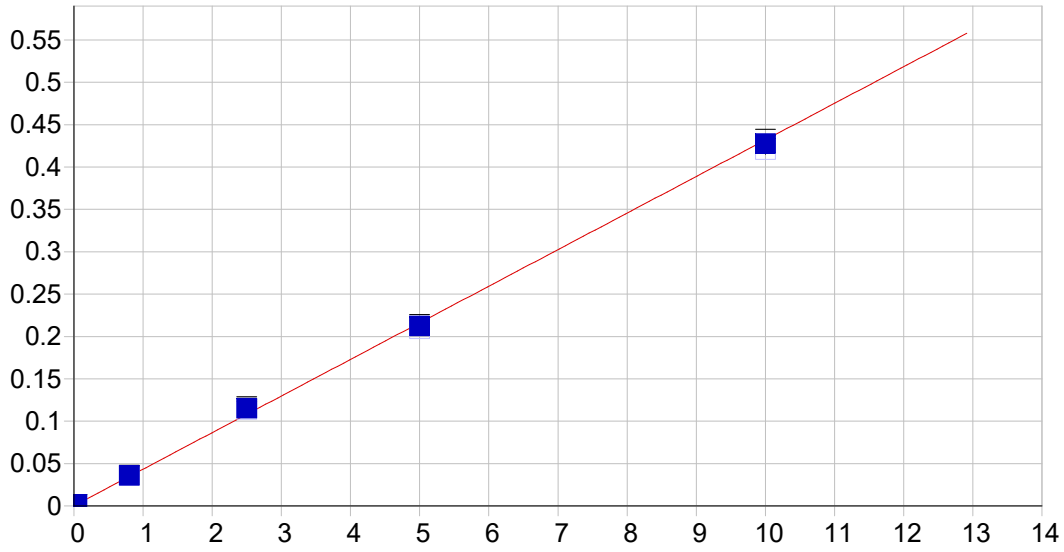
As 189.042 {479}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	0.052572	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.002424		
Predicted MQL:	0.008082		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.02266	.003	13.3	.00109	.000	1
S3	2.5000	2.5120	.012	.480	.13194	.001	1
S4	5.0000	4.9761	-.024	-.477	.26147	.001	1
S5	10.000	10.012	.012	.118	.52617	.000	1
S2	.80000	.79739	-.003	-.327	.04181	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



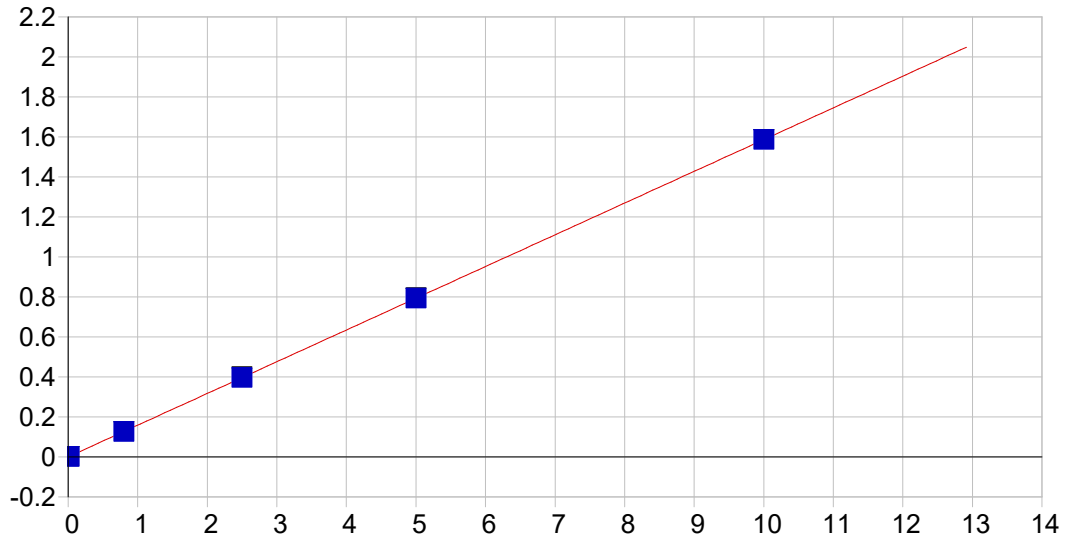
Tl 190.856 {477}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000198	Re-Slope:	1.000000
A1 (Gain):	0.043181	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999581	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.002231		
Predicted MQL:	0.007437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00020	.000	1
S1	.04000	.04332	.003	8.31	.00196	.000	1
S3	2.5000	2.6652	.165	6.61	.11354	.002	1
S4	5.0000	4.9095	-.091	-1.81	.20870	.002	1
S5	10.000	9.8946	-.105	-1.05	.42047	.005	1
S2	.80000	.82754	.028	3.44	.03537	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



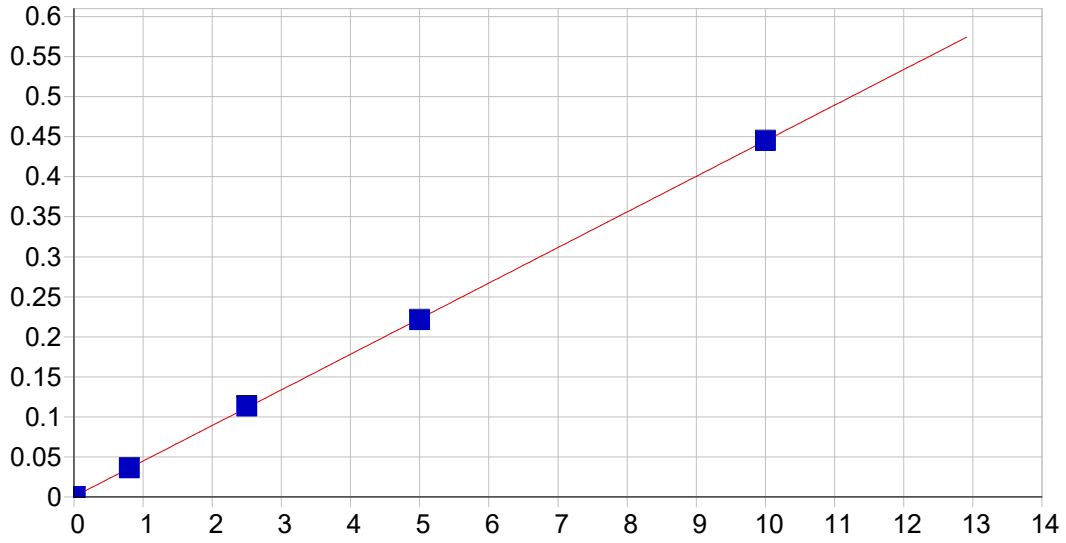
Pb 220.353 {453}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.158641	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001441		
Predicted MQL:	0.004803		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.01200	.01007	-.002	-16.0	.00160	.000	1
S3	2.5000	2.4993	-.001	-.028	.39643	.003	1
S4	5.0000	5.0065	.006	.130	.79409	.002	1
S5	10.000	10.001	.001	.014	1.5863	.001	1
S2	.80000	.79473	-.005	-.658	.12607	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



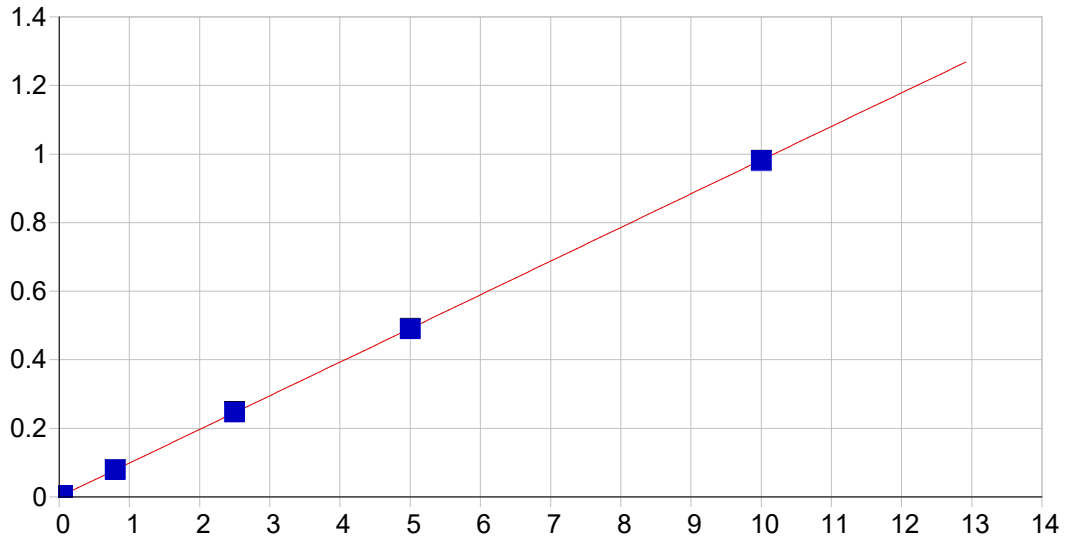
Se 196.090 {472}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000365	Re-Slope:	1.000000
A1 (Gain):	0.044451	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.003793		
Predicted MQL:	0.012643		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00036	.000	1
S1	.02000	.01873	-.001	-6.33	.00120	.000	1
S3	2.5000	2.5348	.035	1.39	.11310	.001	1
S4	5.0000	4.9621	-.038	-.758	.22105	.001	1
S5	10.000	9.9993	-.001	-.007	.44508	.001	1
S2	.80000	.80504	.005	.630	.03617	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



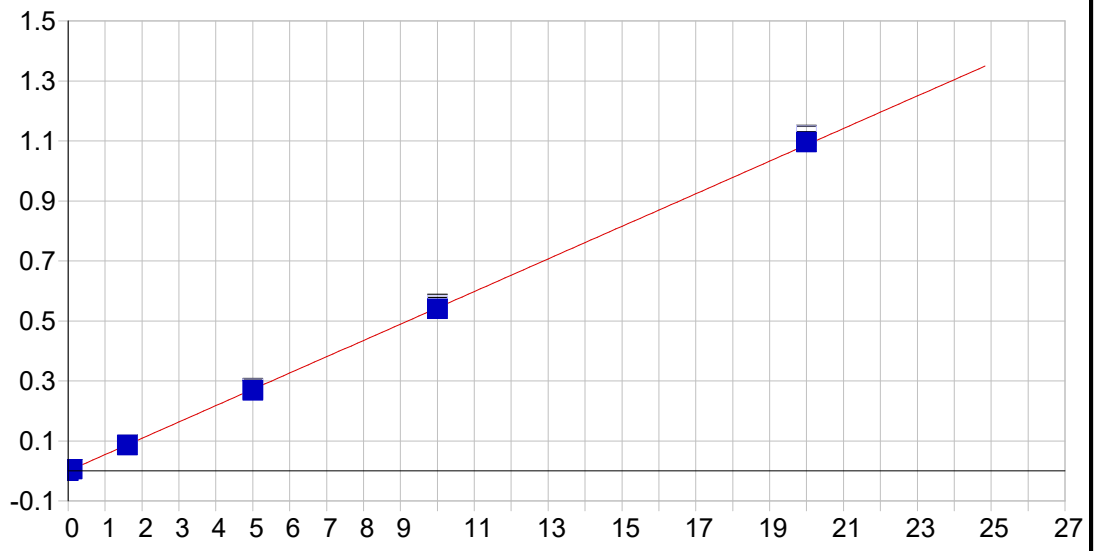
Sb 206.833 {463}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000364	Re-Slope:	1.000000
A1 (Gain):	0.098182	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.001930		
Predicted MQL:	0.006434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00036	.000	1
S1	.05000	.05551	.006	11.0	.00580	.000	1
S3	2.5000	2.5141	.014	.566	.24650	.002	1
S4	5.0000	4.9877	-.012	-.246	.48866	.001	1
S5	10.000	9.9903	-.010	-.097	.97842	.001	1
S2	.80000	.80238	.002	.298	.07892	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



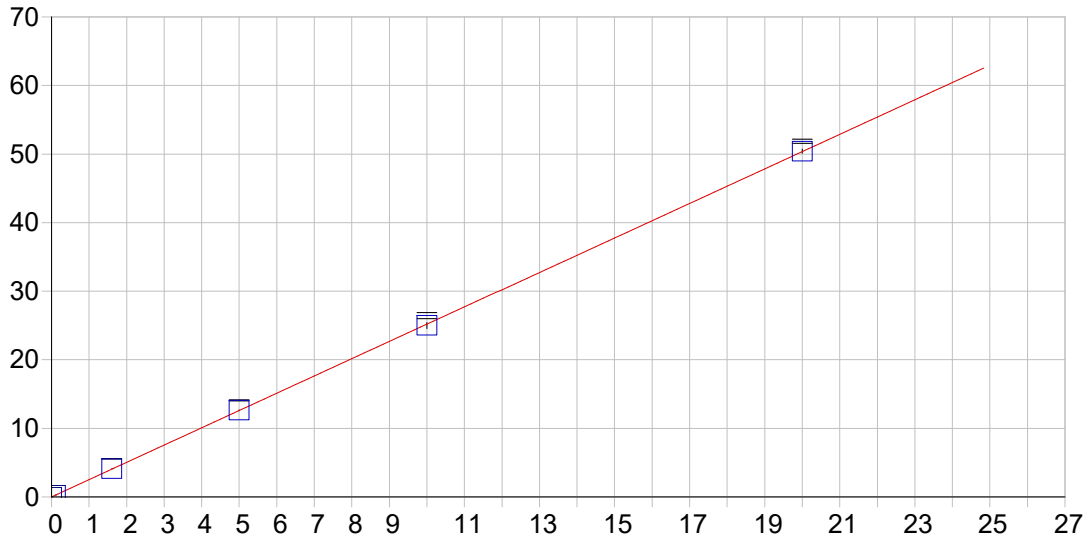
Al 396.152 { 85}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000246	Re-Slope:	1.000000
A1 (Gain):	0.054331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.008410		
Predicted MQL:	0.028032		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00025	.000	1
S1	.10000	.10414	.004	4.14	.00632	.000	1
S3	5.0000	4.9291	-.071	-1.42	.27352	.001	1
S4	10.000	9.9303	-.070	-.697	.55070	.006	1
S5	20.000	20.156	.156	.780	1.1172	.002	1
S2	1.6000	1.5802	-.020	-1.24	.08785	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



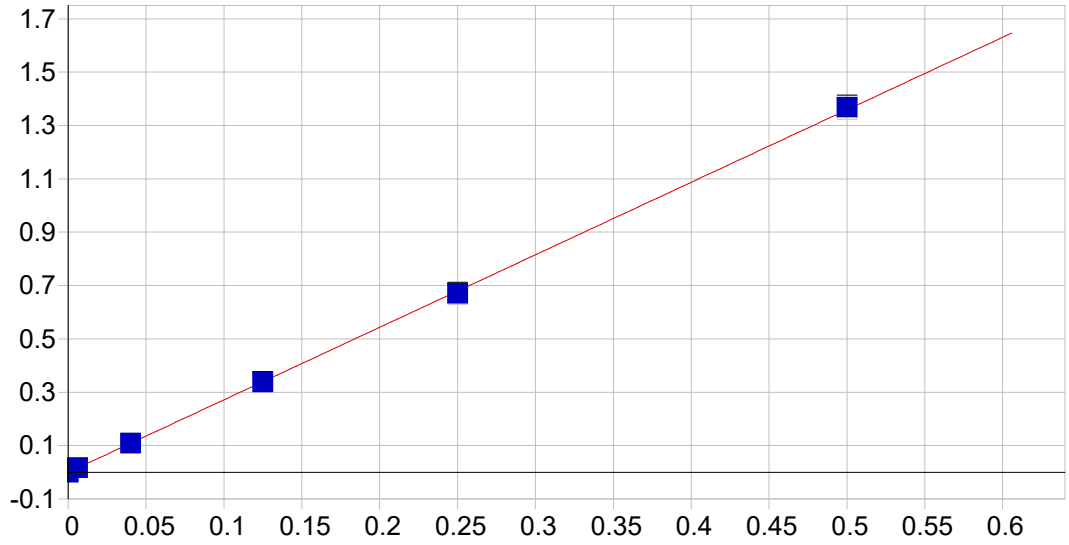
Ba 493.409 { 68}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.017356	Re-Slope:	1.000000
A1 (Gain):	2.516605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.001191		
Predicted MDL:	0.000524		
Predicted MQL:	0.001747		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01734	.001	1
S1	.10000	.10595	.006	5.95	.28399	.003	1
S3	5.0000	5.0144	.014	.288	12.637	.075	1
S4	10.000	9.9244	-.076	-.756	24.993	.450	1
S5	20.000	20.027	.027	.136	50.418	.298	1
S2	1.6000	1.6280	.028	1.75	4.1144	.006	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



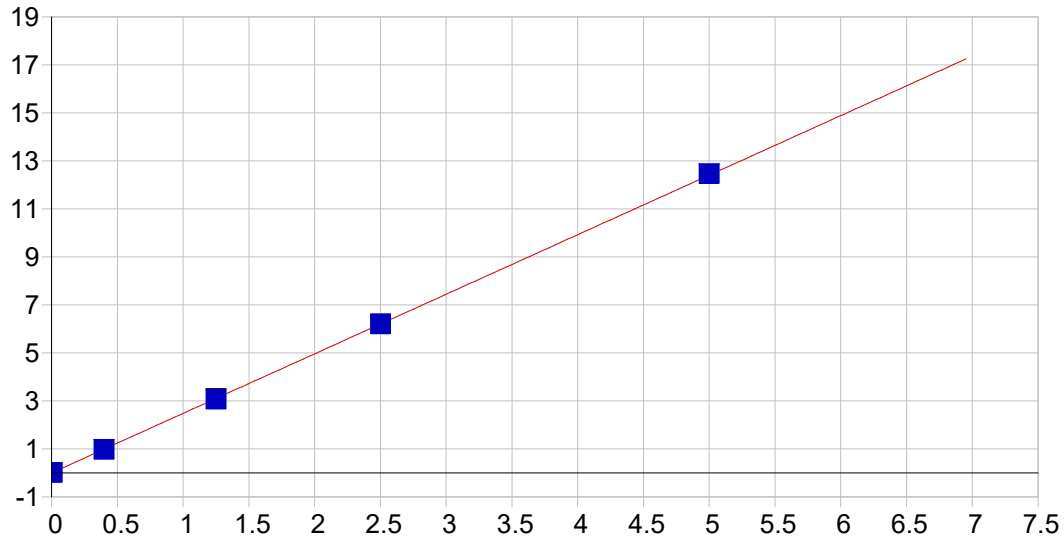
Be 234.861 {144}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000359	Re-Slope:	1.000000
A1 (Gain):	2.718661	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.000070		
Predicted MQL:	0.000233		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.00600	.00628	.000	4.65	.01652	.000	1
S3	.12500	.12429	-.001	-.569	.33499	.003	1
S4	.25000	.24681	-.003	-1.28	.66552	.004	1
S5	.50000	.50367	.004	.735	1.3588	.008	1
S2	.04000	.03995	-.000	-.121	.10744	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



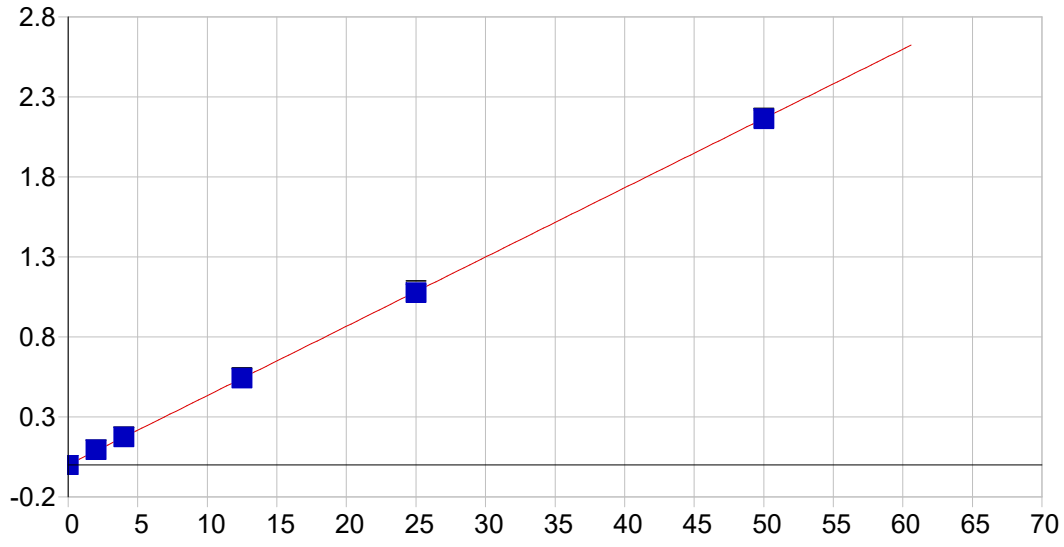
Cd 226.502 {449}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000092	Re-Slope:	1.000000
A1 (Gain):	2.481322	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000164		
Predicted MDL:	0.000080		
Predicted MQL:	0.000268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.00600	.00622	.000	3.73	.01562	.000	1
S3	1.2500	1.2372	-.013	-1.03	3.0731	.024	1
S4	2.5000	2.4993	-.001	-.029	6.2078	.009	1
S5	5.0000	5.0231	.023	.462	12.477	.006	1
S2	.40000	.39020	-.010	-2.45	.96931	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



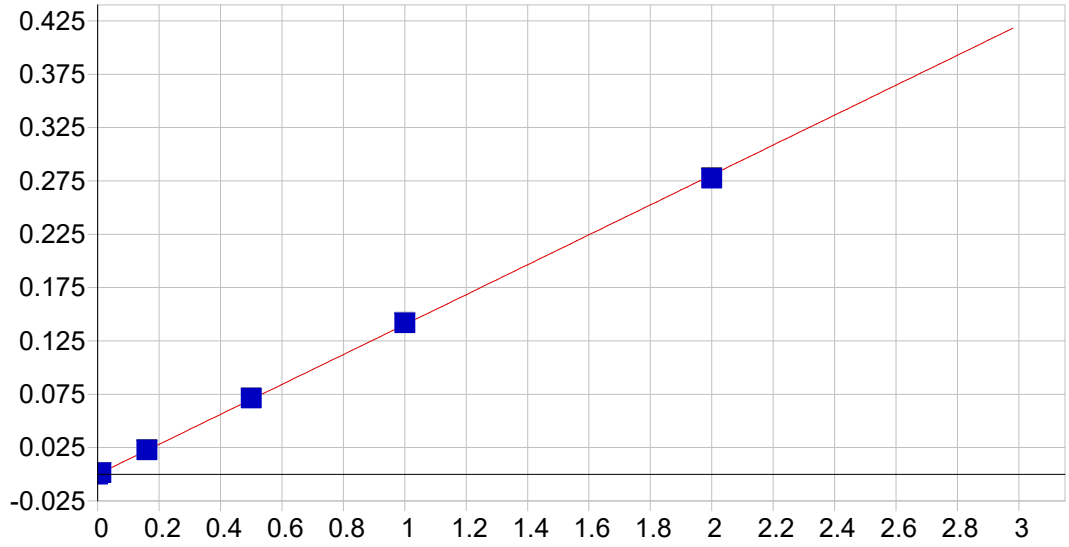
Ca 373.690 { 90}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000339	Re-Slope:	1.000000
A1 (Gain):	0.043293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000263		
Predicted MDL:	0.010179		
Predicted MQL:	0.033931		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00033	.000	1
S2	4.0000	4.0274	.027	.684	.17443	.000	1
S3	12.500	12.495	-.005	-.039	.54046	.003	1
S4	25.000	24.869	-.131	-.524	1.0753	.012	1
S5	50.000	49.957	-.043	-.085	2.1598	.005	1
S1	2.0000	2.1511	.151	7.56	.09343	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



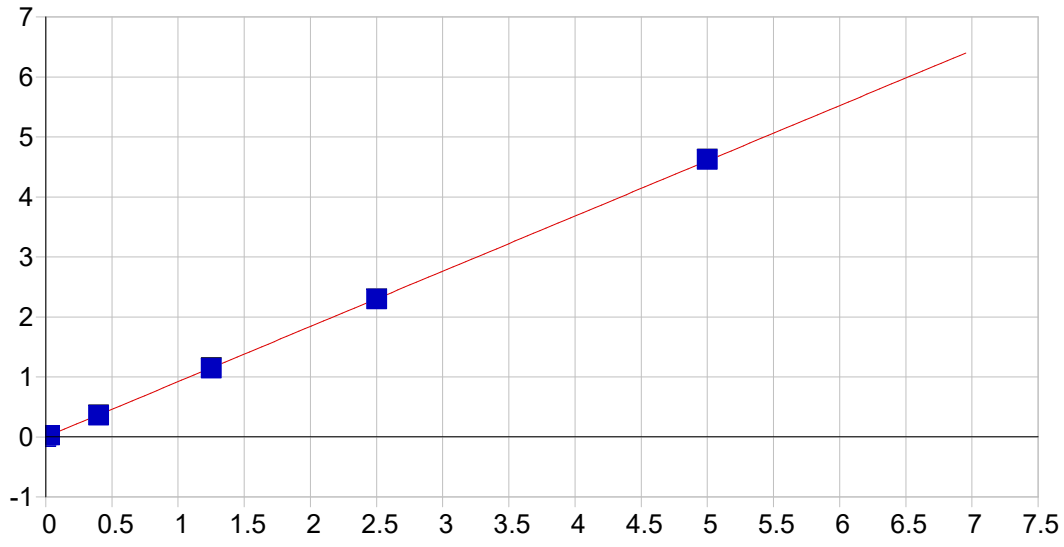
Cr 267.716 {126}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000042	Re-Slope:	1.000000
A1 (Gain):	0.140313	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.000308		
Predicted MQL:	0.001028		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01000	.01036	.000	3.57	.00141	.000	1
S3	.50000	.50742	.007	1.48	.07123	.000	1
S4	1.0000	1.0119	.012	1.19	.14208	.000	1
S5	2.0000	1.9778	-.022	-1.11	.27774	.000	1
S2	.16000	.16262	.003	1.64	.02280	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



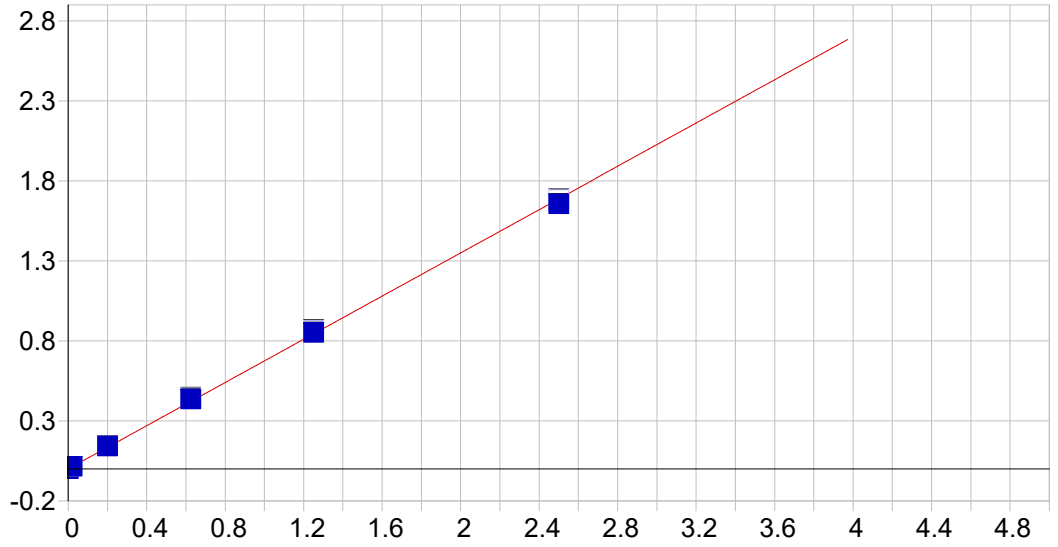
Co 228.616 {448}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.920304	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	0.000195		
Predicted MQL:	0.000651		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00005	.000	1
S1	.03000	.03012	.000	.396	.02769	.000	1
S3	1.2500	1.2411	-.009	-.716	1.1447	.008	1
S4	2.5000	2.4963	-.004	-.147	2.3025	.004	1
S5	5.0000	5.0197	.020	.393	4.6297	.004	1
S2	.40000	.39285	-.007	-1.79	.36239	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



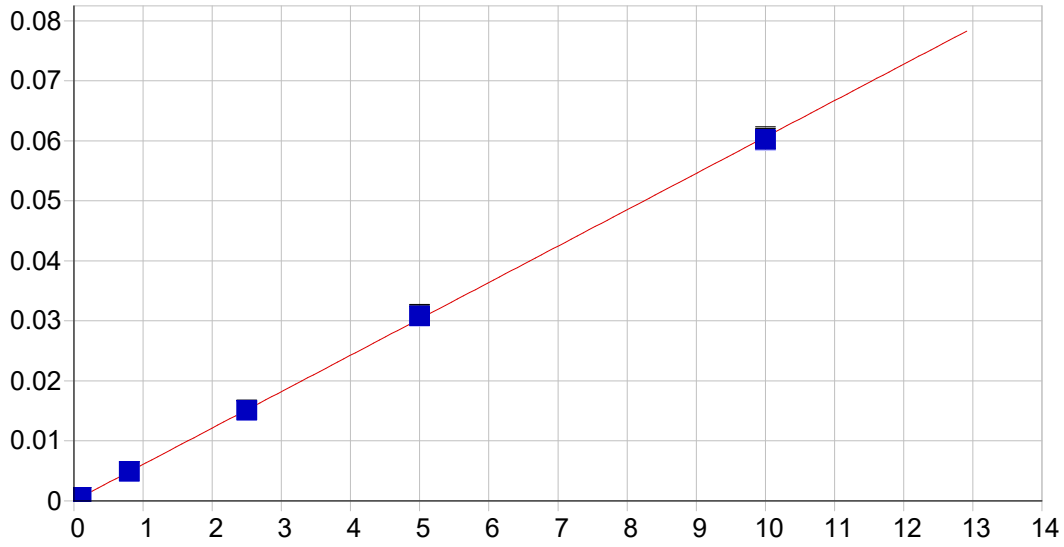
Cu 224.700 {450}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000598	Re-Slope:	1.000000
A1 (Gain):	0.675597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999651	Status:	OK.
Std Error of Est:	0.000213		
Predicted MDL:	0.000424		
Predicted MQL:	0.001414		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00060	.000	1
S1	.02000	.02399	.004	19.9	.01583	.000	1
S3	.62500	.64741	.022	3.59	.44456	.004	1
S4	1.2500	1.2608	.011	.860	.86669	.003	1
S5	2.5000	2.4512	-.049	-1.95	1.6864	.002	1
S2	.20000	.21170	.012	5.85	.14491	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



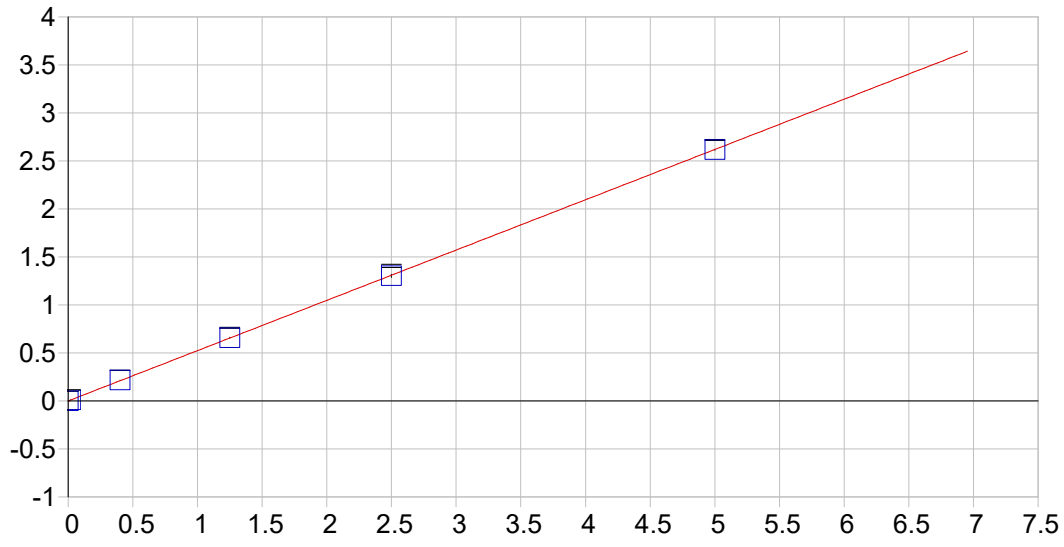
Fe 240.488 {140}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.006062	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.004084		
Predicted MQL:	0.013615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.10000	.10003	.000	.030	.00063	.000	1
S3	2.5000	2.4835	-.016	-.659	.01502	.000	1
S4	5.0000	5.0831	.083	1.66	.03072	.000	1
S5	10.000	9.9303	-.070	-.697	.05998	.000	1
S2	.80000	.80306	.003	.382	.00487	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



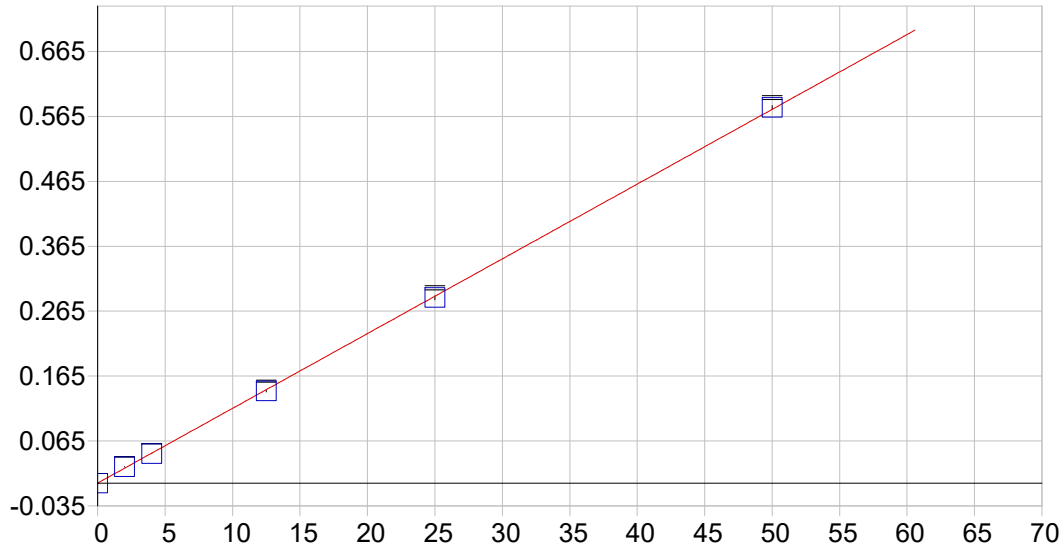
Mn 257.610 {131}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000068	Re-Slope:	1.000000
A1 (Gain):	0.523863	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.000311		
Predicted MQL:	0.001038		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.02000	.02196	.002	9.80	.01157	.000	1
S3	1.2500	1.2559	.006	.473	.65799	.006	1
S4	2.5000	2.4898	-.010	-.407	1.3044	.017	1
S5	5.0000	4.9919	-.008	-.163	2.6151	.006	1
S2	.40000	.41045	.010	2.61	.21509	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



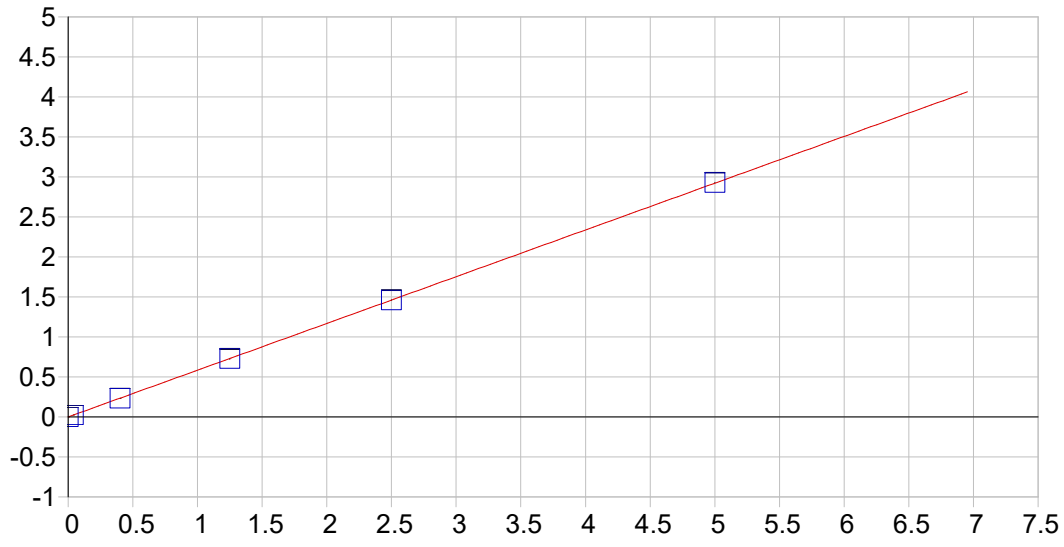
Mg 279.079 {121}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000025	Re-Slope:	1.000000
A1 (Gain):	0.011519	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999868	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.016893		
Predicted MQL:	0.056309		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00002	.000	1
S2	4.0000	3.9560	-.044	-1.10	.04559	.000	1
S3	12.500	12.320	-.180	-1.44	.14194	.001	1
S4	25.000	24.805	-.195	-.782	.28575	.003	1
S5	50.000	50.224	.224	.449	.57857	.003	1
S1	2.0000	2.1951	.195	9.75	.02531	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



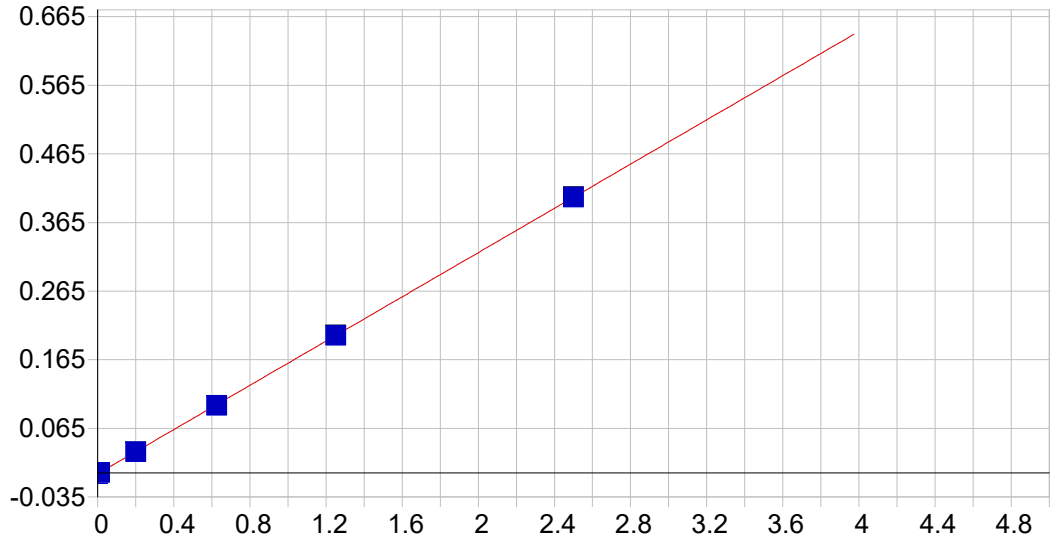
Ni 231.604 {446}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	0.584298	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.000303		
Predicted MQL:	0.001009		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.04000	.04040	.000	1.01	.02350	.000	1
S3	1.2500	1.2438	-.006	-.495	.72665	.005	1
S4	2.5000	2.4989	-.001	-.045	1.4600	.003	1
S5	5.0000	5.0124	.012	.248	2.9286	.002	1
S2	.40000	.39454	-.005	-1.37	.23042	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



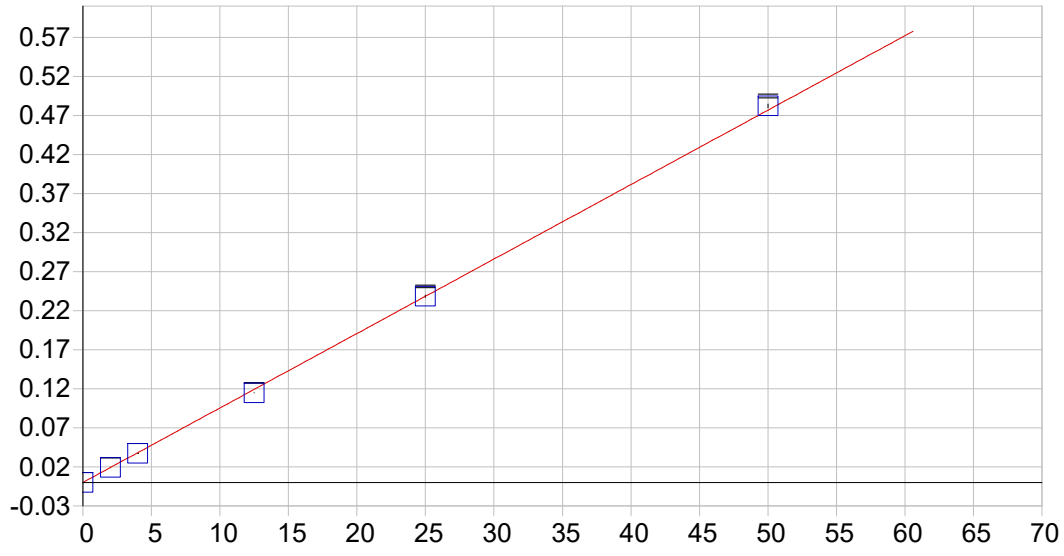
Ag 328.068 {103}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001371	Re-Slope:	1.000000
A1 (Gain):	0.161261	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.000424		
Predicted MQL:	0.001413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00137	.000	1
S1	.01000	.01127	.001	12.7	.00044	.000	1
S3	.62500	.61809	-.007	-1.11	.09794	.000	1
S4	1.2500	1.2523	.002	.181	.19984	.000	1
S5	2.5000	2.5031	.003	.123	.40082	.000	1
S2	.20000	.20029	.000	.144	.03081	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



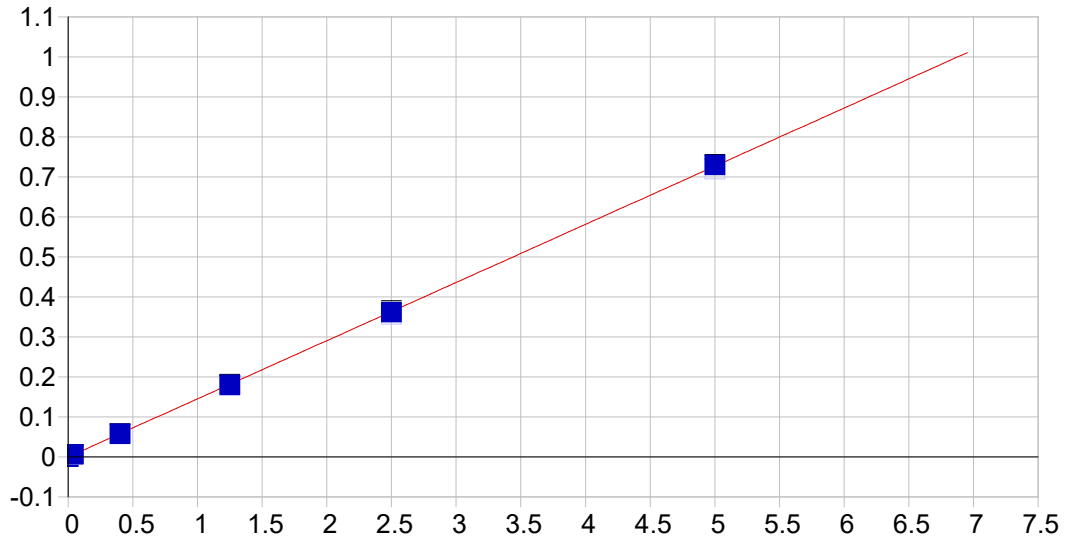
Na 589.592 { 57}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.009533	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.011532		
Predicted MQL:	0.038440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00005	.000	1
S2	4.0000	3.8951	-.105	-2.62	.03718	.000	1
S3	12.500	12.039	-.461	-3.69	.11482	.000	1
S4	25.000	25.006	.006	.026	.23845	.002	1
S5	50.000	50.570	.570	1.14	.48216	.002	1
S1	2.0000	1.9900	-.010	-.499	.01902	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



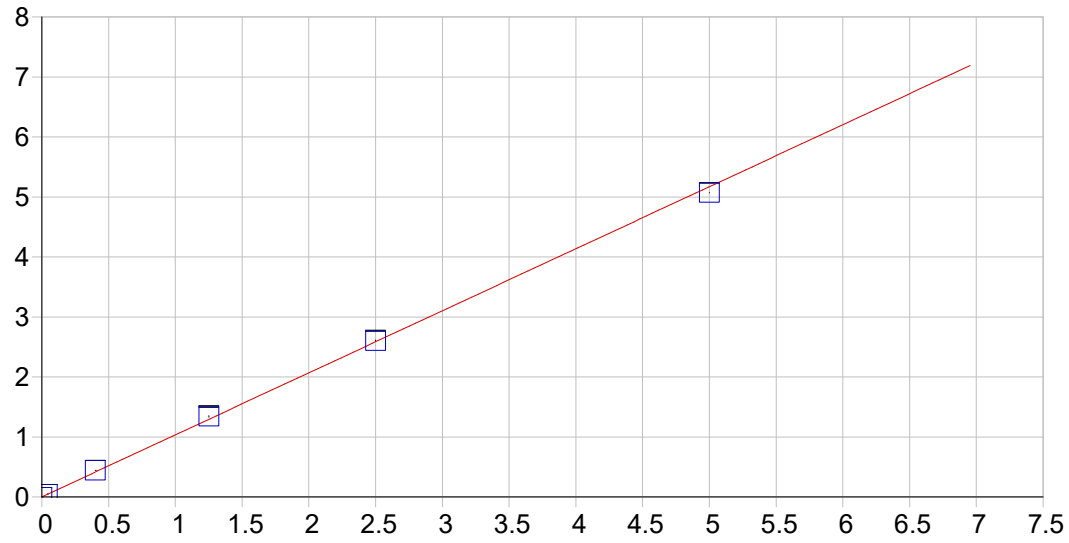
V 292.402 {115}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000161	Re-Slope:	1.000000
A1 (Gain):	0.145389	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.001705		
Predicted MQL:	0.005684		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00016	.000	1
S1	.04000	.04348	.003	8.70	.00595	.000	1
S3	1.2500	1.2389	-.011	-.887	.17736	.002	1
S4	2.5000	2.4883	-.012	-.470	.35639	.004	1
S5	5.0000	5.0214	.021	.427	.71947	.002	1
S2	.40000	.39808	-.002	-.481	.05688	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



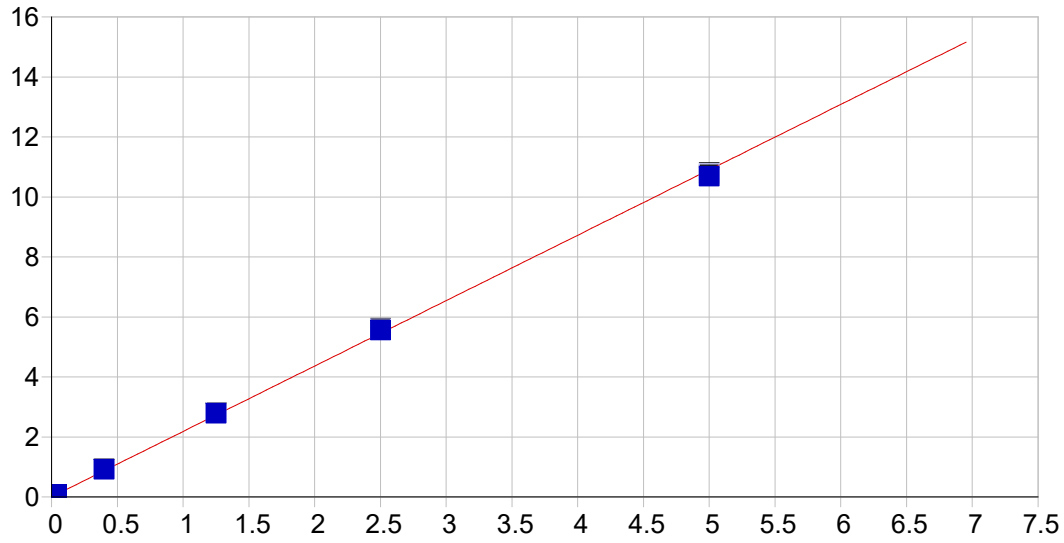
Zn 206.200 {464}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000510	Re-Slope:	1.000000
A1 (Gain):	1.033830	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999672	Status:	OK.
Std Error of Est:	0.000621		
Predicted MDL:	0.000169		
Predicted MQL:	0.000564		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00050	.000	1
S1	.04000	.04463	.005	11.6	.04665	.000	1
S3	1.2500	1.2973	.047	3.78	1.3417	.011	1
S4	2.5000	2.5179	.018	.718	2.6036	.008	1
S5	5.0000	4.9039	-.096	-1.92	5.0703	.004	1
S2	.40000	.42629	.026	6.57	.44122	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



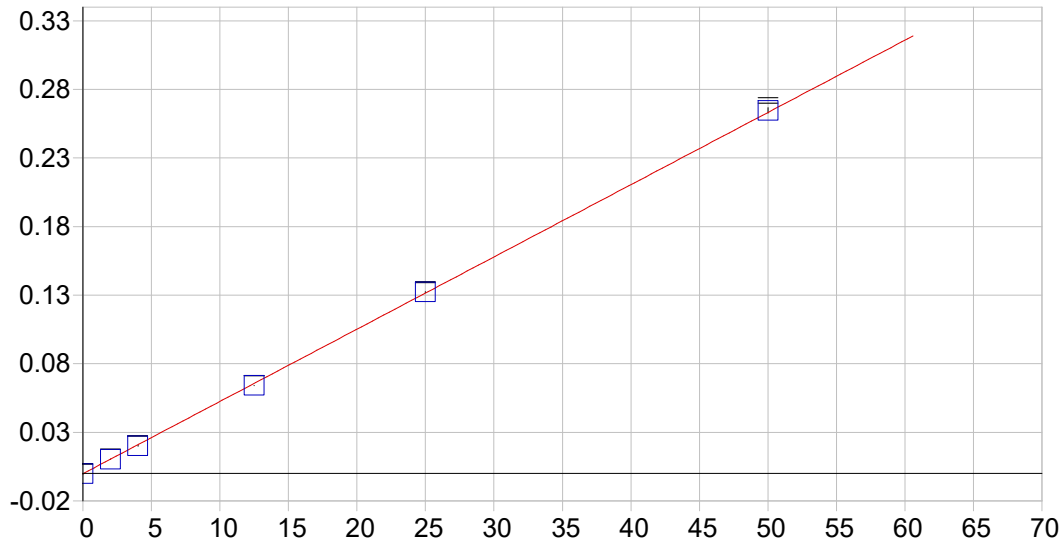
Zn 213.856 {158}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001874	Re-Slope:	1.000000
A1 (Gain):	2.180160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999747	Status:	OK.
Std Error of Est:	0.001159		
Predicted MDL:	0.000213		
Predicted MQL:	0.000709		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00186	.000	1
S1	.04000	.04341	.003	8.53	.09717	.001	1
S3	1.2500	1.2778	.028	2.22	2.8079	.010	1
S4	2.5000	2.5478	.048	1.91	5.5969	.024	1
S5	5.0000	4.9015	-.098	-1.97	10.769	.040	1
S2	.40000	.41947	.019	4.87	.92286	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



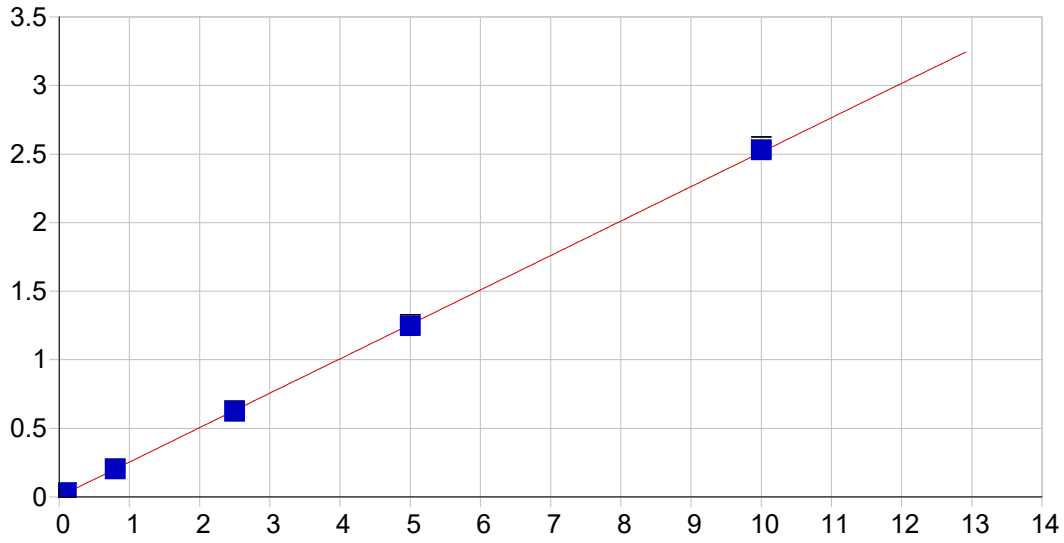
K 766.490 { 44}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000169	Re-Slope:	1.000000
A1 (Gain):	0.005268	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.029691		
Predicted MQL:	0.098969		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	-.00017	.000	1
S2	4.0000	3.8668	-.133	-3.33	.02020	.000	1
S3	12.500	12.206	-.294	-2.35	.06413	.000	1
S4	25.000	25.140	.140	.560	.13227	.000	1
S5	50.000	50.278	.278	.557	.26470	.002	1
S1	2.0000	2.0089	.009	.444	.01041	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



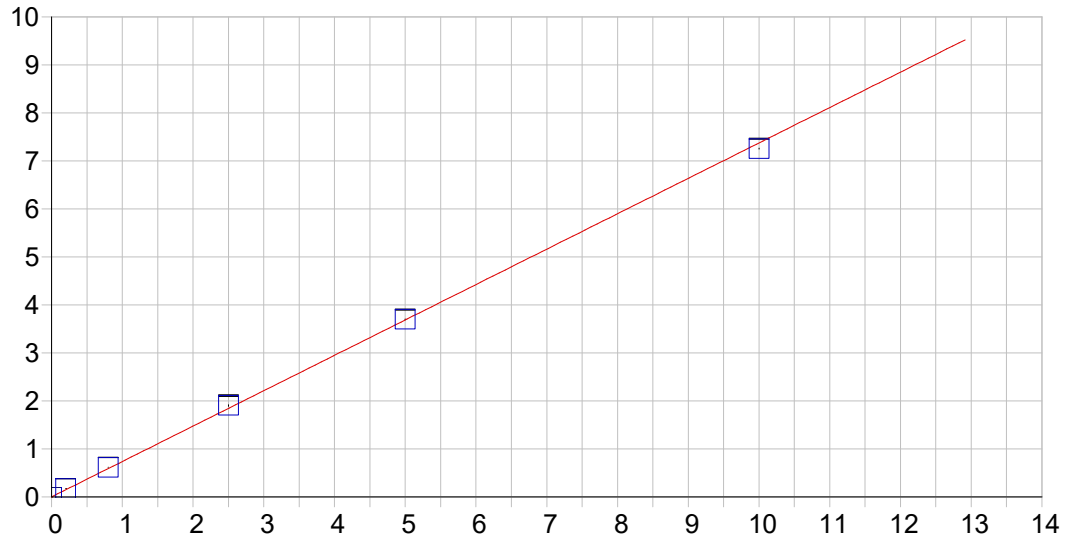
B 249.678 {135}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002817	Re-Slope:	1.000000
A1 (Gain):	0.251028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000122		
Predicted MDL:	0.001028		
Predicted MQL:	0.003425		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00282	.000	1
S1	.10000	.10569	.006	5.69	.02921	.000	1
S3	2.5000	2.4688	-.031	-1.25	.62127	.004	1
S4	5.0000	4.9617	-.038	-.765	1.2458	.009	1
S5	10.000	10.071	.071	.708	2.5257	.025	1
S2	.80000	.79293	-.007	-.883	.20145	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



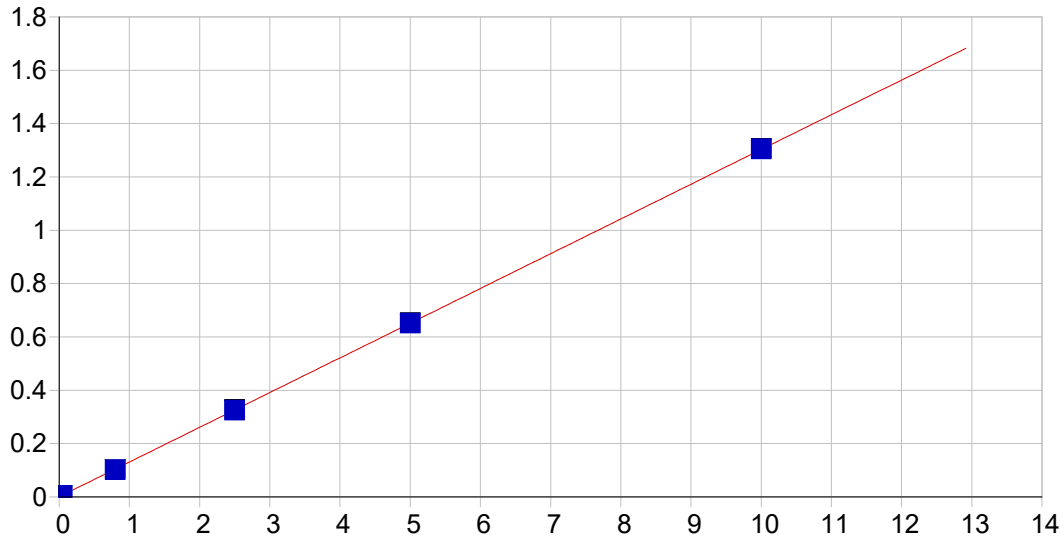
Mo 202.030 {467}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000154	Re-Slope:	1.000000
A1 (Gain):	0.737381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999671	Status:	OK.
Std Error of Est:	0.001409		
Predicted MDL:	0.000244		
Predicted MQL:	0.000814		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00012	.000	1
S1	.20000	.23232	.032	16.2	.17146	.001	1
S3	2.5000	2.5816	.082	3.26	1.9037	.017	1
S4	5.0000	5.0134	.013	.268	3.6970	.012	1
S5	10.000	9.8369	-.163	-1.63	7.2537	.010	1
S2	.80000	.83577	.036	4.47	.61644	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



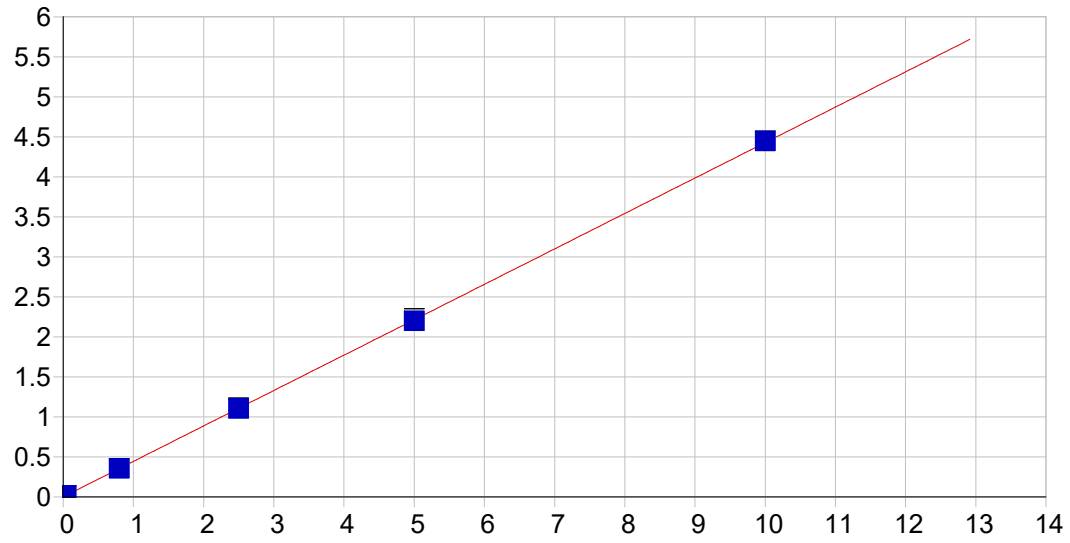
Sn 189.989 {478}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000380	Re-Slope:	1.000000
A1 (Gain):	0.130229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.000681		
Predicted MQL:	0.002272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00038	.000	1
S1	.04000	.04032	.000	.805	.00562	.000	1
S3	2.5000	2.4930	-.007	-.282	.32416	.002	1
S4	5.0000	5.0005	.000	.010	.64983	.002	1
S5	10.000	10.025	.025	.252	1.3024	.001	1
S2	.80000	.78106	-.019	-2.37	.10182	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



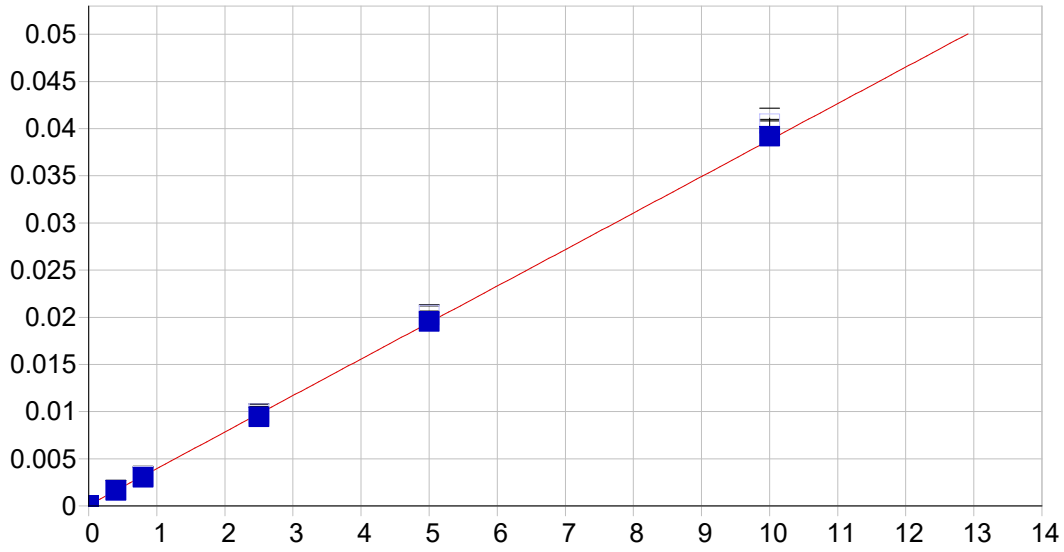
Ti 336.121 {100}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001240	Re-Slope:	1.000000
A1 (Gain):	0.442647	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.000761		
Predicted MQL:	0.002537		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00124	.000	1
S1	.04000	.04052	.001	1.30	.01917	.000	1
S3	2.5000	2.4906	-.009	-.376	1.1041	.007	1
S4	5.0000	4.9683	-.032	-.635	2.2013	.025	1
S5	10.000	10.040	.040	.401	4.4472	.001	1
S2	.80000	.80049	.000	.061	.35571	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



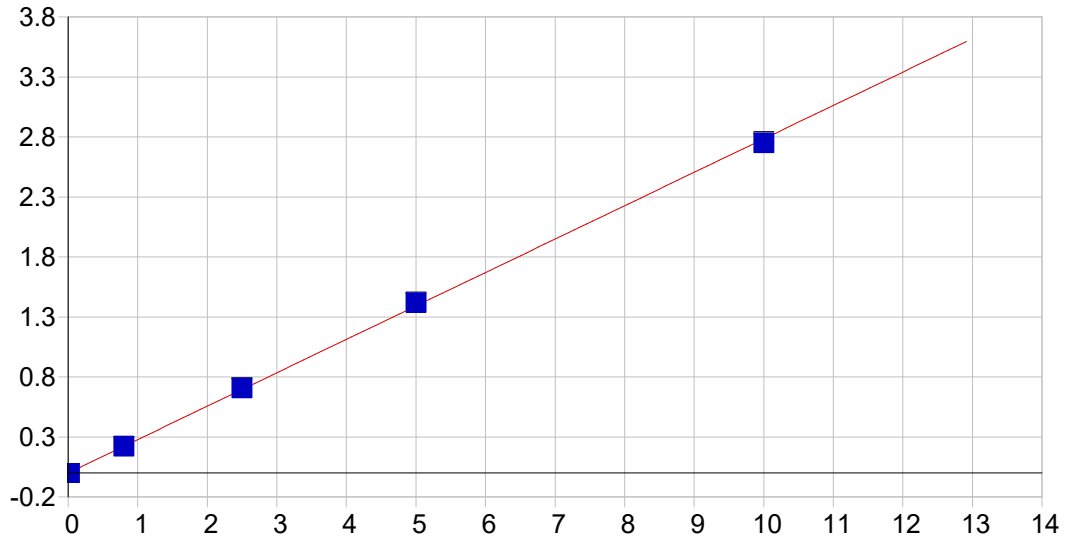
Si 288.158 {117}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000090	Re-Slope:	1.000000
A1 (Gain):	0.003870	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.010586		
Predicted MQL:	0.035286		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00009	.000	1
S1	.40000	.40190	.002	.474	.00165	.000	1
S3	2.5000	2.4117	-.088	-3.53	.00976	.000	1
S4	5.0000	5.0281	.028	.561	.02022	.000	1
S5	10.000	10.101	.101	1.01	.04052	.001	1
S2	.80000	.75754	-.042	-5.31	.00313	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



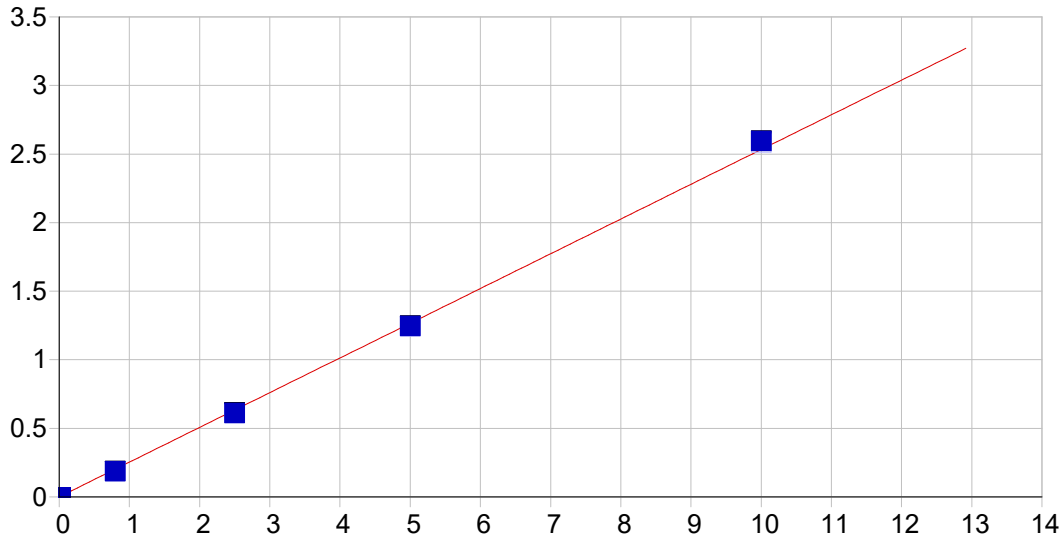
P 177.495 {490}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000720	Re-Slope:	1.000000
A1 (Gain):	0.278415	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999447	Status:	OK.
Std Error of Est:	0.000217		
Predicted MDL:	0.000266		
Predicted MQL:	0.000886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00071	.000	1
S1	.02000	.00190	-.018	-90.5	-.00017	.000	1
S3	2.5000	2.5404	.040	1.62	.70703	.005	1
S4	5.0000	5.0965	.096	1.93	1.4191	.004	1
S5	10.000	9.8820	-.118	-1.18	2.7524	.007	1
S2	.80000	.79927	-.001	-.092	.22195	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



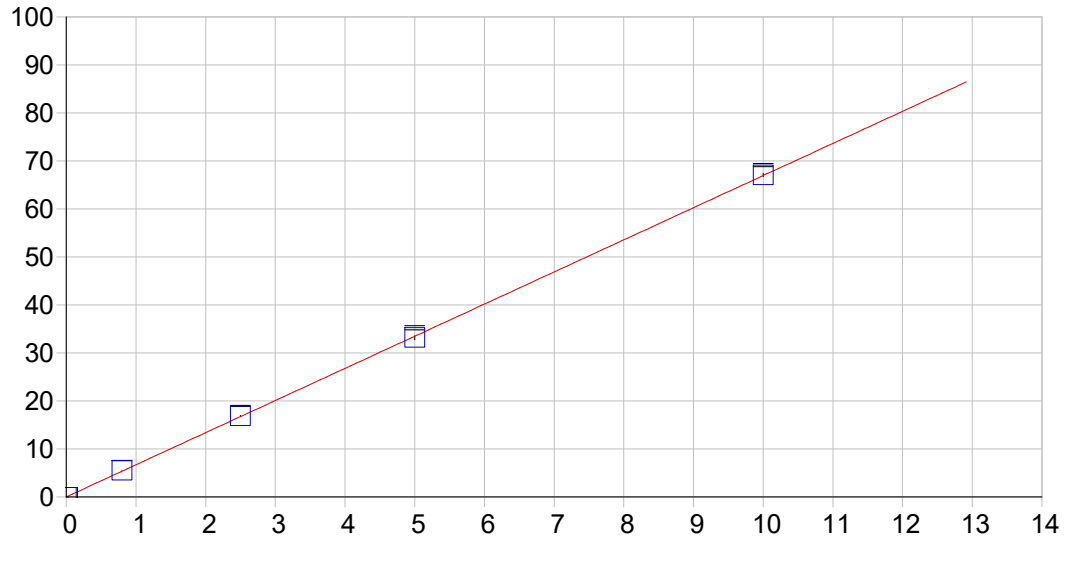
S 182.034 {485}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000217	Re-Slope:	1.000000
A1 (Gain):	0.253245	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999194	Status:	OK.
Std Error of Est:	0.000237		
Predicted MDL:	0.000326		
Predicted MQL:	0.001086		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00022	.000	1
S1	.02000	.00296	-.017	-85.2	.00064	.000	1
S3	2.5000	2.4123	-.088	-3.51	.60824	.005	1
S4	5.0000	4.9237	-.076	-1.53	1.2414	.002	1
S5	10.000	10.241	.241	2.41	2.5823	.003	1
S2	.80000	.73876	-.061	-7.66	.18638	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



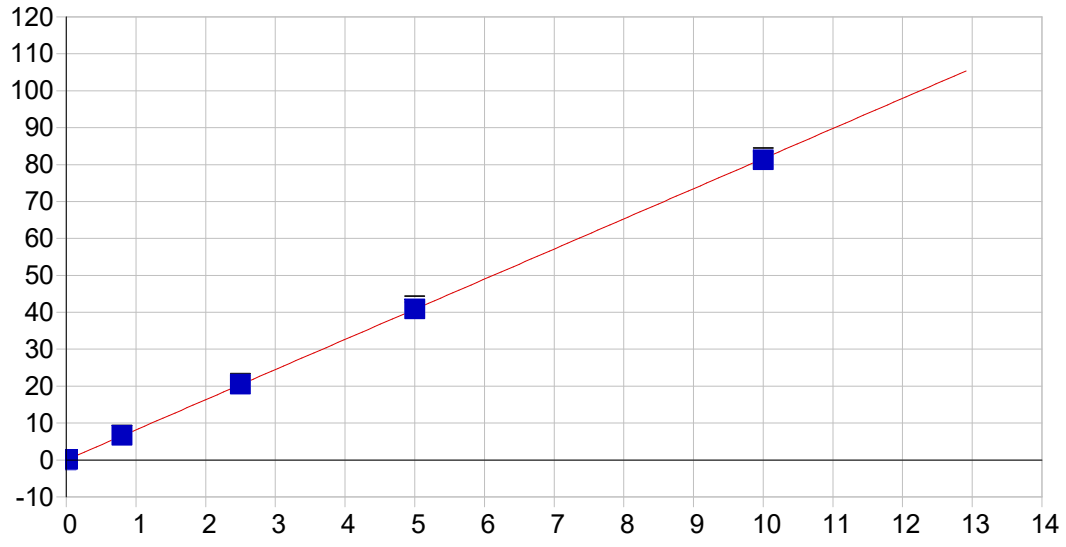
Li 670.784 { 50}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000739	Re-Slope:	1.000000
A1 (Gain):	6.694427	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999537	Status:	OK.
Std Error of Est:	0.004776		
Predicted MDL:	0.000138		
Predicted MQL:	0.000460		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00085	.000	1
S5	10.000	10.017	.017	.167	67.057	.334	1
S4	5.0000	4.9566	-.043	-.868	33.182	.443	1
S3	2.5000	2.5229	.023	.917	16.890	.093	1
S1	.02000	.00224	-.018	-88.8	.01571	.001	1
S2	.80000	.82151	.022	2.69	5.5003	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB129987



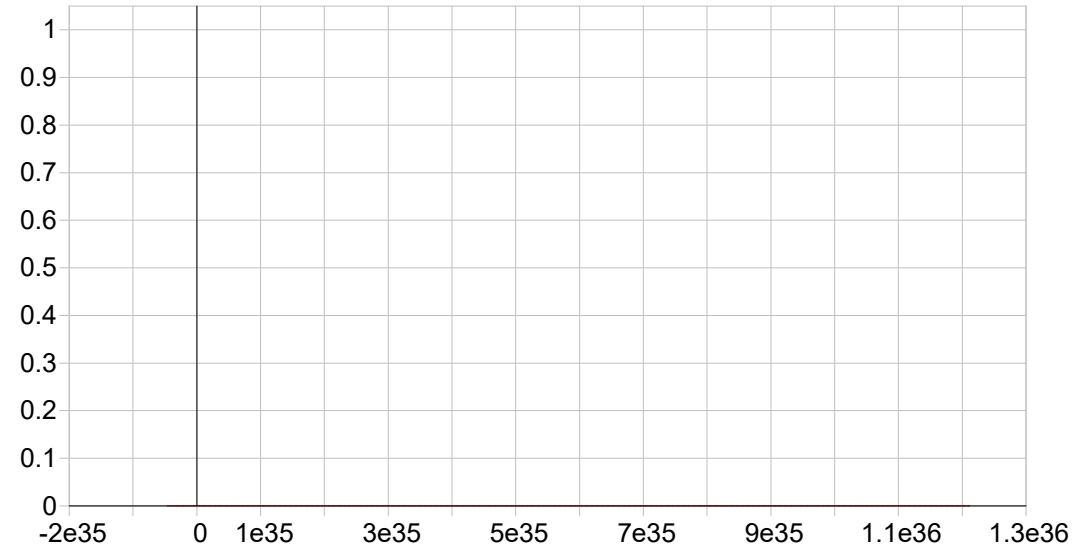
Sr 407.771 { 83}

Date of Fit:	3/21/2024 11:45:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000979	Re-Slope:	1.000000
A1 (Gain):	8.161689	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.001300		
Predicted MDL:	0.000061		
Predicted MQL:	0.000202		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00100	.001	1
S1	.02000	.02173	.002	8.67	.17722	.001	1
S3	2.5000	2.5127	.013	.507	20.527	.240	1
S4	5.0000	5.0086	.009	.173	40.919	.813	1
S5	10.000	9.9582	-.042	-.418	81.356	.533	1
S2	.80000	.81881	.019	2.35	6.6884	.010	1

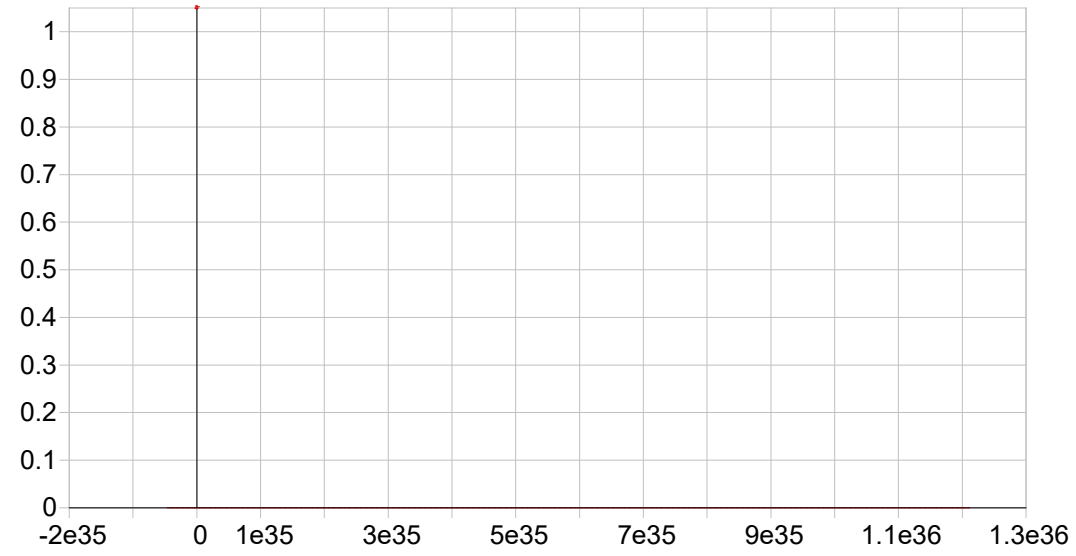
Reviewed By:
On:
Inst Id :P4
LB :LB129987



Ce 404.076 { 83}

Date of Fit:	3/21/2024 11:45:42	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:	0.002788				
Predicted MDL:	0.053515				
Predicted MQL:	0.178384				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



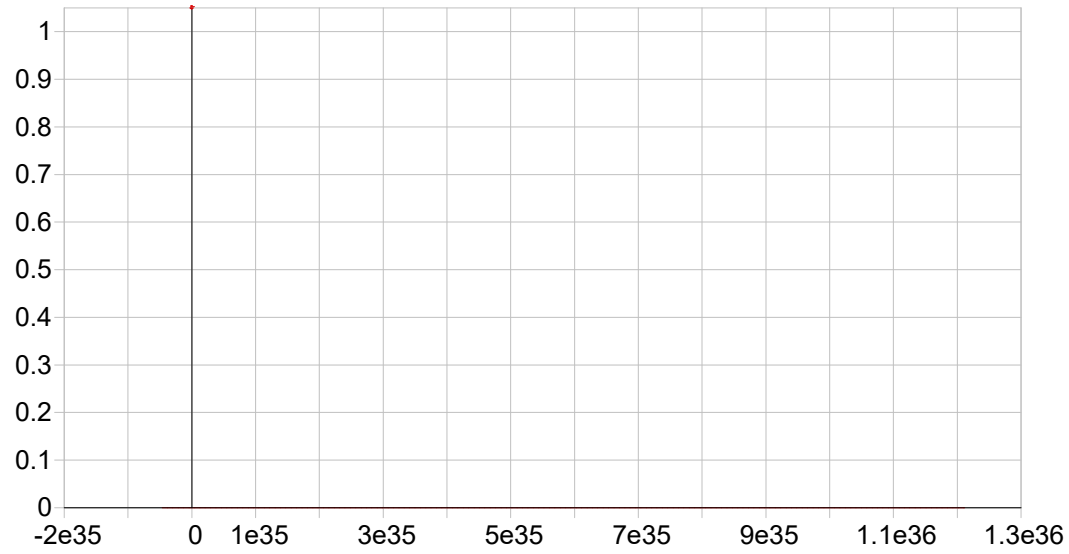
Y 224.306 {450}*

Date of Fit:	3/21/2024	Type of Fit:	Linear	Weighting:	1/Conc
11:45:42 A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:
On:
Inst Id :P4
LB :LB129987

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

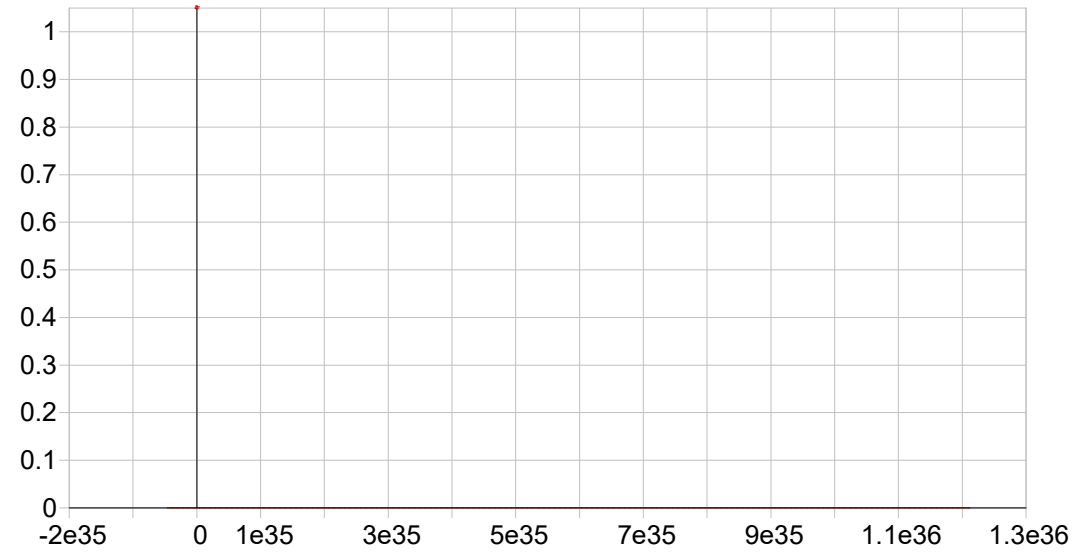


Y 360.073 { 94}*

Date of Fit:	<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

Reviewed By:
On:
Inst Id :P4
LB :LB129987

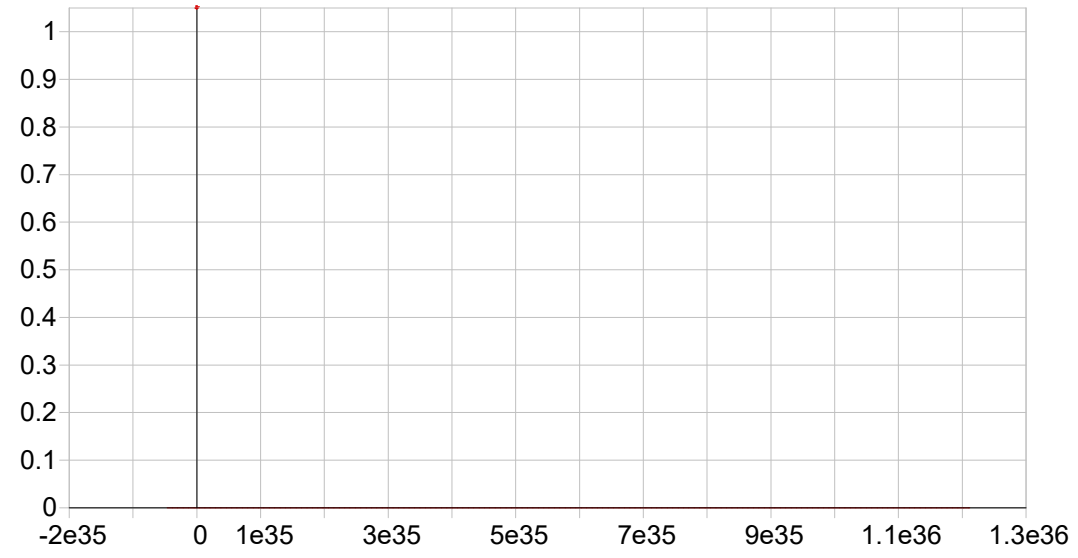


Y 371.030 { 91}*

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



Y 224.306 {150}*

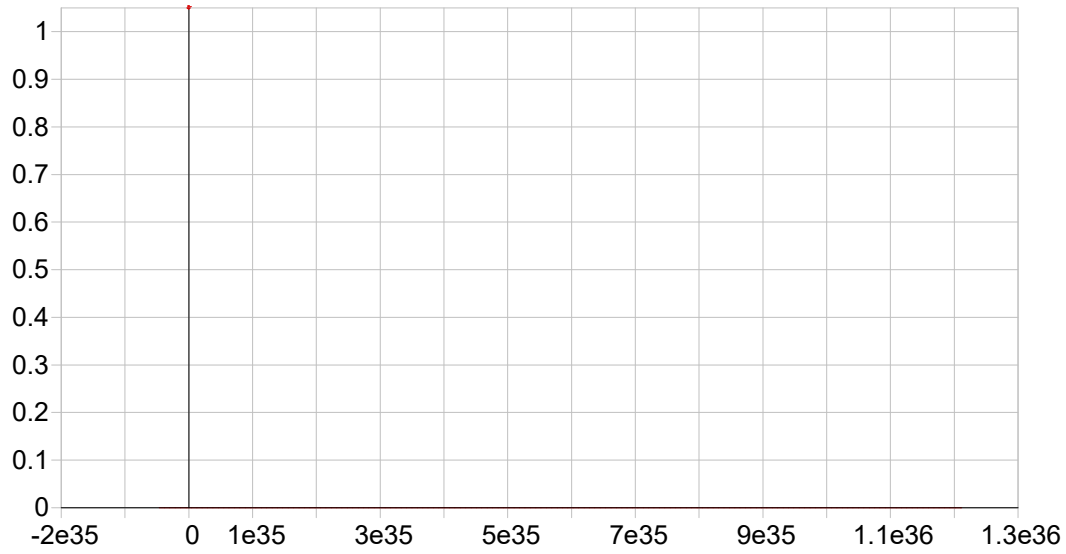
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:
On:
Inst Id :P4
LB :LB129987

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



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

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S0 Acquired: 3/21/2024 10:56:47 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**.00020**	**.00002**	**.00036**	**.00036**	**.00025**	**.01734**	**-.00036**
Stddev	.00008	.00004	.00028	.00005	.00010	.00042	.00149	.00010
%RSD	73.567	18.238	1433.8	13.409	27.497	171.47	8.5756	28.573
#1	-.00019	.00020	-.00019	.00038	.00033	-.00012	.01763	-.00043
#2	-.00005	.00016	.00034	.00031	.00029	.00071	.01573	-.00024
#3	-.00008	.00023	-.00009	.00040	.00048	.00016	.01866	-.00040

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00009**	**.00033**	**-.00004**	**.00005**	**-.00060**	**.00002**	**.00007**	**.00002**
Stddev	.00030	.00040	.00002	.00011	.00005	.00000	.00014	.00007
%RSD	320.92	120.84	45.137	238.67	7.5694	9.3919	205.26	277.51
#1	-.00025	.00018	-.00002	-.00008	-.00055	.00002	.00019	-.00005
#2	.00026	.00003	-.00004	.00013	-.00062	.00002	.00008	.00008
#3	.00026	.00079	-.00006	.00010	-.00063	.00002	-.00008	.00004

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**-.00137**	**.00005**	**-.00016**	**.00186**	**-.00017**	**.00282**	**.00012**
Stddev	.00002	.00006	.00006	.00007	.00030	.00024	.00007	.00007
%RSD	18.878	4.1928	114.18	45.831	16.096	139.65	2.5891	56.550
#1	-.00012	-.00137	.00011	-.00009	.00220	-.00001	.00290	.00013
#2	-.00008	-.00143	-.00001	-.00016	.00174	-.00044	.00278	.00018
#3	-.00011	-.00131	.00005	-.00024	.00164	-.00005	.00277	.00005

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00038**	**.00124**	**.00009**	**-.00071**	**.00022**	**.00085**	**-.00100**
Stddev	.00010	.00011	.00001	.00009	.00001	.00042	.00118
%RSD	26.231	8.9376	14.894	12.417	5.8835	49.772	118.05
#1	.00050	.00120	.00008	-.00078	.00024	.00037	-.00104
#2	.00033	.00137	.00009	-.00062	.00022	.00114	-.00215
#3	.00032	.00116	.00010	-.00074	.00021	.00105	.00020

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S0 Acquired: 3/21/2024 10:56:47 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3936.0	109310.	14881.	4236.0	5851.8
Stddev	127.5	615.	154.	7.5	193.3
%RSD	3.2394	.56294	1.0360	.17716	3.3029
#1	3796.3	109110.	14992.	4234.9	5642.7
#2	3965.5	108820.	14946.	4229.1	5888.8
#3	4046.1	110000.	14705.	4244.0	6023.9

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S1 Acquired: 3/21/2024 11:01:13 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00109**	**.00196**	**.00160**	**.00120**	**.00580**	**.00632**	**.28399**	**.01652**
Stddev	.00006	.00005	.00027	.00016	.00015	.00013	.00256	.00035
%RSD	5.2365	2.6499	16.721	13.469	2.6167	2.0850	.90269	2.1395
#1	.00103	.00199	.00168	.00119	.00567	.00646	.28118	.01626
#2	.00113	.00190	.00182	.00136	.00597	.00620	.28620	.01692
#3	.00111	.00199	.00130	.00104	.00577	.00629	.28458	.01639

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01562**	**.09343**	**.00141**	**.02769**	**.01583**	**.00063**	**.01157**	**.02531**
Stddev	.00029	.00124	.00002	.00019	.00003	.00001	.00014	.00013
%RSD	1.8400	1.3220	1.3685	.68449	.17567	1.4592	1.1801	.52042
#1	.01560	.09209	.00140	.02776	.01580	.00064	.01143	.02517
#2	.01534	.09368	.00143	.02747	.01584	.00062	.01171	.02543
#3	.01591	.09453	.00141	.02783	.01585	.00062	.01158	.02533

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02350**	**.00044**	**.01902**	**.00595**	**.09717**	**.01041**	**.02921**	**.17146**
Stddev	.00008	.00003	.00014	.00018	.00107	.00007	.00039	.00110
%RSD	.34862	6.0849	.73454	3.1075	1.1040	.67805	1.3511	.64238
#1	.02348	.00047	.01896	.00598	.09736	.01040	.02882	.17210
#2	.02360	.00041	.01918	.00575	.09814	.01049	.02961	.17019
#3	.02344	.00044	.01892	.00612	.09602	.01035	.02919	.17210

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00562**	**.01917**	**.00165**	**-.00017**	**.00064**	**.01571**	**.17722**
Stddev	.00009	.00032	.00002	.00003	.00010	.00073	.00115
%RSD	1.6389	1.6796	1.2939	19.628	14.905	4.6355	.65127
#1	.00553	.01926	.00163	-.00021	.00074	.01641	.17616
#2	.00560	.01882	.00167	-.00015	.00062	.01577	.17703
#3	.00571	.01944	.00166	-.00015	.00056	.01496	.17845

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S1 Acquired: 3/21/2024 11:01:13 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3997.6	110650.	15069.	4286.8	5765.9
Stddev	5.3	252.	76.	26.8	1.4
%RSD	.13274	.22784	.50715	.62404	.02477
#1	3994.0	110910.	15157.	4269.0	5764.4
#2	4003.7	110410.	15020.	4273.9	5766.1
#3	3995.2	110620.	15030.	4317.6	5767.2

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S2 Acquired: 3/21/2024 11:05:38 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04181**	**.03537**	**.12607**	**.03617**	**.07892**	**.08785**	**4.1144**	**.10744**
Stddev	.00021	.00036	.00003	.00025	.00022	.00039	.0056	.00025
%RSD	.51290	1.0255	.02688	.68129	.28172	.43843	.13477	.23715
#1	.04180	.03578	.12606	.03633	.07886	.08750	4.1121	.10749
#2	.04160	.03507	.12605	.03629	.07873	.08777	4.1207	.10767
#3	.04203	.03527	.12611	.03589	.07916	.08826	4.1103	.10716

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.96931**	**.17443**	**.02280**	**.36239**	**.14491**	**.00487**	**.21509**	**.04559**
Stddev	.00146	.00021	.00002	.00054	.00057	.00000	.00089	.00020
%RSD	.15079	.12194	.07495	.15034	.39556	.03969	.41541	.43575
#1	.96823	.17423	.02279	.36178	.14434	.00487	.21424	.04537
#2	.96873	.17440	.02279	.36255	.14549	.00487	.21602	.04572
#3	.97097	.17466	.02282	.36283	.14490	.00487	.21500	.04570

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.23042**	**.03081**	**.03718**	**.05688**	**.92286**	**.02020**	**.20145**	**.61644**
Stddev	.00011	.00012	.00014	.00028	.00016	.00000	.00095	.00100
%RSD	.04763	.38481	.36434	.48697	.01780	.01756	.47035	.16226
#1	.23049	.03069	.03725	.05658	.92295	.02020	.20037	.61579
#2	.23030	.03082	.03703	.05692	.92267	.02020	.20212	.61594
#3	.23048	.03092	.03728	.05713	.92297	.02021	.20186	.61759

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10182**	**.35571**	**.00313**	**.22195**	**.18638**	**5.5003**	**6.6884**
Stddev	.00008	.00073	.00002	.00006	.00023	.0035	.0104
%RSD	.07967	.20542	.50778	.02817	.12189	.06356	.15576
#1	.10182	.35509	.00312	.22197	.18657	5.4982	6.6883
#2	.10189	.35652	.00312	.22188	.18613	5.5043	6.6988
#3	.10173	.35552	.00315	.22201	.18645	5.4983	6.6780

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S2 Acquired: 3/21/2024 11:05:38 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3939.5	107950.	15057.	4204.9	5548.2
Stddev	1.4	446.	57.	27.5	5.6
%RSD	.03553	.41358	.37756	.65290	.10134
#1	3939.9	107460.	14998.	4175.2	5542.3
#2	3937.9	108330.	15062.	4229.4	5548.9
#3	3940.7	108070.	15111.	4210.1	5553.4

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S3 Acquired: 3/21/2024 11:09:47 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.13194	.11354	.39643	.11310	.24650	.27352	12.637	.33499
Stddev	.00104	.00168	.00298	.00095	.00208	.00145	.075	.00290
%RSD	.79183	1.4840	.75267	.83852	.84286	.52911	.59099	.86557
#1	.13314	.11546	.39961	.11413	.24883	.27190	12.555	.33233
#2	.13128	.11282	.39369	.11226	.24482	.27394	12.654	.33456
#3	.13139	.11233	.39599	.11290	.24587	.27470	12.701	.33808

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0731	.54046	.07123	1.1447	.44456	.01502	.65799	.14194
Stddev	.0238	.00327	.00016	.0085	.00370	.00009	.00619	.00131
%RSD	.77515	.60481	.22691	.74070	.83237	.57531	.94075	.92165
#1	3.0981	.53676	.07133	1.1535	.44882	.01496	.65190	.14097
#2	3.0507	.54169	.07104	1.1366	.44225	.01497	.65781	.14142
#3	3.0704	.54294	.07131	1.1440	.44259	.01512	.66427	.14343

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.72665	.09794	.11482	.17736	2.8079	.06413	.62127	1.9037
Stddev	.00523	.00014	.00015	.00174	.0101	.00017	.00421	.0170
%RSD	.71932	.14464	.13213	.98202	.35897	.25961	.67807	.89242
#1	.73207	.09808	.11472	.17569	2.8134	.06401	.61760	1.9233
#2	.72164	.09780	.11474	.17721	2.7963	.06432	.62032	1.8932
#3	.72624	.09793	.11499	.17917	2.8141	.06407	.62587	1.8947

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32416	1.1041	.00976	.70703	.60824	16.890	20.527
Stddev	.00248	.0066	.00006	.00534	.00464	.093	.240
%RSD	.76390	.59836	.64216	.75483	.76326	.55354	1.1697
#1	.32670	1.0979	.00971	.71240	.61354	16.794	20.253
#2	.32175	1.1034	.00973	.70173	.60485	16.897	20.631
#3	.32403	1.1111	.00983	.70695	.60635	16.980	20.698

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S3 Acquired: 3/21/2024 11:09:47 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3791.9	104590.	14761.	4050.5	5151.3
Stddev	32.7	303.	90.	16.5	38.6
%RSD	.86301	.29008	.60932	.40650	.74839
#1	3754.1	104400.	14825.	4038.6	5108.8
#2	3811.1	104940.	14800.	4069.3	5184.0
#3	3810.4	104430.	14659.	4043.7	5161.0

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S4 Acquired: 3/21/2024 11:15:03 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26147	.20870	.79409	.22105	.48866	.55070	24.993	.66552
Stddev	.00081	.00185	.00172	.00075	.00135	.00565	.450	.00443
%RSD	.31118	.88419	.21601	.33860	.27708	1.0255	1.7987	.66545
#1	.26085	.20661	.79220	.22060	.48775	.54470	24.588	.66178
#2	.26239	.21009	.79555	.22192	.49022	.55151	24.914	.66438
#3	.26117	.20940	.79452	.22064	.48801	.55591	25.477	.67041

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.2078	1.0753	.14208	2.3025	.86669	.03072	1.3044	.28575
Stddev	.0093	.0118	.00039	.0037	.00269	.00027	.0166	.00310
%RSD	.14929	1.0973	.27380	.16093	.31071	.87392	1.2744	1.0840
#1	6.1976	1.0622	.14192	2.2986	.86519	.03047	1.2879	.28241
#2	6.2103	1.0788	.14179	2.3027	.86979	.03068	1.3041	.28633
#3	6.2157	1.0850	.14252	2.3060	.86508	.03100	1.3211	.28852

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4600	.19984	.23845	.35639	5.5969	.13227	1.2458	3.6970
Stddev	.0027	.00035	.00153	.00370	.0240	.00040	.0086	.0116
%RSD	.18642	.17392	.64141	1.0368	.42880	.30434	.69238	.31366
#1	1.4569	.19957	.23723	.35230	5.5988	.13181	1.2364	3.6874
#2	1.4612	.19973	.23795	.35739	5.5720	.13245	1.2475	3.7099
#3	1.4619	.20023	.24016	.35949	5.6199	.13255	1.2534	3.6936

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.64983	2.2013	.02022	1.4191	1.2414	33.182	40.919
Stddev	.00154	.0254	.00007	.0042	.0024	.443	.813
%RSD	.23652	1.1515	.36540	.29438	.19104	1.3360	1.9870
#1	.64814	2.1748	.02013	1.4179	1.2394	32.719	40.148
#2	.65023	2.2036	.02027	1.4157	1.2407	33.227	40.840
#3	.65114	2.2254	.02024	1.4238	1.2440	33.602	41.768

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S4 Acquired: 3/21/2024 11:15:03 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3733.6	100480.	14556.	3884.2	4890.7
Stddev	11.8	209.	77.	23.6	12.6
%RSD	.31491	.20774	.52917	.60758	.25675
#1	3745.0	100250.	14625.	3869.5	4903.9
#2	3721.5	100650.	14569.	3911.5	4889.1
#3	3734.4	100550.	14473.	3871.7	4879.0

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S5 Acquired: 3/21/2024 11:19:32 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.52617	.42047	1.5863	.44508	.97842	1.1172	50.418	1.3588
Stddev	.00044	.00539	.0008	.00051	.00070	.0023	.298	.0079
%RSD	.08421	1.2816	.05380	.11435	.07168	.20185	.59106	.57860
#1	.52652	.42660	1.5859	.44565	.97772	1.1155	50.761	1.3678
#2	.52631	.41834	1.5857	.44467	.97912	1.1164	50.273	1.3549
#3	.52567	.41648	1.5873	.44492	.97841	1.1198	50.220	1.3536

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12.477	2.1598	.27774	4.6297	1.6864	.05998	2.6151	.57857
Stddev	.006	.0050	.00024	.0035	.0018	.00045	.0060	.00299
%RSD	.04754	.23152	.08803	.07606	.10602	.74711	.22798	.51703
#1	12.475	2.1572	.27749	4.6263	1.6850	.05956	2.6199	.57694
#2	12.472	2.1567	.27798	4.6295	1.6885	.05992	2.6085	.57674
#3	12.483	2.1656	.27776	4.6333	1.6859	.06045	2.6170	.58202

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9286	.40082	.48216	.71947	10.769	.26470	2.5257	7.2537
Stddev	.0021	.00047	.00241	.00163	.040	.00202	.0246	.0097
%RSD	.07311	.11794	.49925	.22674	.37056	.76468	.97438	.13346
#1	2.9269	.40135	.47938	.71788	10.791	.26238	2.5541	7.2607
#2	2.9280	.40045	.48372	.71938	10.792	.26608	2.5109	7.2579
#3	2.9310	.40066	.48337	.72114	10.723	.26565	2.5121	7.2427

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3024	4.4472	.04052	2.7524	2.5823	67.057	81.356
Stddev	.0011	.0009	.00059	.0070	.0028	.334	.533
%RSD	.08707	.01983	1.4544	.25353	.10845	.49858	.65463
#1	1.3036	4.4462	.03995	2.7562	2.5853	67.421	81.952
#2	1.3013	4.4479	.04049	2.7443	2.5798	66.985	80.925
#3	1.3024	4.4475	.04112	2.7566	2.5817	66.764	81.191

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: S5 Acquired: 3/21/2024 11:19:32 Type: Cal
Method: NON EPA-6010-200.7(v2201) Mode: IR Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3632.0	98961.	13913.	3809.7	4606.1
Stddev	3.0	98.	102.	11.5	3.4
%RSD	.08294	.09927	.73007	.30200	.07423
#1	3629.9	98940.	13796.	3820.0	4602.5
#2	3630.6	99068.	13979.	3797.3	4609.3
#3	3635.4	98875.	13965.	3811.9	4606.4

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICV01 Acquired: 3/21/2024 11:59:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.015987	F 1.052909	1.000238	1.029325	1.001909	2.436411
Stddev	.005267	.027397	.002543	.007592	.000971	.014909
%RSD	.5184065	2.602028	.2541962	.7376039	.0968972	.6119436
#1	1.011248	1.032083	.997742	1.029024	1.001702	2.420136
#2	1.015057	1.042701	1.000149	1.021887	1.001058	2.439688
#3	1.021657	1.083945	1.002825	1.037063	1.002966	2.449409

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5162798	F .4832697	.5129864	9.679295	.5052770	F .4818668
Stddev	.0042337	.0021723	.0013090	.083334	.0023096	.0007555
%RSD	.8200502	.4495072	.2551773	.8609533	.4570864	.1567769
#1	.5115158	.4830946	.5114786	9.608712	.5028721	.4812718
#2	.5177114	.4811902	.5136478	9.657945	.5054812	.4816119
#3	.5196121	.4855243	.5138327	9.771227	.5074776	.4827167

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5239473	F 9.285633	F .4922889	6.152567	.5203917	.2452745
Stddev	.0007522	.079907	.0050735	.081610	.0013781	.0007967
%RSD	.1435568	.8605484	1.030597	1.326433	.2648110	.3248071
#1	.5232798	9.193455	.4870989	6.082884	.5190856	.2458780
#2	.5237997	9.335267	.4925305	6.132469	.5202574	.2443715
#3	.5247623	9.328177	.4972373	6.242348	.5218319	.2455741

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.40917	.4831870	.9996918	9.819165	F -.009259	2.496362
Stddev	.10624	.0034063	.0047103	.098991	.000860	.009266
%RSD	1.020631	.7049588	.4711784	1.008143	9.285115	.3711963
#1	10.28753	.4802184	.9950070	9.705359	-.010250	2.488445
#2	10.45624	.4824368	.9996412	9.866824	-.008819	2.494088
#3	10.48375	.4869059	1.004427	9.885312	-.008709	2.506554

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICV01 Acquired: 3/21/2024 11:59:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0012724	F .0001330	F -.002011	F -.000619	F .0127429	F .0008017
Stddev	.0005844	.0004499	.004161	.000117	.0002245	.0000251
%RSD	45.93135	338.2422	206.9712	18.86571	1.761762	3.136010
#1	.0012566	-.000257	-.001806	-.000635	.0129000	.0007873
#2	.0018645	.000625	-.006271	-.000495	.0124857	.0007871
#3	.0006960	.000030	.002045	-.000727	.0128429	.0008307

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F -.008182	z *****
Stddev	.000062	-----
%RSD	.7545960	-----
#1	-.008122	z 2604.362
#2	-.008179	z 2632.491
#3	-.008246	z 2615.603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3868.160	106634.1	15014.61	4037.498	5395.181
Stddev	2.698	62.2	50.19	11.983	3.163
%RSD	.0697452	.0583021	.3342631	.2968019	.0586193
#1	3867.027	106703.0	15025.76	4045.917	5398.742
#2	3866.213	106617.2	15058.28	4042.799	5394.100
#3	3871.240	106582.2	14959.78	4023.779	5392.701

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: LLICV01 Acquired: 3/21/2024 12:03:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220358	.0469339	.0102317	.0222949	.0563446	.0940421
Stddev	.0006951	.0012633	.0006320	.0004009	.0007747	.0061426
%RSD	3.154164	2.691726	6.177290	1.798282	1.375002	6.531787
#1	.0212534	.0473924	.0096269	.0227565	.0570152	.1010069
#2	.0225818	.0455054	.0108878	.0220946	.0565220	.0893975
#3	.0222724	.0479040	.0101804	.0220335	.0554965	.0917220

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1053940	.0061415	.0065527	2.141034	.0106905	.0307326
Stddev	.0010454	.0000665	.0001115	.028833	.0001148	.0004428
%RSD	.9919337	1.082966	1.701557	1.346667	1.074002	1.440796
#1	.1044220	.0061543	.0064243	2.108001	.0106436	.0302813
#2	.1052601	.0060695	.0066090	2.153952	.0108214	.0311664
#3	.1065000	.0062007	.0066248	2.161148	.0106066	.0307500

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241413	.1023188	.0214925	2.192356	.0414527	.0112487
Stddev	.0004815	.0029820	.0002369	.018415	.0007760	.0001382
%RSD	1.994324	2.914454	1.102198	.8399528	1.872088	1.228873
#1	.0241133	.0995956	.0213472	2.191137	.0406928	.0110895
#2	.0246361	.1018552	.0213644	2.174581	.0422440	.0113381
#3	.0236744	.1055054	.0217658	2.211350	.0414212	.0113184

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.007302	.0427170	.0451535	2.051257	.1010887	.2395584
Stddev	.020399	.0009383	.0003313	.006286	.0013926	.0036692
%RSD	1.016242	2.196477	.7337735	.3064578	1.377628	1.531641
#1	1.994915	.0421286	.0449286	2.044341	.1006952	.2354414
#2	1.996145	.0422234	.0455340	2.056623	.0999351	.2424832
#3	2.030846	.0437991	.0449979	2.052807	.1026357	.2407508

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: LLICV01 Acquired: 3/21/2024 12:03:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0408463	.0406347	.4322176	F .0021331	F .0033524	F .0029732
Stddev	.0001246	.0007423	.0048207	.0002214	.0003058	.0000547
%RSD	.3050771	1.826690	1.115340	10.37894	9.120807	1.840634
#1	.0407229	.0398226	.4342059	.0023835	.0030535	.0030312
#2	.0409721	.0408034	.4267207	.0019635	.0036646	.0029225
#3	.0408437	.0412781	.4357261	.0020521	.0033390	.0029658

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0215288	z *****
Stddev	.0002242	-----
%RSD	1.041180	-----
#1	.0213754	z 2540.519
#2	.0214249	z 2556.703
#3	.0217860	z 2548.913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3917.549	109466.2	15593.62	4125.496	5626.631
Stddev	58.390	472.3	82.11	22.657	88.735
%RSD	1.490471	.4314344	.5265879	.5491873	1.577062
#1	3982.064	109620.9	15571.75	4142.964	5717.280
#2	3868.329	109841.8	15684.46	4133.628	5539.942
#3	3902.254	108936.0	15524.66	4099.895	5622.669

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICB01 Acquired: 3/21/2024 12:07:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016824**	**.0012505**	**-.000587**	**-.000650**	**.0004991**	**-.001202**	**-.000431**
Stddev	.0016143	.0008547	.001046	.000868	.0014144	.003383	.000401
%RSD	95.95079	68.34950	178.2902	133.5601	283.3580	281.4046	92.95248
#1	.0021997	.0022330	-.000558	-.001577	.0015637	-.000967	-.000500
#2	-.000127	.0006784	.000444	.000143	.0010395	-.004697	-.000793
#3	.002975	.0008400	-.001647	-.000515	-.001106	.002057	-.000000

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000007**	**-.000081**	**.0070885**	**-.000131**	**-.000145**	**-.000105**	**-.002776**
Stddev	.000087	.000033	.0080771	.000310	.000045	.000411	.004305
%RSD	1259.900	40.60527	113.9457	236.6319	31.04392	390.2061	155.0873
#1	.000027	-.000064	.0023678	-.000261	-.000163	.000317	.000245
#2	.000058	-.000119	.0164149	-.000355	-.000094	-.000129	-.000867
#3	-.000106	-.000061	.0024829	.000223	-.000178	-.000504	-.007705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000133**	**-.022890**	**-.000051**	**.0003552**	**.0189107**	**-.000230**	**-.000229**
Stddev	.000276	.008176	.000229	.0001660	.0007565	.001857	.000035
%RSD	208.4051	35.71902	449.1500	46.73879	4.000535	808.0887	15.14399
#1	.000159	-.026307	.000209	.0001893	.0187851	-.001496	-.000231
#2	-.000167	-.013560	-.000226	.0005213	.0197222	-.001096	-.000193
#3	-.000390	-.028803	-.000136	.0003551	.0182248	.001902	-.000262

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0431275**	**-.005726**	**-.000222**	**.0025742**	**.0004209**	**.0142644**	**.0001044**
Stddev	.0125586	.000241	.000065	.0001377	.0000572	.0063375	.0000973
%RSD	29.11976	4.212608	29.48313	5.350416	13.59124	44.42905	93.24640
#1	.0299653	-.006005	-.000186	.0026344	.0004039	.0213808	.0000981
#2	.0549799	-.005584	-.000182	.0026716	.0003741	.0121832	.0000103
#3	.0444372	-.005590	-.000297	.0024166	.0004847	.0092292	.0002047

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICB01 Acquired: 3/21/2024 12:07:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0002682	.0005106	-.000120	z *****	
Stddev	.0001911	.0001321	.000008	-----	
%RSD	71.23501	25.86598	6.461700	-----	
#1	.0002873	.0004620	-.000129	z 2525.095	
#2	.0000683	.0004097	-.000115	z 2543.678	
#3	.0004490	.0006601	-.000116	z 2546.520	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3944.138	108462.4	15303.02	4084.918	5816.199
Stddev	50.639	518.1	556.67	44.172	76.331
%RSD	1.283902	.4776454	3.637653	1.081350	1.312379
#1	3998.503	107878.1	15573.22	4035.018	5898.065
#2	3935.599	108643.4	15673.02	4100.718	5803.548
#3	3898.311	108865.7	14662.82	4119.017	5746.984

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CRI01 Acquired: 3/21/2024 12:12:12 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0218802**	**.0468459**	**.0104581**	**.0230064**	**.0565360**	**.1025099**
Stddev	.0006751	.0021844	.0011492	.0004566	.0025409	.0018398
%RSD	3.085264	4.662898	10.98863	1.984683	4.494349	1.794717
#1	.0226578	.0458459	.0098350	.0230937	.0580877	.1005525
#2	.0214434	.0493512	.0097550	.0225124	.0579167	.1042036
#3	.0215396	.0453405	.0117843	.0234131	.0536037	.1027736

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1066207**	**.0062450**	**.0064408**	**2.183027**	**.0109758**	**.0308630**
Stddev	.0006009	.0000739	.0001518	.021160	.0001266	.0004266
%RSD	.5635857	1.183335	2.356436	.9693157	1.153514	1.382142
#1	.1060368	.0061596	.0063806	2.163197	.0109530	.0306721
#2	.1065881	.0062886	.0066134	2.180580	.0108622	.0313516
#3	.1072372	.0062866	.0063284	2.205305	.0111123	.0305652

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0243309**	**.1039878**	**.0216351**	**2.221957**	**.0412966**	**.0114878**
Stddev	.0003278	.0017422	.0003107	.019062	.0004729	.0002789
%RSD	1.347046	1.675398	1.436205	.8578775	1.145083	2.428220
#1	.0242265	.1020142	.0219594	2.199954	.0413041	.0117986
#2	.0246981	.1046375	.0213401	2.233457	.0417657	.0112590
#3	.0240681	.1053119	.0216058	2.232460	.0408200	.0114058

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.021121**	**.0445443**	**.0455773**	**2.066803**	**.1015416**	**.2429716**
Stddev	.018091	.0013393	.0004860	.009799	.0009525	.0031012
%RSD	.8950896	3.006616	1.066347	.4741301	.9380447	1.276348
#1	2.003920	.0433009	.0451566	2.059723	.1008453	.2425170
#2	2.019456	.0443698	.0454660	2.062698	.1011525	.2462749
#3	2.039987	.0459623	.0461093	2.077987	.1026271	.2401227

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CRI01 Acquired: 3/21/2024 12:12:12 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0405743	.0421155	.4376438	F .0020107	F .0030738	F .0027330
Stddev	.0003177	.0001215	.0014625	.0001779	.0003168	.0000562
%RSD	.7830776	.2884278	.3341835	8.847334	10.30566	2.054400
#1	.0405634	.0421678	.4377499	.0018095	.0027332	.0026897
#2	.0408973	.0419766	.4361310	.0021471	.0033596	.0027964
#3	.0402622	.0422020	.4390503	.0020756	.0031285	.0027127

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0218975	z *****
Stddev	.0001053	-----
%RSD	.4810561	-----
#1	.0218246	z 2555.267
#2	.0218496	z 2554.896
#3	.0220183	z 2548.261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3901.184	108603.6	15353.76	4117.749	5678.043
Stddev	41.067	149.5	25.45	11.797	47.763
%RSD	1.052670	.1376147	.1657546	.2864834	.8411870
#1	3900.549	108462.0	15327.99	4129.714	5686.548
#2	3860.439	108759.8	15354.40	4106.128	5626.600
#3	3942.564	108588.9	15378.88	4117.406	5720.983

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSA01 Acquired: 3/21/2024 12:16:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063700**	**.0000343**	**-.005244**	**-.013493**	**-.000474**	**253.7542**	**.0051154**
Stddev	.0009729	.0046373	.002724	.003753	.001063	1.7202	.0005714
%RSD	15.27398	13510.37	51.95364	27.81635	224.3773	.6778848	11.17070
#1	.0067293	.0052473	-.003683	-.009195	-.000753	253.3639	.0044987
#2	.0071122	-.001512	-.008389	-.015159	.000701	252.2627	.0056270
#3	.0052685	-.003632	-.003658	-.016125	-.001369	255.6359	.0052204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014238**	**-.000881**	**240.6204**	**.0469211**	**.0031360**	**-.000367**	**101.8420**
Stddev	.0000206	.000318	1.5110	.0005969	.0003094	.000214	.8892
%RSD	1.445011	36.12424	.6279800	1.272095	9.866465	58.37641	.8731183
#1	.0014358	-.000521	238.8878	.0463512	.0034163	-.000189	100.8464
#2	.0014000	-.000995	241.3083	.0468703	.0028040	-.000307	102.1225
#3	.0014355	-.001126	241.6651	.0475418	.0031876	-.000605	102.5571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0124411**	**254.0731**	**.0056011**	**-.008852**	**.0593838**	**.0036756**	**.0039877**
Stddev	.0000948	2.0069	.0002513	.000188	.0138279	.0009222	.0002541
%RSD	.7621452	.7898872	4.485667	2.119629	23.28563	25.08963	6.372987
#1	.0123354	251.7600	.0057545	-.008650	.0508643	.0032443	.0041745
#2	.0125186	255.1082	.0053112	-.009022	.0753386	.0047345	.0036983
#3	.0124694	255.3511	.0057377	-.008882	.0519485	.0030481	.0040903

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043549**	**-.012659**	**.0009677**	**-.000361**	**.0002137**	**-.090573**	**-.000042**
Stddev	.0151796	.002438	.0002413	.000794	.0002633	.004834	.000596
%RSD	348.5642	19.25487	24.94006	219.7669	123.2114	5.337314	1419.396
#1	.0110962	-.015470	.0012259	-.000795	.0002913	-.094315	.000643
#2	-.013028	-.011387	.0009293	-.000844	.0004295	-.092288	-.000444
#3	.014996	-.011121	.0007478	.000555	-.000080	-.085115	-.000325

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSA01 Acquired: 3/21/2024 12:16:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	**-.017242**	**.0009630**	**-.001285**	z *****	
Stddev	.000263	.0000176	.000471	-----	
%RSD	1.523313	1.832388	36.60428	-----	
#1	-.017336	.0009497	-.000766	z 3068.513	
#2	-.016946	.0009830	-.001407	z 3105.069	
#3	-.017445	.0009563	-.001683	z 3088.655	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3547.824**	**94651.19**	**14781.87**	**3647.412**	**4550.676**
Stddev	12.119	169.54	20.80	16.551	17.277
%RSD	.3415980	.1791186	.1407011	.4537812	.3796526
#1	3539.091	94846.68	14760.66	3664.995	4540.717
#2	3542.722	94562.44	14782.72	3632.134	4540.686
#3	3561.661	94544.44	14802.23	3645.106	4570.626

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSAB01 Acquired: 3/21/2024 12:21:08 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1103954	.1033491	.0420796	.0379017	.6149928	248.9674
Stddev	.0022185	.0025316	.0008641	.0031285	.0029687	2.8820
%RSD	2.009626	2.449610	2.053488	8.254307	.4827182	1.157568
#1	.1126422	.1004514	.0422457	.0368960	.6118801	246.0573
#2	.1082062	.1051323	.0411445	.0414094	.6177926	249.0247
#3	.1103379	.1044635	.0428486	.0353998	.6153056	251.8204

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4930694	.4860860	1.009203	236.4480	.5509917	.4933841
Stddev	.0043541	.0011961	.001530	1.7007	.0036531	.0011556
%RSD	.8830650	.2460717	.1515823	.7192828	.6629971	.2342158
#1	.4881617	.4854833	1.010555	234.5877	.5468617	.4945766
#2	.4945776	.4853111	1.007543	236.8330	.5523137	.4922694
#3	.4964689	.4874635	1.009513	237.9232	.5537997	.4933064

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4969522	98.21433	.4894246	250.2596	.9851975	.2095762
Stddev	.0009374	.89274	.0038554	1.5625	.0015902	.0001674
%RSD	.1886286	.9089758	.7877310	.6243689	.1614054	.0798671
#1	.4978345	97.21777	.4849988	248.4844	.9857264	.2094047
#2	.4970541	98.48425	.4912217	250.8674	.9834103	.2097391
#3	.4959680	98.94096	.4920534	251.4268	.9864558	.2095847

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540132	.4785181	1.055334	.0040053	.9232273	.9962563
Stddev	.0133665	.0016658	.001368	.0057560	.0039729	.0028834
%RSD	24.74679	.3481119	.1296457	143.7107	.4303294	.2894242
#1	.0654818	.4767612	1.054512	.0005880	.9186816	.9967388
#2	.0393336	.4787185	1.056914	.0106509	.9260353	.9988681
#3	.0572241	.4800747	1.054577	.0007770	.9249650	.9931621

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSAB01 Acquired: 3/21/2024 12:21:08 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9784878	.9633699	.9304081	F -.001327	F -.012194	F .0006997
Stddev	.0001582	.0047356	.0114912	.000330	.000742	.0000957
%RSD	.0161721	.4915669	1.235065	24.88460	6.084691	13.67224
#1	.9783136	.9587766	.9224182	-.001708	-.011527	.0006018
#2	.9786227	.9630971	.9252289	-.001119	-.012993	.0007930
#3	.9785270	.9682361	.9435774	-.001154	-.012063	.0007043

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F -.000128	z *****
Stddev	.000064	-----
%RSD	50.18318	-----
#1	-.000118	z 3074.292
#2	-.000070	z 3076.237
#3	-.000198	z 3097.427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3557.940	95685.59	14742.95	3685.348	4542.572
Stddev	9.257	125.07	25.13	6.988	3.856
%RSD	.2601888	.1307104	.1704712	.1896239	.0848812
#1	3553.311	95811.81	14738.89	3689.320	4538.515
#2	3551.911	95683.27	14769.87	3677.279	4546.189
#3	3568.599	95561.70	14720.10	3689.445	4543.012

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSADLX20 Acquired: 3/21/2024 12:25:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010764	.0003377	.0000538	-.000314	-.000731	12.76184	-.000369
Stddev	.0010495	.0013246	.0013034	.001428	.000940	.10366	.000351
%RSD	97.50717	392.2353	2422.126	454.8908	128.6548	.8122481	95.05813
#1	.0020481	.0010597	-.001153	-.000410	-.001812	12.64370	-.000286
#2	-.000037	.0011445	.001436	-.001692	-.000275	12.80424	-.000067
#3	.001218	-.001191	-.000121	.001160	-.000105	12.83757	-.000754

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001338	-.000154	12.60744	.0021886	.0001779	.0001901	4.897892
Stddev	.0000443	.000057	.11773	.0001622	.0001631	.0005771	.020497
%RSD	33.13235	37.08200	.9338499	7.413676	91.68632	303.5247	.4184884
#1	.0001467	-.000113	12.47363	.0020028	.0002747	.0007501	4.884297
#2	.0001703	-.000220	12.69514	.0023026	-.000010	.0002231	4.887911
#3	.0000845	-.000130	12.65354	.0022603	.000269	-.000403	4.921468

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003424	12.76558	.0002587	.0000842	.0209893	.0003106	.0000226
Stddev	.0001460	.18114	.0002355	.0002736	.0084431	.0009454	.0000909
%RSD	42.63092	1.418962	91.01500	324.9168	40.22549	304.4125	401.6183
#1	.0002080	12.55649	.0003695	.0001256	.0237000	.0013739	-.000019
#2	.0003213	12.86535	-.000012	-.000208	.0277441	-.000007	-.000040
#3	.0004977	12.87489	.000418	.000335	.0115238	-.000435	.000127

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007872	-.008149	-.000129	.0015174	.0008335	.0105129	.0000006
Stddev	.014085	.000719	.000129	.0002321	.0003141	.0093467	.0001558
%RSD	178.9235	8.817841	100.3702	15.29305	37.68539	88.90718	24321.66
#1	-.021093	-.007747	-.000031	.0017825	.0011689	.0138228	-.000174
#2	.006942	-.007722	-.000276	.0013508	.0005462	-.000038	.000051
#3	-.009466	-.008979	-.000080	.0014189	.0007853	.017754	.000125

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSADLX20 Acquired: 3/21/2024 12:25:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.001050	.0003727	.0001261	z *****	
Stddev	.000133	.0000737	.0000587	-----	
%RSD	12.64234	19.76451	46.54468	-----	
#1	-.000969	.0004577	.0000583	z 2625.775	
#2	-.001204	.0003266	.0001591	z 2592.876	
#3	-.000979	.0003339	.0001608	z 2618.219	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3961.356	105903.7	14888.81	4015.611	5510.851
Stddev	10.286	195.3	67.02	9.868	16.399
%RSD	.2596467	.1843746	.4501061	.2457338	.2975757
#1	3956.815	105759.9	14965.86	4026.995	5496.119
#2	3973.130	106126.0	14844.10	4009.492	5528.520
#3	3954.122	105825.3	14856.46	4010.346	5507.912

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSABDLX20 Acquired: 3/21/2024 12:29:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057906	.0063345	.0011186	.0021036	.0279925	12.78499	.0253440
Stddev	.0003036	.0021927	.0023327	.0014266	.0030736	.76211	.0020077
%RSD	5.243101	34.61562	208.5499	67.81527	10.98004	5.960995	7.921606
#1	.0054745	.0070078	.0038099	.0018901	.0244503	13.66498	.0276437
#2	.0060799	.0038840	-.000322	.0007959	.0295725	12.35097	.0239409
#3	.0058173	.0081116	-.000132	.0036250	.0299548	12.33903	.0244473

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257002	.0482568	12.60251	.0271934	.0232919	.0250258	4.678362
Stddev	.0013683	.0001027	.73185	.0001441	.0000955	.0003102	.040766
%RSD	5.324095	.2127092	5.807164	.5299994	.4097923	1.239615	.8713708
#1	.0272752	.0481725	13.44717	.0270271	.0232791	.0247663	4.719963
#2	.0250218	.0483711	12.20273	.0272801	.0232036	.0249417	4.638486
#3	.0248037	.0482267	12.15762	.0272732	.0233931	.0253694	4.676636

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259002	12.82082	.0474566	.0104366	.0205312	.0260409	.0515464
Stddev	.0016136	.74496	.0001121	.0000718	.0087376	.0007964	.0005264
%RSD	6.230068	5.810564	.2362755	.6881324	42.55762	3.058150	1.021276
#1	.0277627	13.68092	.0474113	.0103550	.0305690	.0267801	.0509829
#2	.0250104	12.40271	.0473742	.0104642	.0146310	.0261451	.0520255
#3	.0249273	12.37884	.0475843	.0104905	.0163935	.0251976	.0516308

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128198	.0413648	.0495733	.0484042	.0504473	.0528135	-.000129
Stddev	.0130589	.0025741	.0003041	.0006026	.0034509	.0028828	.000229
%RSD	101.8652	6.222807	.6134994	1.244942	6.840625	5.458396	177.2829
#1	.0265890	.0442336	.0497525	.0477442	.0544311	.0546088	-.000091
#2	.0112591	.0392571	.0497452	.0485433	.0483770	.0494883	.000078
#3	.0006114	.0406037	.0492221	.0489250	.0485339	.0543434	-.000374

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: ICSABDLX20 Acquired: 3/21/2024 12:29:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.000637	.0003854	.0003843	z *****	
Stddev	.000183	.0001344	.0002632	-----	
%RSD	28.75115	34.85950	68.48112	-----	
#1	-.000529	.0005381	.0006853	z 2620.385	
#2	-.000848	.0002851	.0002703	z 2610.673	
#3	-.000533	.0003332	.0001974	z 2621.206	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4009.900	108256.7	14584.47	4118.952	5589.532
Stddev	5.714	266.2	775.48	12.279	5.186
%RSD	.1425008	.2458516	5.317142	.2981071	.0927870
#1	4006.289	108262.5	13691.08	4123.977	5588.852
#2	4006.923	108519.9	14978.75	4127.920	5584.719
#3	4016.488	107987.7	15083.59	4104.957	5595.024

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV01 Acquired: 3/21/2024 12:34:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.942423**	**5.169094**	**5.020362**	**4.999775**	**5.011922**	**10.12025**
Stddev	.008100	.050772	.007568	.006492	.009371	.06548
%RSD	.1638951	.9822156	.1507407	.1298538	.1869718	.6470195
#1	4.933120	5.201673	5.018548	4.995781	5.001168	10.06759
#2	4.946233	5.110594	5.028673	4.996277	5.016268	10.19356
#3	4.947916	5.195015	5.013867	5.007266	5.018331	10.09958

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.02980**	**.2477906**	**2.494857**	**25.17525**	**1.015604**	**2.479577**
Stddev	.12001	.0017536	.001335	.09606	.002440	.001809
%RSD	1.196499	.7076992	.0535243	.3815602	.2402315	.0729482
#1	10.01206	.2487670	2.494775	25.08392	1.013543	2.478032
#2	10.15769	.2488386	2.496231	25.27543	1.014970	2.481567
#3	9.91965	.2457661	2.493565	25.16641	1.018298	2.479133

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.242001**	**5.067394**	**2.494301**	**24.97297**	**2.502652**	**1.267388**
Stddev	.003575	.057832	.013904	.14779	.001930	.002498
%RSD	.2878794	1.141259	.5574442	.5918070	.0771285	.1970835
#1	1.237958	5.001552	2.478357	24.82572	2.501880	1.264932
#2	1.244747	5.090665	2.503910	25.12130	2.504849	1.267307
#3	1.243297	5.109966	2.500636	24.97191	2.501227	1.269925

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.91297**	**2.515311**	**2.557576**	**25.19198**	**5.094858**	**4.969999**
Stddev	.29801	.009763	.005445	.24729	.033401	.008740
%RSD	1.196193	.3881363	.2129158	.9816268	.6555830	.1758537
#1	24.64395	2.504881	2.553875	24.96939	5.095303	4.960790
#2	24.86166	2.516821	2.555023	25.14837	5.128035	4.971028
#3	25.23330	2.524230	2.563829	25.45818	5.061237	4.978178

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV01 Acquired: 3/21/2024 12:34:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.988230**	**5.049336**	F **5.291066**	F **4.665237**	F **4.575087**	F **4.730697**
Stddev	.009098	.020873	.065434	.010211	.005723	.050430
%RSD	.1823881	.4133901	1.236687	.2188687	.1250828	1.066007
#1	4.978633	5.025419	5.232864	4.664244	4.569299	4.740069
#2	4.996729	5.063879	5.278441	4.675908	4.575221	4.775783
#3	4.989329	5.058709	5.361892	4.655559	4.580742	4.676239

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.052798**	z *****
Stddev	.014656	-----
%RSD	.2900479	-----
#1	5.054684	z 24048.11
#2	5.066419	z 24090.11
#3	5.037291	z 24117.34

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3791.050**	**101552.8**	**14656.71**	**3882.090**	**4882.116**
Stddev	3.649	106.1	109.80	7.702	10.970
%RSD	.0962543	.1044822	.7491328	.1984058	.2247011
#1	3790.801	101675.2	14615.95	3890.472	4872.189
#2	3787.531	101495.1	14573.11	3880.473	4880.264
#3	3794.816	101488.0	14781.05	3875.324	4893.894

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB01 Acquired: 3/21/2024 12:38:42 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007545**	**-.000733**	**.0008594**	**-.000907**	**.0013157**	**-.002407**	**-.000065**
Stddev	.0009964	.002153	.0003576	.001013	.0014752	.006108	.000123
%RSD	132.0593	293.4959	41.61027	111.6010	112.1270	253.7670	188.4894
#1	-.000395	-.003217	.0012700	-.000549	.0000149	.003465	-.000124
#2	.001372	.000424	.0006919	-.002051	.0029186	-.008727	-.000148
#3	.001287	.000593	.0006163	-.000123	.0010135	-.001959	.000076

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000249**	**.0000216**	**.0133388**	**.0001689**	**.0001686**	**.0005749**	**-.003859**
Stddev	.0000597	.0000755	.0050146	.0002232	.0000423	.0002516	.001822
%RSD	239.8670	349.3648	37.59381	132.1942	25.10939	43.75672	47.21391
#1	.0000938	-.000019	.0076246	.0001465	.0002043	.0003523	-.005231
#2	-.000008	.000109	.0170064	-.000042	.0001797	.0008479	-.004555
#3	-.000011	-.000025	.0153855	.000402	.0001218	.0005246	-.001792

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000135**	**-.009394**	**-.000094**	**.0005506**	**.0291560**	**.0019082**	**-.000060**
Stddev	.000162	.015997	.000227	.0000940	.0033148	.0007876	.000150
%RSD	120.0203	170.2827	242.0662	17.07763	11.36918	41.27547	250.8473
#1	-.000213	-.004129	-.000059	.0006337	.0324622	.0009987	.000110
#2	.000051	.003306	-.000337	.0004485	.0291731	.0023612	-.000115
#3	-.000243	-.027360	.000114	.0005697	.0258326	.0023647	-.000174

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014111**	**.0033598**	**.0002722**	**.0017496**	**.0002488**	**.0177487**	**.0003715**
Stddev	.0107334	.0002942	.0001200	.0002411	.0001825	.0064536	.0002613
%RSD	760.6391	8.756351	44.10043	13.77851	73.34669	36.36074	70.34577
#1	-.010118	.0032891	.0001945	.0015698	.0003377	.0108103	.0005984
#2	.003237	.0031075	.0004104	.0020236	.0000389	.0235720	.0004303
#3	.011114	.0036830	.0002116	.0016556	.0003698	.0188639	.0000858

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB01 Acquired: 3/21/2024 12:38:42 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0000466	.0022094	.0003063	z *****	
Stddev	.0002592	.0001078	.0000335	-----	
%RSD	556.5575	4.879861	10.92138	-----	
#1	.0003446	.0023045	.0003257	z 2487.055	
#2	-.000126	.0022314	.0003256	z 2504.846	
#3	-.000079	.0020923	.0002677	z 2504.836	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4010.295	109438.0	15392.79	4136.100	5762.548
Stddev	102.389	294.7	36.60	23.745	138.221
%RSD	2.553142	.2692930	.2377412	.5740966	2.398607
#1	3892.191	109439.1	15399.56	4108.956	5602.978
#2	4064.670	109142.7	15425.53	4153.028	5839.507
#3	4074.025	109732.1	15353.29	4146.315	5845.160

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1675-02 Acquired: 3/21/2024 12:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029516**	**.0023745**	**.0132784**	**-.003847**	**.0025706**	**.4527150**
Stddev	.0009884	.0023950	.0002370	.001312	.0014219	.0152771
%RSD	33.48555	100.8640	1.784652	34.08955	55.31252	3.374553
#1	.0024851	.0018147	.0134882	-.002695	.0020387	.4402179
#2	.0022829	.0049997	.0133257	-.003573	.0014914	.4481812
#3	.0040869	.0003089	.0130214	-.005274	.0041817	.4697458

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0433043**	**.0001343**	**.0020205**	**20.09030**	**.0189439**	**.0052102**
Stddev	.0004666	.0000287	.0001101	.04315	.0000946	.0001442
%RSD	1.077490	21.40774	5.449855	.2147622	.4991382	2.767808
#1	.0428026	.0001645	.0021463	20.05588	.0189679	.0051111
#2	.0437252	.0001073	.0019417	20.07631	.0190242	.0053757
#3	.0433852	.0001309	.0019735	20.13871	.0188397	.0051439

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.128936**	**1.862637**	**.0781652**	**8.400120**	**.1156218**	**.1480242**
Stddev	.002502	.004992	.0003182	.030491	.0004600	.0001231
%RSD	.2216341	.2679869	.4070537	.3629872	.3978204	.0831346
#1	1.131666	1.856878	.0779417	8.424124	.1161258	.1479120
#2	1.128391	1.865737	.0785295	8.365811	.1155148	.1481558
#3	1.126752	1.865294	.0780244	8.410424	.1152247	.1480048

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **126.6731**	**.0040339**	**.3963337**	**7.808383**	**6.063200**	**.0027540**
Stddev	.5410	.0012807	.0011103	.009693	.016845	.0002082
%RSD	.4270804	31.74977	.2801483	.1241390	.2778210	7.558834
#1	126.2067	.0031077	.3960001	7.811148	6.075980	.0029888
#2	126.5465	.0054954	.3954284	7.797608	6.044111	.0025919
#3	127.2662	.0034985	.3975726	7.816393	6.069507	.0026814

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1675-02 Acquired: 3/21/2024 12:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020343	.0211612	3.973544	.4333273	6.412634	.0004914
Stddev	.0007381	.0012071	.017061	.0026227	.022939	.0001369
%RSD	36.28342	5.704373	.4293669	.6052429	.3577142	27.86314
#1	.0028862	.0205163	3.963563	.4363550	6.434810	.0003524
#2	.0016304	.0204135	3.963825	.4317592	6.389002	.0004956
#3	.0015863	.0225538	3.993244	.4318675	6.414090	.0006262

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0802241	z *****
Stddev	.0002802	-----
%RSD	.3492835	-----
#1	.0801103	z 2526.659
#2	.0800186	z 2541.251
#3	.0805432	z 2517.786

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3840.460	104996.7	15899.43	3945.810	5217.590
Stddev	8.602	97.8	8.09	6.173	19.157
%RSD	.2239847	.0931609	.0508808	.1564403	.3671713
#1	3849.531	105108.6	15890.33	3942.246	5231.119
#2	3839.430	104927.6	15905.83	3952.938	5225.983
#3	3832.420	104953.8	15902.12	3942.246	5195.668

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01 Acquired: 3/21/2024 12:47:30 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1046824**	**-.048165**	**.9086226**	**-.054355**	**-.007837**	**201.4906**
Stddev	.0018624	.004968	.0068690	.003263	.002551	1.5408
%RSD	1.779119	10.31524	.7559793	6.002796	32.55258	.7646817
#1	.1044502	-.053016	.9144314	-.050657	-.008664	201.7149
#2	.1066500	-.048391	.9010410	-.056828	-.009873	199.8501
#3	.1029469	-.043087	.9103953	-.055579	-.004975	202.9070

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.097704**	**.0180242**	**.0124817**	**52.27206**	**.2837507**	**.2632951**
Stddev	.011720	.0001658	.0009047	.12404	.0017893	.0003696
%RSD	.5587147	.9200370	7.248320	.2373030	.6305770	.1403841
#1	2.086639	.0182146	.0131971	52.19779	.2855213	.2629300
#2	2.096489	.0179463	.0127833	52.20314	.2837873	.2632860
#3	2.109985	.0179116	.0114647	52.41526	.2819433	.2636691

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5163690**	**384.8346**	**15.48546**	**101.1660**	**.5302431**	**-.032733**
Stddev	.0010546	6.5760	.04907	.2677	.0005764	.000700
%RSD	.2042234	1.708790	.3168622	.2646515	.1087001	2.137126
#1	.5156924	380.3636	15.43578	101.1948	.5308670	-.033409
#2	.5175841	381.7550	15.48670	100.8850	.5297304	-.032776
#3	.5158305	392.3854	15.53390	101.4181	.5301318	-.032012

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.000229**	**.3618923**	**2.830095**	**21.80430**	**-.009443**	**.0031354**
Stddev	.040298	.0019096	.014819	.15473	.028200	.0000362
%RSD	1.007402	.5276797	.5236305	.7096451	298.6231	1.154255
#1	3.957576	.3597746	2.818817	21.63255	-.035641	.0031771
#2	4.005446	.3624191	2.846879	21.84751	-.013091	.0031171
#3	4.037664	.3634833	2.824589	21.93283	.020403	.0031120

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01 Acquired: 3/21/2024 12:47:30 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385100	3.414264	F 10.61765	.9668169	.0218162	.0757739
Stddev	.0013265	.012914	.08755	.0023571	.0013456	.0005961
%RSD	3.444686	.3782366	.8245335	.2437996	6.167919	.7867379
#1	.0369868	3.402900	10.51861	.9690953	.0219175	.0752907
#2	.0391309	3.411585	10.64962	.9643883	.0231084	.0755910
#3	.0394121	3.428308	10.68471	.9669669	.0204229	.0764401

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.133595	z *****
Stddev	.005357	-----
%RSD	4.010178	-----
#1	-.130637	z 8513.894
#2	-.130369	z 8477.640
#3	-.139779	z 8512.178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4444.359	120108.2	18500.67	4554.441	4778.965
Stddev	2.160	18.1	74.74	27.284	5.993
%RSD	.0485988	.0150535	.4039965	.5990526	.1253946
#1	4446.645	120129.1	18414.56	4571.190	4780.151
#2	4444.080	120098.9	18548.70	4522.959	4784.275
#3	4442.353	120096.7	18538.76	4569.176	4772.468

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1793-02 Acquired: 3/21/2024 12:52:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031070	-.002202	.0011328	-.000521	.0013003	.0842215	.0009338
Stddev	.0003432	.001920	.0009402	.001917	.0005006	.0071000	.0003317
%RSD	11.04719	87.18229	83.00471	367.7147	38.49957	8.430137	35.51996
#1	.0034520	-.000046	.0002904	.001349	.0008630	.0869624	.0013135
#2	.0027655	-.003726	.0009608	-.002482	.0018463	.0895425	.0007867
#3	.0031034	-.002835	.0021471	-.000431	.0011916	.0761596	.0007011

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000150	-.000049	.6998600	.0026413	-.000123	.0114908	.2292318
Stddev	.0000213	.000027	.0095353	.0002656	.000058	.0005389	.0097694
%RSD	142.2397	54.29774	1.362461	10.05398	46.95818	4.689850	4.261806
#1	.0000036	-.000020	.6920051	.0028043	-.000176	.0121047	.2380638
#2	.0000396	-.000073	.6971054	.0027847	-.000062	.0110960	.2308936
#3	.0000018	-.000055	.7104693	.0023349	-.000131	.0112716	.2187381

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048385	.0519781	.0014424	.0007184	.3406928	.0016088	.2483307
Stddev	.0004019	.0193609	.0001134	.0001535	.0056550	.0017087	.0008980
%RSD	8.305942	37.24816	7.862895	21.37073	1.659850	106.2098	.3616162
#1	.0049191	.0539377	.0015035	.0008112	.3434780	.0030979	.2475127
#2	.0051940	.0317120	.0015123	.0008028	.3444150	-.000257	.2492916
#3	.0044024	.0702847	.0013116	.0005412	.3341855	.001985	.2481880

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4279895	.0011193	-.000097	.0009761	.0034237	.0918656	.0016240
Stddev	.0111563	.0004243	.000155	.0007247	.0006458	.0018706	.0002021
%RSD	2.606679	37.91087	158.9394	74.24144	18.86242	2.036221	12.44282
#1	.4151361	.0012699	.000054	.0003749	.0033811	.0940223	.0018270
#2	.4351611	.0006402	-.000092	.0017808	.0028002	.0908907	.0014228
#3	.4336714	.0014477	-.000255	.0007727	.0040897	.0906839	.0016222

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1793-02 Acquired: 3/21/2024 12:52:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0784612	.0001743	.0014102	z *****	
Stddev	.0009520	.0000994	.0000662	-----	
%RSD	1.213276	56.98985	4.695883	-----	
#1	.0782795	.0001490	.0013337	z 2339.375	
#2	.0776133	.0002839	.0014497	z 2352.284	
#3	.0794910	.0000901	.0014471	z 2348.344	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3961.739	109810.4	15696.92	4007.621	5865.032
Stddev	23.449	358.8	78.91	13.456	48.723
%RSD	.5918940	.3267651	.5027011	.3357624	.8307329
#1	3957.616	110153.5	15761.77	4019.273	5870.962
#2	3986.977	109437.7	15719.93	3992.893	5910.519
#3	3940.625	109840.0	15609.07	4010.697	5813.616

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01DLX10 Acquired: 3/21/2024 13:03:57 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119284	-.003559	.0922661	-.008197	-.001925	23.56486	.2472734
Stddev	.0024232	.000311	.0018283	.003758	.000163	.14760	.0018053
%RSD	20.31475	8.730387	1.981526	45.85098	8.443734	.6263409	.7300999
#1	.0128800	-.003472	.0911918	-.011936	-.002050	23.42058	.2461047
#2	.0137313	-.003904	.0943771	-.004419	-.001741	23.55845	.2463627
#3	.0091738	-.003301	.0912293	-.008236	-.001982	23.71556	.2493527

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022962	-.000536	6.312625	.0338980	.0252137	.0628981	44.14095
Stddev	.0000440	.000051	.059077	.0004728	.0000296	.0004479	.18870
%RSD	1.914255	9.575157	.9358578	1.394653	.1174936	.7120789	.4274917
#1	.0022956	-.000485	6.252224	.0333941	.0252078	.0634056	44.05449
#2	.0023405	-.000537	6.315367	.0343318	.0251875	.0625584	44.01098
#3	.0022526	-.000587	6.370283	.0339681	.0252458	.0627302	44.35739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.886557	11.86436	.0519830	-.003221	.4383372	.0436564	.3401842
Stddev	.012442	.11885	.0004905	.000417	.0169398	.0017052	.0011601
%RSD	.6595197	1.001750	.9434745	12.93966	3.864558	3.906032	.3410235
#1	1.875055	11.73072	.0524105	-.003701	.4298098	.0417387	.3397839
#2	1.884853	11.90416	.0520909	-.002948	.4273556	.0450019	.3414915
#3	1.899764	11.95821	.0514476	-.003015	.4578462	.0442287	.3392773

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.290543	-.019007	.0001027	.0056426	.4082141	1.166162	.0911036
Stddev	.017943	.001786	.0000892	.0010361	.0022189	.007612	.0005868
%RSD	.7833298	9.398523	86.85184	18.36218	.5435647	.6527385	.6440480
#1	2.270143	-.018561	.0000197	.0068369	.4062696	1.174650	.0917808
#2	2.303876	-.020974	.0000913	.0049847	.4077415	1.159943	.0907488
#3	2.297610	-.017485	.0001970	.0051061	.4106313	1.163892	.0907811

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01DLX10 Acquired: 3/21/2024 13:03:57 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	-.002281	.0098175	-.014176	z *****
Stddev	.000244	.0000624	.000086	-----
%RSD	10.71774	.6358122	.6058861	-----
#1	-.002135	.0097719	-.014275	z 3119.886
#2	-.002145	.0097921	-.014128	z 3129.890
#3	-.002563	.0098887	-.014125	z 3138.600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4056.559	108141.8	15347.94	4058.485	5436.909
Stddev	26.793	15.1	53.31	1.119	33.939
%RSD	.6604880	.0139221	.3473158	.0275688	.6242253
#1	4028.512	108158.8	15409.46	4058.671	5400.173
#2	4059.273	108136.4	15319.10	4057.285	5443.460
#3	4081.892	108130.2	15315.28	4059.500	5467.095

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01DL2X50 Acquired: 3/21/2024 13:08:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021151	-.000030	.0189144	-.003052	-.001608	4.781484	.0493290
Stddev	.0035304	.000392	.0016205	.002756	.000517	.025540	.0004468
%RSD	166.9138	1299.859	8.567355	90.33107	32.12367	.5341450	.9058090
#1	.0059217	.000420	.0172214	-.001752	-.001036	4.753085	.0488208
#2	.0014751	-.000297	.0190708	-.001185	-.001747	4.788800	.0495062
#3	-.001052	-.000214	.0204510	-.006218	-.002041	4.802568	.0496600

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004775	-.000342	1.287584	.0064862	.0050795	.0128415	9.124503
Stddev	.0000465	.000081	.005446	.0000474	.0003572	.0001137	.043008
%RSD	9.730338	23.57428	.4229921	.7302080	7.032604	.8851854	.4713500
#1	.0004842	-.000249	1.281564	.0065370	.0054445	.0129634	9.084203
#2	.0004280	-.000383	1.289015	.0064432	.0050634	.0128228	9.119521
#3	.0005202	-.000393	1.292171	.0064785	.0047306	.0127383	9.169786

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3873131	2.380249	.0099323	-.000203	.0993416	.0099973	.0685621
Stddev	.0021097	.026839	.0001063	.000194	.0077734	.0005955	.0002553
%RSD	.5447046	1.127582	1.070190	95.79252	7.824879	5.956696	.3723919
#1	.3850219	2.350842	.0098736	-.000048	.0971913	.0099312	.0683480
#2	.3877421	2.386481	.0100550	-.000421	.1079637	.0106231	.0688447
#3	.3891754	2.403424	.0098683	-.000140	.0928697	.0094376	.0684935

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4710858	-.006822	-.000220	.0027955	.0825125	.2500855	.0177974
Stddev	.0170981	.000335	.000056	.0003143	.0010746	.0020308	.0002612
%RSD	3.629498	4.912898	25.47964	11.24263	1.302391	.8120418	1.467464
#1	.4603098	-.006469	-.000162	.0029839	.0820798	.2485656	.0177145
#2	.4621472	-.006862	-.000225	.0024327	.0817217	.2492990	.0180899
#3	.4908004	-.007136	-.000274	.0029699	.0837361	.2523919	.0175877

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01DL2X50 Acquired: 3/21/2024 13:08:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	-.000570	.0024907	-.003062	z *****
Stddev	.000030	.0000755	.000026	-----
%RSD	5.314650	3.030039	.8575737	-----
#1	-.000536	.0025216	-.003048	z 2582.469
#2	-.000581	.0025457	-.003047	z 2601.869
#3	-.000594	.0024046	-.003093	z 2598.022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.562	109044.8	15572.70	4110.717	5684.909
Stddev	11.199	166.9	17.05	1.372	15.477
%RSD	.2753130	.1530260	.1094991	.0333766	.2722526
#1	4056.517	108888.6	15559.10	4112.253	5668.094
#2	4067.261	109025.1	15567.16	4109.612	5688.071
#3	4078.908	109220.6	15591.83	4110.287	5698.560

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DLX5 Acquired: 3/21/2024 13:12:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033167	-.008541	.0020850	-.007998	.0024859	.2259336	.0190691
Stddev	.0032342	.002977	.0005308	.001193	.0025410	.0101647	.0015213
%RSD	97.51248	34.85872	25.46024	14.91992	102.2182	4.498991	7.977935
#1	.0070424	-.005344	.0014889	-.008888	-.000250	.2145396	.0173599
#2	.0012301	-.011235	.0025068	-.008463	.004772	.2291904	.0195724
#3	.0016778	-.009045	.0022592	-.006642	.002936	.2340707	.0202750

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008824	-.001992	21.43386	-.009100	.0028148	.0310806	66.10311
Stddev	.0000967	.000094	1.19454	.000648	.0001774	.0001278	1.18085
%RSD	10.95607	4.736147	5.573151	7.115575	6.301803	.4111682	1.786383
#1	.0007953	-.001924	20.06571	-.008411	.0026101	.0311526	64.81219
#2	.0008654	-.001951	22.26975	-.009193	.0029222	.0309330	66.36835
#3	.0009864	-.002100	21.96613	-.009697	.0029123	.0311561	67.12878

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.051712	5.110083	.0036265	-.004876	39.16864	.0020058	.2213644
Stddev	.117650	.278745	.0002735	.000140	.62770	.0007669	.0014404
%RSD	5.734252	5.454804	7.541484	2.861470	1.602564	38.23462	.6506705
#1	1.916686	4.790660	.0036315	-.005005	38.49983	.0026391	.2197281
#2	2.132168	5.304085	.0038975	-.004728	39.26112	.0022252	.2219243
#3	2.106282	5.235502	.0033505	-.004895	39.74497	.0011531	.2224407

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.01947	.0752672	.0004720	.0012887	.0008184	.8644972	.1547525
Stddev	.34234	.0034988	.0003255	.0006564	.0006786	.0094476	.0004627
%RSD	1.487185	4.648553	68.95241	50.93168	82.91480	1.092845	.2989777
#1	22.66166	.0786887	.0008288	.0019290	.0004338	.8584375	.1544939
#2	23.05285	.0716959	.0003958	.0006174	.0016020	.8596710	.1544770
#3	23.34389	.0754169	.0001914	.0013198	.0004196	.8753831	.1552867

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DLX5 Acquired: 3/21/2024 13:12:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0838846	.0007362	.0127708	z *****	
Stddev	.0014235	.0000428	.0033983	-----	
%RSD	1.696970	5.808699	26.60995	-----	
#1	.0854315	.0006921	.0089363	z 2540.110	
#2	.0826298	.0007775	.0154100	z 2538.972	
#3	.0835926	.0007391	.0139660	z 2552.440	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3827.833	104020.3	15502.68	3866.426	5242.021
Stddev	10.499	312.3	708.07	5.809	15.566
%RSD	.2742760	.3001908	4.567387	.1502469	.2969483
#1	3816.969	104314.5	16300.95	3871.903	5224.293
#2	3837.923	104053.8	14950.46	3867.041	5253.453
#3	3828.607	103692.7	15256.63	3860.334	5248.316

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-08DLX5 Acquired: 3/21/2024 13:16:59 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0182161	-.021519	.0018027	.0004553	.0029345	.7523895	.0260197
Stddev	.0012178	.002734	.0005973	.0006687	.0017653	.0068371	.0004015
%RSD	6.685546	12.70649	33.13397	146.8544	60.15691	.9087142	1.542907
#1	.0191561	-.019771	.0014990	-.000192	.0048764	.7482508	.0261268
#2	.0186518	-.020117	.0024908	.000415	.0025000	.7602811	.0255755
#3	.0168403	-.024670	.0014182	.001143	.0014270	.7486366	.0263567

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021772	-.006650	11.02086	-.022336	.0052770	.0225944	156.6523
Stddev	.0000686	.000486	.07495	.000368	.0000955	.0012128	1.7946
%RSD	3.149885	7.302727	.6801128	1.647121	1.810040	5.367462	1.145570
#1	.0022261	-.006209	10.93930	-.021940	.0052313	.0238993	154.8320
#2	.0020988	-.006571	11.03657	-.022667	.0053868	.0223820	156.7051
#3	.0022068	-.007170	11.08672	-.022401	.0052129	.0215019	158.4199

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.390433	3.371617	.0050879	-.009980	15.30810	.0028245	.7002426
Stddev	.007550	.034149	.0003146	.000614	.17303	.0006961	.0034368
%RSD	.5430141	1.012842	6.182990	6.147612	1.130337	24.64498	.4908069
#1	1.384721	3.368821	.0054505	-.010491	15.13232	.0035752	.6965946
#2	1.387584	3.338953	.0048871	-.010149	15.31373	.0022004	.7007134
#3	1.398993	3.407079	.0049261	-.009300	15.47825	.0026980	.7034198

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	110.1404	.3828113	.0052883	.0091137	.0013340	1.239255	4.077194
Stddev	1.3436	.0095721	.0001668	.0007835	.0003042	.012689	.041653
%RSD	1.219873	2.500486	3.153418	8.597293	22.80361	1.023883	1.021609
#1	108.6271	.3720098	.0054331	.0089319	.0012585	1.227319	4.105268
#2	110.6014	.3861816	.0053257	.0099722	.0010746	1.237865	4.096978
#3	111.1928	.3902423	.0051059	.0084371	.0016688	1.252581	4.029336

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-08DLX5 Acquired: 3/21/2024 13:16:59 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1003258	.0007621	-.105683	z *****
Stddev	.0016365	.0001282	.001517	-----
%RSD	1.631223	16.81604	1.434970	-----
#1	.1011691	.0006887	-.104104	z 2362.865
#2	.1013686	.0006875	-.105817	z 2341.702
#3	.0984396	.0009101	-.107128	z 2354.063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3686.761	102944.1	15624.63	3736.261	5404.040
Stddev	40.841	167.2	105.76	15.482	50.716
%RSD	1.107773	.1624630	.6768942	.4143639	.9384848
#1	3662.605	103030.2	15504.99	3752.896	5373.874
#2	3663.763	103050.8	15705.67	3733.612	5375.653
#3	3733.915	102751.4	15663.22	3722.275	5462.593

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DL2X50 Acquired: 3/21/2024 13:21:19 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009938**	**.0003154**	**.0008681**	**.0059326**	**.0021898**	**.0174677**	**.0006207**
Stddev	.0016342	.0009195	.0005154	.0027952	.0008025	.0109276	.0002736
%RSD	164.4424	291.5378	59.37388	47.11551	36.64712	62.55870	44.07964
#1	.0028058	.0013215	.0002869	.0067663	.0022828	.0051271	.0003152
#2	-.000368	.0001059	.0012696	.0082161	.0013449	.0259169	.0007036
#3	.000544	-.000481	.0010480	.0028154	.0029418	.0213592	.0008431

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001465**	**-.000296**	**2.170621**	**-.001010**	**.0002005**	**.0029856**	**6.710884**
Stddev	.0000726	.000069	.069044	.000225	.0001032	.0002739	.269055
%RSD	49.56275	23.17528	3.180837	22.32111	51.47968	9.174891	4.009231
#1	.0001638	-.000219	2.090906	-.000750	.0003032	.0029003	6.437711
#2	.0002089	-.000349	2.211586	-.001136	.0002016	.0027645	6.975623
#3	.0000668	-.000319	2.209370	-.001144	.0000967	.0032920	6.719319

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2090173**	**.5144796**	**.0002321**	**-.000098**	**3.785753**	**.0020734**	**.0226126**
Stddev	.0047923	.0148543	.0001466	.000163	.157153	.0006600	.0008902
%RSD	2.292766	2.887250	63.17598	166.8641	4.151179	31.83039	3.936716
#1	.2036267	.5003644	.0000628	-.000230	3.627127	.0020318	.0218363
#2	.2106304	.5299765	.0003199	.000085	3.941391	.0014352	.0235842
#3	.2127950	.5130980	.0003137	-.000148	3.788741	.0027532	.0224171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.285864**	**-.000087**	**-.000106**	**.0025470**	**.0002620**	**.1045987**	**.0147783**
Stddev	.061541	.000832	.000049	.0003553	.0002374	.0112272	.0000573
%RSD	2.692229	960.0019	46.27149	13.94863	90.61503	10.73356	.3874199
#1	2.225336	-.000621	-.000056	.0021501	.0000022	.1080862	.0148442
#2	2.348369	.000872	-.000154	.0028352	.0003161	.1136681	.0147408
#3	2.283887	-.000511	-.000107	.0026557	.0004677	.0920416	.0147498

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DL2X50 Acquired: 3/21/2024 13:21:19 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0084209	.0005812	.0010999	z *****
Stddev	.0003276	.0001337	.0001990	-----
%RSD	3.889904	22.99738	18.08717	-----
#1	.0087707	.0007156	.0012013	z 2459.938
#2	.0083704	.0004483	.0008707	z 2461.623
#3	.0081215	.0005795	.0012278	z 2460.353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4010.655	106166.9	15660.89	3957.730	5690.417
Stddev	23.135	3121.5	182.63	126.620	33.330
%RSD	.5768291	2.940218	1.166173	3.199299	.5857129
#1	3984.752	108883.6	15870.85	4062.837	5652.283
#2	4017.948	102757.1	15573.01	3817.160	5704.987
#3	4029.264	106860.2	15538.82	3993.193	5713.981

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DL3X125 Acquired: 3/21/2024 13:25:44 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014474	-.000255	-.000625	.0050302	.0032192	.0331984	-.000043
Stddev	.0014322	.002042	.001357	.0019929	.0009792	.0054368	.000198
%RSD	98.94783	801.0646	217.1077	39.61837	30.41607	16.37676	456.0367
#1	-.000206	.002049	-.000081	.0070316	.0032799	.0383931	-.000271
#2	.002249	-.001840	.000375	.0050130	.0022111	.0275481	.000062
#3	.002299	-.000974	-.002169	.0030460	.0041666	.0336540	.000079

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001080	-.000290	.4535123	-.000928	.0002749	.0010649	6.034128
Stddev	.0000911	.000067	.0176579	.000201	.0001150	.0001830	.035387
%RSD	84.33324	23.27292	3.893591	21.66016	41.81390	17.18717	.5864443
#1	.0002129	-.000212	.4362873	-.000940	.0002446	.0010157	6.009011
#2	.0000635	-.000334	.4526761	-.001123	.0001782	.0009114	6.018773
#3	.0000478	-.000323	.4715734	-.000721	.0004020	.0012674	6.074598

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565643	.1354380	-.000274	-.000091	.5909150	.0001950	.0286633
Stddev	.0008954	.0034013	.000135	.000151	.0047701	.0013024	.0004050
%RSD	1.582918	2.511309	49.14012	166.1260	.8072439	667.9641	1.412962
#1	.0559306	.1393655	-.000201	-.000264	.5861672	.0012075	.0283473
#2	.0561736	.1334683	-.000192	.000006	.5908708	.0006517	.0291199
#3	.0575886	.1334803	-.000430	-.000014	.5957071	-.001274	.0285229

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.174851	.0051842	-.000156	.0022416	-.000131	.0591945	.1627453
Stddev	.046110	.0003695	.000241	.0002812	.000352	.0067676	.0024945
%RSD	1.104461	7.127208	154.0786	12.54524	269.2446	11.43279	1.532746
#1	4.154130	.0047935	-.000178	.0020816	.000244	.0653754	.1626473
#2	4.142737	.0052310	-.000386	.0020769	-.000453	.0602449	.1603013
#3	4.227686	.0055280	.000095	.0025663	-.000183	.0519631	.1652873

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1772-06DL3X125 Acquired: 3/21/2024 13:25:44 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0042670	.0005543	-.004137	z *****	
Stddev	.0002575	.0001398	.000020	-----	
%RSD	6.034840	25.21628	.4847932	-----	
#1	.0041930	.0007152	-.004114	z 2450.010	
#2	.0040546	.0004634	-.004144	z 2437.350	
#3	.0045534	.0004842	-.004153	z 2420.722	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3982.601	108212.3	15368.69	4023.831	5687.826
Stddev	34.957	130.9	11.06	16.380	54.943
%RSD	.8777352	.1209427	.0719466	.4070714	.9659698
#1	3985.917	108102.4	15380.22	4011.175	5704.519
#2	4015.781	108177.5	15358.18	4017.986	5732.486
#3	3946.104	108357.1	15367.66	4042.331	5626.473

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159589TB Acquired: 3/21/2024 13:30:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000979**	**.0005478**	**-.000475**	**.0001916**	**.0016130**	**.0197649**	**-.001079**
Stddev	.001247	.0011281	.001490	.0014179	.0016024	.0042192	.000646
%RSD	127.2648	205.9471	313.6139	740.1121	99.34542	21.34682	59.85990
#1	-.001499	.0003876	-.002106	.0017251	.0034456	.0206159	-.000378
#2	.000443	.0017474	.000814	-.000078	.0004755	.0234937	-.001208
#3	-.001882	-.000492	-.000133	-.001072	.0009179	.0151851	-.001650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000497**	**-.000018**	**.0574796**	**.0052806**	**.0001546**	**.0004485**	**.0561050**
Stddev	.0000191	.000033	.0054659	.0004667	.0000417	.0001930	.0035756
%RSD	38.51242	181.9769	9.509375	8.837513	26.96873	43.02969	6.373084
#1	.0000282	-.000056	.0582153	.0058004	.0001724	.0002568	.0600914
#2	.0000560	.000003	.0625404	.0048978	.0001846	.0006428	.0531809
#3	.0000648	-.000001	.0516831	.0051435	.0001070	.0004459	.0550426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009251**	**.0619218**	**.0027755**	**.0006356**	**297.4802**	**.0010300**	**.0028754**
Stddev	.0002060	.0096568	.0001349	.0004645	7.2506	.0010175	.0003303
%RSD	22.26622	15.59507	4.859632	73.07834	2.437332	98.78183	11.48649
#1	.0008162	.0534276	.0029209	.0006774	304.4309	-.000064	.0031781
#2	.0011627	.0599129	.0026544	.0010778	298.0466	.001948	.0029249
#3	.0007965	.0724250	.0027511	.0001516	289.9630	.001206	.0025231

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0462494**	**-.007378**	**.0002905**	**.0024875**	**.0007354**	**.0210489**	**.0001217**
Stddev	.0192780	.000403	.0001197	.0004827	.0006393	.0062901	.0001211
%RSD	41.68270	5.468866	41.21066	19.40556	86.93103	29.88316	99.46630
#1	.0299867	-.006978	.0003955	.0020553	.0000094	.0178219	.0002590
#2	.0675445	-.007369	.0001601	.0023988	.0009826	.0282976	.0000303
#3	.0412169	-.007785	.0003159	.0030085	.0012141	.0170273	.0000758

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159589TB Acquired: 3/21/2024 13:30:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0004071	.0008123	-.000116	z *****
Stddev	.0001733	.0000221	.000052	-----
%RSD	42.56753	2.723016	45.29291	-----
#1	.0002963	.0008374	-.000095	z 2506.786
#2	.0006068	.0007956	-.000077	z 2529.286
#3	.0003182	.0008039	-.000175	z 2514.691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3809.668	97199.72	15037.69	3729.460	4899.186
Stddev	1.808	2649.12	615.53	104.549	5.219
%RSD	.0474564	2.725436	4.093272	2.803318	.1065292
#1	3808.952	94751.41	14469.71	3631.687	4902.628
#2	3811.724	96835.76	14951.64	3717.023	4901.748
#3	3808.327	100012.0	15691.72	3839.671	4893.181

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV02 Acquired: 3/21/2024 13:34:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.042274**	**5.450472**	**5.138980**	**5.114014**	**5.149138**	**10.25381**	**10.14237**
Stddev	.110616	.088789	.122694	.115585	.123953	.02196	.03637
%RSD	2.193771	1.629014	2.387526	2.260158	2.407263	.2141935	.3585540
#1	4.934440	5.427771	5.027843	5.003928	5.027024	10.23489	10.11329
#2	5.155476	5.548408	5.270643	5.234407	5.274852	10.24864	10.13069
#3	5.036906	5.375238	5.118455	5.103706	5.145537	10.27789	10.18315

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2509011**	**2.548357**	**25.58063**	**1.029023**	**2.534262**	**1.262782**	**5.123365**
Stddev	.0015331	.059895	.08020	.002948	.060476	.031075	.038784
%RSD	.6110414	2.350357	.3135126	.2864880	2.386339	2.460845	.7570030
#1	.2526713	2.494360	25.48997	1.030973	2.477702	1.232985	5.079658
#2	.2500019	2.612781	25.64234	1.030466	2.598011	1.294994	5.136762
#3	.2500302	2.537929	25.60956	1.025632	2.527073	1.260366	5.153674

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.521522**	**25.33393**	**2.559262**	**1.289763**	**25.16046**	**2.540788**	**2.584706**
Stddev	.009159	.09873	.060318	.001563	.24675	.008117	.011746
%RSD	.3632211	.3897052	2.356843	.1211736	.9806907	.3194520	.4544258
#1	2.512042	25.21994	2.503378	1.291329	24.87734	2.532493	2.598146
#2	2.522202	25.39211	2.623203	1.289756	25.27439	2.541157	2.576414
#3	2.530321	25.38975	2.551204	1.288203	25.32966	2.548713	2.579556

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.38953**	**5.213221**	**5.109450**	**5.104950**	**5.114641**	**5.396514**	**4.727051**
Stddev	.23098	.041921	.122866	.120965	.015628	.063601	.108107
%RSD	.9097594	.8041337	2.404675	2.369558	.3055563	1.178560	2.286987
#1	25.12774	5.258989	4.993915	4.988888	5.097622	5.323660	4.626482
#2	25.47625	5.203986	5.238525	5.230284	5.117952	5.424920	4.841379
#3	25.56461	5.176687	5.095909	5.095679	5.128348	5.440962	4.713293

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV02 Acquired: 3/21/2024 13:34:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	4.634887	4.758452	5.085093	z *****
Stddev	.109712	.040914	.008653	-----
%RSD	2.367090	.8598140	.1701728	-----
#1	4.536796	4.711256	5.089880	z 23942.00
#2	4.753361	4.780226	5.090294	z 23899.10
#3	4.614503	4.783875	5.075103	z 23903.24

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3724.585	100125.5	14474.69	3824.018	4789.996
Stddev	77.206	273.6	59.73	17.995	93.964
%RSD	2.072874	.2732672	.4126532	.4705655	1.961672
#1	3798.826	100289.9	14423.11	3803.254	4876.772
#2	3644.721	99809.7	14460.82	3835.060	4690.202
#3	3730.208	100276.9	14540.13	3833.742	4803.015

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB02 Acquired: 3/21/2024 13:39:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000510**	**.0007964**	**-.000322**	**-.002212**	**.0028808**	**-.000402**	**.0000601**
Stddev	.001161	.0007299	.001036	.002765	.0008514	.007834	.0001512
%RSD	227.5309	91.64568	322.1079	124.9798	29.55349	1950.387	251.5585
#1	.000241	.0002108	-.000186	-.001123	.0019299	.008633	.0002150
#2	.000075	.0005643	.000640	-.000158	.0035722	-.004529	-.000087
#3	-.001848	.0016141	-.001418	-.005355	.0031403	-.005308	.000052

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000268**	**.0000261**	**.0103187**	**.0001936**	**-.000095**	**-.000227**	**-.004006**
Stddev	.0000371	.0001280	.0047583	.0001652	.000041	.000126	.003259
%RSD	138.7350	489.8350	46.11295	85.30996	42.88355	55.67114	81.35553
#1	.0000444	.0001611	.0157841	.0000104	-.000049	-.000083	-.000383
#2	.0000518	.0000106	.0070978	.0003310	-.000109	-.000320	-.006699
#3	-.000016	-.000093	.0080742	.0002394	-.000126	-.000277	-.004936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000122**	**-.018893**	**.0001140**	**.0007111**	**.0418588**	**.0008871**	**-.000093**
Stddev	.000089	.015822	.0003110	.0001627	.0066334	.0013035	.000194
%RSD	73.52222	83.74560	272.7583	22.87232	15.84710	146.9402	207.7526
#1	-.000034	-.022175	.0003571	.0005240	.0342531	.0023821	.000129
#2	-.000212	-.032817	-.000236	.0008183	.0464477	-.000011	-.000183
#3	-.000119	-.001688	.000221	.0007911	.0448755	.000290	-.000226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0406856**	**.0023079**	**.0003430**	**.0023973**	**.0000814**	**.0261619**	**.0001679**
Stddev	.0102705	.0008741	.0001682	.0003267	.0009426	.0004435	.0000157
%RSD	25.24360	37.87404	49.02886	13.62544	1158.499	1.695353	9.343819
#1	.0437593	.0016920	.0003007	.0023012	-.000228	.0256563	.0001603
#2	.0292292	.0033083	.0005283	.0027613	-.000667	.0263441	.0001859
#3	.0490684	.0019233	.0002000	.0021296	.001140	.0264854	.0001574

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB02 Acquired: 3/21/2024 13:39:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0000900	.0026326	.0001206	z *****	
Stddev	.0002112	.0001466	.0000306	-----	
%RSD	234.5439	5.570565	25.40611	-----	
#1	-.000107	.0027891	.0000963	z 2506.799	
#2	.000313	.0024984	.0001550	z 2517.700	
#3	.000064	.0026102	.0001106	z 2528.099	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4028.921	106911.7	14704.44	4024.477	5699.532
Stddev	8.707	108.5	48.63	15.076	5.007
%RSD	.2161229	.1014800	.3306862	.3746086	.0878476
#1	4038.773	107000.6	14674.89	4026.670	5698.064
#2	4022.256	106790.8	14760.57	4008.425	5695.422
#3	4025.734	106943.7	14677.87	4038.337	5705.108

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03 Acquired: 3/21/2024 13:43:41 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041566**	**-.002810**	**.0017429**	**-.007719**	**.0005588**	**.4024195**
Stddev	.0014782	.000917	.0009999	.002451	.0013053	.0099123
%RSD	35.56198	32.64384	57.36722	31.75635	233.5985	2.463169
#1	.0037791	-.001751	.0021088	-.004889	.0016626	.4106867
#2	.0057870	-.003352	.0025082	-.009093	.0008956	.3914307
#3	.0029039	-.003327	.0006116	-.009175	-.000882	.4051409

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4052846**	**.0004354**	**-.000764**	F **182.8510**	**.0182616**	**.0016201**
Stddev	.0026133	.0000590	.000076	1.0017	.0002073	.0000574
%RSD	.6447978	13.56244	9.893698	.5478427	1.135223	3.545055
#1	.4023046	.0005030	-.000678	181.8277	.0182482	.0016036
#2	.4063642	.0004098	-.000819	182.8954	.0184753	.0015727
#3	.4071852	.0003936	-.000796	183.8297	.0180613	.0016839

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045962**	F **26.99959**	**1.460614**	**48.88787**	**.0351183**	**-.001899**
Stddev	.0002373	.20338	.008389	.19587	.0001718	.000140
%RSD	5.163964	.7532555	.5743214	.4006552	.4892060	7.350519
#1	.0048698	26.76494	1.451463	48.67930	.0351194	-.002029
#2	.0044465	27.12518	1.462440	48.91637	.0349460	-.001751
#3	.0044722	27.10864	1.467939	49.06792	.0352896	-.001917

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **113.3660**	**.0042609**	**.0514785**	**12.32397**	**.0814945**	**.0074033**
Stddev	1.0458	.0007054	.0001498	.11064	.0007688	.0000576
%RSD	.9225294	16.55602	.2909643	.8977998	.9433979	.7775558
#1	112.1584	.0034702	.0515819	12.19705	.0812171	.0073391
#2	113.9594	.0048257	.0513067	12.40013	.0823636	.0074204
#3	113.9801	.0044868	.0515468	12.37473	.0809030	.0074504

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03 Acquired: 3/21/2024 13:43:41 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009975**	**.0444400**	F **23.47486**	**.0588700**	**1.793388**	**.0016046**
Stddev	.0002534	.0004863	.08170	.0000926	.002594	.0000508
%RSD	25.40551	1.094267	.3480376	.1572155	.1446665	3.164712
#1	.0012210	.0439591	23.38349	.0589623	1.792844	.0016445
#2	.0007221	.0449315	23.54089	.0587772	1.796212	.0015474
#3	.0010494	.0444293	23.50019	.0588707	1.791110	.0016218

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.4493817**	z *****
Stddev	.0036083	-----
%RSD	.8029526	-----
#1	.4454967	z 2980.080
#2	.4500204	z 2978.304
#3	.4526281	z 2968.819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3688.762**	**99728.01**	**14916.95**	**3761.089**	**4825.146**
Stddev	14.988	187.44	44.63	14.871	8.838
%RSD	.4063267	.1879553	.2992012	.3953963	.1831742
#1	3699.191	99939.66	14907.28	3766.907	4830.315
#2	3695.508	99661.38	14965.63	3772.171	4830.182
#3	3671.585	99582.98	14877.95	3744.188	4814.941

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03DUP Acquired: 3/21/2024 13:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015362	-.001528	.0034123	-.010140	-.000261	.4136126
Stddev	.0016397	.001823	.0007856	.001165	.001093	.0087208
%RSD	106.7383	119.3006	23.02199	11.48549	418.2315	2.108452
#1	.0030608	-.001343	.0041314	-.011375	-.000854	.4205105
#2	.0017463	-.003436	.0025739	-.009983	.001000	.4038101
#3	-.000198	.000195	.0035316	-.009062	-.000930	.4165171

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4070780	.0004730	-.000717	F 184.3681	.0185001	.0015428
Stddev	.0007264	.0000247	.000091	.3729	.0000833	.0002089
%RSD	.1784503	5.226653	12.64603	.2022320	.4503073	13.53896
#1	.4062889	.0004459	-.000807	184.7413	.0185908	.0016419
#2	.4077189	.0004786	-.000717	183.9956	.0184825	.0016837
#3	.4072261	.0004944	-.000626	184.3673	.0184270	.0013028

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042981	F 26.89860	1.468781	49.46765	.0350770	-.001521
Stddev	.0001489	.09430	.002284	.23678	.0003589	.000086
%RSD	3.464780	.3505596	.1555362	.4786562	1.023077	5.657401
#1	.0044519	26.78976	1.469706	49.56633	.0347270	-.001588
#2	.0042877	26.95563	1.466178	49.19749	.0354441	-.001550
#3	.0041547	26.95042	1.470457	49.63913	.0350599	-.001424

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 112.7701	.0036488	.0512228	12.33049	.0792443	.0071905
Stddev	.7491	.0006029	.0004878	.11544	.0004766	.0003564
%RSD	.6642846	16.52322	.9523599	.9361843	.6013877	4.957146
#1	111.9054	.0036797	.0509595	12.19867	.0787113	.0070914
#2	113.2220	.0030311	.0517857	12.41351	.0796294	.0075860
#3	113.1829	.0042357	.0509233	12.37929	.0793922	.0068941

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03DUP Acquired: 3/21/2024 13:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007739	.0444234	F 23.55728	.0589956	1.788483	.0017073
Stddev	.0006071	.0004113	.05809	.0003002	.000759	.0002050
%RSD	78.45472	.9258757	.2465730	.5088101	.0424571	12.00790
#1	.0013580	.0445284	23.51333	.0586490	1.788616	.0019410
#2	.0008177	.0439698	23.62313	.0591685	1.787666	.0016231
#3	.0001460	.0447720	23.53538	.0591693	1.789167	.0015578

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.4515662	z *****
Stddev	.0004080	-----
%RSD	.0903513	-----
#1	.4515696	z 2985.408
#2	.4511564	z 2980.792
#3	.4519724	z 2976.405

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3656.759	98607.27	14609.16	3696.970	4810.670
Stddev	11.548	91.18	57.02	6.289	4.807
%RSD	.3158111	.0924708	.3903009	.1701205	.0999141
#1	3668.770	98704.81	14543.85	3693.850	4811.496
#2	3655.773	98592.85	14649.05	3692.851	4815.010
#3	3645.736	98524.16	14634.57	3704.209	4805.503

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03LX5 Acquired: 3/21/2024 13:52:26 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000488**	**.0012667**	**-.000569**	**-.001729**	**-.001841**	**.0781425**	**.0771653**
Stddev	.001552	.0008557	.001695	.002575	.002323	.0085941	.0002981
%RSD	317.7306	67.55687	297.7306	148.9337	126.2219	10.99792	.3863200
#1	-.001966	.0009977	-.000785	.000546	-.004425	.0686693	.0768519
#2	.001128	.0005778	.001223	-.004525	-.001171	.0803196	.0774453
#3	-.000627	.0022246	-.002146	-.001208	.000074	.0854387	.0771987

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001548**	**-.000249**	**35.13068**	**.0030902**	**.0002038**	**.0007097**	**4.969900**
Stddev	.0001086	.000069	.26898	.0002708	.0001511	.0005374	.008548
%RSD	70.13872	27.57598	.7656443	8.763677	74.13879	75.71888	.1720029
#1	.0002668	-.000295	34.82023	.0029372	.0001413	.0009744	4.965415
#2	.0001476	-.000283	35.27784	.0029305	.0000940	.0000913	4.964527
#3	.0000500	-.000170	35.29396	.0034029	.0003762	.0010635	4.979757

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2836604**	**9.363989**	**.0067394**	**-.000034**	**19.93990**	**.0013698**	**.0108535**
Stddev	.0016051	.077145	.0001300	.000143	.06741	.0012942	.0002498
%RSD	.5658427	.8238490	1.929124	417.3916	.3380753	94.48398	2.301729
#1	.2818070	9.276244	.0066335	.000017	19.94508	-.000122	.0111332
#2	.2845875	9.394554	.0068845	-.000195	19.87005	.002189	.0107750
#3	.2845867	9.421168	.0067003	.000076	20.00458	.002043	.0106524

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.177442**	**.0099653**	**.0013261**	**-.000700**	**.0086369**	**4.224957**	**.0106009**
Stddev	.018408	.0007283	.0001231	.000276	.0005037	.028904	.0002031
%RSD	.8453975	7.308176	9.282269	39.35769	5.832454	.6841157	1.915595
#1	2.190819	.0091305	.0014655	-.000984	.0090003	4.243369	.0104562
#2	2.156448	.0102947	.0012324	-.000684	.0080619	4.191643	.0105134
#3	2.185060	.0104706	.0012803	-.000433	.0088486	4.239858	.0108330

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03LX5 Acquired: 3/21/2024 13:52:26 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3196259	.0018671	.0864428	z *****
Stddev	.0045599	.0001634	.0004229	-----
%RSD	1.426635	8.753099	.4891964	-----
#1	.3170235	.0020555	.0859563	z 2675.380
#2	.3169631	.0017634	.0867227	z 2676.259
#3	.3248911	.0017825	.0866494	z 2675.510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3822.292	103315.5	14642.53	3878.779	5217.042
Stddev	49.411	321.0	100.84	15.819	66.962
%RSD	1.292699	.3106966	.6887121	.4078218	1.283519
#1	3850.081	102967.5	14713.91	3867.778	5255.296
#2	3851.552	103379.1	14527.16	3871.653	5256.106
#3	3765.244	103600.0	14686.50	3896.907	5139.722

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03MS Acquired: 3/21/2024 13:56:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8635633	2.135137	1.039354	2.071689	.8579333	2.504049
Stddev	.0031823	.080700	.001416	.013018	.0039138	.033675
%RSD	.3685072	3.779630	.1362520	.6283878	.4561926	1.344832
#1	.8614188	2.043668	1.037803	2.056744	.8538559	2.542926
#2	.8672197	2.165461	1.040579	2.080559	.8582842	2.483957
#3	.8620513	2.196283	1.039678	2.077764	.8616599	2.485262

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6057858	.2017464	.2044221	F 183.4170	.4370824	.2001339
Stddev	.0017410	.0018535	.0003357	1.0820	.0010479	.0001063
%RSD	.2873867	.9187136	.1642094	.5899328	.2397426	.0531180
#1	.6075695	.2036558	.2040453	184.5489	.4374198	.2002529
#2	.6056968	.2016289	.2046894	183.3091	.4359074	.2000483
#3	.6040910	.1999544	.2045314	182.3930	.4379200	.2001005

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3080148	F 30.16139	1.647865	F 50.55788	.5381071	.0817627
Stddev	.0011554	.11455	.011826	.38324	.0003057	.0001030
%RSD	.3750942	.3797855	.7176327	.7580289	.0568158	.1260084
#1	.3066824	30.06317	1.660337	50.98167	.5383255	.0817077
#2	.3086226	30.13378	1.646444	50.45632	.5377577	.0818815
#3	.3087392	30.28722	1.636814	50.23564	.5382381	.0816989

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 115.9813	.3122129	.2689741	23.28097	.3833197	.4319523
Stddev	.7333	.0018698	.0009555	.12968	.0022931	.0018452
%RSD	.6322345	.5989011	.3552475	.5570279	.5982085	.4271666
#1	115.2245	.3125267	.2679642	23.15443	.3856389	.4299677
#2	116.0311	.3139060	.2698639	23.27491	.3810538	.4336159
#3	116.6885	.3102060	.2690941	23.41358	.3832664	.4322733

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03MS Acquired: 3/21/2024 13:56:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7206130	.2553531	F 24.76275	.7222587	1.763188	.0239451
Stddev	.0028613	.0010437	.15042	.0015626	.008538	.0000465
%RSD	.3970585	.4087429	.6074629	.2163476	.4842546	.1942806
#1	.7176433	.2564396	24.60227	.7237998	1.753333	.0238941
#2	.7233518	.2543581	24.78545	.7223008	1.767856	.0239562
#3	.7208440	.2552615	24.90054	.7206754	1.768375	.0239851

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6515128	z *****
Stddev	.0028961	-----
%RSD	.4445181	-----
#1	.6543960	z 12407.98
#2	.6515385	z 12367.91
#3	.6486040	z 12360.34

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.104	98607.72	14967.65	3715.582	4792.609
Stddev	13.638	202.15	120.24	11.047	9.725
%RSD	.3706858	.2050003	.8033188	.2973129	.2029177
#1	3694.770	98775.67	14848.67	3728.244	4803.766
#2	3669.882	98664.13	14965.18	3707.909	4785.930
#3	3672.661	98383.36	15089.11	3710.595	4788.130

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03MSD Acquired: 3/21/2024 14:00:53 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8608708**	**2.131662**	**1.034559**	**2.073221**	**.8562749**	**2.527494**
Stddev	.0032379	.046562	.002382	.009175	.0024111	.011910
%RSD	.3761148	2.184297	.2302522	.4425323	.2815759	.4711989
#1	.8634746	2.123977	1.037195	2.062964	.8584950	2.513834
#2	.8572453	2.181588	1.032559	2.080645	.8566197	2.535704
#3	.8618924	2.089421	1.033924	2.076054	.8537100	2.532942

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6031950**	**.2055174**	**.2034575**	F **183.4137**	**.4353264**	**.1994746**
Stddev	.0014568	.0012118	.0004903	.4889	.0018050	.0002841
%RSD	.2415092	.5896261	.2409811	.2665527	.4146291	.1424156
#1	.6025819	.2063589	.2039236	183.6697	.4335074	.1991504
#2	.6048581	.2060647	.2035029	183.7215	.4371171	.1995935
#3	.6021449	.2041285	.2029461	182.8500	.4353546	.1996799

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3058763**	F **29.45618**	**1.649527**	F **50.86906**	**.5349063**	**.0809261**
Stddev	.0005526	.14932	.006629	.05305	.0015648	.0004942
%RSD	.1806561	.5069113	.4018883	.1042938	.2925359	.6106394
#1	.3055474	29.28919	1.652712	50.91199	.5366577	.0806214
#2	.3055672	29.50250	1.653962	50.88545	.5336458	.0814963
#3	.3065142	29.57684	1.641906	50.80975	.5344153	.0806606

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **113.6736**	**.3111133**	**.2708054**	**22.78994**	**.3869852**	**.4308360**
Stddev	.6918	.0014092	.0020232	.09080	.0006244	.0007642
%RSD	.6085627	.4529508	.7470919	.3984161	.1613499	.1773762
#1	112.8750	.3126834	.2691278	22.68558	.3877001	.4316570
#2	114.0879	.3106982	.2702362	22.83345	.3867088	.4307055
#3	114.0580	.3099583	.2730522	22.85080	.3865466	.4301454

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03MSD Acquired: 3/21/2024 14:00:53 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7152449	.2558707	F 24.30619	.7167167	1.753935	.0242298
Stddev	.0026551	.0013408	.12177	.0052845	.003711	.0000951
%RSD	.3712177	.5240312	.5009843	.7373275	.2115761	.3925368
#1	.7181905	.2563950	24.16580	.7227470	1.756996	.0241520
#2	.7130359	.2568703	24.38311	.7145093	1.755001	.0243358
#3	.7145083	.2543470	24.36967	.7128937	1.749808	.0242015

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6496525	z *****
Stddev	.0016849	-----
%RSD	.2593562	-----
#1	.6502882	z 12331.77
#2	.6509270	z 12302.26
#3	.6477422	z 12330.81

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.476	98551.40	14570.84	3681.072	4780.147
Stddev	5.016	330.15	65.31	16.723	4.664
%RSD	.1367807	.3350067	.4482290	.4542969	.0975695
#1	3672.787	98932.03	14542.35	3700.160	4785.510
#2	3666.824	98342.58	14524.63	3674.062	4777.038
#3	3662.818	98379.59	14645.56	3668.996	4777.893

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03A Acquired: 3/21/2024 14:04:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8593511**	**2.151379**	**1.035103**	**2.085984**	**.8570370**	**2.517742**
Stddev	.0057264	.047769	.004238	.004941	.0027359	.025485
%RSD	.6663654	2.220386	.4094224	.2368818	.3192243	1.012208
#1	.8624579	2.096466	1.035350	2.091343	.8552433	2.545691
#2	.8527427	2.174325	1.030746	2.081608	.8601859	2.495791
#3	.8628527	2.183344	1.039212	2.085002	.8556816	2.511744

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6103283**	**.2050051**	**.2041552**	F **184.0458**	**.4347576**	**.2002786**
Stddev	.0059673	.0034815	.0002345	1.2956	.0007543	.0004550
%RSD	.9777253	1.698264	.1148780	.7039657	.1734939	.2271570
#1	.6170869	.2089945	.2041269	185.5236	.4346000	.1997670
#2	.6081106	.2034400	.2039361	183.5084	.4355782	.2004311
#3	.6057873	.2025807	.2044026	183.1053	.4340945	.2006377

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3077444**	F **29.95704**	**1.660303**	F **50.90274**	**.5375090**	**.0814785**
Stddev	.0002081	.17783	.016363	.40039	.0004411	.0005265
%RSD	.0676331	.5936179	.9855151	.7865836	.0820652	.6462402
#1	.3079166	29.75661	1.679104	51.35262	.5370656	.0808784
#2	.3078036	30.09591	1.649286	50.77007	.5379478	.0816944
#3	.3075131	30.01860	1.652518	50.58551	.5375135	.0818628

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **116.1276**	**.3124794**	**.2710151**	**23.16391**	**.3897015**	**.4326577**
Stddev	.7865	.0010018	.0017278	.24793	.0045764	.0007336
%RSD	.6772913	.3205971	.6375167	1.070348	1.174329	.1695555
#1	115.2476	.3127129	.2690693	22.88082	.3949236	.4319195
#2	116.7621	.3133439	.2716063	23.34241	.3863899	.4333866
#3	116.3731	.3113815	.2723696	23.26850	.3877909	.4326669

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1747-03A Acquired: 3/21/2024 14:04:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7188826	.2570231	F 24.57960	.7168669	1.763631	.0243701
Stddev	.0020728	.0030790	.23000	.0030198	.005622	.0001527
%RSD	.2883359	1.197965	.9357394	.4212445	.3187701	.6264184
#1	.7166843	.2605735	24.31538	.7203185	1.757922	.0245294
#2	.7191621	.2554117	24.73493	.7155701	1.763809	.0242251
#3	.7208015	.2550842	24.68850	.7147122	1.769162	.0243558

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6558401	z *****
Stddev	.0056797	-----
%RSD	.8660186	-----
#1	.6623133	z 12280.35
#2	.6535160	z 12263.89
#3	.6516912	z 12248.75

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3653.280	97663.81	14601.37	3654.432	4753.568
Stddev	2.503	113.94	218.31	10.133	8.530
%RSD	.0685046	.1166650	1.495135	.2772789	.1794541
#1	3651.614	97794.74	14349.30	3662.190	4760.633
#2	3656.158	97587.14	14729.89	3658.137	4755.981
#3	3652.068	97609.56	14724.91	3642.968	4744.091

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04 Acquired: 3/21/2024 14:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000373**	**.0038223**	**-.001779**	**.0020230**	**.0021630**	**19.88128**
Stddev	.001544	.0010506	.001123	.0044191	.0008362	.11437
%RSD	414.2395	27.48608	63.11232	218.4423	38.65930	.5752443
#1	-.001939	.0030828	-.000697	.0047478	.0031279	19.79480
#2	-.000328	.0050248	-.002939	-.003076	.0016478	19.83808
#3	.001149	.0033591	-.001702	.004397	.0017134	20.01095

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007907**	**-.000007**	**-.000115**	**11.75523**	**.1601876**	**.0005259**
Stddev	.0002221	.000057	.000082	.11039	.0006083	.0000898
%RSD	28.09558	766.6521	71.63621	.9390344	.3797511	17.06992
#1	.0008969	-.000046	-.000209	11.63934	.1599110	.0004982
#2	.0005353	.000058	-.000056	11.76722	.1597667	.0004532
#3	.0009397	-.000034	-.000080	11.85914	.1608851	.0006262

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0183437**	**.2870103**	**.0118666**	**2.257913**	**.0600945**	**.0003085**
Stddev	.0001502	.0011673	.0000573	.016879	.0004827	.0002286
%RSD	.8188726	.4067102	.4824281	.7475453	.8032232	74.12152
#1	.0185165	.2878008	.0118430	2.257370	.0595390	.0000810
#2	.0182704	.2856695	.0118249	2.241313	.0604118	.0003061
#3	.0182442	.2875605	.0119319	2.275058	.0603328	.0005383

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2083.366**	**.0023142**	**.1496224**	**206.7924**	**4.562146**	**.0165634**
Stddev	3.194	.0008491	.0005797	.7421	.006025	.0001427
%RSD	.1533201	36.69187	.3874400	.3588544	.1320552	.8617261
#1	2081.180	.0016962	.1491953	205.9505	4.556601	.0167182
#2	2081.885	.0032825	.1502823	207.0749	4.568556	.0165350
#3	2087.032	.0019641	.1493895	207.3517	4.561282	.0164370

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04 Acquired: 3/21/2024 14:09:02 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001071	-.000224	.4656553	.0323416	F 110.3642	.0045175
Stddev	.000371	.000591	.0053853	.0001122	.3436	.0005130
%RSD	34.63311	263.5903	1.156501	.3469427	.3113171	11.35501
#1	-.000652	.000446	.4660750	.0322127	110.6370	.0039802
#2	-.001357	-.000450	.4708184	.0323944	110.4773	.0045704
#3	-.001204	-.000669	.4600723	.0324176	109.9783	.0050020

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0485371	z *****
Stddev	.0001981	-----
%RSD	.4080549	-----
#1	.0483198	z 2383.963
#2	.0485839	z 2381.487
#3	.0487075	z 2397.305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3260.899	85215.30	14626.62	3262.226	3938.098
Stddev	8.069	298.43	22.39	10.275	13.335
%RSD	.2474530	.3502090	.1530742	.3149556	.3386096
#1	3252.310	84886.55	14600.77	3250.449	3922.791
#2	3268.321	85290.20	14639.78	3269.361	3944.306
#3	3262.065	85469.14	14639.31	3266.866	3947.196

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04DUP Acquired: 3/21/2024 14:13:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002438	.0012641	-.002495	-.000923	.0016655	19.87818
Stddev	.002413	.0009994	.001182	.004387	.0012954	.13784
%RSD	98.97449	79.06193	47.38534	475.4189	77.77755	.6934482
#1	-.003923	.0001775	-.003506	.003606	.0031287	19.89581
#2	-.003737	.0014708	-.001195	-.001222	.0006650	19.73237
#3	.000346	.0021440	-.002784	-.005152	.0012028	20.00636

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008879	-.000008	-.000096	11.65219	.1591456	.0003331
Stddev	.0007081	.000056	.000093	.06136	.0007972	.0001394
%RSD	79.75259	730.0576	97.33272	.5265945	.5009025	41.86182
#1	.0010815	.000055	-.000037	11.63680	.1585011	.0002721
#2	.0001031	-.000050	-.000203	11.60000	.1600370	.0002346
#3	.0014791	-.000028	-.000047	11.71978	.1588986	.0004927

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183760	.2778254	.0111353	2.246580	.0600553	.0004573
Stddev	.0008653	.0029340	.0002273	.012709	.0001782	.0002128
%RSD	4.708874	1.056061	2.041268	.5657057	.2967010	46.52877
#1	.0181328	.2812085	.0111217	2.234677	.0599511	.0003975
#2	.0176584	.2759783	.0109152	2.245098	.0599537	.0006936
#3	.0193369	.2762893	.0113691	2.259965	.0602610	.0002808

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2051.733	.0032391	.1445264	203.3128	4.588489	.0162529
Stddev	11.299	.0012897	.0005114	.7141	.031695	.0001335
%RSD	.5506932	39.81774	.3538600	.3512228	.6907407	.8211819
#1	2040.094	.0034749	.1439436	202.6672	4.600658	.0161097
#2	2052.447	.0018477	.1449001	204.0798	4.552513	.0163738
#3	2062.658	.0043946	.1447355	203.1914	4.612295	.0162754

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04DUP Acquired: 3/21/2024 14:13:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000455	-.000461	.4563032	.0317071	F 109.9959	.0071865
Stddev	.0002359	.000808	.0101877	.0003606	.4209	.0002862
%RSD	518.8855	175.1479	2.232651	1.137240	.3826156	3.982666
#1	-.000032	-.000712	.4649463	.0313862	109.5624	.0068564
#2	-.000142	.000442	.4450708	.0316377	110.4029	.0073372
#3	.000310	-.001114	.4588927	.0320973	110.0223	.0073659

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0480428	z *****
Stddev	.0002961	-----
%RSD	.6162665	-----
#1	.0480609	z 2387.308
#2	.0477381	z 2395.350
#3	.0483294	z 2392.050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3292.284	86507.01	14612.79	3313.360	3984.109
Stddev	7.574	314.28	95.44	4.304	11.650
%RSD	.2300379	.3632960	.6531366	.1299000	.2924182
#1	3296.285	86341.60	14526.25	3318.329	3994.472
#2	3283.549	86309.99	14715.16	3310.825	3971.499
#3	3297.017	86869.45	14596.97	3310.925	3986.356

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04LX5 Acquired: 3/21/2024 14:18:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000142	.0019280	-.000349	.0005887	-.000905	3.906433
Stddev	.0011288	.0008762	.000790	.0013361	.001289	.032124
%RSD	7976.406	45.44342	226.6342	226.9439	142.3183	.8223467
#1	-.001226	.0027478	-.000840	.0015204	-.001035	3.869451
#2	.000288	.0010047	.000563	.0011880	-.002124	3.922426
#3	.000981	.0020316	-.000768	-.000942	.000443	3.927421

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000398	.0000257	-.000043	2.330728	.0312070	.0000282
Stddev	.000412	.0000696	.000020	.019022	.0002261	.0001259
%RSD	103.4995	270.5823	46.97116	.8161408	.7245733	447.1012
#1	-.000036	.0000870	-.000048	2.311149	.0314188	-.000037
#2	-.000847	.0000401	-.000021	2.331895	.0309688	-.000052
#3	-.000312	-.000050	-.000061	2.349140	.0312333	.000173

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039517	.0440268	.0020636	.4325671	.0112821	.0003802
Stddev	.0001904	.0013424	.0003187	.0060222	.0003616	.0004029
%RSD	4.818738	3.048992	15.44276	1.392206	3.205455	105.9758
#1	.0039917	.0455641	.0024221	.4287505	.0108828	.0002706
#2	.0041188	.0430865	.0018123	.4395095	.0113761	.0000434
#3	.0037444	.0434298	.0019566	.4294412	.0115875	.0008266

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	409.1227	.0005558	.0271755	35.60786	1.011728	.0029573
Stddev	3.6574	.0023228	.0001252	.26318	.001547	.0001098
%RSD	.8939557	417.8935	.4606585	.7391065	.1528707	3.713245
#1	404.9595	.0030170	.0270316	35.32969	1.012353	.0028989
#2	411.8187	-.001598	.0272598	35.64097	1.009966	.0028890
#3	410.5899	.000249	.0272350	35.85292	1.012864	.0030840

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04LX5 Acquired: 3/21/2024 14:18:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000125	.0004574	.0931985	.0054734	F 23.43444	.0057349
Stddev	.0006095	.0007471	.0077985	.0003678	.05013	.0001730
%RSD	4888.886	163.3403	8.367601	6.720147	.2139368	3.016853
#1	.0002226	.0012923	.0876342	.0058886	23.37656	.0058606
#2	.0004891	.0002283	.0898492	.0051883	23.46286	.0055376
#3	-.000674	-.000148	.1021122	.0053432	23.46391	.0058066

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0092659	z *****
Stddev	.0000931	-----
%RSD	1.004889	-----
#1	.0091620	z 2443.066
#2	.0092937	z 2460.036
#3	.0093419	z 2469.143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3685.631	96363.97	14741.44	3685.368	4742.147
Stddev	2.471	58.92	44.30	10.930	4.184
%RSD	.0670442	.0611392	.3005128	.2965865	.0882235
#1	3684.478	96423.09	14697.46	3683.602	4738.842
#2	3683.947	96305.26	14786.05	3675.429	4740.748
#3	3688.467	96363.56	14740.81	3697.074	4746.851

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV03 Acquired: 3/21/2024 14:27:06 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.939400**	**5.319310**	**5.029155**	**5.010760**	**5.049858**	**10.02280**	**9.984831**
Stddev	.006327	.039017	.005427	.010081	.008573	.23394	.207670
%RSD	.1280979	.7334882	.1079055	.2011923	.1697739	2.334125	2.079856
#1	4.938062	5.313254	5.034717	5.008387	5.039982	10.15349	10.21648
#2	4.946289	5.283676	5.028874	5.021816	5.055384	9.75271	9.81534
#3	4.933848	5.361001	5.023874	5.002077	5.054208	10.16219	9.92267

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2420163**	**2.494590**	**25.05656**	**1.026187**	**2.482569**	**1.237183**	**5.211732**
Stddev	.0038702	.003121	.48644	.001548	.004798	.005738	.034404
%RSD	1.599148	.1251113	1.941367	.1508767	.1932863	.4637932	.6601195
#1	.2455528	2.497765	25.36612	1.026558	2.487560	1.242820	5.226728
#2	.2378820	2.494480	24.49588	1.024487	2.482155	1.237379	5.172376
#3	.2426143	2.491526	25.30768	1.027516	2.477990	1.231349	5.236093

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.473866**	**24.65837**	**2.508267**	**1.288657**	**26.26416**	**2.497761**	**2.593063**
Stddev	.046855	.56635	.001831	.000337	.15431	.052027	.008504
%RSD	1.893983	2.296789	.0730164	.0261827	.5875495	2.082958	.3279579
#1	2.506403	25.02971	2.509146	1.288469	26.19025	2.536710	2.589655
#2	2.420162	24.00652	2.509493	1.289047	26.16070	2.438675	2.602743
#3	2.495031	24.93890	2.506161	1.288456	26.44153	2.517898	2.586792

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.18494**	**5.034103**	**5.002704**	**4.994259**	**5.022407**	**5.467910**	**4.635587**
Stddev	.20642	.081621	.010268	.007115	.106243	.058113	.017752
%RSD	.7883292	1.621361	.2052453	.1424716	2.115377	1.062809	.3829527
#1	26.07225	5.112027	5.012028	5.000097	5.090143	5.461736	4.652440
#2	26.05939	4.949229	5.004384	4.986333	4.899960	5.413130	4.637267
#3	26.42318	5.041054	4.991700	4.996346	5.077120	5.528864	4.617055

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV03 Acquired: 3/21/2024 14:27:06 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	**4.546619**	**4.653400**	**5.043647**	z *****	
Stddev	.002004	.086931	.105439	-----	
%RSD	.0440689	1.868129	2.090537	-----	
#1	4.548472	4.702992	5.118461	z 23813.76	
#2	4.544493	4.553023	4.923056	z 23929.14	
#3	4.546892	4.704185	5.089425	z 23988.52	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3783.860**	**100028.6**	**14979.07**	**3796.813**	**4867.985**
Stddev	15.011	293.7	281.06	24.135	11.550
%RSD	.3967236	.2936632	1.876318	.6356707	.2372670
#1	3769.217	99690.1	14692.40	3786.021	4854.862
#2	3783.148	100216.5	15254.15	3779.957	4872.488
#3	3799.214	100179.2	14990.68	3824.461	4876.606

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB03 Acquired: 3/21/2024 14:31:34 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003830**	**.0004735**	**-.000585**	**-.000769**	**.0015048**	**-.001818**	**-.000624**
Stddev	.0007390	.0020713	.000277	.004071	.0025953	.001235	.000423
%RSD	192.9466	437.4275	47.25003	529.1785	172.4679	67.93004	67.72779
#1	-.000351	.0018546	-.000390	-.001558	.0044724	-.000490	-.001088
#2	.000374	-.001908	-.000902	.003638	.0003821	-.002031	-.000260
#3	.001127	.001474	-.000464	-.004388	-.000340	-.002931	-.000524

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000502**	**.0000646**	**.0055904**	**.0000576**	**.0000910**	**.0000271**	**-.003090**
Stddev	.0000314	.0000384	.0043173	.0001319	.0001611	.0000353	.003023
%RSD	62.59381	59.40243	77.22722	228.8003	177.0782	130.0198	97.81579
#1	.0000714	.0000298	.0105550	-.000083	.0000174	.0000001	-.001753
#2	.0000141	.0000581	.0034997	.000178	.0002758	.0000670	-.006551
#3	.0000651	.0001057	.0027164	.000078	-.000020	.0000142	-.000966

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000226**	**-.001914**	**-.000081**	**.0006002**	**.3325064**	**.0003566**	**-.000096**
Stddev	.000103	.010253	.000279	.0002156	.0118264	.0008412	.000343
%RSD	45.79276	535.5316	342.9500	35.91532	3.556737	235.9055	356.7405
#1	-.000126	-.006295	-.000356	.0003596	.3251198	.0004073	.000264
#2	-.000219	-.009249	-.000089	.0006652	.3461466	.0011713	-.000133
#3	-.000332	.009801	.000202	.0007758	.3262527	-.000509	-.000420

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1804749**	**.0146328**	**.0003466**	**.0024518**	**.0005684**	**.0186020**	**.0004376**
Stddev	.0086514	.0007151	.0001300	.0004187	.0002706	.0034664	.0001842
%RSD	4.793669	4.886943	37.51922	17.07736	47.61312	18.63448	42.08906
#1	.1714068	.0154052	.0004099	.0020054	.0003701	.0209226	.0002856
#2	.1886384	.0139939	.0001970	.0028359	.0008767	.0146173	.0003847
#3	.1813796	.0144993	.0004329	.0025140	.0004584	.0202659	.0006424

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB03 Acquired: 3/21/2024 14:31:34 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0023297	.0043134	.0002846	z *****	
Stddev	.0003044	.0001116	.0000152	-----	
%RSD	13.06425	2.587728	5.352293	-----	
#1	.0026072	.0044242	.0002707	z 2466.563	
#2	.0023778	.0042010	.0002822	z 2458.184	
#3	.0020042	.0043151	.0003009	z 2465.148	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.671	109919.8	15729.83	4102.341	5824.230
Stddev	8.928	210.2	140.03	9.796	10.451
%RSD	.2194937	.1912369	.8902383	.2387858	.1794462
#1	4070.457	109803.1	15586.83	4091.039	5829.492
#2	4074.873	110162.5	15735.98	4107.614	5831.005
#3	4057.681	109793.8	15866.69	4108.372	5812.194

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04MSD Acquired: 3/21/2024 14:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9010321**	**2.056490**	**1.026308**	**2.333463**	**.8611697**	**21.71943**
Stddev	.0032472	.023601	.004186	.007118	.0012232	.14407
%RSD	.3603906	1.147626	.4078973	.3050294	.1420423	.6633209
#1	.8991762	2.029349	1.023603	2.330676	.8624479	21.56363
#2	.9047816	2.067934	1.024192	2.328161	.8600100	21.74683
#3	.8991384	2.072187	1.031130	2.341553	.8610511	21.84783

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2064103**	**.1826188**	**.2140829**	**12.49784**	**.5759619**	**.2042796**
Stddev	.0012596	.0028588	.0005068	.09785	.0181537	.0004587
%RSD	.6102344	1.565464	.2367543	.7829339	3.151898	.2245464
#1	.2052104	.1825125	.2139434	12.38901	.5574060	.2040867
#2	.2062984	.1798145	.2136604	12.52596	.5767948	.2039489
#3	.2077221	.1855292	.2146449	12.57855	.5936847	.2048033

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2997599**	**3.792128**	**.2079337**	**4.029509**	**.5777928**	**.0905634**
Stddev	.0000545	.134683	.0012640	.032264	.0011572	.0025069
%RSD	.0181732	3.551647	.6079021	.8007003	.2002737	2.768149
#1	.2997712	3.637502	.2065107	3.997129	.5783712	.0885905
#2	.2998078	3.855037	.2083639	4.029740	.5764604	.0897153
#3	.2997007	3.883846	.2089265	4.061657	.5785467	.0933844

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2094.449**	**.3031284**	**.3797952**	**220.1292**	**4.781917**	**.4241122**
Stddev	62.650	.0023696	.0111881	7.1930	.083916	.0010038
%RSD	2.991251	.7817066	2.945837	3.267631	1.754867	.2366832
#1	2025.007	.3004158	.3709767	212.0549	4.794172	.4232393
#2	2111.608	.3041752	.3760282	222.4800	4.692547	.4238883
#3	2146.731	.3047944	.3923807	225.8527	4.859032	.4252091

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04MSD Acquired: 3/21/2024 14:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7174695	.2077100	1.749411	.7643383	F 109.1022	.0285229
Stddev	.0012947	.0015490	.080448	.0013582	.1815	.0005594
%RSD	.1804557	.7457374	4.598595	.1776942	.1663213	1.961342
#1	.7162573	.2059223	1.659641	.7646103	109.0273	.0279528
#2	.7173179	.2085557	1.773609	.7628646	108.9701	.0285448
#3	.7188334	.2086521	1.814983	.7655398	109.3091	.0290710

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2491848	z *****
Stddev	.0016458	-----
%RSD	.6604909	-----
#1	.2477257	z 10288.20
#2	.2488598	z 10194.15
#3	.2509689	z 10373.08

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3287.113	84264.80	14613.14	3233.906	3951.468
Stddev	5.534	2344.22	32.29	82.936	11.169
%RSD	.1683635	2.781964	.2209655	2.564582	.2826643
#1	3280.965	86945.02	14650.12	3323.247	3939.491
#2	3291.696	83252.86	14598.75	3219.100	3961.599
#3	3288.679	82596.53	14590.54	3159.369	3953.315

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04A Acquired: 3/21/2024 14:43:21 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8630833**	**1.967976**	**.9853140**	**2.234640**	**.8307520**	**21.47263**
Stddev	.0033866	.006395	.0041135	.004650	.0017051	.14706
%RSD	.3923836	.3249489	.4174759	.2080934	.2052493	.6848594
#1	.8592547	1.960592	.9824646	2.234317	.8289804	21.32621
#2	.8656871	1.971701	.9834477	2.230159	.8323817	21.47136
#3	.8643081	1.971635	.9900298	2.239443	.8308938	21.62031

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1993162**	**.1770159**	**.2053044**	**12.43393**	**.5534933**	**.1968385**
Stddev	.0011665	.0000548	.0004322	.08677	.0010142	.0004756
%RSD	.5852617	.0309724	.2105215	.6978646	.1832335	.2416115
#1	.1984145	.1770611	.2049227	12.36001	.5525999	.1965302
#2	.1989005	.1770318	.2052168	12.41232	.5532843	.1965992
#3	.2006336	.1769549	.2057737	12.52947	.5545957	.1973862

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2897144**	**3.620413**	**.2029282**	**4.014648**	**.5583454**	**.0860427**
Stddev	.0004070	.046410	.0015794	.039068	.0008298	.0002046
%RSD	.1404969	1.281886	.7783005	.9731469	.1486143	.2377907
#1	.2901285	3.566868	.2017293	3.980818	.5585812	.0860497
#2	.2893148	3.645309	.2023375	4.005716	.5574233	.0858346
#3	.2896998	3.649063	.2047178	4.057408	.5590319	.0862436

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2026.172**	**.2910817**	**.3643709**	**212.1506**	**4.728532**	**.4119630**
Stddev	17.571	.0015392	.0011872	1.8805	.009380	.0005333
%RSD	.8672092	.5287854	.3258306	.8864100	.1983622	.1294483
#1	2016.142	.2898308	.3656610	210.0840	4.739355	.4125303
#2	2015.914	.2906138	.3633243	212.6065	4.722771	.4118868
#3	2046.461	.2928006	.3641274	213.7612	4.723469	.4114719

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04A Acquired: 3/21/2024 14:43:21 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6921524	.2015745	1.665255	.7381769	F 106.9822	.0292028
Stddev	.0021954	.0013048	.028023	.0020279	.2021	.0005686
%RSD	.3171867	.6472957	1.682828	.2747115	.1888765	1.947251
#1	.6896405	.2005043	1.633008	.7379738	106.8473	.0286340
#2	.6937044	.2011913	1.683702	.7362582	106.8848	.0292032
#3	.6931123	.2030280	1.679056	.7402986	107.2145	.0297713

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2428536	z *****
Stddev	.0016951	-----
%RSD	.6979917	-----
#1	.2411227	z 10166.63
#2	.2429278	z 10194.11
#3	.2445104	z 10148.78

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3351.806	87794.32	14829.30	3365.776	4047.409
Stddev	5.041	68.27	30.42	7.916	1.236
%RSD	.1503980	.0777612	.2051433	.2351865	.0305444
#1	3346.120	87839.43	14799.40	3358.456	4048.089
#2	3353.571	87715.78	14860.22	3374.177	4048.155
#3	3355.728	87827.76	14828.29	3364.694	4045.981

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159618BL Acquired: 3/21/2024 14:47:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004158**	**.0000162**	**-.000754**	**.0016456**	**-.001002**	**.0027840**	**-.001065**
Stddev	.0008005	.0013275	.000485	.0004957	.001529	.0036073	.000720
%RSD	192.5377	8193.403	64.33219	30.12149	152.5527	129.5730	67.59635
#1	.0011563	.0002148	-.000968	.0010852	-.002703	.0046333	-.000279
#2	-.000434	.0012332	-.001095	.0018252	.000258	.0050916	-.001223
#3	.000525	-.001399	-.000199	.0020264	-.000562	-.001373	-.001692

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000315**	**-.000071**	**.0050749**	**.0000510**	**.0000575**	**-.000186**	**-.001286**
Stddev	.0000520	.000045	.0096591	.0001207	.0000948	.000357	.000490
%RSD	164.9586	63.07106	190.3297	236.7276	165.0261	192.3512	38.12240
#1	.0000038	-.000089	-.005978	.0001009	.0001582	-.000053	-.001821
#2	-.000001	-.000105	.011897	-.000087	.0000442	-.000590	-.001178
#3	.000091	-.000020	.009305	.000139	-.000030	.000086	-.000858

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000295**	**-.002970**	**.0000878**	**.0003933**	**.7856840**	**.0005317**	**-.000291**
Stddev	.000080	.010032	.0000523	.0004095	.0034795	.0004520	.000146
%RSD	27.31326	337.7766	59.50504	104.1326	.4428645	84.99985	49.99087
#1	-.000342	-.013835	.0000280	.0007194	.7871924	.0008546	-.000184
#2	-.000202	-.001014	.0001110	-.000066	.7881549	.0007253	-.000457
#3	-.000340	.005940	.0001245	.000527	.7817049	.0000152	-.000232

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3812297**	**.0147187**	**-.000261**	**-.000265**	**.0002522**	**.0184150**	**.0001229**
Stddev	.0263925	.0021951	.000160	.000216	.0008535	.0027616	.0000716
%RSD	6.922983	14.91368	61.30132	81.54947	338.3579	14.99659	58.25720
#1	.3649290	.0166308	-.000419	-.000126	.0005956	.0158487	.0000912
#2	.3670803	.0152037	-.000099	-.000155	.0008806	.0180589	.0000726
#3	.4116798	.0123217	-.000266	-.000514	-.000719	.0213374	.0002048

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159618BL Acquired: 3/21/2024 14:47:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0066796	.0045493	-.000127	z *****	
Stddev	.0007141	.0003181	.000068	-----	
%RSD	10.69139	6.991758	53.70227	-----	
#1	.0074463	.0046164	-.000146	z 2456.609	
#2	.0065590	.0048285	-.000183	z 2441.065	
#3	.0060334	.0042031	-.000051	z 2452.688	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4038.304	108607.7	15150.10	4053.548	5739.477
Stddev	8.303	287.3	1050.02	1.921	8.602
%RSD	.2056165	.2644845	6.930804	.0473943	.1498809
#1	4033.209	108279.0	14509.97	4054.539	5737.096
#2	4033.817	108810.5	14578.42	4054.772	5732.315
#3	4047.885	108733.5	16361.92	4051.334	5749.019

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159618BS Acquired: 3/21/2024 14:54:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8008623**	**2.192891**	**.9967694**	**2.001872**	**.8091812**	**2.070585**
Stddev	.0019641	.030347	.0029702	.001716	.0022118	.042648
%RSD	.2452448	1.383873	.2979796	.0857284	.2733333	2.059721
#1	.8029190	2.172550	.9938070	2.000177	.8067041	2.100110
#2	.8006617	2.178351	.9967539	2.003609	.8098817	2.089955
#3	.7990063	2.227772	.9997472	2.001831	.8109579	2.021689

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072409**	**.1959549**	**.1924715**	**1.061304**	**.4066976**	**.1882474**
Stddev	.0038608	.0037880	.0003780	.023218	.0008932	.0006469
%RSD	1.862946	1.933094	.1963878	2.187701	.2196172	.3436651
#1	.2096572	.1984920	.1920351	1.071654	.4068839	.1877982
#2	.2092772	.1977720	.1926922	1.077546	.4074829	.1879551
#3	.2027882	.1916007	.1926873	1.034710	.4057259	.1889889

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3075349**	**3.053198**	**.2076524**	**1.985994**	**.4814978**	**.0787475**
Stddev	.0009729	.007562	.0039163	.038017	.0018597	.0001874
%RSD	.3163449	.2476778	1.885968	1.914257	.3862356	.2379237
#1	.3075622	3.054846	.2093648	1.999910	.4798108	.0788553
#2	.3084939	3.059801	.2104208	2.015092	.4811906	.0788560
#3	.3065487	3.044948	.2031716	1.942979	.4834919	.0785312

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.241775**	**.3078841**	**.2131636**	**10.07819**	**.3195999**	**.4092006**
Stddev	.015724	.0083594	.0007226	.01493	.0057444	.0014668
%RSD	.4850493	2.715123	.3389867	.1481689	1.797369	.3584575
#1	3.244869	.3127014	.2130375	10.07146	.3210000	.4075262
#2	3.224734	.3127195	.2125124	10.06781	.3245148	.4102586
#3	3.255722	.2982315	.2139409	10.09530	.3132849	.4098171

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159618BS Acquired: 3/21/2024 14:54:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6667826**	**.2102762**	**.9747100**	F **.5714231**	F **.0040053**	F **.0248206**
Stddev	.0025372	.0042286	.0097507	.0016255	.0002530	.0004035
%RSD	.3805143	2.010967	1.000368	.2844633	6.316687	1.625576
#1	.6651861	.2134624	.9852376	.5713264	.0040032	.0251042
#2	.6654535	.2118874	.9729037	.5698481	.0042593	.0249989
#3	.6697082	.2054789	.9659888	.5730947	.0037533	.0243587

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.2050495**	z *****
Stddev	.0042766	-----
%RSD	2.085662	-----
#1	.2080708	z 12481.51
#2	.2069216	z 12518.19
#3	.2001560	z 12550.34

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4009.731**	**105273.3**	**15086.59**	**3947.126**	**5574.868**
Stddev	10.213	262.1	326.23	4.037	11.598
%RSD	.2547019	.2489861	2.162383	.1022857	.2080334
#1	4014.770	105093.2	14875.55	3942.546	5588.252
#2	3997.978	105152.7	14921.87	3950.170	5567.779
#3	4016.445	105574.0	15462.33	3948.662	5568.573

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01 Acquired: 3/21/2024 14:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0248199	-.008599	.2247045	-.012235	-.002862	47.25920	.2506203
Stddev	.0017419	.003243	.0149110	.001570	.001050	.05074	.0008420
%RSD	7.018133	37.71645	6.635831	12.83185	36.68611	.1073706	.3359495
#1	.0262698	-.008711	.2151165	-.012527	-.001851	47.20904	.2497256
#2	.0228876	-.005302	.2171133	-.010540	-.003948	47.25807	.2507381
#3	.0253022	-.011786	.2418836	-.013639	-.002788	47.31051	.2513971

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036292	.0000522	19.20076	.1058422	.0542267	6.861982	101.0580
Stddev	.0000482	.0012251	.04654	.0007639	.0045304	.454520	.5226
%RSD	1.329104	2346.606	.2423690	.7216992	8.354634	6.623738	.5171639
#1	.0036754	-.000606	19.25422	.1055691	.0515126	6.572042	100.5892
#2	.0035792	-.000703	19.17876	.1067051	.0517107	6.628087	101.6215
#3	.0036331	.001466	19.16931	.1052525	.0594567	7.385818	100.9633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9055199	26.14853	.0902569	-.006445	3.021177	.2724799	.3768123
Stddev	.0020428	.04842	.0066111	.000309	.031739	.0015587	.0032143
%RSD	.2255915	.1851746	7.324765	4.798255	1.050563	.5720490	.8530302
#1	.9078411	26.20432	.0857572	-.006129	2.993883	.2706956	.3746461
#2	.9047225	26.12380	.0871664	-.006459	3.056006	.2735762	.3805055
#3	.9039961	26.11746	.0978473	-.006747	3.013643	.2731680	.3752852

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.785948	.0171168	.0030150	.0156438	2.986018	6.967708	.1705701
Stddev	.046826	.0037191	.0001793	.0010646	.006190	.033580	.0122343
%RSD	1.236832	21.72804	5.945872	6.805338	.2073133	.4819376	7.172565
#1	3.732325	.0131590	.0028130	.0147445	2.985300	6.930616	.1625221
#2	3.806756	.0205393	.0030767	.0168193	2.980218	6.996039	.1645392
#3	3.818765	.0176521	.0031553	.0153676	2.992537	6.976468	.1846489

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01 Acquired: 3/21/2024 14:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.4744675	.0049705	.0273555	z *****
Stddev	.0339271	.0000454	.0005662	-----
%RSD	7.150562	.9128070	2.069631	-----
#1	.4525123	.0049217	.0278661	z 4359.593
#2	.4573466	.0049783	.0267466	z 4324.865
#3	.5135435	.0050115	.0274539	z 4334.313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4120.699	115331.8	16962.78	4301.846	5194.001
Stddev	228.143	483.6	107.10	37.845	307.896
%RSD	5.536520	.4193538	.6313840	.8797430	5.927911
#1	4267.040	115480.7	16850.27	4338.752	5395.935
#2	4237.233	114791.1	16974.59	4263.126	5346.446
#3	3857.824	115723.4	17063.49	4303.660	4839.624

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01DUP Acquired: 3/21/2024 15:02:34 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0248639	-.007867	.2219873	-.012657	-.001589	47.00796	.2483211
Stddev	.0036511	.002869	.0162853	.004731	.001204	.25021	.0013792
%RSD	14.68444	36.47203	7.336161	37.37564	75.73109	.5322752	.5554066
#1	.0262616	-.004634	.2128579	-.007611	-.002591	46.72288	.2467301
#2	.0207205	-.010112	.2123146	-.013369	-.000254	47.10981	.2491782
#3	.0276097	-.008855	.2407894	-.016992	-.001923	47.19118	.2490549

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034420	-.000008	18.87569	.1046722	.0537311	6.836974	99.71565
Stddev	.0000655	.001169	.08263	.0002688	.0043530	.457448	.73631
%RSD	1.902934	14927.01	.4377737	.2568301	8.101517	6.690790	.7384052
#1	.0034581	-.000620	18.78674	.1046675	.0512935	6.583424	99.01981
#2	.0033700	-.000744	18.95006	.1049433	.0511430	6.562447	99.64048
#3	.0034980	.001340	18.89028	.1044057	.0587568	7.365050	100.4867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8948144	25.90356	.0882794	-.006404	2.730356	.2700161	.3561882
Stddev	.0049159	.09551	.0067191	.000104	.027757	.0020286	.0012091
%RSD	.5493773	.3687253	7.611170	1.624417	1.016596	.7512954	.3394567
#1	.8895570	25.83087	.0844265	-.006408	2.716645	.2693724	.3562428
#2	.8992968	26.01174	.0843737	-.006297	2.712122	.2722885	.3573691
#3	.8955892	25.86808	.0960378	-.006505	2.762300	.2683875	.3549527

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.405241	.0152585	.0030414	.0149873	2.963269	7.288122	.1671696
Stddev	.049032	.0045850	.0004871	.0005101	.015625	.083554	.0119525
%RSD	1.439884	30.04861	16.01697	3.403344	.5272735	1.146445	7.149927
#1	3.368690	.0136368	.0027560	.0150592	2.945349	7.219724	.1610698
#2	3.386072	.0117048	.0027643	.0144451	2.974035	7.263393	.1594977
#3	3.460962	.0204339	.0036039	.0154576	2.970424	7.381250	.1809413

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01DUP Acquired: 3/21/2024 15:02:34 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.4649625	.0049048	.0271269	z *****
Stddev	.0372430	.0001136	.0004944	-----
%RSD	8.009885	2.316952	1.822612	-----
#1	.4428812	.0048741	.0268315	z 4319.920
#2	.4440447	.0050307	.0276976	z 4328.106
#3	.5079618	.0048098	.0268514	z 4331.076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4115.759	115396.4	16959.50	4300.051	5232.889
Stddev	232.797	228.1	81.16	13.129	329.083
%RSD	5.656235	.1976638	.4785292	.3053231	6.288743
#1	4247.362	115484.9	16925.50	4313.446	5419.899
#2	4252.947	115567.1	16900.87	4287.205	5425.856
#3	3846.967	115137.4	17052.12	4299.502	4852.913

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01LX5 Acquired: 3/21/2024 15:06:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062406	-.001269	.0433221	-.003673	-.000711	10.79880	.0533700
Stddev	.0007181	.001021	.0003419	.002019	.000702	.05452	.0005849
%RSD	11.50662	80.48674	.7891041	54.96720	98.73558	.5049024	1.095912
#1	.0063279	-.000417	.0437077	-.004876	-.000701	10.73705	.0529863
#2	.0054829	-.000988	.0432026	-.004801	-.000014	10.81903	.0530806
#3	.0069111	-.002401	.0430561	-.001342	-.001417	10.84031	.0540432

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008130	-.000339	4.086637	.0228948	.0102895	1.444405	20.62599
Stddev	.0000415	.000047	.018396	.0001494	.0000382	.001424	.17238
%RSD	5.106692	13.72634	.4501579	.6525095	.3716880	.0985921	.8357242
#1	.0008116	-.000285	4.065542	.0229084	.0102762	1.444042	20.45939
#2	.0008552	-.000366	4.099343	.0230369	.0103326	1.445976	20.61496
#3	.0007722	-.000365	4.095027	.0227391	.0102597	1.443198	20.80362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1932899	5.565251	.0172021	-.001014	.6857731	.0595567	.0785942
Stddev	.0005018	.024612	.0001139	.000215	.0058791	.0003167	.0004331
%RSD	.2596137	.4422463	.6621133	21.17371	.8572878	.5317474	.5510915
#1	.1927206	5.540381	.0173224	-.001124	.6853771	.0592167	.0790943
#2	.1936679	5.589597	.0171881	-.001151	.6801021	.0598434	.0783476
#3	.1934813	5.565775	.0170959	-.000766	.6918401	.0596099	.0783407

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8523361	-.003658	.0002324	.0047966	.6757753	2.571766	.0329134
Stddev	.0141287	.001510	.0002678	.0003614	.0011853	.034005	.0003803
%RSD	1.657646	41.27075	115.2559	7.534537	.1754052	1.322229	1.155390
#1	.8362147	-.005393	.0004900	.0046588	.6770565	2.545478	.0326322
#2	.8582298	-.002641	.0002519	.0045245	.6747177	2.559651	.0333461
#3	.8625638	-.002941	-.000045	.0052067	.6755517	2.610169	.0327619

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01LX5 Acquired: 3/21/2024 15:06:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0899872	.0022068	.0069303	z *****
Stddev	.0002085	.0001173	.0001133	-----
%RSD	.2317278	5.315480	1.634468	-----
#1	.0900769	.0021959	.0068055	z 2805.828
#2	.0897488	.0020953	.0069587	z 2823.941
#3	.0901358	.0023292	.0070267	z 2825.550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.082	109737.5	15283.21	4089.557	5561.015
Stddev	6.552	125.3	48.46	3.282	6.473
%RSD	.1610949	.1142133	.3170561	.0802473	.1164004
#1	4059.546	109869.3	15229.42	4087.065	5555.683
#2	4071.425	109619.8	15296.74	4088.329	5568.217
#3	4070.275	109723.3	15323.46	4093.275	5559.146

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV04 Acquired: 3/21/2024 15:23:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.004560**	**5.291766**	**5.072177**	**5.090336**	**5.138208**	**10.35537**
Stddev	.005896	.060166	.001978	.010110	.009905	.03623
%RSD	.1178106	1.136965	.0389891	.1986128	.1927737	.3498607
#1	5.006732	5.223095	5.070364	5.084757	5.141528	10.31974
#2	4.997886	5.335217	5.071881	5.084245	5.146026	10.39217
#3	5.009062	5.316986	5.074286	5.102006	5.127069	10.35420

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.31032**	**.2453170**	**2.517528**	**25.58803**	**1.035044**	**2.506988**
Stddev	.06177	.0016132	.003229	.08125	.000833	.003028
%RSD	.5991379	.6576148	.1282637	.3175371	.0804620	.1207783
#1	10.24028	.2465086	2.518367	25.51708	1.035160	2.507384
#2	10.33366	.2459611	2.513961	25.67667	1.034159	2.503781
#3	10.35702	.2434812	2.520254	25.57034	1.035812	2.509798

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.253955**	**5.305447**	**2.527408**	**25.03377**	**2.537267**	**1.309053**
Stddev	.002143	.039431	.012985	.09780	.001871	.001478
%RSD	.1709280	.7432184	.5137528	.3906549	.0737301	.1128772
#1	1.256308	5.272126	2.514667	24.98496	2.535573	1.310299
#2	1.253443	5.295234	2.540623	25.14637	2.536953	1.307421
#3	1.252114	5.348979	2.526934	24.96999	2.539275	1.309439

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.31076**	**2.569211**	**2.634582**	**26.54973**	**5.130780**	**5.058890**
Stddev	.26500	.003023	.005604	.25368	.031666	.003393
%RSD	1.007178	.1176800	.2126912	.9554893	.6171855	.0670732
#1	26.02351	2.565756	2.640224	26.29080	5.153196	5.059770
#2	26.36306	2.570505	2.629018	26.56057	5.144591	5.055144
#3	26.54570	2.571372	2.634505	26.79781	5.094554	5.061757

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV04 Acquired: 3/21/2024 15:23:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.023029**	**5.166360**	F **5.637767**	**4.598882**	**4.580533**	**4.888307**
Stddev	.009135	.020350	.077048	.010704	.006044	.007075
%RSD	.1818557	.3938853	1.366645	.2327534	.1319602	.1447307
#1	5.016662	5.146685	5.559834	4.603628	4.573553	4.880686
#2	5.018929	5.187323	5.639568	4.586625	4.584038	4.889569
#3	5.033495	5.165072	5.713899	4.606392	4.584008	4.894666

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.220441**	z *****
Stddev	.033165	-----
%RSD	.6352871	-----
#1	5.183618	z 24254.55
#2	5.247960	z 24249.45
#3	5.229744	z 24234.54

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3743.550**	**99955.41**	**14940.48**	**3759.310**	**4825.498**
Stddev	6.993	156.13	83.01	10.159	8.962
%RSD	.1867960	.1561992	.5556049	.2702455	.1857156
#1	3736.082	100039.0	14894.63	3750.550	4817.257
#2	3744.624	100051.9	14890.50	3770.447	4824.199
#3	3749.943	99775.3	15036.30	3756.933	4835.039

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB04 Acquired: 3/21/2024 15:28:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000730**	**.0001299**	**.0007684**	**.0008557**	**.0012768**	**-.001816**	**-.001257**
Stddev	.000800	.0019817	.0017982	.0039815	.0011341	.003488	.000189
%RSD	109.6031	1526.160	234.0243	465.2622	88.82283	192.0663	15.03861
#1	-.001619	.0010381	.0024322	.0008070	.0013079	-.005843	-.001233
#2	-.000504	-.002143	-.001139	.0048614	.0023950	.000107	-.001081
#3	-.000067	.001495	.001012	-.003101	.0001275	.000287	-.001457

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000015**	**-.000014**	**.0093935**	**.0000078**	**.0000369**	**.0000761**	**.0008467**
Stddev	.000039	.000034	.0028772	.0001950	.0001038	.0002593	.0038638
%RSD	257.7832	234.3273	30.62999	2504.162	281.2654	340.8668	456.3446
#1	.000005	.000023	.0125837	.0001082	-.000073	.0002319	.0051795
#2	.000010	-.000043	.0069951	.0001321	.000134	.0002196	-.002241
#3	-.000060	-.000024	.0086018	-.000217	.000050	-.000223	-.000398

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000166**	**-.013205**	**.0000462**	**.0005461**	**.1228606**	**.0010991**	**.0003175**
Stddev	.0001788	.016596	.0002507	.0001700	.0128664	.0009474	.0001520
%RSD	1077.614	125.6750	542.9662	31.13163	10.47237	86.19744	47.86410
#1	.0001608	-.021027	.0000680	.0006984	.1122652	.0006019	.0003847
#2	.0000724	.005856	-.000215	.0005771	.1371776	.0021915	.0004242
#3	-.000183	-.024445	.000285	.0003627	.1191391	.0005037	.0001435

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0735062**	**.0042608**	**.0001267**	**.0025350**	**.0002164**	**.0266833**	**.0003177**
Stddev	.0170813	.0010025	.0001797	.0005291	.0006510	.0046211	.0001149
%RSD	23.23797	23.52886	141.8769	20.87334	300.7961	17.31826	36.14883
#1	.0548385	.0048259	.0003186	.0031441	-.000262	.0269046	.0004503
#2	.0883546	.0031033	.0000990	.0021893	-.000047	.0219556	.0002481
#3	.0773254	.0048532	-.000038	.0022715	.000958	.0311898	.0002548

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB04 Acquired: 3/21/2024 15:28:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0009537	.0028931	.0001892	z *****	
Stddev	.0002864	.0001853	.0000554	-----	
%RSD	30.03347	6.405240	29.29688	-----	
#1	.0011819	.0030591	.0002514	z 2445.372	
#2	.0010468	.0029270	.0001449	z 2419.725	
#3	.0006323	.0026932	.0001713	z 2450.839	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3966.534	106763.7	15105.65	3961.371	5667.338
Stddev	7.171	479.9	42.82	31.821	4.236
%RSD	.1807769	.4495369	.2834942	.8032903	.0747410
#1	3960.808	106209.7	15105.36	3928.504	5669.689
#2	3964.216	107028.2	15062.98	3963.577	5669.876
#3	3974.576	107053.2	15148.62	3992.031	5662.448

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1791-01 Acquired: 3/21/2024 15:32:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0344868	-.027233	.1242447	-.029612	-.006051	91.14132	.4207882
Stddev	.0016542	.000398	.0011194	.001733	.001289	.33068	.0005559
%RSD	4.796774	1.459617	.9009402	5.852001	21.29997	.3628174	.1321199
#1	.0326957	-.027209	.1231306	-.029515	-.007437	91.31401	.4203785
#2	.0348074	-.027643	.1242342	-.031391	-.004889	91.34991	.4214210
#3	.0359573	-.026849	.1253693	-.027929	-.005828	90.76005	.4205650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068362	.0034575	67.49325	.1468968	.1288465	.2739129	226.3312
Stddev	.0000574	.0001848	.31525	.0006652	.0005085	.0015399	.6361
%RSD	.8399405	5.343951	.4670907	.4528235	.3946233	.5621769	.2810555
#1	.0068893	.0032494	67.55058	.1475377	.1282886	.2728114	225.7913
#2	.0068441	.0035205	67.77591	.1469429	.1289672	.2756725	226.1700
#3	.0067753	.0036025	67.15327	.1462097	.1292837	.2732548	227.0325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.899283	48.74490	.1997360	-.017256	6.667860	.4380258	.4813654
Stddev	.017186	.23667	.0008571	.000393	.017968	.0028983	.0012271
%RSD	.4407398	.4855341	.4291219	2.275433	.2694682	.6616787	.2549203
#1	3.903176	48.83313	.1987534	-.017530	6.657135	.4404547	.4806560
#2	3.914189	48.92479	.2001250	-.017431	6.657841	.4388053	.4827823
#3	3.880485	48.47679	.2003297	-.016806	6.688603	.4348175	.4806578

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.109552	-.002534	.0028219	.0150601	4.846095	7.049011	.6624553
Stddev	.027430	.007217	.0001378	.0005858	.014279	.009739	.0009281
%RSD	.3382418	284.8440	4.884695	3.889919	.2946470	.1381546	.1401056
#1	8.077904	-.007537	.0026695	.0149805	4.851636	7.038298	.6625083
#2	8.124270	-.005802	.0028585	.0156816	4.856772	7.051409	.6633558
#3	8.126480	.005739	.0029378	.0145181	4.829876	7.057327	.6615018

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1791-01 Acquired: 3/21/2024 15:32:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2707212	.0147208	-.007138	z *****
Stddev	.0010564	.0001549	.001065	-----
%RSD	.3902243	1.052355	14.92055	-----
#1	.2695051	.0146998	-.006600	z 6180.969
#2	.2712463	.0148852	-.006450	z 6189.485
#3	.2714121	.0145775	-.008365	z 6173.288

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4441.407	121493.5	18567.13	4559.817	4860.596
Stddev	10.858	122.8	126.95	4.202	21.784
%RSD	.2444620	.1010605	.6837382	.0921442	.4481802
#1	4453.437	121351.8	18495.62	4563.686	4883.733
#2	4432.334	121569.3	18492.07	4555.347	4857.576
#3	4438.451	121559.3	18713.71	4560.416	4840.480

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1801-01 Acquired: 3/21/2024 15:37:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0674119	-.024594	.2508579	-.032571	-.005898	148.3197	.7375160
Stddev	.0020499	.005094	.0093989	.004790	.000702	.4128	.0044201
%RSD	3.040832	20.71094	3.746691	14.70486	11.89677	.2783102	.5993208
#1	.0651159	-.018743	.2405749	-.027065	-.006703	147.8931	.7328491
#2	.0680619	-.027004	.2590050	-.034877	-.005411	148.3486	.7380600
#3	.0690580	-.028035	.2529939	-.035773	-.005581	148.7172	.7416389

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098847	.0006799	43.60074	.2075240	.1338049	.2788817	261.4159
Stddev	.0001295	.0043881	.28325	.0259960	.0059320	.0113382	27.6195
%RSD	1.309695	645.3894	.6496409	12.52672	4.433345	4.065590	10.56536
#1	.0097804	.0015233	43.40253	.1923069	.1271142	.2668910	244.8071
#2	.0098441	.0045851	43.47453	.1927246	.1384210	.2894292	246.1417
#3	.0100296	-.004069	43.92515	.2375406	.1358795	.2803250	293.2989

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.118239	47.86460	.2355794	-.021098	11.46785	.4025517	.5777969
Stddev	.007538	.04343	.0099831	.003719	1.26130	.0013931	.0716978
%RSD	.1472847	.0907397	4.237674	17.62691	10.99858	.3460687	12.40882
#1	5.112729	47.81483	.2241355	-.018962	10.68536	.4024461	.5365251
#2	5.115157	47.88412	.2425016	-.018940	10.79530	.4012144	.5362794
#3	5.126830	47.89484	.2401011	-.025393	12.92289	.4039946	.6605863

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.67993	.1040979	.0048579	.0224595	4.420761	2.961993	.6665830
Stddev	1.25145	.0935049	.0001811	.0013687	.013220	.311716	.0262375
%RSD	10.71455	89.82401	3.728508	6.094250	.2990346	10.52385	3.936117
#1	10.88885	.0495577	.0046589	.0209511	4.407121	2.758095	.6367696
#2	11.02820	.0506699	.0050132	.0228052	4.421647	2.807064	.6861562
#3	13.12274	.2120661	.0049016	.0236223	4.433516	3.320819	.6768232

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1801-01 Acquired: 3/21/2024 15:37:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.4298314	.0204153	-.083636	z *****	
Stddev	.0194546	.0001121	.026998	-----	
%RSD	4.526090	.5492487	32.27993	-----	
#1	.4096004	.0202864	-.067770	z 6365.665	
#2	.4484032	.0204905	-.068329	z 6373.653	
#3	.4314905	.0204689	-.114808	z 6473.250	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4470.359	112136.8	18105.37	4233.499	4959.131
Stddev	143.914	11132.3	18.08	427.059	181.972
%RSD	3.219300	9.927398	.0998746	10.08762	3.669424
#1	4634.393	118800.4	18086.53	4484.450	5166.691
#2	4365.301	118324.8	18122.58	4475.649	4827.020
#3	4411.383	99285.3	18107.01	3740.400	4883.682

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1803-01 Acquired: 3/21/2024 15:41:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3185937	-.012037	.7768036	-.025839	-.002598	116.9678	.5233086
Stddev	.0037321	.006836	.0022277	.003692	.002857	20.6100	.0951380
%RSD	1.171441	56.79193	.2867803	14.28962	109.9393	17.62026	18.18009
#1	.3228965	-.016953	.7750487	-.021950	-.004998	102.5161	.4575763
#2	.3162342	-.004230	.7793098	-.026269	.000562	140.5685	.6324026
#3	.3166505	-.014928	.7760522	-.029297	-.003359	107.8188	.4799470

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064742	-.001171	15.71464	.3739057	.1038965	.2621002	191.9852
Stddev	.0010302	.001019	2.53456	.0020671	.0025345	.0011322	5.4107
%RSD	15.91222	86.98342	16.12862	.5528344	2.439410	.4319694	2.818292
#1	.0057732	-.000419	13.96076	.3730598	.1058347	.2632490	188.0680
#2	.0076570	-.002331	18.62060	.3762616	.1010285	.2609853	198.1589
#3	.0059924	-.000764	14.56257	.3723958	.1048265	.2620662	189.7286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.105916	21.85134	.1527079	-.013285	1.146588	.5687523	.7277331
Stddev	.373165	3.79257	.0000767	.001576	.031244	.0987589	.0036058
%RSD	17.71983	17.35624	.0502575	11.86216	2.724921	17.36413	.4954777
#1	1.851039	19.19926	.1526218	-.014068	1.118659	.4994631	.7248730
#2	2.534237	26.19540	.1527330	-.011471	1.180330	.6818352	.7317835
#3	1.932472	20.15936	.1527691	-.014316	1.140774	.5249584	.7265427

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.333159	-.102505	.0023747	.0415662	6.527787	4.801761	.3338780
Stddev	.086024	.110941	.0001542	.0034385	1.156758	.115049	.0006895
%RSD	2.580856	108.2289	6.491163	8.272279	17.72053	2.395978	.2065023
#1	3.279877	-.025275	.0025249	.0400191	5.719689	4.704571	.3346715
#2	3.432401	-.229633	.0023823	.0455064	7.852881	4.928790	.3335374
#3	3.287198	-.052609	.0022169	.0391730	6.010793	4.771922	.3334251

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1803-01 Acquired: 3/21/2024 15:41:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.003704	.0078876	-.098586	z *****	
Stddev	.003142	.0014305	.011439	-----	
%RSD	84.81811	18.13661	11.60319	-----	
#1	-.001566	.0068842	-.106350	z 4941.482	
#2	-.007312	.0095256	-.085450	z 4959.531	
#3	-.002235	.0072529	-.103958	z 4934.562	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4195.259	112742.4	15858.81	4259.054	5112.442
Stddev	4.548	450.0	2218.57	25.927	2.796
%RSD	.1084131	.3991519	13.98953	.6087500	.0546970
#1	4191.723	112984.1	17435.88	4281.780	5109.776
#2	4193.665	112223.2	13321.93	4230.813	5115.353
#3	4200.390	113020.0	16818.63	4264.567	5112.199

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1804-01 Acquired: 3/21/2024 15:45:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0439282**	**-.014428**	**.2650327**	**-.030055**	**-.001952**	**85.55136**	**.4311601**
Stddev	.0006593	.003608	.0025434	.003428	.000881	.15277	.0006995
%RSD	1.500744	25.00902	.9596461	11.40453	45.13091	.1785741	.1622298
#1	.0442471	-.014903	.2679440	-.026861	-.001433	85.72302	.4317082
#2	.0431701	-.017775	.2639118	-.033676	-.002969	85.43031	.4303723
#3	.0443673	-.010606	.2632423	-.029627	-.001454	85.50077	.4313998

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062044**	**-.001048**	**107.8911**	**.1941332**	**.0907202**	**.1852669**	**190.0402**
Stddev	.0000824	.000152	.2707	.0004628	.0006947	.0013724	.3347
%RSD	1.328541	14.47834	.2509014	.2383717	.7657122	.7407683	.1761146
#1	.0061964	-.000886	108.2023	.1946641	.0909767	.1857165	189.6648
#2	.0062905	-.001186	107.7605	.1939198	.0899337	.1837260	190.1482
#3	.0061262	-.001071	107.7104	.1938156	.0912500	.1863580	190.3075

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.051539**	**82.11889**	**.1810503**	**-.013924**	**8.025666**	**.3382434**	**.5027506**
Stddev	.011287	.37144	.0010036	.000188	.048797	.0013270	.0012643
%RSD	.3698692	.4523212	.5543427	1.347362	.6080127	.3923218	.2514794
#1	3.064522	82.53721	.1809493	-.013920	7.970165	.3374440	.5025970
#2	3.044065	81.99177	.1801009	-.013738	8.045001	.3375109	.5040847
#3	3.046029	81.82770	.1821006	-.014113	8.061833	.3397752	.5015701

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.429552**	**.0411010**	**.0039284**	**.0230020**	**5.088720**	**2.086039**	**.3043636**
Stddev	.030542	.0051761	.0001775	.0010611	.011088	.008678	.0006713
%RSD	.5625231	12.59353	4.518933	4.612850	.2178945	.4159807	.2205553
#1	5.460204	.0356138	.0038512	.0217986	5.101519	2.082051	.3045797
#2	5.399120	.0417930	.0038025	.0234045	5.082627	2.080073	.3036109
#3	5.429333	.0458963	.0041314	.0238029	5.082015	2.095994	.3049002

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1804-01 Acquired: 3/21/2024 15:45:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.3764122	.0117210	.4184834	z *****	
Stddev	.0029765	.0001166	.0015983	-----	
%RSD	.7907508	.9948888	.3819155	-----	
#1	.3768167	.0116572	.4201074	z 4376.296	
#2	.3732541	.0116503	.4169122	z 4396.859	
#3	.3791657	.0118556	.4184307	z 4375.874	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3993.965	107038.8	16126.60	4009.749	4892.472
Stddev	19.236	164.3	95.22	6.956	23.365
%RSD	.4816224	.1534867	.5904446	.1734737	.4775763
#1	3994.420	106996.7	16016.80	4016.952	4888.306
#2	4012.970	107220.1	16186.48	4009.222	4917.640
#3	3974.506	106899.7	16176.52	4003.071	4871.470

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1804-03 Acquired: 3/21/2024 15:49:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485013	-.029683	.4694930	-.037351	-.000830	116.0459	1.370098
Stddev	.0011578	.004727	.0054377	.001449	.001404	.4933	.006516
%RSD	2.387215	15.92668	1.158199	3.879018	169.0978	.4250640	.4755819
#1	.0497885	-.026139	.4672516	-.038465	-.002398	116.4278	1.370490
#2	.0481708	-.027859	.4756931	-.037874	.000311	115.4890	1.363395
#3	.0475447	-.035050	.4655344	-.035713	-.000404	116.2210	1.376409

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116789	.0051520	129.7240	.1778806	.1109217	1.441168	223.5021
Stddev	.0000677	.0003602	.5524	.0012503	.0012538	.008744	.9956
%RSD	.5800550	6.992310	.4258500	.7028815	1.130371	.6067291	.4454742
#1	.0117314	.0054168	130.2575	.1764562	.1103419	1.438616	222.4122
#2	.0117028	.0052974	129.1544	.1787968	.1123605	1.450905	223.7302
#3	.0116024	.0047418	129.7601	.1783888	.1100627	1.433985	224.3639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.34089	47.46830	.2660838	-.012873	11.86812	.2931697	.8755326
Stddev	.06215	.32368	.0027965	.000131	.07506	.0032753	.0036447
%RSD	.2192787	.6818939	1.050972	1.019643	.6324370	1.117214	.4162803
#1	28.36741	47.82287	.2662989	-.013023	11.78591	.2941930	.8735884
#2	28.26989	47.18864	.2687665	-.012818	11.88547	.2895049	.8732722
#3	28.38538	47.39337	.2631860	-.012779	11.93299	.2958113	.8797371

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.39870	.0684705	.0053127	.0349334	4.905711	3.022733	.5413360
Stddev	.05208	.0034150	.0004076	.0006071	.018180	.009408	.0045971
%RSD	.3886817	4.987601	7.672421	1.737743	.3705965	.3112367	.8492122
#1	13.34792	.0646143	.0048422	.0355878	4.914921	3.033322	.5414174
#2	13.39620	.0696844	.0055348	.0348238	4.884768	3.015336	.5458919
#3	13.45198	.0711127	.0055610	.0343886	4.917443	3.019541	.5366988

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1804-03 Acquired: 3/21/2024 15:49:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3716990	.0176611	.3924875	z *****
Stddev	.0031092	.0000538	.0024614	-----
%RSD	.8364910	.3047188	.6271167	-----
#1	.3704260	.0176437	.3939377	z 6154.107
#2	.3752427	.0176182	.3896456	z 6184.042
#3	.3694283	.0177215	.3938792	z 6164.969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4210.426	115283.5	17617.75	4311.934	4753.604
Stddev	20.857	398.7	66.40	18.359	33.210
%RSD	.4953662	.3458189	.3769006	.4257757	.6986196
#1	4220.376	115711.5	17561.44	4326.007	4765.714
#2	4186.457	115216.4	17690.97	4318.629	4716.038
#3	4224.445	114922.7	17600.83	4291.167	4779.058

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04MS Acquired: 3/21/2024 15:53:59 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8856127**	**2.035487**	**1.022040**	**2.311161**	**.8512304**	**21.73069**
Stddev	.0105305	.051017	.018840	.037905	.0124108	.05985
%RSD	1.189066	2.506377	1.843343	1.640102	1.457979	.2754361
#1	.8761115	2.025428	1.009635	2.294755	.8415516	21.66397
#2	.8969350	2.090784	1.043719	2.354506	.8652223	21.77967
#3	.8837917	1.990248	1.012765	2.284223	.8469175	21.74843

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2063732**	**.1851676**	**.2132061**	**12.52657**	**.5596586**	**.2040732**
Stddev	.0007263	.0007601	.0035303	.04147	.0059140	.0030501
%RSD	.3519436	.4104967	1.655792	.3310779	1.056712	1.494627
#1	.2055416	.1843357	.2113248	12.48238	.5646137	.2020597
#2	.2066947	.1858259	.2172785	12.56465	.5612505	.2075824
#3	.2068833	.1853412	.2110149	12.53267	.5531116	.2025774

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3003027**	**3.678089**	**.2118480**	**4.054267**	**.5746381**	**.0882657**
Stddev	.0031041	.049149	.0011435	.019372	.0094486	.0015321
%RSD	1.033649	1.336252	.5397777	.4778067	1.644261	1.735728
#1	.2976374	3.715668	.2125508	4.032299	.5687324	.0885767
#2	.3037108	3.696128	.2124648	4.068902	.5855356	.0896183
#3	.2995598	3.622469	.2105286	4.061599	.5696463	.0866020

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2025.553**	**.3025977**	**.3680656**	**209.9112**	**4.805889**	**.4231779**
Stddev	12.169	.0025155	.0043750	1.7249	.014251	.0055952
%RSD	.6007703	.8312979	1.188635	.8217495	.2965292	1.322180
#1	2036.822	.2999140	.3714111	211.1848	4.794570	.4197513
#2	2027.188	.3029772	.3696709	210.6007	4.821892	.4296346
#3	2012.650	.3049018	.3631147	207.9482	4.801205	.4201477

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1714-04MS Acquired: 3/21/2024 15:53:59 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7162137	.2093082	1.620562	.7597462	F 108.2399	.0264597
Stddev	.0114733	.0004300	.010642	.0132785	1.7731	.0004719
%RSD	1.601944	.2054166	.6566857	1.747752	1.638157	1.783515
#1	.7073282	.2095440	1.609525	.7500889	107.5740	.0259795
#2	.7291667	.2088120	1.621401	.7748885	110.2496	.0264768
#3	.7121463	.2095687	1.630760	.7542612	106.8961	.0269229

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2487047	z *****
Stddev	.0009697	-----
%RSD	.3899148	-----
#1	.2475851	z 10268.72
#2	.2492810	z 10282.43
#3	.2492479	z 10305.92

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.312	86813.85	14442.88	3314.484	3953.171
Stddev	33.182	1064.83	26.87	49.486	54.004
%RSD	1.012485	1.226567	.1860435	1.493033	1.366084
#1	3292.671	85909.65	14444.71	3283.428	3974.106
#2	3239.233	86544.36	14415.14	3288.473	3891.834
#3	3300.032	87987.53	14468.79	3371.552	3993.572

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159641BL Acquired: 3/21/2024 15:58:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000700**	**-.000424**	**-.000336**	**-.000978**	**-.000578**	**.0019940**	**-.000771**
Stddev	.001054	.002661	.000948	.001230	.001504	.0040702	.000127
%RSD	150.5419	627.1331	282.2273	125.6822	260.1053	204.1161	16.44506
#1	-.000014	.000885	-.000916	-.002369	-.001333	.0016886	-.000883
#2	-.000173	-.003487	-.000848	-.000531	.001154	-.001915	-.000796
#3	-.001913	.001329	.000758	-.000035	-.001556	.006208	-.000633

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000335**	**-.000090**	**.0068717**	**-.000215**	**-.000141**	**.0001752**	**.0044607**
Stddev	.0000195	.000031	.0024322	.000208	.000049	.0003362	.0014579
%RSD	58.10622	34.79790	35.39395	96.68032	34.59345	191.9436	32.68295
#1	.0000349	-.000125	.0088715	-.000429	-.000196	-.000210	.0039615
#2	.0000134	-.000078	.0041642	-.000202	-.000128	.000323	.0033180
#3	.0000523	-.000066	.0075796	-.000014	-.000101	.000412	.0061027

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001929**	**-.011356**	**-.000258**	**.0004463**	**.6195712**	**.0011478**	**-.000173**
Stddev	.0001487	.015885	.000346	.0000809	.0487258	.0004891	.000080
%RSD	77.06659	139.8822	134.2535	18.13009	7.864441	42.60850	46.24964
#1	.0001327	.003247	.000045	.0003532	.6594294	.0017099	-.000139
#2	.0003623	-.028270	-.000635	.0004998	.6340325	.0008196	-.000265
#3	.0000838	-.009046	-.000183	.0004859	.5652517	.0009140	-.000116

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2233712**	**.0047752**	**-.000258**	**.0023896**	**.0003537**	**.0126590**	**.0000682**
Stddev	.0073990	.0005894	.000134	.0006137	.0003904	.0073525	.0001116
%RSD	3.312444	12.34311	51.72824	25.68426	110.3697	58.08075	163.5858
#1	.2218780	.0051699	-.000137	.0028938	-.000092	.0145131	.0001112
#2	.2168326	.0050581	-.000401	.0017062	.000520	.0045570	-.000058
#3	.2314029	.0040977	-.000236	.0025686	.000634	.0189069	.000152

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159641BL Acquired: 3/21/2024 15:58:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0056806	.0033693	-.000047	z *****	
Stddev	.0006042	.0000874	.000026	-----	
%RSD	10.63522	2.594822	54.80438	-----	
#1	.0063537	.0034572	-.000042	z 2470.406	
#2	.0055027	.0033684	-.000024	z 2460.208	
#3	.0051854	.0032823	-.000075	z 2457.218	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3988.826	106850.6	14821.96	3994.418	5681.082
Stddev	4.069	293.5	213.45	6.432	7.618
%RSD	.1020069	.2747165	1.440084	.1610359	.1340917
#1	3992.013	106512.0	14580.70	3987.228	5676.460
#2	3984.243	107007.3	14898.92	3996.401	5676.911
#3	3990.221	107032.6	14986.25	3999.626	5689.874

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1800-01 Acquired: 3/21/2024 16:07:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0155749**	**-.004488**	**.0576204**	**-.003636**	**.0055507**	**4.984616**
Stddev	.0033397	.001971	.0013579	.000727	.0005462	.011346
%RSD	21.44272	43.92123	2.356544	19.98726	9.839333	.2276218
#1	.0185643	-.006581	.0589350	-.004386	.0061694	4.973162
#2	.0119704	-.004217	.0562231	-.002936	.0051355	4.984836
#3	.0161902	-.002666	.0577031	-.003586	.0053472	4.995851

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2731589**	**.0003787**	**-.000082**	**141.9286**	**.0076411**	**.0049244**
Stddev	.0016571	.0000103	.000067	.6194	.0002471	.0004058
%RSD	.6066490	2.732214	81.93349	.4363882	3.234195	8.241425
#1	.2725715	.0003893	-.000080	141.3395	.0077083	.0053887
#2	.2718755	.0003686	-.000016	141.8720	.0073673	.0047470
#3	.2750297	.0003782	-.000150	142.5743	.0078476	.0046374

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0250129**	**7.382950**	**1.618202**	**18.50121**	**.0143783**	**-.000061**
Stddev	.0013746	.020351	.006330	.07866	.0004397	.000291
%RSD	5.495616	.2756507	.3911746	.4251381	3.057992	480.5866
#1	.0265673	7.361000	1.613381	18.41626	.0148681	.000087
#2	.0239575	7.401193	1.615856	18.51585	.0142490	.000127
#3	.0245140	7.386655	1.625370	18.57152	.0140177	-.000396

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**499.0127**	**.0160487**	**.1143362**	**20.43962**	**.7928164**	**.0510457**
Stddev	1.7476	.0000201	.0006094	.08673	.0053683	.0024465
%RSD	.3502215	.1250491	.5329836	.4243133	.6771133	4.792751
#1	497.8541	.0160565	.1144394	20.33949	.7888638	.0538704
#2	501.0229	.0160637	.1148874	20.49124	.7906574	.0495949
#3	498.1610	.0160259	.1136818	20.48812	.7989280	.0496719

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1800-01 Acquired: 3/21/2024 16:07:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003325	.2435905	F 26.39007	.0485637	1.880088	.0029368
Stddev	.000632	.0010920	.04893	.0029564	.104672	.0000986
%RSD	18.99877	.4482879	.1854175	6.087704	5.567395	3.357559
#1	-.003022	.2438043	26.33774	.0519715	2.000937	.0028247
#2	-.004051	.2424075	26.39777	.0466850	1.817970	.0030101
#3	-.002902	.2445598	26.43469	.0470345	1.821358	.0029756

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.8691505	z *****
Stddev	.0031494	-----
%RSD	.3623496	-----
#1	.8676909	z 2908.498
#2	.8669957	z 2918.764
#3	.8727648	z 2918.228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3467.193	95535.98	15038.98	3578.345	4368.721
Stddev	158.486	420.01	14.05	14.502	214.695
%RSD	4.571027	.4396405	.0934348	.4052744	4.914358
#1	3284.210	95343.32	15023.48	3570.980	4120.840
#2	3561.124	95246.85	15042.57	3569.003	4489.513
#3	3556.244	96017.76	15050.89	3595.052	4495.811

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159641BS Acquired: 3/21/2024 16:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8076733**	**2.190506**	**1.007067**	**2.021969**	**.8154218**	**2.011555**
Stddev	.0031043	.012750	.001518	.003764	.0032104	.014728
%RSD	.3843487	.5820734	.1507177	.1861424	.3937119	.7321822
#1	.8110869	2.179736	1.006866	2.026184	.8183403	1.994719
#2	.8050194	2.187196	1.005659	2.018944	.8159422	2.022053
#3	.8069136	2.204584	1.008675	2.020778	.8119830	2.017894

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2020769**	**.1922126**	**.1947285**	**1.041105**	**.4101497**	**.1903636**
Stddev	.0018715	.0006706	.0003743	.005467	.0005526	.0002132
%RSD	.9261407	.3488694	.1921986	.5250804	.1347292	.1119710
#1	.2000682	.1915734	.1950878	1.037994	.4097066	.1904659
#2	.2023910	.1921538	.1943409	1.037904	.4099737	.1901186
#3	.2037715	.1929107	.1947568	1.047417	.4107689	.1905064

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3099477**	**3.026683**	**.2028221**	**1.943168**	**.4870152**	**.0790702**
Stddev	.0007215	.023993	.0018562	.005650	.0005460	.0003192
%RSD	.2327650	.7927266	.9152076	.2907739	.1121206	.4037370
#1	.3106611	3.004772	.2006788	1.936932	.4867512	.0789688
#2	.3099635	3.022956	.2038698	1.944625	.4866514	.0788139
#3	.3092184	3.052322	.2039176	1.947947	.4876431	.0794278

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.081588**	**.2997092**	**.2131794**	**9.883292**	**.3021010**	**.4107423**
Stddev	.034561	.0019352	.0013675	.102277	.0016209	.0020292
%RSD	1.121516	.6456781	.6414667	1.034843	.5365311	.4940380
#1	3.044952	.2976388	.2118530	9.773611	.3002300	.4130610
#2	3.086204	.3000167	.2145845	9.900212	.3030786	.4098753
#3	3.113609	.3014723	.2131009	9.976054	.3029943	.4092906

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159641BS Acquired: 3/21/2024 16:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6743912	.2048320	.9722009	F .5767114	F .0014515	F .0236757
Stddev	.0018712	.0014618	.0127749	.0004425	.0000738	.0004478
%RSD	.2774643	.7136531	1.314022	.0767268	5.082690	1.891468
#1	.6726939	.2031446	.9656550	.5772177	.0014900	.0231651
#2	.6740818	.2056414	.9640255	.5763984	.0013665	.0238607
#3	.6763977	.2057101	.9869221	.5765182	.0014982	.0240014

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.1999846	z *****
Stddev	.0016705	-----
%RSD	.8352951	-----
#1	.1981371	z 12616.01
#2	.2004283	z 12619.10
#3	.2013884	z 12650.67

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3966.840	105429.3	15357.91	3959.331	5505.970
Stddev	15.541	219.3	27.91	5.841	7.734
%RSD	.3917697	.2080488	.1817572	.1475136	.1404683
#1	3951.155	105609.9	15355.80	3957.309	5497.079
#2	3967.132	105492.9	15386.83	3965.914	5509.693
#3	3982.233	105185.3	15331.12	3954.770	5511.139

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01 Acquired: 3/21/2024 16:19:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0348737	-.050864	.5475082	-.048480	-.003635	187.6081	1.539524
Stddev	.0016854	.002754	.0037151	.003002	.001209	3.1040	.060101
%RSD	4.832716	5.414607	.6785533	6.192749	33.24832	1.654534	3.903868
#1	.0330626	-.049091	.5517410	-.046983	-.004788	189.0537	1.508092
#2	.0351626	-.049464	.5447879	-.051936	-.003740	184.0450	1.501657
#3	.0363960	-.054036	.5459956	-.046521	-.002378	189.7258	1.608823

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183051	.0099840	49.87862	.3102387	.2791253	.3127203	395.0263
Stddev	.0004778	.0035282	1.74031	.0178275	.0016843	.0025743	17.6365
%RSD	2.610192	35.33875	3.489087	5.746367	.6034135	.8232077	4.464629
#1	.0179958	.0139378	48.96708	.3002398	.2805106	.3153950	376.0835
#2	.0180641	.0071561	48.78343	.3308213	.2796148	.3125060	410.9725
#3	.0188554	.0088582	51.88535	.2996549	.2772505	.3102597	398.0229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.394269	108.6610	.5719189	-.033084	6.381638	.5321306	1.257584
Stddev	.245520	4.1676	.0026198	.003381	.298550	.0211533	.066592
%RSD	3.839692	3.835408	.4580776	10.21892	4.678260	3.975201	5.295241
#1	6.275888	106.7644	.5743945	-.032779	6.156838	.5213829	1.219132
#2	6.230368	105.7791	.5721868	-.036607	6.720380	.5185090	1.334478
#3	6.676551	113.4396	.5691754	-.029866	6.267697	.5564999	1.219143

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.42000	.0997319	.0043344	.0595750	4.851225	5.577952	.4164258
Stddev	1.20907	.0747855	.0001052	.0006816	.193415	.298774	.0034069
%RSD	4.756369	74.98651	2.427306	1.144044	3.986938	5.356348	.8181343
#1	24.52560	.0451059	.0044525	.0588738	4.758619	5.254274	.4199795
#2	26.79558	.1849662	.0043001	.0596163	4.721525	5.843187	.4161104
#3	24.93882	.0691237	.0042506	.0602351	5.073533	5.636394	.4131876

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01 Acquired: 3/21/2024 16:19:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5459089	.0647420	-.133203	z *****
Stddev	.0051514	.0027711	.019463	-----
%RSD	.9436349	4.280208	14.61118	-----
#1	.5518407	.0633245	-.119735	z 5449.930
#2	.5433263	.0629664	-.155517	z 5476.823
#3	.5425597	.0679351	-.124357	z 5441.385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4743.033	122951.8	19223.00	4603.281	4726.001
Stddev	10.077	5360.9	565.46	194.809	18.054
%RSD	.2124549	4.360169	2.941597	4.231954	.3820104
#1	4744.129	126270.7	19403.73	4734.531	4708.527
#2	4732.452	116767.1	19676.00	4379.446	4724.892
#3	4752.516	125817.6	18589.26	4695.867	4744.584

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV05 Acquired: 3/21/2024 16:29:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.016046**	**5.370735**	**5.108521**	**5.112307**	**5.157363**	**10.32876**
Stddev	.099475	.099936	.092693	.092964	.102086	.05609
%RSD	1.983142	1.860758	1.814487	1.818439	1.979414	.5430544
#1	5.128543	5.479459	5.215205	5.218837	5.273796	10.26714
#2	4.939706	5.349865	5.047697	5.047603	5.083209	10.37684
#3	4.979889	5.282882	5.062661	5.070481	5.115085	10.34231

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.14214**	**.2474848**	**2.530256**	**25.53637**	**1.030913**	**2.514309**
Stddev	.13796	.0013752	.045351	.14321	.003897	.048096
%RSD	1.360247	.5556671	1.792351	.5608262	.3780052	1.912905
#1	9.98519	.2459026	2.582532	25.37181	1.034259	2.569592
#2	10.19701	.2481589	2.501451	25.63280	1.031846	2.482070
#3	10.24421	.2483928	2.506784	25.60450	1.026634	2.491266

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.255868**	**5.197770**	**2.516821**	**25.15404**	**2.549380**	**1.301819**
Stddev	.022911	.019766	.018528	.19425	.047326	.002313
%RSD	1.824326	.3802835	.7361759	.7722514	1.856374	.1776698
#1	1.282084	5.207496	2.495943	24.93398	2.603863	1.304111
#2	1.239681	5.210788	2.523213	25.30170	2.518469	1.301859
#3	1.245840	5.175025	2.531306	25.22643	2.525808	1.299486

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.74616**	**2.549720**	**2.600774**	**25.91282**	**5.185046**	**5.069020**
Stddev	.07964	.016700	.012739	.09159	.044741	.088620
%RSD	.3093368	.6549618	.4898275	.3534359	.8628821	1.748258
#1	25.82861	2.530724	2.615324	25.97563	5.134287	5.169740
#2	25.74022	2.562088	2.595373	25.95510	5.202100	5.003008
#3	25.66965	2.556349	2.591626	25.80774	5.218753	5.034312

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV05 Acquired: 3/21/2024 16:29:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.037116**	**5.132125**	F **5.880197**	F **3.853417**	F **3.787875**	F **3.993729**
Stddev	.090537	.023376	.030868	.071918	.076362	.038143
%RSD	1.797390	.4554824	.5249409	1.866340	2.015950	.9550785
#1	5.141534	5.105226	5.891701	3.935680	3.875973	3.952782
#2	4.980489	5.143639	5.903661	3.802447	3.740639	4.028252
#3	4.989325	5.147511	5.845230	3.822126	3.747013	4.000154

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.077913**	z *****
Stddev	.025893	-----
%RSD	.5099195	-----
#1	5.051533	z 20065.86
#2	5.078914	z 20099.54
#3	5.103291	z 20079.24

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3766.096**	**101032.1**	**14808.55**	**3816.850**	**4848.283**
Stddev	61.486	365.4	83.33	21.152	80.485
%RSD	1.632626	.3616810	.5627326	.5541847	1.660067
#1	3697.060	100696.7	14904.65	3792.481	4755.759
#2	3814.970	100977.9	14764.72	3827.603	4902.109
#3	3786.259	101421.5	14756.27	3830.466	4886.982

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB05 Acquired: 3/21/2024 16:33:54 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001299**	**-.000918**	**.0004305**	**.0000910**	**.0009011**	**.0046584**	**-.000274**
Stddev	.001304	.001664	.0003919	.0010349	.0012248	.0024388	.000252
%RSD	100.3902	181.3121	91.01308	1137.161	135.9343	52.35234	92.06516
#1	-.002606	.000964	.0008126	-.000886	.0022730	.0074208	-.000423
#2	-.001292	-.001521	.0004494	.001176	-.000083	.0028033	-.000417
#3	.000001	-.002196	.0000296	-.000017	.000513	.0037511	.000017

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000467**	**.0000484**	**.0087490**	**-.000005**	**.0000185**	**.0001306**	**.0002738**
Stddev	.0000653	.0000636	.0072550	.000343	.0000919	.0003653	.0019165
%RSD	139.6641	131.4197	82.92358	6274.647	497.5747	279.7183	699.9702
#1	.0000573	.0000808	.0005536	.000136	-.000037	.0001606	.0023745
#2	-.000023	-.000025	.0143506	.000244	.000125	.0004800	-.001379
#3	.000106	.000089	.0113427	-.000396	-.000032	-.000249	-.000174

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000105**	**-.009917**	**-.000049**	**.0006320**	**.1252557**	**.0005793**	**-.000076**
Stddev	.000065	.008521	.000305	.0005462	.0056233	.0014580	.000304
%RSD	61.85276	85.92053	624.2653	86.42256	4.489490	251.6873	398.5594
#1	-.000097	-.000163	.000152	.0005940	.1254253	.0020994	.000198
#2	-.000044	-.013674	-.000400	.0011963	.1307924	.0004459	-.000024
#3	-.000173	-.015913	.000102	.0001058	.1195495	-.000807	-.000403

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0459624**	**.0073379**	**.0002276**	**.0026959**	**.0011132**	**.0241369**	**.0002030**
Stddev	.0100746	.0005493	.0001769	.0005247	.0002463	.0073421	.0001093
%RSD	21.91920	7.486015	77.71318	19.46325	22.12177	30.41850	53.82786
#1	.0510109	.0076460	.0001776	.0027705	.0013852	.0175350	.0001733
#2	.0525145	.0076641	.0000811	.0031794	.0010491	.0228315	.0001116
#3	.0343617	.0067037	.0004241	.0021379	.0009054	.0320441	.0003240

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB05 Acquired: 3/21/2024 16:33:54 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0005044	.0036015	.0003890	z *****	
Stddev	.0000778	.0000804	.0000387	-----	
%RSD	15.41756	2.231175	9.949278	-----	
#1	.0004216	.0036240	.0004220	z 2431.401	
#2	.0005759	.0036682	.0003985	z 2442.046	
#3	.0005156	.0035123	.0003464	z 2456.572	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3979.062	108995.1	15375.54	4063.316	5664.050
Stddev	10.771	593.5	414.03	7.164	14.447
%RSD	.2707015	.5444881	2.692770	.1763093	.2550661
#1	3966.916	109088.2	15724.06	4062.812	5647.543
#2	3987.456	109536.5	14917.88	4070.718	5670.219
#3	3982.813	108360.6	15484.69	4056.417	5674.389

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: LR1 Acquired: 3/21/2024 16:59:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0387115**	**-.075451**	**-.074146**	**-.123475**	**-.007485**	**1947.222**
Stddev	.0042848	.004012	.008275	.019498	.010720	47.113
%RSD	11.06857	5.316870	11.16067	15.79124	143.2221	2.419499
#1	.0397696	-.071264	-.079953	-.128215	.001634	1908.936
#2	.0423680	-.079260	-.064670	-.140166	-.019294	1999.836
#3	.0339967	-.075829	-.077814	-.102044	-.004795	1932.895

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074640**	**.0094947**	**.0381189**	**1662.931**	**-.087524**	**.0538534**
Stddev	.0002051	.0003012	.0060580	42.096	.003163	.0015437
%RSD	2.747640	3.171925	15.89233	2.531430	3.613727	2.866517
#1	.0072444	.0091767	.0396505	1633.673	-.084115	.0525174
#2	.0076506	.0097756	.0314422	1711.176	-.090363	.0534996
#3	.0074972	.0095318	.0432642	1643.943	-.088093	.0555434

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.032315**	F **1029.706**	**-.009348**	**1675.571**	**.0780649**	**-.099216**
Stddev	.002789	29.323	.000538	52.965	.0020410	.001748
%RSD	8.630396	2.847694	5.753248	3.161010	2.614506	1.761808
#1	-.031040	996.006	-.009011	1637.910	.0762668	-.097320
#2	-.035513	1049.393	-.009969	1736.133	.0776445	-.100763
#3	-.030391	1043.719	-.009065	1652.670	.0802834	-.099565

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2128.519**	**.0164340**	**.0863366**	F **1580.462**	^ *****	**.0058360**
Stddev	50.603	.0007296	.0021781	28.396	-----	.0004205
%RSD	2.377396	4.439726	2.522776	1.796713	-----	7.204379
#1	2070.410	.0163870	.0838242	1550.324	^ -----	.0054273
#2	2162.883	.0157289	.0874936	1606.716	^ -----	.0058133
#3	2152.265	.0171859	.0876921	1584.347	^ -----	.0062673

Reviewed By:
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Sample Name: LR1 Acquired: 3/21/2024 16:59:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038854	-.029023	-.989902	.0044674	-.186186	.0029853
Stddev	.0013648	.000556	.016381	.0012002	.005350	.0001396
%RSD	35.12717	1.917331	1.654826	26.86592	2.873345	4.676038
#1	.0052200	-.028401	-.972442	.0030945	-.180045	.0028550
#2	.0024922	-.029474	-1.00493	.0049895	-.189835	.0029682
#3	.0039441	-.029193	-.99233	.0053180	-.188679	.0031326

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-1.01772	z *****
Stddev	.02909	-----
%RSD	2.858615	-----
#1	-.98426	z 4647.932
#2	-1.03702	z 4669.998
#3	-1.03188	z 4654.724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2642.521	73725.22	13270.97	2717.264	2925.389
Stddev	77.545	1698.94	364.29	66.206	85.515
%RSD	2.934513	2.304424	2.745018	2.436486	2.923216
#1	2695.775	75673.08	13551.57	2792.666	2985.580
#2	2678.234	72549.35	12859.28	2668.649	2963.084
#3	2553.554	72953.23	13402.08	2690.477	2827.502

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: LR2 Acquired: 3/21/2024 17:06:03 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005140**	**-.032132**	F **26.48391**	**-.036414**	**.0112180**	**.2303726**
Stddev	.001995	.003042	.02164	.003158	.0012412	.0219295
%RSD	38.81291	9.467412	.0817178	8.671730	11.06466	9.519125
#1	-.002842	-.034778	26.45894	-.038997	.0125167	.2556792
#2	-.006149	-.028808	26.49559	-.037352	.0110937	.2184824
#3	-.006428	-.032809	26.49721	-.032894	.0100436	.2169561

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**98.50928**	**-.000553**	**-.005314**	**.4223178**	**.0159854**	**-.001187**
Stddev	.65211	.000014	.000114	.0258218	.0003101	.000116
%RSD	.6619753	2.546045	2.148872	6.114308	1.940046	9.765260
#1	97.75674	-.000552	-.005183	.4521030	.0156809	-.001156
#2	98.90793	-.000568	-.005392	.4062430	.0163008	-.001316
#3	98.86318	-.000540	-.005367	.4086074	.0159745	-.001090

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**261.8599**	**.2245726**	**46.66772**	**.1267408**	**48.18612**	**.0078318**
Stddev	.1524	.0159479	.24055	.0214886	.03158	.0005735
%RSD	.0581827	7.101434	.5154591	16.95478	.0655373	7.322418
#1	262.0292	.2418624	46.81233	.1515237	48.14984	.0073037
#2	261.7338	.2214169	46.39004	.1154074	48.20103	.0077500
#3	261.8167	.2104385	46.80080	.1132914	48.20748	.0084419

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.757485**	**-.013482**	F **24.40958**	**2.011079**	**-.006705**	**-.002458**
Stddev	.003313	.000857	.09098	.046508	.000322	.000140
%RSD	.1885028	6.357492	.3727337	2.312586	4.797598	5.677431
#1	1.755515	-.014054	24.41663	2.057817	-.006795	-.002455
#2	1.755629	-.012497	24.31527	1.964804	-.006347	-.002599
#3	1.761309	-.013896	24.49683	2.010616	-.006971	-.002320

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: LR2 Acquired: 3/21/2024 17:06:03 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: LR2 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001081**	**-.023937**	**.0135760**	**-.266931**	**-.201228**	**.0012331**
Stddev	.000301	.000508	.0034190	.000730	.000748	.0000633
%RSD	27.82137	2.123779	25.18379	.2735665	.3719297	5.133874
#1	-.000857	-.023369	.0171562	-.266237	-.201723	.0012046
#2	-.000963	-.024349	.0103451	-.267693	-.200367	.0011891
#3	-.001423	-.024094	.0132268	-.266864	-.201594	.0013057

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.0012127**	z *****
Stddev	.0000408	-----
%RSD	3.361694	-----
#1	.0011750	z 2570.907
#2	.0012560	z 2564.058
#3	.0012071	z 2586.391

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3635.646**	**101647.7**	**14961.26**	**3652.995**	**5182.411**
Stddev	2.502	213.3	58.71	1.697	5.296
%RSD	.0688214	.2098371	.3923940	.0464528	.1021834
#1	3637.110	101584.4	14942.01	3651.209	5187.998
#2	3637.072	101885.5	15027.17	3653.190	5181.767
#3	3632.757	101473.3	14914.59	3654.586	5177.466

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01MS Acquired: 3/21/2024 17:11:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6564871	1.955567	1.524652	1.484422	.6358091	189.9403	1.688625
Stddev	.0029905	.015183	.004610	.003460	.0015084	.9086	.001496
%RSD	.4555250	.7763953	.3023954	.2330655	.2372362	.4783491	.0885721
#1	.6591609	1.973079	1.524761	1.486401	.6374704	190.1868	1.686949
#2	.6570426	1.947525	1.519988	1.486439	.6345254	188.9339	1.689823
#3	.6532578	1.946097	1.529207	1.480428	.6354315	190.7002	1.689104

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1607784	.2078053	49.70349	.5993002	.4689082	.5283138	386.9535
Stddev	.0003876	.0006360	.05876	.0005648	.0003411	.0011284	1.1348
%RSD	.2410810	.3060746	.1182176	.0942345	.0727401	.2135775	.2932584
#1	.1607798	.2079715	49.76165	.5999509	.4687819	.5295234	385.9207
#2	.1603901	.2071026	49.64415	.5990117	.4686482	.5272897	388.1683
#3	.1611653	.2083417	49.70468	.5989380	.4692944	.5281284	386.7715

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.470719	107.7107	1.055104	.0327149	9.086323	.7468912	1.348320
Stddev	.004790	.2654	.001395	.0003609	.047667	.0048091	.003205
%RSD	.0740316	.2463637	.1322048	1.103103	.5245994	.6438806	.2377374
#1	6.465391	107.9522	1.055788	.0323007	9.057119	.7475527	1.349455
#2	6.472097	107.4266	1.053499	.0329616	9.141329	.7417855	1.350804
#3	6.474670	107.7534	1.056025	.0328825	9.060522	.7513352	1.344702

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.35748	.3175290	.3106942	.7322288	4.915552	4.910754	1.004964
Stddev	.10157	.0086633	.0006361	.0032291	.012335	.064658	.004061
%RSD	.3044908	2.728349	.2047478	.4409996	.2509336	1.316664	.4041215
#1	33.36413	.3172504	.3111695	.7355617	4.902932	4.947985	1.003205
#2	33.45557	.3263282	.3099715	.7291146	4.916146	4.836093	1.002079
#3	33.25275	.3090084	.3109415	.7320102	4.927580	4.948183	1.009608

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01MS Acquired: 3/21/2024 17:11:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5475059	.0817769	.0284281	z *****
Stddev	.0018768	.0001987	.0009968	-----
%RSD	.3427916	.2429191	3.506448	-----
#1	.5488509	.0815625	.0287731	z 14279.68
#2	.5453618	.0818135	.0273046	z 14270.83
#3	.5483050	.0819547	.0292066	z 14251.10

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4656.761	124231.6	19333.98	4636.811	4565.246
Stddev	8.346	85.2	48.42	10.294	13.819
%RSD	.1792144	.0685477	.2504176	.2220013	.3027008
#1	4662.471	124304.7	19356.04	4648.673	4573.658
#2	4660.628	124138.1	19367.45	4630.219	4572.782
#3	4647.183	124251.8	19278.47	4631.542	4549.297

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01MSD Acquired: 3/21/2024 17:16:00 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6748875**	**1.987625**	**1.548002**	**1.526234**	**.6398666**	**188.9153**	**1.699591**
Stddev	.0017776	.017231	.003143	.002878	.0052883	.6043	.002902
%RSD	.2633898	.8669270	.2030525	.1885399	.8264740	.3198610	.1707465
#1	.6766324	2.006750	1.550240	1.529529	.6351609	188.5655	1.701982
#2	.6730790	1.973311	1.549357	1.524217	.6455898	188.5673	1.696362
#3	.6749511	1.982813	1.544408	1.524956	.6388492	189.6130	1.700429

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1645362**	**.2123882**	**49.68409**	**.6036892**	**.4742819**	**.5332046**	**387.3737**
Stddev	.0004578	.0015345	.11686	.0004457	.0019119	.0005798	3.9368
%RSD	.2782447	.7225035	.2352017	.0738204	.4031239	.1087319	1.016275
#1	.1644460	.2137461	49.57001	.6034920	.4762463	.5335788	383.2885
#2	.1650324	.2126951	49.80354	.6033762	.4741721	.5334982	387.6894
#3	.1641302	.2107234	49.67871	.6041994	.4724272	.5325368	391.1431

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.496373**	**107.6053**	**1.064899**	**.0341260**	**9.038844**	**.7542069**	**1.346323**
Stddev	.003017	.3255	.002999	.0002616	.036441	.0003715	.002695
%RSD	.0464418	.3024963	.2816409	.7666836	.4031580	.0492613	.2002079
#1	6.498744	107.3994	1.067248	.0338244	9.041504	.7543091	1.348373
#2	6.497398	107.9805	1.065929	.0342604	9.001146	.7545166	1.343269
#3	6.492977	107.4359	1.061521	.0342931	9.073882	.7537949	1.347326

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.40002**	**.3251410**	**.3155291**	**.7396567**	**4.934616**	**5.052136**	**1.018249**
Stddev	.07621	.0191582	.0008894	.0035021	.009743	.076471	.004336
%RSD	.2281623	5.892276	.2818701	.4734738	.1974380	1.513643	.4258475
#1	33.35357	.3057733	.3164763	.7435697	4.929184	5.107375	1.023248
#2	33.35853	.3255672	.3153992	.7385841	4.945864	4.964856	1.015515
#3	33.48797	.3440826	.3147119	.7368164	4.928800	5.084177	1.015983

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01MSD Acquired: 3/21/2024 17:16:00 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5443536	.0823370	.0340005	z *****
Stddev	.0030711	.0003487	.0040706	-----
%RSD	.5641818	.4235629	11.97216	-----
#1	.5470142	.0822666	.0384076	z 14573.04
#2	.5450538	.0820287	.0332122	z 14556.37
#3	.5409928	.0827155	.0303817	z 14568.62

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4663.818	124471.9	19259.86	4677.408	4591.099
Stddev	4.102	191.0	62.01	5.454	8.336
%RSD	.0879478	.1534469	.3219774	.1165938	.1815632
#1	4663.902	124621.9	19227.38	4672.121	4583.228
#2	4659.675	124256.9	19220.83	4683.014	4590.236
#3	4667.877	124536.8	19331.36	4677.087	4599.832

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01A Acquired: 3/21/2024 17:20:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7012704**	**2.094902**	**1.591749**	**1.587221**	**.6686832**	**188.9502**	**1.701593**
Stddev	.0028417	.013360	.004952	.010651	.0052008	.4108	.002843
%RSD	.4052182	.6377365	.3111104	.6710207	.7777688	.2174097	.1670912
#1	.6987942	2.104989	1.589672	1.593202	.6727079	188.8698	1.698644
#2	.7006438	2.099966	1.588174	1.574924	.6628108	188.5856	1.704317
#3	.7043730	2.079750	1.597401	1.593536	.6705308	189.3953	1.701820

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1678934**	**.2206180**	**49.64927**	**.6099334**	**.4834833**	**.5461519**	**385.7001**
Stddev	.0009700	.0009313	.09420	.0026685	.0018855	.0022938	2.1965
%RSD	.5777441	.4221146	.1897276	.4375015	.3899759	.4199894	.5694893
#1	.1682366	.2209880	49.58511	.6115070	.4845632	.5455904	384.0659
#2	.1667985	.2195586	49.60528	.6114408	.4813061	.5441910	388.1970
#3	.1686452	.2213074	49.75741	.6068523	.4845805	.5486743	384.8374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.492602**	**107.4034**	**1.088755**	**.0351713**	**9.031360**	**.7604572**	**1.355690**
Stddev	.002895	.3021	.002581	.0006666	.069937	.0019696	.002172
%RSD	.0445909	.2812800	.2370504	1.895323	.7743758	.2589998	.1601918
#1	6.492952	107.3041	1.090041	.0344059	9.018448	.7586425	1.356806
#2	6.489547	107.1634	1.085784	.0356246	9.106853	.7601772	1.357077
#3	6.495305	107.7426	1.090441	.0354834	8.968779	.7625517	1.353187

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.66027**	**.3293920**	**.3274923**	**.7685306**	**4.949786**	**5.636492**	**1.043847**
Stddev	.24886	.0172963	.0007070	.0017082	.007971	.065166	.001772
%RSD	.7393236	5.250981	.2158792	.2222748	.1610283	1.156148	.1697893
#1	33.59559	.3190453	.3278444	.7694908	4.942850	5.565016	1.042548
#2	33.93508	.3493597	.3266784	.7665583	4.958493	5.692603	1.043127
#3	33.45013	.3197712	.3279542	.7695426	4.948014	5.651856	1.045866

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01A Acquired: 3/21/2024 17:20:20 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5535741	.0824888	.0396734	z *****
Stddev	.0021789	.0002232	.0018499	-----
%RSD	.3935980	.2705893	4.662785	-----
#1	.5549906	.0825313	.0405908	z 14825.08
#2	.5510652	.0826877	.0375441	z 14798.45
#3	.5546666	.0822474	.0408852	z 14751.85

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4614.903	124502.8	19326.05	4668.019	4540.389
Stddev	8.721	533.4	65.04	3.453	11.509
%RSD	.1889832	.4283855	.3365369	.0739755	.2534719
#1	4614.042	124394.8	19305.48	4671.398	4542.460
#2	4624.024	124031.7	19398.89	4668.162	4550.721
#3	4606.645	125081.9	19273.79	4664.496	4527.985

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1803-02 Acquired: 3/21/2024 17:24:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000238**	**.0010416**	**.0073865**	**-.002265**	**-.000158**	**.1634119**	**.1317668**
Stddev	.001427	.0026376	.0003772	.002116	.001318	.0079599	.0006255
%RSD	598.8546	253.2411	5.107349	93.41591	834.8825	4.871056	.4747347
#1	-.001125	.0040253	.0069967	-.001242	.001355	.1698090	.1311536
#2	-.000998	-.000980	.0074128	-.004698	-.001058	.1659289	.1317427
#3	.001408	.000079	.0077498	-.000855	-.000771	.1544978	.1324040

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000688**	**.0003010**	**5.812305**	**.0087483**	**.0034609**	**.0093877**	**.1760887**
Stddev	.0000089	.0000239	.039774	.0001138	.0000749	.0003159	.0067296
%RSD	12.94052	7.940230	.6843077	1.301250	2.163902	3.365428	3.821723
#1	.0000614	.0003173	5.776758	.0088784	.0034276	.0097421	.1832268
#2	.0000787	.0003122	5.804893	.0086991	.0034084	.0092857	.1751792
#3	.0000663	.0002736	5.855264	.0086673	.0035466	.0091354	.1698601

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0562802**	**.6938366**	**.0043231**	**.0006389**	**337.4761**	**.0023412**	**.0850698**
Stddev	.0002762	.0179876	.0000198	.0004238	1.7010	.0007076	.0003443
%RSD	.4908125	2.592482	.4583220	66.33630	.5040471	30.22252	.4047579
#1	.0559667	.7063537	.0043074	.0004952	335.5130	.0019507	.0847071
#2	.0563861	.6732238	.0043165	.0003055	338.5156	.0031579	.0851102
#3	.0564878	.7019323	.0043453	.0011158	338.3997	.0019149	.0853922

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7453808**	**.0035271**	**.0002600**	**-.002132**	**.0067328**	**.7443048**	**.0014453**
Stddev	.0170639	.0007310	.0002264	.000495	.0006922	.0196549	.0000581
%RSD	2.289283	20.72432	87.07192	23.19926	10.28106	2.640704	4.016144
#1	.7386516	.0029878	.0004159	-.002067	.0067498	.7563232	.0013823
#2	.7327076	.0032344	.0003638	-.001674	.0074163	.7549683	.0014967
#3	.7647833	.0043591	.0000003	-.002657	.0060322	.7216227	.0014569

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1803-02 Acquired: 3/21/2024 17:24:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0164836	-.000085	.0412408	z *****
Stddev	.0004836	.000067	.0002549	-----
%RSD	2.933919	77.99961	.6180648	-----
#1	.0167982	-.000033	.0409607	z 2405.727
#2	.0167258	-.000062	.0413027	z 2432.099
#3	.0159267	-.000160	.0414590	z 2406.942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3800.076	100931.6	15449.50	3821.001	4956.950
Stddev	5.029	49.7	52.31	5.894	7.873
%RSD	.1323355	.0492392	.3386047	.1542480	.1588334
#1	3797.003	100979.2	15453.17	3821.315	4960.972
#2	3805.879	100935.7	15499.88	3826.731	4961.999
#3	3797.345	100880.1	15395.45	3814.956	4947.878

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-01DLX5 Acquired: 3/21/2024 17:29:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000119**	**-.000496**	**.0006580**	**.0023902**	**-.000058**	**.0636094**	**-.002212**
Stddev	.001481	.000895	.0008423	.0028222	.001345	.0014566	.000232
%RSD	1243.104	180.4268	128.0166	118.0757	2329.730	2.289848	10.49942
#1	.001404	-.000758	-.000279	.0048767	.001300	.0650089	-.002458
#2	-.000206	.000501	.000901	-.000677	-.000083	.0637174	-.002180
#3	-.001555	-.001231	.001352	.002971	-.001391	.0621018	-.001997

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**-.000119**	**.0344797**	**-.000014**	**-.000014**	**.0162280**	**.2719332**
Stddev	.000051	.000011	.0093224	.000209	.000073	.0000648	.0050902
%RSD	372.3676	9.082114	27.03746	1473.786	530.6365	.3989992	1.871870
#1	.000023	-.000129	.0318917	-.000241	-.000086	.0161673	.2759196
#2	.000008	-.000120	.0267246	.000171	-.000015	.0162961	.2736805
#3	-.000072	-.000107	.0448226	.000027	.000060	.0162205	.2661994

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000708**	**-.020612**	**-.000047**	**.0004986**	**.5795932**	**.0010157**	**.0440404**
Stddev	.0000457	.010041	.000085	.0002359	.0067893	.0011991	.0012919
%RSD	64.50247	48.71393	182.6103	47.32335	1.171387	118.0484	2.933431
#1	.0001142	-.020210	-.000023	.0003419	.5751526	-.000148	.0445588
#2	.0000231	-.010778	.000024	.0003839	.5874086	.000947	.0449925
#3	.0000752	-.030847	-.000141	.0007699	.5762183	.002248	.0425698

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5072344**	**-.004545**	**.0017713**	**.0020983**	**.0018801**	**.0405008**	**.0030657**
Stddev	.0202733	.000798	.0001835	.0008958	.0003315	.0118747	.0001025
%RSD	3.996827	17.54735	10.36069	42.69024	17.62946	29.31960	3.341629
#1	.4838272	-.005095	.0015602	.0021779	.0015054	.0433958	.0029476
#2	.5186493	-.003630	.0018609	.0011654	.0020000	.0506604	.0031192
#3	.5192267	-.004910	.0018927	.0029516	.0021350	.0274464	.0031304

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-01DLX5 Acquired: 3/21/2024 17:29:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0107320	.0015265	-.000352	z *****
Stddev	.0001080	.0000771	.000028	-----
%RSD	1.006724	5.050541	8.048378	-----
#1	.0106241	.0014402	-.000324	z 2357.857
#2	.0108402	.0015886	-.000380	z 2359.206
#3	.0107317	.0015507	-.000354	z 2358.661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4032.174	104664.4	15039.56	3902.797	5831.725
Stddev	35.250	2487.3	205.43	98.572	55.234
%RSD	.8742092	2.376465	1.365918	2.525671	.9471260
#1	3993.775	103636.3	15274.45	3865.029	5772.426
#2	4039.684	102855.9	14950.78	3828.693	5841.039
#3	4063.064	107500.9	14893.45	4014.668	5881.709

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-02 Acquired: 3/21/2024 17:33:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013157	.0016658	.0017294	.0013894	.0048432	.1200128	.1515020
Stddev	.0017837	.0016994	.0005293	.0018396	.0020345	.0041346	.0006926
%RSD	135.5769	102.0174	30.60593	132.4000	42.00757	3.445103	.4571428
#1	.0014000	.0021854	.0017627	-.000614	.0063814	.1158233	.1507293
#2	-.000509	-.000233	.0022412	.001781	.0056117	.1240901	.1520669
#3	.003056	.003045	.0011842	.003002	.0025363	.1201251	.1517099

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	.0007231	6.497308	.0219272	.0022950	.0260008	.1633462
Stddev	.000041	.0000218	.050222	.0002079	.0004031	.0001998	.0089811
%RSD	22.33005	3.008790	.7729649	.9479808	17.56351	.7682545	5.498169
#1	-.000143	.0007353	6.444626	.0217220	.0019417	.0261525	.1675114
#2	-.000185	.0006980	6.544641	.0221377	.0027341	.0257745	.1694885
#3	-.000225	.0007361	6.502658	.0219220	.0022092	.0260755	.1530388

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0826964	.8679638	.0102224	.0001555	386.3693	.0012075	1.914363
Stddev	.0006792	.0052551	.0002369	.0001298	.6738	.0007934	.009369
%RSD	.8212878	.6054477	2.317026	83.46327	.1743934	65.70354	.4894302
#1	.0819563	.8740316	.0101869	.0000156	386.9159	.0003641	1.904768
#2	.0832912	.8648900	.0100053	.0002720	385.6165	.0013196	1.914833
#3	.0828417	.8649697	.0104750	.0001789	386.5754	.0019390	1.923489

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.82760	.0722216	.9225041	.0018988	.0005352	.3358669	.0439328
Stddev	.07733	.0008931	.0020168	.0004650	.0003216	.0183577	.0006531
%RSD	.1583732	1.236552	.2186195	24.49057	60.08557	5.465759	1.486671
#1	48.78743	.0718877	.9236481	.0018801	.0009065	.3382706	.0436882
#2	48.77862	.0732335	.9201754	.0014434	.0003559	.3164258	.0434373
#3	48.91675	.0715435	.9236887	.0023729	.0003433	.3529044	.0446730

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-02 Acquired: 3/21/2024 17:33:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2813993	.0017053	.0337322	z *****
Stddev	.0010420	.0001539	.0000471	-----
%RSD	.3702783	9.023120	.1395718	-----
#1	.2810373	.0016599	.0336842	z 2377.719
#2	.2805867	.0018767	.0337783	z 2377.049
#3	.2825740	.0015792	.0337343	z 2387.295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3622.608	96468.35	14730.59	3642.187	4793.655
Stddev	2.535	437.12	93.59	9.136	8.657
%RSD	.0699865	.4531188	.6353115	.2508382	.1805922
#1	3625.004	96929.84	14829.57	3649.346	4803.650
#2	3619.953	96414.64	14643.55	3645.317	4788.797
#3	3622.866	96060.58	14718.66	3631.897	4788.518

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-03 Acquired: 3/21/2024 17:38:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000804**	**-.000241**	**.0058116**	**.0027433**	**.0016287**	**.0288762**	**.7241404**
Stddev	.002437	.001262	.0019405	.0027316	.0005105	.0063957	.0020175
%RSD	303.1869	524.1093	33.38950	99.57468	31.34212	22.14871	.2786003
#1	-.003589	-.001655	.0035730	-.000021	.0011956	.0322953	.7218309
#2	.000935	.000162	.0070147	.005441	.0021915	.0328355	.7255591
#3	.000242	.000771	.0068471	.002809	.0014990	.0214977	.7250312

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007222**	**.0014595**	**30.98308**	**.0024995**	**.0068241**	**.0061335**	**.0289410**
Stddev	.0000063	.0000310	.20133	.0001404	.0000249	.0003372	.0043664
%RSD	.8698710	2.122152	.6498168	5.618608	.3643701	5.497133	15.08727
#1	.0007165	.0014762	30.75093	.0023546	.0068268	.0063246	.0338227
#2	.0007289	.0014237	31.08841	.0026350	.0067980	.0063317	.0254084
#3	.0007210	.0014785	31.10989	.0025090	.0068475	.0057442	.0275919

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3717637**	**9.715195**	**.0084786**	**.0006010**	**401.0080**	**.0017770**	**.8457167**
Stddev	.0023558	.121910	.0002055	.0003133	3.7566	.0010578	.0013418
%RSD	.6336794	1.254835	2.423664	52.13582	.9367994	59.52549	.1586587
#1	.3694858	9.577523	.0086459	.0009224	397.3441	.0016226	.8451059
#2	.3741903	9.758599	.0082492	.0002964	400.8289	.0008050	.8447889
#3	.3716151	9.809462	.0085406	.0005841	404.8510	.0029036	.8472552

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.139653**	**.1722708**	**.0002427**	**-.003350**	**-.000426**	**4.746387**	**.0025375**
Stddev	.059634	.0010655	.0000883	.001113	.000307	.038400	.0003734
%RSD	.6524800	.6185247	36.38696	33.22031	71.90138	.8090470	14.71378
#1	9.074777	.1712015	.0001413	-.003316	-.000460	4.702050	.0021290
#2	9.152102	.1722783	.0002838	-.002254	-.000715	4.768045	.0026223
#3	9.192081	.1733326	.0003029	-.004479	-.000105	4.769066	.0028611

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-03 Acquired: 3/21/2024 17:38:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2150241	.0008859	.2075761	z *****
Stddev	.0005428	.0000509	.0006148	-----
%RSD	.2524532	5.741874	.2961626	-----
#1	.2154030	.0008791	.2068713	z 2533.427
#2	.2144022	.0008387	.2080021	z 2542.515
#3	.2152670	.0009398	.2078547	z 2566.517

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3704.360	97285.79	15156.73	3684.227	4762.203
Stddev	4.548	153.44	29.96	6.906	3.628
%RSD	.1227838	.1577169	.1976692	.1874556	.0761846
#1	3701.742	97462.52	15187.27	3686.964	4758.832
#2	3709.612	97186.57	15127.39	3676.372	4761.733
#3	3701.726	97208.29	15155.54	3689.346	4766.043

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-04 Acquired: 3/21/2024 17:42:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002941**	**-.000186**	**.0049629**	**-.000433**	**-.001114**	**.1403129**	**.3198138**
Stddev	.002415	.000933	.0027962	.003081	.000179	.0142616	.0024138
%RSD	82.09704	502.6314	56.34078	711.6072	16.10748	10.16413	.7547582
#1	-.000185	.000884	.0023835	.000612	-.001092	.1451610	.3224748
#2	-.003957	-.000612	.0045710	.001990	-.001303	.1515184	.3192014
#3	-.004683	-.000829	.0079344	-.003901	-.000946	.1242593	.3177651

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000033**	**.0004473**	**97.32031**	**.0010099**	**.0030765**	**.0036873**	**.1379057**
Stddev	.000095	.0000754	.66083	.0001596	.0001330	.0002568	.0003269
%RSD	290.6884	16.85433	.6790221	15.80031	4.323869	6.963739	.2370760
#1	-.000051	.0003727	98.08269	.0011585	.0031606	.0033946	.1382165
#2	-.000117	.0004459	96.91120	.0008412	.0031458	.0037926	.1375648
#3	.000070	.0005235	96.96704	.0010301	.0029231	.0038747	.1379358

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3894859**	**2.901992**	**.0028466**	**.0002833**	**326.5405**	**.0028944**	**.6014592**
Stddev	.0030531	.038860	.0000658	.0002499	3.1837	.0007737	.0005153
%RSD	.7838841	1.339084	2.312447	88.22159	.9749719	26.73007	.0856748
#1	.3930004	2.887283	.0028736	.0005665	323.9464	.0020605	.6018882
#2	.3874889	2.872635	.0028947	.0001895	330.0934	.0030338	.6008876
#3	.3879683	2.946060	.0027716	.0000938	325.5816	.0035888	.6016018

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.734596**	**.0962410**	**.0005790**	**-.004906**	**.0034379**	**3.172269**	**.0079869**
Stddev	.018701	.0005719	.0002046	.000481	.0006989	.028480	.0001718
%RSD	1.078112	.5942781	35.33825	9.799733	20.32827	.8977716	2.151304
#1	1.721591	.0955821	.0008042	-.004437	.0027166	3.152730	.0080332
#2	1.756027	.0965315	.0004045	-.004882	.0034853	3.204946	.0077967
#3	1.726168	.0966093	.0005283	-.005398	.0041120	3.159131	.0081309

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-04 Acquired: 3/21/2024 17:42:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3011001	.0000519	.4211590	z *****
Stddev	.0006320	.0001351	.0036636	-----
%RSD	.2099143	260.4285	.8698902	-----
#1	.3011815	-.000075	.4253250	z 2712.782
#2	.3016876	.000194	.4197126	z 2722.006
#3	.3004313	.000037	.4184393	z 2729.930

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3687.166	96487.90	14680.12	3627.517	4724.436
Stddev	4.428	131.59	62.73	13.787	4.749
%RSD	.1201023	.1363838	.4272786	.3800604	.1005238
#1	3684.667	96446.24	14608.19	3617.691	4727.937
#2	3692.279	96382.18	14708.72	3621.582	4719.030
#3	3684.553	96635.28	14723.45	3643.277	4726.341

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV06 Acquired: 3/21/2024 17:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.787325**	**5.172297**	**5.001263**	**4.870847**	**5.004525**	**10.34433**
Stddev	.007282	.019400	.012142	.014008	.007492	.02970
%RSD	.1521119	.3750822	.2427723	.2875946	.1497062	.2871053
#1	4.787219	5.157828	4.998065	4.874421	4.997237	10.31797
#2	4.794660	5.164721	4.991041	4.882722	5.012206	10.37651
#3	4.780097	5.194343	5.014684	4.855398	5.004133	10.33850

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.31004**	**.2439948**	**2.469342**	**25.74272**	**1.021030**	**2.451630**
Stddev	.05607	.0008753	.003908	.11199	.000333	.003324
%RSD	.5438730	.3587425	.1582672	.4350231	.0325709	.1355912
#1	10.25814	.2442310	2.466147	25.61478	1.020647	2.448993
#2	10.30246	.2447279	2.468180	25.79045	1.021212	2.450534
#3	10.36952	.2430257	2.473700	25.82294	1.021232	2.455364

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.193027**	**5.251937**	**2.545190**	**25.14441**	**2.510837**	**1.311816**
Stddev	.001519	.043936	.003376	.12963	.005031	.001237
%RSD	.1273164	.8365642	.1326443	.5155466	.2003831	.0943121
#1	1.192031	5.201715	2.541418	24.99476	2.506561	1.310419
#2	1.194775	5.283271	2.546222	25.22227	2.509570	1.312774
#3	1.192274	5.270824	2.547929	25.21618	2.516381	1.312255

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.64471**	**2.543127**	**2.555934**	**26.44373**	**5.285205**	**4.814915**
Stddev	.12796	.010603	.007606	.18693	.009817	.007507
%RSD	.4802480	.4169120	.2975998	.7068803	.1857377	.1559043
#1	26.49749	2.530893	2.547489	26.22837	5.295435	4.814335
#2	26.72919	2.549647	2.562246	26.53888	5.284319	4.822695
#3	26.70745	2.548842	2.558067	26.56393	5.275862	4.807716

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV06 Acquired: 3/21/2024 17:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.929138**	**5.193584**	F **5.646446**	**4.692485**	**4.593886**	**5.027152**
Stddev	.013158	.008782	.077082	.013082	.004129	.058724
%RSD	.2669407	.1690969	1.365145	.2787769	.0898768	1.168142
#1	4.921689	5.183849	5.560897	4.685258	4.591191	5.004331
#2	4.921395	5.200912	5.710496	4.684611	4.591827	5.093862
#3	4.944330	5.195991	5.667946	4.707586	4.598639	4.983264

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.235676**	z *****
Stddev	.020002	-----
%RSD	.3820247	-----
#1	5.215464	z 24302.76
#2	5.236102	z 24231.79
#3	5.255460	z 24164.03

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3776.527**	**97902.46**	**14497.38**	**3706.965**	**4726.975**
Stddev	.780	270.72	32.35	13.060	11.401
%RSD	.0206410	.2765199	.2231445	.3522991	.2411803
#1	3776.136	98206.93	14470.33	3713.116	4732.614
#2	3777.425	97688.87	14488.60	3691.966	4734.457
#3	3776.021	97811.59	14533.22	3715.814	4713.854

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB06 Acquired: 3/21/2024 17:57:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005338	.0003121	-.000348	-.000149	.0009132	.0002258	-.000606
Stddev	.0024798	.0011460	.001036	.003533	.0011734	.0052726	.000427
%RSD	464.5157	367.1978	297.3788	2366.235	128.4881	2334.579	70.40525
#1	.0033890	.0005227	-.001305	.002961	.0018782	.0025259	-.001079
#2	-.001082	-.000925	.000753	.000582	-.000393	-.005806	-.000492
#3	-.000706	.001338	-.000493	-.003991	.001254	.003958	-.000248

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000355	-.000007	.0211645	-.000082	-.000009	.0001805	-.003032
Stddev	.0000562	.000040	.0041052	.000155	.000145	.0004092	.002276
%RSD	157.9810	589.6954	19.39664	188.9463	1589.617	226.6894	75.06744
#1	.0000764	.000040	.0182005	-.000022	-.000003	.0004109	-.003407
#2	-.000028	-.000033	.0258502	-.000258	-.000157	.0004226	-.000592
#3	.000059	-.000027	.0194428	.000034	.000133	-.000292	-.005097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000969	-.009980	-.000128	.0005864	.3712941	.0007191	-.000115
Stddev	.0003261	.009091	.000243	.0001981	.0083763	.0013940	.000056
%RSD	336.5080	91.08861	190.2091	33.78646	2.255964	193.8576	48.61006
#1	-.000236	-.011476	.000054	.0008145	.3627779	.0004405	-.000050
#2	.000415	-.000234	-.000033	.0004578	.3715812	-.000515	-.000147
#3	.000112	-.018230	-.000404	.0004867	.3795230	.002231	-.000148

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3041468	.0030504	.0001517	.0022293	-.000112	.0248820	.0000821
Stddev	.0315228	.0003411	.0001835	.0003859	.000571	.0055397	.0001149
%RSD	10.36435	11.18153	120.9630	17.31241	510.8642	22.26407	139.8755
#1	.2682595	.0026575	.0003632	.0022076	-.000384	.0300640	.0000260
#2	.3273599	.0032227	.0000353	.0026256	-.000496	.0190431	.0002143
#3	.3168211	.0032709	.0000566	.0018546	.000545	.0255388	.0000062

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB06 Acquired: 3/21/2024 17:57:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0002634	.0035476	.0002927	z *****	
Stddev	.0001192	.0001610	.0000221	-----	
%RSD	45.27617	4.536937	7.558598	-----	
#1	.0002171	.0037303	.0002965	z 2456.218	
#2	.0003988	.0034269	.0003128	z 2432.454	
#3	.0001742	.0034855	.0002690	z 2465.678	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4050.888	105877.9	14822.74	3960.800	5608.224
Stddev	8.771	245.0	27.77	6.339	9.361
%RSD	.2165299	.2314361	.1873225	.1600391	.1669111
#1	4055.718	105666.0	14849.27	3954.268	5617.954
#2	4040.763	106146.2	14825.07	3961.206	5599.282
#3	4056.184	105821.6	14793.89	3966.926	5607.437

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05DLX5 Acquired: 3/21/2024 18:11:53 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082543**	**.0277538**	**-.003225**	**.0048460**	**.0105034**	**.3256830**	**.0039144**
Stddev	.0025529	.0038934	.000579	.0023239	.0006272	.0062204	.0006840
%RSD	30.92805	14.02822	17.95264	47.95485	5.970917	1.909951	17.47418
#1	.0072412	.0245250	-.002604	.0033151	.0105589	.3186444	.0042261
#2	.0063635	.0266591	-.003322	.0037029	.0098503	.3279624	.0043871
#3	.0111582	.0320773	-.003750	.0075201	.0111009	.3304421	.0031301

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001478**	**-.000439**	**.6030770**	**-.000492**	**-.000249**	**.0528861**	**.0355191**
Stddev	.000060	.000043	.0060442	.000212	.000270	.0002541	.0013798
%RSD	4.054843	9.775587	1.002221	42.95595	108.4656	.4804720	3.884650
#1	-.001546	-.000398	.6097660	-.000252	-.000161	.0526292	.0361506
#2	-.001454	-.000483	.5980079	-.000652	-.000553	.0531373	.0339366
#3	-.001434	-.000436	.6014570	-.000573	-.000034	.0528920	.0364702

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0383905**	**.2892944**	**.0004020**	**-.000193**	**62.07489**	**-.002373**	**.5517554**
Stddev	.0004465	.0062522	.0001131	.000308	.06204	.002702	.0017729
%RSD	1.163057	2.161194	28.13800	159.1294	.0999391	113.8373	.3213259
#1	.0379850	.2867618	.0005158	.000084	62.13363	.000539	.5529085
#2	.0388690	.2964156	.0002897	-.000524	62.01001	-.004799	.5526438
#3	.0383175	.2847058	.0004004	-.000140	62.08102	-.002860	.5497139

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**106.5108**	**.6086798**	**6.127475**	**.0063238**	**.0004467**	**.2462804**	**.0550571**
Stddev	.1357	.0006808	.016452	.0002790	.0001447	.0076654	.0001786
%RSD	.1274402	.1118436	.2685031	4.412074	32.38989	3.112475	.3244404
#1	106.4608	.6080134	6.114959	.0066453	.0005921	.2529943	.0549187
#2	106.4071	.6086519	6.121356	.0061454	.0003028	.2379283	.0552588
#3	106.6644	.6093741	6.146110	.0061807	.0004453	.2479186	.0549938

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05DLX5 Acquired: 3/21/2024 18:11:53 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2078010	.0032005	.0034543	z *****
Stddev	.0003339	.0001015	.0001068	-----
%RSD	.1606775	3.170308	3.092227	-----
#1	.2081846	.0030945	.0033877	z 2283.333
#2	.2076427	.0032104	.0033977	z 2301.059
#3	.2075757	.0032967	.0035775	z 2293.927

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3726.372	98720.85	14656.06	3606.443	5114.507
Stddev	3.636	246.02	87.67	3.583	4.916
%RSD	.0975743	.2492103	.5981581	.0993510	.0961110
#1	3729.360	98962.48	14753.77	3602.520	5109.096
#2	3727.433	98470.65	14584.29	3607.264	5118.696
#3	3722.324	98729.41	14630.12	3609.543	5115.730

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05DUPDLX5 Acquired: 3/21/2024 18:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082598	.0268918	-.001610	.0021751	.0092670	.2877924	.0036804
Stddev	.0003761	.0021509	.001326	.0014370	.0009376	.0620169	.0011727
%RSD	4.553832	7.998170	82.34723	66.06393	10.11749	21.54917	31.86301
#1	.0081433	.0248832	-.000992	.0034952	.0096536	.3242775	.0037697
#2	.0079557	.0291611	-.000707	.0023857	.0099495	.3229140	.0048058
#3	.0086804	.0266311	-.003133	.0006445	.0081979	.2161858	.0024656

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001359	-.000377	.5712539	-.000560	-.000253	.0534340	.0302484
Stddev	.000328	.000024	.0680880	.000452	.000217	.0014147	.0025639
%RSD	24.09687	6.424017	11.91904	80.78385	85.53740	2.647493	8.476275
#1	-.001544	-.000405	.6067636	-.000038	-.000274	.0527439	.0275505
#2	-.001553	-.000361	.6142466	-.000797	-.000459	.0524968	.0326533
#3	-.000981	-.000366	.4927514	-.000844	-.000027	.0550612	.0305412

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0366986	.2584218	.0006967	-.000258	61.10499	-.001150	.5417475
Stddev	.0041112	.0459912	.0001539	.000110	.73065	.004693	.0067736
%RSD	11.20264	17.79694	22.08313	42.68158	1.195724	407.9580	1.250317
#1	.0385805	.2736533	.0007972	-.000286	60.46243	-.003074	.5342265
#2	.0395321	.2948650	.0005196	-.000352	61.89975	-.004576	.5436485
#3	.0319833	.2067471	.0007733	-.000137	60.95279	.004199	.5473674

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	105.3247	.5742448	6.222221	.0066188	.0001008	.2336409	.0551951
Stddev	1.1819	.0568002	.111608	.0002245	.0005196	.0098609	.0010099
%RSD	1.122185	9.891278	1.793706	3.391758	515.3172	4.220534	1.829615
#1	104.2085	.6063579	6.144370	.0063801	-.000336	.2261357	.0543181
#2	106.5629	.6077143	6.172203	.0066508	-.000036	.2299780	.0549680
#3	105.2028	.5086623	6.350090	.0068257	.000675	.2448091	.0562992

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05DUPDLX5 Acquired: 3/21/2024 18:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2094541	.0026311	.0033534	z *****
Stddev	.0032102	.0003718	.0004283	-----
%RSD	1.532649	14.13013	12.77295	-----
#1	.2070362	.0027913	.0035766	z 2282.079
#2	.2082299	.0028958	.0036240	z 2307.332
#3	.2130963	.0022060	.0028596	z 2304.124

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.594	101037.2	15607.00	3707.042	5129.188
Stddev	43.766	1297.7	1620.13	42.567	61.278
%RSD	1.173159	1.284403	10.38077	1.148266	1.194697
#1	3762.358	102366.2	14689.66	3752.968	5173.258
#2	3748.752	100972.3	14653.69	3699.243	5155.094
#3	3680.672	99773.1	17477.64	3668.914	5059.211

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05LDLX25 Acquired: 3/21/2024 18:20:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025268**	**.0054071**	**-.000564**	**.0009538**	**.0023931**	**.0854011**	**.0000077**
Stddev	.0011720	.0010189	.000424	.0006816	.0007030	.0028887	.0003953
%RSD	46.38303	18.84318	75.22259	71.46296	29.37469	3.382489	5157.635
#1	.0023761	.0063416	-.000568	.0001784	.0031535	.0877741	-.000303
#2	.0037668	.0055588	-.000986	.0014585	.0017669	.0862448	.000453
#3	.0014374	.0043209	-.000138	.0012245	.0022589	.0821846	-.000126

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000336**	**-.000130**	**.1530621**	**-.000173**	**-.000106**	**.0118177**	**.0138927**
Stddev	.000036	.000066	.0070444	.000022	.000068	.0001630	.0012941
%RSD	10.73106	50.88538	4.602309	12.61732	64.19982	1.379318	9.315050
#1	-.000363	-.000072	.1611962	-.000149	-.000167	.0117687	.0146356
#2	-.000349	-.000115	.1490042	-.000191	-.000117	.0119996	.0123984
#3	-.000295	-.000202	.1489858	-.000180	-.000033	.0116849	.0146441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083272**	**.0557348**	**.0000990**	**.0007291**	**12.75528**	**-.000336**	**.1171084**
Stddev	.0002761	.0184427	.0001208	.0002870	.09953	.001531	.0006271
%RSD	3.315476	33.09008	121.9836	39.35655	.7803179	456.4357	.5354582
#1	.0086418	.0769957	.0001704	.0004347	12.64966	.000553	.1164944
#2	.0082146	.0461585	-.000040	.0007446	12.76886	-.002104	.1177478
#3	.0081252	.0440501	.000167	.0010080	12.84733	.000544	.1170829

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.10080**	**.1287694**	**1.253559**	**.0032396**	**.0007967**	**.0700775**	**.0109957**
Stddev	.15139	.0004788	.008853	.0003001	.0001926	.0076605	.0002138
%RSD	.6849978	.3718297	.7062070	9.263856	24.16947	10.93153	1.944158
#1	21.94875	.1282931	1.263764	.0035127	.0005800	.0633507	.0108668
#2	22.10215	.1287644	1.248977	.0029183	.0009480	.0684662	.0108778
#3	22.25152	.1292507	1.247936	.0032876	.0008622	.0784155	.0112424

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05LDLX25 Acquired: 3/21/2024 18:20:39 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0441249	.0024076	.0007213	z *****
Stddev	.0005545	.0001343	.0000259	-----
%RSD	1.256683	5.577741	3.585487	-----
#1	.0447389	.0023730	.0007448	z 2376.247
#2	.0436606	.0022941	.0007254	z 2400.110
#3	.0439751	.0025559	.0006936	z 2391.903

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3916.032	101170.0	14506.62	3740.045	5327.241
Stddev	33.513	202.9	7.71	10.291	44.957
%RSD	.8557903	.2005679	.0531409	.2751586	.8439165
#1	3878.552	101248.0	14509.73	3735.704	5277.315
#2	3926.430	100939.6	14497.84	3732.635	5339.887
#3	3943.113	101322.2	14512.29	3751.795	5364.522

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05MSDLX5 Acquired: 3/21/2024 18:25:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1815980	.4130525	.1758674	.4832255	.1629230	.6943496	.0438767
Stddev	.0009282	.0034545	.0013039	.0041659	.0007140	.0165447	.0006560
%RSD	.5111312	.8363459	.7413960	.8620974	.4382579	2.382768	1.495151
#1	.1826610	.4168626	.1765807	.4784152	.1627320	.6774778	.0433063
#2	.1811845	.4101245	.1766591	.4856450	.1623239	.6950242	.0437302
#3	.1809484	.4121704	.1743625	.4856163	.1637131	.7105467	.0445936

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0338382	.0363083	.7856802	.0805032	.0353017	.1062334	.6320081
Stddev	.0001930	.0001887	.0127625	.0006956	.0001916	.0003364	.0039508
%RSD	.5704718	.5196463	1.624386	.8640709	.5428687	.3166253	.6251272
#1	.0336341	.0364906	.7710508	.0804278	.0352411	.1066176	.6332243
#2	.0340179	.0363203	.7945330	.0798484	.0355163	.1059917	.6275921
#3	.0338625	.0361139	.7914569	.0812335	.0351477	.1060910	.6352078

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0765285	.6328949	.0926529	.0148859	61.77132	.0537453	.5791573
Stddev	.0006277	.0126963	.0002591	.0001784	.24922	.0010547	.0008183
%RSD	.8201785	2.006061	.2796388	1.198207	.4034614	1.962416	.1412846
#1	.0758162	.6189348	.0927367	.0148424	61.66951	.0542355	.5783490
#2	.0767690	.6359980	.0928597	.0150820	61.58913	.0544657	.5791377
#3	.0770004	.6437521	.0923623	.0147333	62.05533	.0525347	.5799852

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	106.9410	.6453313	6.024183	.1285537	.0411094	.4415950	.1702864
Stddev	.3422	.0060723	.008602	.0005715	.0009795	.0085218	.0006685
%RSD	.3199896	.9409626	.1427949	.4445295	2.382711	1.929768	.3925882
#1	106.6427	.6387968	6.032639	.1278939	.0400050	.4435314	.1703829
#2	106.8656	.6463969	6.015442	.1288899	.0418729	.4322716	.1709014
#3	107.3146	.6508004	6.024467	.1288774	.0414503	.4489819	.1695748

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05MSDLX5 Acquired: 3/21/2024 18:25:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2002826	.0067855	.0429367	z *****
Stddev	.0004764	.0001584	.0005062	-----
%RSD	.2378820	2.334121	1.179012	-----
#1	.2008299	.0066559	.0423814	z 4151.359
#2	.1999608	.0067386	.0430561	z 4175.169
#3	.2000571	.0069621	.0433725	z 4182.635

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3790.938	99195.71	14865.76	3661.423	5176.408
Stddev	12.910	140.05	136.94	9.798	14.765
%RSD	.3405396	.1411867	.9211693	.2675978	.2852355
#1	3776.369	99128.57	15018.17	3652.758	5160.428
#2	3800.955	99356.70	14826.03	3672.056	5179.252
#3	3795.490	99101.88	14753.08	3659.456	5189.544

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05MSDDLX5 Acquired: 3/21/2024 18:29:24 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1827028**	**.4229890**	**.1796796**	**.5012012**	**.1688565**	**.6972754**	**.0435793**
Stddev	.0016336	.0016963	.0003716	.0039556	.0015256	.0122681	.0012831
%RSD	.8941177	.4010150	.2068033	.7892314	.9034707	1.759430	2.944201
#1	.1845664	.4213405	.1794825	.5052138	.1672829	.6853321	.0420983
#2	.1820237	.4247293	.1801082	.4973051	.1703290	.6966498	.0442853
#3	.1815184	.4228973	.1794481	.5010847	.1689577	.7098443	.0443544

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0338324**	**.0371181**	**.7895275**	**.0818233**	**.0361843**	**.1085750**	**.6453336**
Stddev	.0006508	.0001662	.0133043	.0006115	.0001081	.0001970	.0096075
%RSD	1.923643	.4476244	1.685100	.7473251	.2988161	.1814700	1.488760
#1	.0330816	.0371478	.7741778	.0811409	.0360699	.1084297	.6345777
#2	.0342357	.0369392	.7966584	.0820074	.0361984	.1087992	.6483587
#3	.0341799	.0372675	.7977462	.0823215	.0362848	.1084960	.6530644

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0769420**	**.6290786**	**.0942031**	**.0152810**	**63.20415**	**.0548338**	**.5883124**
Stddev	.0016751	.0344236	.0003223	.0002438	.27160	.0019564	.0012793
%RSD	2.177047	5.472063	.3421536	1.595730	.4297190	3.567903	.2174544
#1	.0750254	.5921256	.0943390	.0155605	63.00524	.0561239	.5876202
#2	.0776752	.6348728	.0938351	.0151114	63.09361	.0525827	.5875284
#3	.0781255	.6602373	.0944352	.0151712	63.51358	.0557947	.5897887

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**109.3431**	**.6471661**	**6.158667**	**.1308845**	**.0413565**	**.4472122**	**.1740931**
Stddev	.5858	.0125343	.018196	.0008752	.0003122	.0031415	.0011365
%RSD	.5357457	1.936799	.2954524	.6686792	.7547684	.7024615	.6527903
#1	108.7947	.6327134	6.146192	.1298806	.0410005	.4487234	.1739737
#2	109.2744	.6537224	6.150263	.1312854	.0414860	.4436007	.1730211
#3	109.9602	.6550624	6.179546	.1314873	.0415831	.4493125	.1752846

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05MSDDLX5 Acquired: 3/21/2024 18:29:24 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2049220	.0067266	.0431452	z *****
Stddev	.0006087	.0002120	.0008424	-----
%RSD	.2970293	3.151485	1.952380	-----
#1	.2049215	.0065757	.0422285	z 4130.829
#2	.2043135	.0066352	.0433219	z 4141.882
#3	.2055309	.0069690	.0438852	z 4154.814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3723.191	97592.60	14965.36	3597.889	5087.260
Stddev	9.195	27.10	268.76	2.515	15.874
%RSD	.2469649	.0277636	1.795892	.0698982	.3120254
#1	3721.859	97607.87	15275.56	3599.542	5074.241
#2	3732.980	97561.32	14818.09	3594.995	5104.943
#3	3714.735	97608.61	14802.42	3599.131	5082.596

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05ADLX5 Acquired: 3/21/2024 18:43:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1795963	.4253388	.1812659	.4877360	.1677125	.7270855	.0452638
Stddev	.0017463	.0062688	.0001480	.0029718	.0009342	.0021309	.0006215
%RSD	.9723267	1.473842	.0816768	.6093074	.5570387	.2930705	1.373013
#1	.1807475	.4189945	.1812117	.4847378	.1671294	.7277489	.0451726
#2	.1804545	.4254927	.1814334	.4877895	.1687900	.7247018	.0446929
#3	.1775870	.4315293	.1811526	.4906807	.1672181	.7288058	.0459258

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0349867	.0371179	.8139149	.0835461	.0358911	.1070408	.6626038
Stddev	.0002034	.0000952	.0072488	.0022768	.0000749	.0005801	.0187317
%RSD	.5814597	.2565946	.8906055	2.725169	.2086810	.5419085	2.826979
#1	.0350910	.0370118	.8057239	.0861655	.0358619	.1077103	.6803706
#2	.0347523	.0371959	.8165185	.0824314	.0358352	.1067243	.6644037
#3	.0351168	.0371461	.8195022	.0820415	.0359762	.1066878	.6430372

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0798724	.6489084	.0952633	.0156098	65.42921	.0546627	.6040813
Stddev	.0003079	.0046343	.0002610	.0005665	1.20329	.0000555	.0144026
%RSD	.3854567	.7141618	.2740163	3.629239	1.839078	.1015400	2.384221
#1	.0795170	.6456873	.0954327	.0162529	66.72607	.0547210	.6205565
#2	.0800556	.6468183	.0953946	.0153919	65.21269	.0546104	.5978090
#3	.0800446	.6542196	.0949627	.0151846	64.34888	.0546568	.5938784

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	112.0790	.6812062	6.040284	.1302000	.0430115	.4590634	.1735072
Stddev	1.9493	.0035656	.005053	.0013166	.0005577	.0117134	.0003912
%RSD	1.739197	.5234232	.0836582	1.011187	1.296667	2.551579	.2254484
#1	114.2567	.6802596	6.034627	.1286870	.0424705	.4710015	.1739109
#2	111.4830	.6782095	6.044351	.1310851	.0435845	.4586000	.1734809
#3	110.4973	.6851496	6.041874	.1308279	.0429797	.4475886	.1731299

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1807-05ADLX5 Acquired: 3/21/2024 18:43:49 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2035583	.0067858	.0449419	z *****
Stddev	.0003685	.0000689	.0001805	-----
%RSD	.1810104	1.014893	.4016859	-----
#1	.2032266	.0068116	.0447585	z 4160.333
#2	.2034933	.0067077	.0449478	z 4145.971
#3	.2039549	.0068380	.0451194	z 4154.776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3761.951	95240.87	14460.67	3502.362	5052.712
Stddev	15.001	2127.14	55.17	83.830	18.863
%RSD	.3987478	2.233429	.3815117	2.393533	.3733199
#1	3747.150	92802.82	14417.79	3406.393	5034.894
#2	3761.560	96201.71	14522.91	3539.392	5050.773
#3	3777.144	96718.08	14441.32	3561.301	5072.469

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01DUP Acquired: 3/21/2024 18:48:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0311042	-.050376	.5572658	-.051607	-.000297	183.4332	1.464542
Stddev	.0018569	.005800	.0026387	.005967	.001868	21.8305	.192373
%RSD	5.970029	11.51260	.4735001	11.56199	629.1395	11.90105	13.13536
#1	.0332405	-.056378	.5582251	-.058478	-.002445	194.9315	1.585232
#2	.0298762	-.049948	.5542817	-.047731	.000948	158.2570	1.242695
#3	.0301961	-.044802	.5592907	-.048613	.000606	197.1112	1.565698

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170357	.0130571	47.74503	.3004762	.2788112	.2901702	395.5086
Stddev	.0019178	.0007778	5.90689	.0006996	.0005896	.0007804	3.7075
%RSD	11.25727	5.956864	12.37174	.2328448	.2114753	.2689563	.9373896
#1	.0181422	.0136521	51.47943	.2999785	.2786098	.2904604	393.0473
#2	.0148213	.0133421	40.93495	.3012762	.2794751	.2907639	393.7058
#3	.0181437	.0121770	50.82071	.3001739	.2783486	.2892862	399.7727

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.090049	102.2162	.5825153	-.029766	6.286923	.4954432	1.219685
Stddev	.803802	13.8523	.0002330	.001197	.103741	.0671842	.000473
%RSD	13.19861	13.55192	.0400027	4.021416	1.650112	13.56043	.0387421
#1	6.603272	111.2429	.5823945	-.029495	6.328511	.5402287	1.219390
#2	5.163699	86.2672	.5823674	-.031076	6.168840	.4181923	1.220230
#3	6.503176	109.1385	.5827839	-.028728	6.363418	.5279086	1.219434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.71299	.1785434	.0046455	.0567973	4.562899	4.047674	.4234349
Stddev	.33270	.1472610	.0003612	.0036154	.617083	.153297	.0017108
%RSD	1.346258	82.47908	7.775787	6.365519	13.52392	3.787278	.4040354
#1	24.81875	.0684007	.0046164	.0587758	4.947608	4.148478	.4253488
#2	24.34027	.3458076	.0050204	.0526244	3.851131	3.871261	.4220540
#3	24.97996	.1214219	.0042997	.0589916	4.889959	4.123283	.4229021

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01DUP Acquired: 3/21/2024 18:48:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5404898	.0620918	-.145834	z *****
Stddev	.0035858	.0080820	.031360	-----
%RSD	.6634375	13.01619	21.50359	-----
#1	.5387549	.0668778	-.122776	z 5423.722
#2	.5446131	.0527606	-.181543	z 5419.541
#3	.5381014	.0666371	-.133184	z 5406.574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4903.530	123092.9	20378.25	4641.550	4636.744
Stddev	7.589	42.3	2416.07	6.073	6.876
%RSD	.1547591	.0343687	11.85614	.1308503	.1482962
#1	4895.161	123133.7	18800.38	4640.625	4642.425
#2	4909.964	123049.2	23159.71	4635.992	4638.706
#3	4905.464	123095.6	19174.66	4648.033	4629.100

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01LX5 Acquired: 3/21/2024 18:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063928	-.006004	.1082980	-.011724	-.002667	43.34315	.3520363
Stddev	.0014082	.002078	.0049519	.003010	.001367	.29077	.0023412
%RSD	22.02833	34.61718	4.572460	25.67152	51.24617	.6708569	.6650333
#1	.0047868	-.007823	.1139996	-.008252	-.001537	43.07540	.3505200
#2	.0074164	-.006448	.1050733	-.013337	-.004186	43.30158	.3508563
#3	.0069752	-.003739	.1058210	-.013583	-.002277	43.65247	.3547326

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043991	-.000707	11.80792	.0699005	.0523534	.0719303	86.51218
Stddev	.0000124	.000679	.09185	.0004890	.0016439	.0032030	.22542
%RSD	.2828139	96.02000	.7778935	.6996233	3.140077	4.452985	.2605629
#1	.0044135	.000029	11.71226	.0693370	.0542492	.0755491	86.33398
#2	.0043927	-.000840	11.81609	.0702146	.0514906	.0707826	86.43697
#3	.0043912	-.001309	11.89542	.0701498	.0513206	.0694592	86.76559

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.514619	24.72478	.1110348	-.006695	1.446892	.1227890	.2757840
Stddev	.007334	.19432	.0038492	.000167	.018683	.0012318	.0003367
%RSD	.4841989	.7859458	3.466671	2.490499	1.291268	1.003220	.1221019
#1	1.509025	24.51724	.1154143	-.006734	1.425552	.1214123	.2753996
#2	1.511909	24.75467	.1095019	-.006512	1.454817	.1237871	.2759252
#3	1.522922	24.90243	.1081882	-.006839	1.460306	.1231677	.2760271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.315774	-.009833	.0006811	.0132224	1.124393	1.206603	.0783755
Stddev	.017722	.000666	.0000735	.0006951	.004687	.017508	.0024720
%RSD	.3333860	6.774645	10.78654	5.256655	.4168827	1.450996	3.154064
#1	5.298066	-.010579	.0006009	.0140234	1.119757	1.222213	.0811648
#2	5.315745	-.009299	.0006974	.0128658	1.124293	1.187673	.0775058
#3	5.333510	-.009621	.0007451	.0127781	1.129130	1.209923	.0764559

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1816-01LX5 Acquired: 3/21/2024 18:52:36 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0923411	.0160381	-.025582	z *****
Stddev	.0045389	.0000895	.000219	-----
%RSD	4.915412	.5580230	.8570891	-----
#1	.0974206	.0160661	-.025699	z 3087.819
#2	.0909200	.0159379	-.025717	z 3073.967
#3	.0886828	.0161102	-.025329	z 3086.222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4192.107	108856.8	15755.47	4073.153	5098.456
Stddev	125.271	281.6	8.99	14.907	159.753
%RSD	2.988263	.2587261	.0570792	.3659904	3.133364
#1	4051.679	108601.5	15745.33	4056.046	4916.668
#2	4232.275	108810.0	15758.58	4080.056	5162.225
#3	4292.367	109159.0	15762.50	4083.358	5216.476

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV07 Acquired: 3/21/2024 18:56:55 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.601627**	**5.167019**	**4.891901**	**4.695204**	**4.861600**	**10.28128**
Stddev	.011736	.054924	.007158	.008623	.008999	.02643
%RSD	.2550442	1.062980	.1463143	.1836572	.1851116	.2570417
#1	4.597558	5.222873	4.884071	4.702588	4.865321	10.25376
#2	4.592467	5.165112	4.898107	4.685727	4.851337	10.28364
#3	4.614856	5.113074	4.893523	4.697298	4.868143	10.30645

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.18335**	**.2445731**	**2.407836**	**25.45281**	**1.005987**	**2.381717**
Stddev	.08280	.0006041	.005365	.13308	.003474	.003627
%RSD	.8130977	.2469887	.2228199	.5228414	.3453622	.1523002
#1	10.12849	.2439329	2.402007	25.30050	1.002359	2.377545
#2	10.14297	.2446534	2.408932	25.51131	1.006319	2.384119
#3	10.27859	.2451330	2.412569	25.54662	1.009284	2.383488

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.142195**	**5.127496**	**2.505312**	**24.93571**	**2.454454**	**1.303332**
Stddev	.002701	.047515	.018067	.07781	.004365	.002139
%RSD	.2364867	.9266643	.7211353	.3120574	.1778427	.1641057
#1	1.139325	5.076319	2.484615	24.85165	2.451065	1.302369
#2	1.142571	5.135959	2.517928	24.95024	2.452917	1.301843
#3	1.144688	5.170211	2.513392	25.00523	2.459379	1.305783

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.58343**	**2.500158**	**2.539482**	**25.48924**	**5.390171**	**4.634854**
Stddev	.28032	.020922	.009330	.19352	.008094	.010364
%RSD	1.095717	.8368265	.3673948	.7592300	.1501654	.2236180
#1	25.26208	2.477549	2.542540	25.29063	5.394199	4.628712
#2	25.71042	2.504090	2.529006	25.49986	5.395460	4.629028
#3	25.77777	2.518835	2.546899	25.67724	5.380853	4.646820

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV07 Acquired: 3/21/2024 18:56:55 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.805199**	**5.122502**	F **5.538945**	**4.611999**	F **4.458269**	**5.010894**
Stddev	.005303	.021353	.055539	.013062	.001616	.016295
%RSD	.1103601	.4168547	1.002702	.2832193	.0362490	.3251885
#1	4.809077	5.097847	5.477860	4.599229	4.459185	4.992332
#2	4.807365	5.134601	5.552575	4.611435	4.459218	5.022841
#3	4.799156	5.135059	5.586401	4.625335	4.456403	5.017510

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.120097**	z *****
Stddev	.007888	-----
%RSD	.1540570	-----
#1	5.111890	z 23963.78
#2	5.120780	z 23925.09
#3	5.127621	z 23876.22

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3909.706**	**98720.12**	**14443.29**	**3730.548**	**4821.266**
Stddev	7.114	214.90	44.18	13.055	2.255
%RSD	.1819458	.2176893	.3058890	.3499384	.0467654
#1	3912.890	98968.03	14448.26	3727.400	4823.703
#2	3914.671	98605.58	14396.83	3744.888	4820.844
#3	3901.556	98586.74	14484.77	3719.355	4819.253

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB07 Acquired: 3/21/2024 19:01:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000315**	**-.000721**	**-.000200**	**-.000980**	**.0015190**	**-.001635**	**-.000818**
Stddev	.0013905	.001032	.000327	.002077	.0003878	.005865	.000582
%RSD	4415.613	143.1966	163.4407	211.9621	25.53251	358.6876	71.08568
#1	.0015042	.000107	-.000394	.001050	.0011925	-.003493	-.001134
#2	-.000151	-.000391	.000177	-.003101	.0014168	.004934	-.001174
#3	-.001259	-.001877	-.000383	-.000889	.0019477	-.006346	-.000147

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000830**	**.0000294**	**.0093470**	**.0000862**	**-.000123**	**.0002130**	**-.001753**
Stddev	.0000302	.0000255	.0032867	.0000265	.000256	.0003133	.002497
%RSD	36.41094	86.54391	35.16354	30.77678	208.6666	147.0543	142.4495
#1	.0000484	.0000583	.0055680	.0001162	.000138	.0004807	-.000595
#2	.0001044	.0000103	.0115403	.0000655	-.000374	-.000132	-.000045
#3	.0000962	.0000196	.0109325	.0000770	-.000133	.000290	-.004619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000161**	**-.017049**	**-.000045**	**.0008104**	**.2003360**	**.0001814**	**-.000020**
Stddev	.000200	.005270	.000187	.0003403	.0090468	.0011986	.000146
%RSD	124.6132	30.91115	412.5878	41.98997	4.515793	660.6081	748.7643
#1	-.000382	-.011188	.000101	.0005506	.2047652	.0000989	-.000083
#2	-.000106	-.018559	-.000256	.0011955	.1899281	.0014192	-.000124
#3	.000007	-.021399	.000019	.0006849	.2063147	-.000974	.000148

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2063499**	**.0035883**	**.0003135**	**.0023586**	**.0003952**	**.0266197**	**.0002343**
Stddev	.0300278	.0009827	.0001928	.0002956	.0007725	.0105242	.0001629
%RSD	14.55189	27.38735	61.48950	12.53059	195.4650	39.53557	69.53799
#1	.2137263	.0034687	.0003858	.0026399	.0011878	.0387600	.0001045
#2	.1733212	.0046253	.0000951	.0020506	-.000355	.0200819	.0004171
#3	.2320021	.0026708	.0004597	.0023854	.000353	.0210171	.0001812

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB07 Acquired: 3/21/2024 19:01:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0002594	.0036310	.0000826	z *****
Stddev	.0004915	.0000007	.0000330	-----
%RSD	189.4853	.0196458	39.89138	-----
#1	-.000035	.0036315	.0000852	z 2468.256
#2	-.000014	.0036302	.0000484	z 2452.483
#3	.000827	.0036312	.0001142	z 2460.161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4146.955	105704.1	14630.61	3944.374	5684.640
Stddev	6.474	359.5	94.80	19.895	3.400
%RSD	.1561144	.3400723	.6479344	.5043803	.0598162
#1	4153.488	105408.7	14727.03	3944.511	5682.400
#2	4146.835	106104.4	14627.26	3964.200	5682.968
#3	4140.542	105599.3	14537.52	3924.412	5688.553

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1814-01RE Acquired: 3/21/2024 19:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0347820	k -.029097	k .1485771	k -.033875	k -.005824	k 90.87717	.8013829
Stddev	.0072367	.008780	.0008816	.003544	.002786	.24651	.0031656
%RSD	20.80588	30.17491	.5933300	10.46250	47.83269	.2712522	.3950128
#1	k .0268846	k -.038859	k .1495450	k -.035123	k -.009029	k 90.59341	.7977327
#2	.0363658	-.021845	.1483663	-.029876	-.003990	90.99960	.8033752
#3	.0410956	-.026587	.1478201	-.036627	-.004452	91.03849	.8030407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128220	k .0142244	k 154.3904	s .1246959	k .1276013	k .2689357	s 184.5657
Stddev	.0001011	.0239147	1.2612	.0599288	.0025231	.0140071	99.6705
%RSD	.7885069	168.1243	.8169227	48.05996	1.977332	5.208343	54.00271
#1	.0128056	k .0418360	k 152.9437	s .0555279	k .1305024	k .2850870	s 69.5015
#2	.0129303	.0000819	155.2592	.1610973	.1259194	.2601191	244.1896
#3	.0127302	.0007553	154.9682	.1574625	.1263821	.2616010	240.0061

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.820963	62.29328	.3047709	s -.015290	s 9.991046	k .3222971	k .6979207
Stddev	.006958	.07281	.0008617	.004428	5.414021	.0018447	.0207824
%RSD	.1821130	.1168868	.2827445	28.95866	54.18873	.5723694	2.977756
#1	3.818682	62.22979	.3041204	s -.010186	s 3.741059	k .3240276	k .6763068
#2	3.828775	62.37276	.3044440	-.018095	13.23799	.3225075	.7177574
#3	3.815431	62.27729	.3057482	-.017590	12.99409	.3203562	.6996980

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s 9.593008	k -.325609	.0024403	k .0108661	k 3.227777	s 1.700217	k .5082948
Stddev	5.165704	.553870	.0001214	.0054544	.006920	.870458	.0034861
%RSD	53.84864	170.1030	4.975430	50.19680	.2143914	51.19688	.6858358
#1	s 3.630252	k -.965163	.0023001	k .0045681	k 3.219797	s .695593	k .5122642
#2	12.71097	-.006384	.0025089	.0140606	3.231400	2.229843	.5057310
#3	12.43780	-.005279	.0025118	.0139696	3.232133	2.175213	.5068893

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1814-01RE Acquired: 3/21/2024 19:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	k .3777577	.0203175	k .2413459	z *****
Stddev	.0264468	.0000843	.1385106	-----
%RSD	7.000990	.4148263	57.39092	-----
#1	k .4082003	.0202353	k .4012640	z 5487.390
#2	.3604464	.0204037	.1591832	z 5518.437
#3	.3646264	.0203134	.1635906	z 5520.937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4211.684	^ *****	16430.89	4113.467	4754.318
Stddev	18.493	-----	49.81	170.545	12.337
%RSD	.4390909	-----	.3031651	4.146027	.2594863
#1	4231.811	^ -----	16432.16	4304.625	4768.498
#2	4207.799	105857.7	16380.45	3976.904	4746.043
#3	4195.442	108018.0	16480.05	4058.873	4748.413

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1815-01 Acquired: 3/21/2024 19:24:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0661513**	**-.041032**	**.1991102**	**-.041462**	**-.006422**	**159.6500**	**.6944074**
Stddev	.0020359	.003303	.0085565	.002138	.002407	1.7018	.0070199
%RSD	3.077560	8.050864	4.297388	5.155989	37.48350	1.065946	1.010918
#1	.0684841	-.037218	.2047953	-.039933	-.005878	157.8301	.6865406
#2	.0652364	-.042903	.2032659	-.043905	-.009054	159.9179	.6966487
#3	.0647335	-.042975	.1892695	-.040547	-.004333	161.2019	.7000330

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0116507**	**.0074801**	**79.15855**	**.2265619**	**.2069415**	**.4684147**	**351.2300**
Stddev	.0003161	.0028599	.93201	.0009845	.0102033	.0195451	3.0426
%RSD	2.713057	38.23408	1.177402	.4345230	4.930504	4.172612	.8662713
#1	.0113092	.0087020	78.13597	.2274997	.2124029	.4788226	354.5459
#2	.0117098	.0095261	79.37935	.2255366	.2132517	.4805534	350.5777
#3	.0119330	.0042121	79.96034	.2266496	.1951700	.4458681	348.5665

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.948846**	**85.06192**	**.3785099**	**-.028698**	**14.58677**	**.6260225**	**.7306386**
Stddev	.075103	1.25054	.0167676	.000287	.15573	.0059362	.0014045
%RSD	1.262474	1.470157	4.429887	1.000247	1.067642	.9482358	.1922277
#1	5.863317	83.64231	.3877376	-.028983	14.75411	.6193287	.7322450
#2	5.979199	85.54283	.3886368	-.028409	14.56012	.6280916	.7300282
#3	6.004022	86.00062	.3591554	-.028701	14.44608	.6306472	.7296426

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.63798**	**-.110088**	**.0066061**	**.0217826**	**5.531887**	**8.326048**	**1.265185**
Stddev	.22431	.037179	.0002659	.0010667	.059590	.158536	.059821
%RSD	.9489182	33.77207	4.025813	4.896962	1.077213	1.904091	4.728235
#1	23.89509	-.068350	.0065695	.0229832	5.464693	8.509088	1.301946
#2	23.53651	-.122253	.0068885	.0209443	5.552650	8.236953	1.297451
#3	23.48234	-.139660	.0063604	.0214202	5.578318	8.232104	1.196159

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1815-01 Acquired: 3/21/2024 19:24:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	1.036401	.0270525	-.185962	z *****
Stddev	.049087	.0003216	.004772	-----
%RSD	4.736294	1.188658	2.566379	-----
#1	1.061563	.0266915	-.191253	z 7075.900
#2	1.067804	.0271577	-.184648	z 7049.220
#3	.979835	.0273083	-.181984	z 7057.938

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4595.699	115625.8	17609.64	4357.077	4675.423
Stddev	149.057	577.2	282.87	10.293	184.403
%RSD	3.243393	.4992225	1.606329	.2362359	3.944095
#1	4513.221	115016.7	17931.34	4351.750	4572.105
#2	4506.110	115695.8	17497.74	4350.540	4565.842
#3	4767.766	116164.8	17399.83	4368.942	4888.323

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-01 Acquired: 3/21/2024 19:29:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0517393	-.021946	1.195546	-.032546	-.000244	75.46087	.6828952
Stddev	.0024431	.003599	.002854	.002272	.001894	.17187	.0036385
%RSD	4.722029	16.39713	.2387282	6.980072	775.2223	.2277561	.5328088
#1	.0526736	-.026101	1.196510	-.030752	.001410	75.31181	.6787040
#2	.0535773	-.019816	1.197794	-.035100	-.002311	75.64886	.6847377
#3	.0489668	-.019922	1.192335	-.031786	.000167	75.42193	.6852440

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059626	.0110191	134.7412	.2002393	.1195819	.6813156	197.0788
Stddev	.0000442	.0000836	.2767	.0002445	.0004720	.0012374	.8883
%RSD	.7411661	.7585150	.2053590	.1221246	.3946993	.1816183	.4507425
#1	.0060021	.0111145	134.6432	.2003112	.1199648	.6802561	196.4484
#2	.0059707	.0109584	135.0535	.2004399	.1197263	.6810152	196.6934
#3	.0059149	.0109845	134.5268	.1999669	.1190546	.6826756	198.0948

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.518278	45.44094	.2167803	-.013401	5.673051	.3703116	1.594135
Stddev	.011000	.15353	.0001206	.000305	.068861	.0005294	.002799
%RSD	.2434662	.3378632	.0556095	2.272700	1.213820	.1429604	.1755698
#1	4.511746	45.54915	.2166417	-.013616	5.595926	.3698780	1.590956
#2	4.530978	45.50844	.2168381	-.013535	5.694863	.3701553	1.595217
#3	4.512109	45.26523	.2168610	-.013053	5.728364	.3709016	1.596230

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.138040	1.206569	.0064542	.0570360	5.921517	5.605760	.9519081
Stddev	.086025	.003632	.0000925	.0013166	.023618	.043367	.0045382
%RSD	1.205161	.3010534	1.433434	2.308439	.3988474	.7736187	.4767482
#1	7.077286	1.202887	.0065304	.0563947	5.894369	5.566058	.9545302
#2	7.100357	1.206669	.0064809	.0585504	5.932850	5.599181	.9545264
#3	7.236476	1.210150	.0063513	.0561629	5.937332	5.652041	.9466679

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-01 Acquired: 3/21/2024 19:29:04 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.3048852	.0119854	.2470569	z *****	
Stddev	.0009066	.0001145	.0011565	-----	
%RSD	.2973695	.9549278	.4681127	-----	
#1	.3055338	.0118851	.2457786	z 5042.550	
#2	.3038492	.0119611	.2480306	z 5040.337	
#3	.3052726	.0121101	.2473614	z 5024.566	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4705.097	121263.0	17588.23	4546.814	4698.058
Stddev	13.341	288.6	67.02	7.746	.790
%RSD	.2835337	.2379959	.3810490	.1703633	.0168170
#1	4719.048	121366.8	17559.02	4548.200	4698.753
#2	4703.778	121485.4	17540.77	4553.774	4697.199
#3	4692.465	120936.9	17664.90	4538.469	4698.222

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-02 Acquired: 3/21/2024 19:33:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0533558	-.012706	1.403937	-.024613	.0007568	59.19790	.8369729
Stddev	.0007446	.000719	.015574	.002065	.0011734	.12392	.0015770
%RSD	1.395585	5.661772	1.109342	8.388078	155.0327	.2093252	.1884218
#1	.0541597	-.012346	1.393943	-.022231	.0003583	59.33365	.8385811
#2	.0532181	-.012237	1.421882	-.025887	.0020776	59.16918	.8369085
#3	.0526896	-.013534	1.395985	-.025720	-.000165	59.09087	.8354290

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050639	.0040876	171.6919	.3236285	.0669383	.4050152	152.8424
Stddev	.0000473	.0030875	.5274	.0423465	.0006859	.0066028	17.5493
%RSD	.9333061	75.53314	.3071702	13.08490	1.024622	1.630270	11.48192
#1	.0050535	.0055588	172.2973	.2981392	.0663756	.4013268	141.8474
#2	.0050227	.0061642	171.3321	.3002354	.0677023	.4126382	143.5985
#3	.0051155	.0005396	171.4464	.3725110	.0667370	.4010806	173.0813

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.888467	57.52066	.1934563	-.009839	2.930429	.2198737	1.479804
Stddev	.008750	.16419	.0030371	.001847	.327559	.0006255	.194744
%RSD	.4633522	.2854484	1.569935	18.77529	11.17786	.2844963	13.16010
#1	1.898006	57.70588	.1913204	-.008608	2.709222	.2205808	1.363002
#2	1.886582	57.39300	.1969332	-.008945	2.775335	.2196476	1.371792
#3	1.880813	57.46311	.1921155	-.011963	3.306731	.2193926	1.704617

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.689466	.0843967	.0086214	.0506969	2.764646	3.999951	.3522185
Stddev	.994343	.0629019	.0001066	.0007558	.010548	.472139	.0043263
%RSD	11.44309	74.53130	1.236609	1.490916	.3815270	11.80361	1.228290
#1	8.027112	.0418152	.0087410	.0499099	2.776819	3.693705	.3485289
#2	8.208433	.0547289	.0085363	.0507638	2.758208	3.762466	.3569799
#3	9.832852	.1566459	.0085870	.0514171	2.758911	4.543683	.3511467

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-02 Acquired: 3/21/2024 19:33:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3469970	.0127154	.4222029	z *****
Stddev	.0062075	.0000590	.0187654	-----
%RSD	1.788928	.4640305	4.444647	-----
#1	.3450248	.0126683	.4341453	z 6583.034
#2	.3539510	.0127816	.4318898	z 6619.791
#3	.3420152	.0126964	.4005736	z 6717.882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4162.582	101518.3	16491.48	3808.967	4758.999
Stddev	48.401	10854.3	115.20	408.749	55.213
%RSD	1.162761	10.69200	.6985179	10.73123	1.160171
#1	4202.538	108201.7	16358.50	4056.861	4804.831
#2	4108.762	107359.1	16560.68	4032.851	4697.703
#3	4176.447	88994.3	16555.27	3337.188	4774.462

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-03 Acquired: 3/21/2024 19:37:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0303901**	**-.013513**	**.0515358**	**-.022616**	**-.005359**	**108.2683**
Stddev	.0016175	.001035	.0012143	.002711	.002964	5.3323
%RSD	5.322297	7.660467	2.356273	11.98653	55.30887	4.925105
#1	.0291766	-.014651	.0527919	-.021254	-.008687	114.3870
#2	.0322264	-.013261	.0503681	-.025738	-.003003	105.8045
#3	.0297672	-.012627	.0514474	-.020856	-.004387	104.6133

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1254305**	**.0062053**	**-.003894**	**19.94065**	**.0909554**	**.0480023**
Stddev	.0063539	.0003339	.000895	.91317	.0022413	.0006139
%RSD	5.065673	5.380608	22.99517	4.579449	2.464123	1.278807
#1	.1327140	.0065619	-.004927	20.99073	.0932285	.0480550
#2	.1225534	.0059000	-.003412	19.49858	.0908902	.0485882
#3	.1210240	.0061541	-.003343	19.33264	.0887474	.0473639

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0615182**	**190.4530**	**1.068938**	**24.90945**	**.0977440**	**-.014489**
Stddev	.0013292	6.4542	.050040	1.10653	.0013746	.000226
%RSD	2.160684	3.388868	4.681292	4.442198	1.406373	1.559388
#1	.0609378	197.8089	1.126270	26.18130	.0988408	-.014642
#2	.0630389	187.8117	1.046495	24.37942	.0981893	-.014595
#3	.0605778	185.7384	1.034048	24.16764	.0962019	-.014229

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.916484**	**.1527127**	**.2520665**	**5.989897**	**-.036621**	**.0144187**
Stddev	.298820	.0064413	.0068184	.186476	.005219	.0002862
%RSD	3.013366	4.217931	2.704994	3.113179	14.25143	1.985019
#1	10.24711	.1597781	.2598242	6.196941	-.042635	.0142049
#2	9.83666	.1511927	.2493512	5.937589	-.033284	.0147439
#3	9.66568	.1471674	.2470241	5.835161	-.033943	.0143074

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1817-03 Acquired: 3/21/2024 19:37:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071574	1.627891	3.502610	.3635607	F 15.35031	.0355060
Stddev	.0007491	.075624	.184528	.0053712	.25438	.0018102
%RSD	10.46615	4.645512	5.268289	1.477383	1.657153	5.098141
#1	.0080111	1.712367	3.693559	.3656605	15.48499	.0375465
#2	.0068512	1.604803	3.489015	.3675648	15.50903	.0348779
#3	.0066098	1.566502	3.325256	.3574568	15.05691	.0340935

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0280374	z *****
Stddev	.0044160	-----
%RSD	15.75046	-----
#1	.0330559	z 3441.710
#2	.0263101	z 3431.918
#3	.0247460	z 3399.173

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4050.847	100195.2	14769.50	3792.112	5011.570
Stddev	44.767	2325.5	561.52	88.490	54.804
%RSD	1.105115	2.320952	3.801859	2.333525	1.093554
#1	4030.180	97555.3	14125.90	3690.141	4986.677
#2	4020.148	101089.8	15023.19	3837.463	4973.631
#3	4102.213	101940.6	15159.40	3848.734	5074.403

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1821-01 Acquired: 3/21/2024 19:41:44 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0289177	-.007083	.0507502	-.033404	.0078228	157.3282	.8577377
Stddev	.0021538	.003945	.0009949	.003922	.0015998	8.4413	.0448192
%RSD	7.448135	55.68919	1.960368	11.74206	20.45028	5.365392	5.225274
#1	.0266674	-.008662	.0496398	-.033653	.0096643	162.5782	.8845036
#2	.0291257	-.002594	.0510500	-.037197	.0067754	161.8153	.8827141
#3	.0309600	-.009994	.0515607	-.029364	.0070288	147.5910	.8059953

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078817	.0017944	918.2442	.2577023	.1177347	.6431070	179.7337
Stddev	.0003969	.0006622	36.3023	.0070813	.0005156	.0017674	4.8504
%RSD	5.036256	36.90543	3.953444	2.747874	.4379073	.2748216	2.698650
#1	.0082208	.0011015	943.9089	.2657043	.1173480	.6440626	184.7102
#2	.0079793	.0018607	934.1145	.2551577	.1175360	.6441909	179.4709
#3	.0074451	.0024209	876.7091	.2522449	.1183200	.6410675	175.0201

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.235719	68.75884	.2660857	-.012149	9.235036	.2302948	1.338883
Stddev	.167345	3.59512	.0004184	.000660	.233172	.0107292	.034841
%RSD	5.171794	5.228591	.1572355	5.432622	2.524866	4.658901	2.602271
#1	3.342207	71.17528	.2665608	-.012387	9.465551	.2373738	1.378884
#2	3.322116	70.47389	.2657723	-.011403	9.240262	.2355604	1.322609
#3	3.042834	64.62736	.2659241	-.012657	8.999294	.2179501	1.315157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.675701	.1497366	.0131220	.0683562	6.408167	.7296866	.6341112
Stddev	.252688	.0108128	.0001531	.0021415	.329563	.0028203	.0005602
%RSD	2.611576	7.221211	1.166948	3.132933	5.142859	.3865116	.0883432
#1	9.922622	.1480615	.0131198	.0708203	6.610558	.7285105	.6346881
#2	9.686864	.1398590	.0129700	.0669432	6.586060	.7329046	.6335694
#3	9.417616	.1612891	.0132762	.0673052	6.027883	.7276446	.6340762

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1821-01 Acquired: 3/21/2024 19:41:44 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	2.562605	.0123829	2.991640	z *****
Stddev	.005338	.0006061	.137458	-----
%RSD	.2083167	4.894423	4.594751	-----
#1	2.568697	.0126563	3.080662	z 5722.178
#2	2.558743	.0128041	3.060931	z 5686.988
#3	2.560376	.0116883	2.833325	z 5697.389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3822.969	95853.24	15835.70	3645.155	4141.626
Stddev	6.365	2206.35	717.83	91.756	7.357
%RSD	.1664955	2.301797	4.532970	2.517216	.1776466
#1	3815.710	93342.19	15331.52	3540.485	4136.474
#2	3827.595	96736.02	15518.03	3683.268	4150.052
#3	3825.602	97481.51	16657.55	3711.713	4138.351

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-02 Acquired: 3/21/2024 19:46:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0694474**	**-.039040**	**.5039531**	**-.039361**	**.0200958**	**167.8066**
Stddev	.0011886	.003760	.0039756	.002909	.0010645	2.3229
%RSD	1.711517	9.632375	.7888784	7.390355	5.297004	1.384279
#1	.0705197	-.034736	.4994471	-.042480	.0213148	170.3123
#2	.0696533	-.040691	.5069658	-.038884	.0196228	167.3827
#3	.0681694	-.041692	.5054464	-.036721	.0193498	165.7248

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.150569**	**.0134106**	**.0053728**	**25.46691**	**.2304152**	**.1882536**
Stddev	.014001	.0001975	.0003056	.31971	.0014031	.0005640
%RSD	1.216847	1.472825	5.687982	1.255395	.6089299	.2995746
#1	1.166423	.0136362	.0057206	25.80685	.2288202	.1879301
#2	1.145383	.0132687	.0052507	25.42162	.2314590	.1889048
#3	1.139902	.0133270	.0051471	25.17226	.2309664	.1879259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3286903**	**329.8451**	**6.400965**	**48.94294**	**.2833758**	**-.025506**
Stddev	.0005200	2.1187	.099474	.69054	.0004104	.000122
%RSD	.1582096	.6423374	1.554054	1.410917	.1448268	.4763981
#1	.3288905	327.8762	6.512716	49.67105	.2835739	-.025387
#2	.3290804	329.5720	6.368086	48.86038	.2836495	-.025630
#3	.3280999	332.0872	6.322092	48.29738	.2829039	-.025501

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.68427**	**.4017143**	**1.679298**	**14.48819**	**-.092884**	**.0053928**
Stddev	.11035	.0071030	.007393	.14372	.029911	.0000616
%RSD	.9444446	1.768182	.4402172	.9919581	32.20310	1.142863
#1	11.59163	.4092925	1.675997	14.33234	-.124797	.0053242
#2	11.65482	.4006420	1.674132	14.51674	-.088366	.0054433
#3	11.80636	.3952084	1.687766	14.61548	-.065488	.0054110

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-02 Acquired: 3/21/2024 19:46:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3632138	2.224818	F 13.03728	.4024662	.0422454	.0359569
Stddev	.0014687	.030310	.12069	.0010942	.0006825	.0004473
%RSD	.4043710	1.362371	.9257664	.2718673	1.615633	1.243988
#1	.3615821	2.256479	12.91103	.4016075	.0430097	.0364730
#2	.3636291	2.221906	13.04929	.4036981	.0416966	.0357179
#3	.3644301	2.196069	13.15152	.4020929	.0420299	.0356800

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.169356	z *****
Stddev	.004172	-----
%RSD	2.463483	-----
#1	-.164952	z 6824.900
#2	-.169868	z 6850.250
#3	-.173249	z 6836.489

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4460.588	114452.6	16851.79	4328.572	4808.107
Stddev	6.103	662.3	264.17	26.939	8.436
%RSD	.1368184	.5787027	1.567604	.6223467	.1754484
#1	4463.520	115058.8	16557.96	4348.628	4817.314
#2	4453.572	114553.4	16927.74	4339.136	4800.750
#3	4464.670	113745.7	17069.66	4297.952	4806.256

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1616-01 Acquired: 3/21/2024 19:50:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515947	-.017758	.2836044	-.022515	-.001918	38.63102	.2077241
Stddev	.0013605	.003143	.0016720	.003327	.002779	.17063	.0019567
%RSD	2.636929	17.69976	.5895501	14.77551	144.9086	.4416966	.9419703
#1	.0511018	-.015286	.2818002	-.021126	.000653	38.82162	.2093866
#2	.0505493	-.021296	.2851018	-.026311	-.004867	38.57896	.2082179
#3	.0531330	-.016694	.2839111	-.020108	-.001540	38.49248	.2055678

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059261	.0000336	186.1639	.1591180	.0262744	.1075548	138.7207
Stddev	.0001664	.0003437	.8717	.0043228	.0001188	.0005125	2.5700
%RSD	2.808020	1023.615	.4682179	2.716716	.4522627	.4764690	1.852659
#1	.0061085	.0004302	187.0693	.1542718	.0262578	.1075372	135.7878
#2	.0057826	-.000178	186.0918	.1625767	.0261647	.1070514	140.5792
#3	.0058871	-.000152	185.3305	.1605054	.0264006	.1080759	139.7951

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7704465	24.51342	.0578630	-.010656	3.939489	.2037402	.4500317
Stddev	.0048715	.12177	.0003577	.000180	.093318	.0018429	.0105960
%RSD	.6322948	.4967371	.6181148	1.687397	2.368772	.9045421	2.354499
#1	.7750467	24.62441	.0575115	-.010522	3.833091	.2056489	.4378020
#2	.7709500	24.53267	.0582265	-.010586	4.007443	.2036006	.4558310
#3	.7653429	24.38317	.0578509	-.010861	3.977933	.2019711	.4564622

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.54351	.2919395	.0022309	.0065353	1.275578	9.825366	.5435210
Stddev	.31716	.0098043	.0000673	.0005318	.007439	.198850	.0006956
%RSD	2.180746	3.358330	3.016859	8.137582	.5831484	2.023839	.1279856
#1	14.18209	.2808858	.0022694	.0068315	1.282970	9.595758	.5435528
#2	14.67298	.2995846	.0021532	.0059214	1.275670	9.941294	.5442003
#3	14.77544	.2953480	.0022701	.0068532	1.268094	9.939047	.5428101

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1616-01 Acquired: 3/21/2024 19:50:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	1.323381	.0043762	.7776245	z *****
Stddev	.004964	.0000486	.0076771	-----
%RSD	.3750695	1.109970	.9872502	-----
#1	1.322281	.0044234	.7857815	z 4950.639
#2	1.328802	.0043264	.7765517	z 4963.914
#3	1.319059	.0043788	.7705401	z 4948.770

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4131.377	107060.1	15927.17	4024.724	4794.740
Stddev	3.901	2413.7	74.69	85.113	5.478
%RSD	.0944328	2.254506	.4689707	2.114754	.1142451
#1	4127.704	109828.1	15881.74	4122.829	4788.431
#2	4135.473	105393.9	15886.39	3970.587	4797.502
#3	4130.954	105958.4	16013.38	3980.758	4798.288

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1616-03 Acquired: 3/21/2024 19:54:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1720805	-.103168	.0842523	-.078440	-.012273	85.39634
Stddev	.0038694	.002983	.0013662	.003423	.000998	.45234
%RSD	2.248597	2.891322	1.621573	4.364347	8.132882	.5296902
#1	.1704869	-.106410	.0847493	-.075212	-.011442	85.86868
#2	.1692624	-.102552	.0827071	-.082030	-.011998	85.35325
#3	.1764922	-.100540	.0853003	-.078078	-.013380	84.96709

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5717875	.0195132	.0180547	165.5464	.1489132	.0895799
Stddev	.0027224	.0001232	.0011315	.9429	.0009145	.0001942
%RSD	.4761197	.6314315	6.266915	.5695507	.6140860	.2167749
#1	.5744161	.0196550	.0168424	166.3827	.1478984	.0898012
#2	.5719664	.0194325	.0190827	165.7318	.1491678	.0895002
#3	.5689801	.0194520	.0182390	164.5245	.1496734	.0894382

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280981	685.6367	6.849943	32.61198	.2522563	-.064510
Stddev	.0006736	8.3840	.043398	.20061	.0006509	.001206
%RSD	2.397400	1.222800	.6335521	.6151404	.2580296	1.870006
#1	.0277022	694.3670	6.890136	32.75761	.2522459	-.063140
#2	.0288759	677.6483	6.855765	32.69517	.2516107	-.065413
#3	.0277163	684.8948	6.803928	32.38316	.2529123	-.064977

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.29380	.1543895	.5893905	85.90395	^ *****	.0063318
Stddev	.04688	.0036096	.0028065	.23250	-----	.0001427
%RSD	.3279859	2.337970	.4761753	.2706489	-----	2.254014
#1	14.34781	.1571879	.5905856	86.08025	^ -----	.0064948
#2	14.26359	.1503153	.5914017	85.64046	^ -----	.0062295
#3	14.27001	.1556654	.5861842	85.99114	^ -----	.0062710

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1616-03 Acquired: 3/21/2024 19:54:40 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053439	.4017349	F 15.43384	6.403257	F 12.87041	.0141857
Stddev	.0010341	.0012850	.03490	.018492	.05806	.0001116
%RSD	19.35145	.3198562	.2261076	.2887899	.4510988	.7866998
#1	.0049510	.4024296	15.46899	6.424573	12.92488	.0140936
#2	.0065169	.4025230	15.39920	6.391511	12.80933	.0143098
#3	.0045638	.4002521	15.43335	6.393687	12.87701	.0141536

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.045067	z *****
Stddev	.007026	-----
%RSD	15.59098	-----
#1	-.050821	z 7176.967
#2	-.037236	z 7143.734
#3	-.047145	z 7171.641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4457.517	115122.8	17631.07	4330.417	4560.255
Stddev	6.265	190.3	87.79	12.715	5.060
%RSD	.1405454	.1652907	.4979537	.2936184	.1109626
#1	4461.793	114931.7	17599.22	4320.787	4559.275
#2	4460.432	115312.3	17563.63	4325.634	4565.733
#3	4450.326	115124.5	17730.34	4344.829	4555.756

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01RE Acquired: 3/21/2024 19:58:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1019154	-.049911	.9406740	-.053476	-.006707	221.9360
Stddev	.0013577	.007814	.0038070	.004294	.000917	6.8324
%RSD	1.332225	15.65619	.4047065	8.029127	13.67226	3.078560
#1	.1011496	-.042601	.9383287	-.054632	-.007766	217.9204
#2	.1011135	-.058147	.9386268	-.057073	-.006184	218.0627
#3	.1034830	-.048986	.9450665	-.048722	-.006172	229.8250

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.301787	.0193407	.0153189	57.29799	.2985613	.2690996
Stddev	.073120	.0005256	.0006892	1.61094	.0014591	.0009912
%RSD	3.176683	2.717463	4.498884	2.811514	.4887122	.3683344
#1	2.259073	.0189581	.0148355	56.24522	.2984053	.2692949
#2	2.260070	.0191241	.0150131	56.49626	.2971865	.2699786
#3	2.386217	.0199400	.0161080	59.15249	.3000922	.2680253

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4902421	406.2650	16.87645	110.1938	.5570793	-.032567
Stddev	.0004439	2.1664	.52978	3.3389	.0002384	.000461
%RSD	.0905455	.5332476	3.139168	3.030038	.0427883	1.414056
#1	.4897302	408.4805	16.54632	108.0261	.5573279	-.033087
#2	.4904748	406.1633	16.59550	108.5164	.5570572	-.032404
#3	.4905212	404.1513	17.48753	114.0388	.5568527	-.032210

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.719616	.3906091	2.999658	23.91745	-.093189	.0025329
Stddev	.037703	.0101712	.011363	.15134	.050904	.0002381
%RSD	.7988624	2.603940	.3788237	.6327426	54.62512	9.398632
#1	4.740299	.3826881	3.010371	24.04490	-.057248	.0025099
#2	4.676098	.3870597	3.000863	23.75019	-.070880	.0027816
#3	4.742451	.4020794	2.987741	23.95727	-.151439	.0023072

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1792-01RE Acquired: 3/21/2024 19:58:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0405230	3.810284	F 15.20034	.9962544	.0172855	.0858480
Stddev	.0009930	.119139	.06948	.0017129	.0026357	.0027844
%RSD	2.450537	3.126773	.4571236	.1719365	15.24786	3.243370
#1	.0400993	3.736865	15.16029	.9982087	.0191924	.0840093
#2	.0398120	3.746241	15.16016	.9950133	.0183862	.0844832
#3	.0416575	3.947748	15.28058	.9955413	.0142779	.0890514

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.129882	z *****
Stddev	.010922	-----
%RSD	8.409352	-----
#1	-.137457	z 8474.253
#2	-.134827	z 8456.465
#3	-.117362	z 8454.573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4478.367	114006.0	17183.82	4302.606	4559.826
Stddev	11.766	480.6	435.76	7.868	6.568
%RSD	.2627323	.4215344	2.535892	.1828590	.1440352
#1	4491.725	113483.6	17460.43	4294.572	4561.640
#2	4469.540	114429.2	17409.51	4302.949	4552.542
#3	4473.836	114105.3	16681.50	4310.296	4565.297

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV08 Acquired: 3/21/2024 20:03:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.931621**	**5.290466**	**4.931382**	**4.766039**	**4.905340**	**10.68781**
Stddev	.083522	.010471	.077590	.075531	.069365	.19417
%RSD	1.693603	.1979249	1.573400	1.584769	1.414064	1.816775
#1	4.842430	5.300246	4.858497	4.688263	4.838560	10.76679
#2	4.944443	5.291732	4.922700	4.770751	4.900431	10.83005
#3	5.007991	5.279419	5.012948	4.839104	4.977028	10.46659

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.48356**	**.2582732**	**2.435098**	**26.37089**	**1.013254**	**2.407804**
Stddev	.06873	.0029814	.041308	.41717	.031474	.040531
%RSD	.6556168	1.154357	1.696352	1.581949	3.106265	1.683298
#1	10.51485	.2587526	2.395978	26.53881	.977140	2.369249
#2	10.53108	.2609859	2.431025	26.67794	1.027777	2.404106
#3	10.40475	.2550812	2.478292	25.89593	1.034844	2.450056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.157947**	**5.065483**	**2.587873**	**25.97856**	**2.478639**	**1.304663**
Stddev	.019167	.139507	.042661	.36139	.043292	.037050
%RSD	1.655225	2.754068	1.648500	1.391104	1.746603	2.839777
#1	1.140058	4.904997	2.604404	26.07599	2.438277	1.262903
#2	1.155607	5.133668	2.619794	26.28124	2.473277	1.317496
#3	1.178176	5.157783	2.539420	25.57844	2.524362	1.333590

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.09252**	**2.590834**	**2.533495**	**25.11800**	F **5.662403**	**4.706847**
Stddev	.66461	.043062	.069306	.67997	.060328	.074240
%RSD	2.648639	1.662105	2.735607	2.707094	1.065412	1.577278
#1	24.32546	2.602350	2.455411	24.33842	5.694255	4.634467
#2	25.45564	2.626967	2.557358	25.42693	5.700128	4.703258
#3	25.49646	2.543184	2.587718	25.58867	5.592825	4.782817

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV08 Acquired: 3/21/2024 20:03:28 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.847079**	**5.287636**	**5.392746**	**4.869802**	**4.748156**	F **5.511909**
Stddev	.067120	.090133	.184094	.086026	.072562	.092662
%RSD	1.384749	1.704593	3.413743	1.766511	1.528220	1.681121
#1	4.782793	5.324672	5.186214	4.787220	4.679921	5.573462
#2	4.841731	5.353351	5.452433	4.863285	4.740163	5.556925
#3	4.916712	5.184886	5.539590	4.958901	4.824384	5.405339

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.315923**	z *****
Stddev	.063769	-----
%RSD	1.199584	-----
#1	5.343711	z 24980.79
#2	5.361083	z 25161.15
#3	5.242976	z 25240.47

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3846.957**	**98044.51**	**13650.49**	**3698.421**	**4763.654**
Stddev	51.684	2430.30	211.36	87.714	65.182
%RSD	1.343514	2.478773	1.548389	2.371663	1.368315
#1	3893.872	100809.8	13508.54	3796.797	4821.694
#2	3855.446	97075.8	13549.52	3670.098	4776.131
#3	3791.554	96247.9	13893.40	3628.368	4693.135

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB08 Acquired: 3/21/2024 20:07:56 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003744**	**.0005637**	**-.000087**	**-.002000**	**.0023350**	**.0066581**	**-.000057**
Stddev	.0028367	.0016281	.000741	.002310	.0005391	.0138152	.000323
%RSD	757.6866	288.8068	851.2320	115.4587	23.08778	207.4931	565.5891
#1	.0006871	.0009076	-.000939	.000633	.0020062	.0162083	-.000047
#2	.0030418	-.001209	.000269	-.003681	.0020417	-.009183	-.000385
#3	-.002606	.001992	.000409	-.002953	.0029572	.012949	.000260

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000439**	**-.000042**	**.0173726**	**-.000043**	**.0002272**	**-.000012**	**.0145913**
Stddev	.0000466	.000075	.0048589	.000145	.0001047	.000067	.0021690
%RSD	106.1537	179.9494	27.96896	334.5861	46.08936	563.8670	14.86525
#1	-.000009	.000000	.0225525	.000026	.0003059	.000029	.0143954
#2	.000078	.000003	.0166495	-.000210	.0002675	-.000089	.0168517
#3	.000062	-.000128	.0129157	.000054	.0001084	.000025	.0125269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003961**	**-.006032**	**-.000060**	**.0008824**	**.1510052**	**.0020579**	**-.000035**
Stddev	.0002035	.017844	.000383	.0005439	.0074283	.0003033	.000306
%RSD	51.36221	295.8107	634.1248	61.64013	4.919249	14.73619	885.7089
#1	.0001666	.007350	.000304	.0013827	.1595809	.0022846	-.000174
#2	.0005543	.000845	-.000460	.0003034	.1468695	.0017134	-.000245
#3	.0004675	-.026291	-.000025	.0009610	.1465653	.0021757	.000316

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1787057**	**.0038839**	**.0002105**	**.0026072**	**.0011771**	**.0174443**	**.0002431**
Stddev	.0404110	.0013408	.0001450	.0003365	.0002769	.0032998	.0002177
%RSD	22.61313	34.52285	68.86071	12.90616	23.52327	18.91600	89.56007
#1	.1478549	.0053063	.0002157	.0022662	.0008854	.0139220	.0004342
#2	.2244497	.0037024	.0003529	.0026163	.0012098	.0179468	.0002890
#3	.1638126	.0026431	.0000631	.0029390	.0014363	.0204639	.0000061

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB08 Acquired: 3/21/2024 20:07:56 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0008845	.0041625	.0002484	z *****
Stddev	.0001814	.0001037	.0000844	-----
%RSD	20.51236	2.492136	33.98945	-----
#1	.0010905	.0041129	.0001708	z 2490.504
#2	.0008145	.0042818	.0003383	z 2484.253
#3	.0007485	.0040930	.0002361	z 2486.169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.312	105056.9	14654.16	3896.708	5628.524
Stddev	6.450	193.7	38.17	13.977	3.847
%RSD	.1566590	.1843456	.2604953	.3586810	.0683454
#1	4110.841	104972.6	14649.67	3900.990	5626.979
#2	4117.355	105278.4	14694.38	3908.043	5632.903
#3	4123.741	104919.6	14618.43	3881.092	5625.689

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1793-02RE Acquired: 3/21/2024 20:12:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028646**	**-.000729**	**-.000222**	**-.000981**	**-.000834**	**.0809016**	**.0007127**
Stddev	.0021082	.001266	.000768	.003568	.000910	.0076940	.0003224
%RSD	73.59547	173.7086	346.5738	363.5391	109.1175	9.510290	45.23958
#1	.0043794	-.002117	-.001020	.002936	-.001191	.0736190	.0004261
#2	.0037574	.000361	.000512	-.001836	.000200	.0889497	.0006501
#3	.0004569	-.000429	-.000158	-.004045	-.001511	.0801359	.0010618

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000023**	**-.000061**	**.7554154**	**.0039632**	**-.000073**	**.0107925**	**.2218690**
Stddev	.000039	.000061	.0042395	.0004055	.000110	.0002794	.0059246
%RSD	171.0039	98.75654	.5612170	10.23121	151.0948	2.589222	2.670315
#1	-.000024	-.000128	.7602779	.0035048	.000036	.0105085	.2170260
#2	.000017	-.000048	.7524938	.0041100	-.000183	.0108019	.2201061
#3	-.000061	-.000009	.7534744	.0042748	-.000071	.0110671	.2284750

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048852**	**.0511877**	**.0024471**	**.0007637**	**.5169011**	**.0011071**	**.2621864**
Stddev	.0001683	.0162641	.0000511	.0003528	.0125261	.0012765	.0012553
%RSD	3.445527	31.77349	2.087369	46.20053	2.423309	115.3065	.4787619
#1	.0050656	.0324360	.0024220	.0003613	.5260894	.0008660	.2607588
#2	.0047323	.0614592	.0025059	.0009095	.5219810	.0024870	.2631173
#3	.0048576	.0596680	.0024134	.0010203	.5026331	-.000032	.2626831

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8438331**	**-.003615**	**.0000336**	**.0015254**	**.0057572**	**.1008900**	**.0017396**
Stddev	.0191273	.000669	.0001608	.0002036	.0021198	.0062849	.0001349
%RSD	2.266721	18.50198	477.9056	13.34865	36.82010	6.229416	7.755248
#1	.8422274	-.004299	.0001977	.0013027	.0045615	.1079487	.0018931
#2	.8255592	-.003583	.0000269	.0017021	.0045054	.0959009	.0016857
#3	.8637127	-.002962	-.000124	.0015712	.0082047	.0988204	.0016399

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1793-02RE Acquired: 3/21/2024 20:12:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0775894	.0005703	.0014515	z *****	
Stddev	.0004854	.0000878	.0000369	-----	
%RSD	.6256150	15.39268	2.539457	-----	
#1	.0781253	.0005532	.0014730	z 2369.038	
#2	.0771793	.0006653	.0014726	z 2369.910	
#3	.0774634	.0004922	.0014090	z 2373.503	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4134.862	107671.0	14905.06	3927.899	5867.508
Stddev	10.217	167.2	107.36	3.779	2.501
%RSD	.2470890	.1553224	.7203021	.0962179	.0426291
#1	4146.498	107550.6	14814.84	3931.451	5867.686
#2	4127.358	107862.0	15023.80	3928.318	5864.923
#3	4130.731	107600.4	14876.55	3923.927	5869.916

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1810-01 Acquired: 3/21/2024 20:16:50 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164947	-.029736	.3331733	-.022089	-.004433	144.9919	1.503082
Stddev	.0016546	.003140	.0015951	.001077	.003027	.7406	.005870
%RSD	10.03093	10.56096	.4787573	4.875412	68.28444	.5107981	.3905442
#1	.0147031	-.026173	.3314495	-.021242	-.007829	144.2307	1.497546
#2	.0168157	-.030936	.3334733	-.021724	-.003450	145.0349	1.502462
#3	.0179651	-.032100	.3345971	-.023301	-.002019	145.7101	1.509237

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0532730	.0253106	95.19946	.4764980	.3938974	.1048266	148.4094
Stddev	.0004744	.0002268	.07588	.0008502	.0007250	.0002596	.9329
%RSD	.8905185	.8958801	.0797011	.1784289	.1840475	.2476166	.6285821
#1	.0531286	.0251914	95.11257	.4756682	.3938413	.1046614	148.7167
#2	.0528875	.0251684	95.23318	.4764584	.3946488	.1051258	149.1499
#3	.0538028	.0255721	95.25263	.4773673	.3932021	.1046927	147.3617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.270727	144.8194	.4990641	-.012989	4.651402	.4614275	4.516949
Stddev	.016086	.1343	.0013933	.000179	.037026	.0012538	.010086
%RSD	.3051919	.0927581	.2791745	1.375124	.7960233	.2717252	.2232893
#1	5.259350	144.6797	.4993416	-.012903	4.653057	.4601968	4.510539
#2	5.263701	144.8310	.5002977	-.012870	4.687572	.4627033	4.528575
#3	5.289131	144.9476	.4975530	-.013195	4.613576	.4613822	4.511733

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.05087	-.037929	.0027011	.0153159	.4394604	2.008170	5.299862
Stddev	.14641	.007953	.0000777	.0005603	.0011688	.019627	.018040
%RSD	.6954919	20.96740	2.875917	3.658237	.2659704	.9773810	.3403804
#1	21.04584	-.034949	.0027270	.0158822	.4381236	2.013962	5.319820
#2	21.19973	-.031896	.0027626	.0147618	.4399677	2.024249	5.295047
#3	20.90705	-.046941	.0026138	.0153037	.4402899	1.986298	5.284717

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1810-01 Acquired: 3/21/2024 20:16:50 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1136953	.0095467	.2014876	z *****
Stddev	.0003472	.0000722	.0018106	-----
%RSD	.3054126	.7563386	.8986335	-----
#1	.1140953	.0095103	.2003128	z 9614.212
#2	.1135197	.0095000	.2005773	z 9578.427
#3	.1134710	.0096299	.2035728	z 9611.505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6400.194	161664.6	24791.02	6109.785	4469.335
Stddev	13.277	316.5	188.01	10.129	8.073
%RSD	.2074391	.1957873	.7583859	.1657762	.1806358
#1	6402.931	161777.6	24893.65	6120.665	4465.073
#2	6411.889	161307.1	24905.38	6100.629	4478.646
#3	6385.763	161909.2	24574.03	6108.062	4464.287

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159695BL Acquired: 3/21/2024 20:21:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000693**	**.0010162**	**-.000537**	**.0000768**	**-.000957**	**.0169034**	**-.000913**
Stddev	.000859	.0013246	.001015	.0022100	.000562	.0078172	.000615
%RSD	123.9405	130.3455	188.8673	2878.379	58.74380	46.24621	67.33179
#1	-.001613	.0024098	-.000770	-.002183	-.000357	.0233057	-.001622
#2	-.000555	-.000226	-.001416	.002233	-.001041	.0081917	-.000598
#3	.000089	.000865	.000574	.000181	-.001472	.0192128	-.000520

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000591**	**-.000097**	**.0213188**	**.0001366**	**-.000089**	**-.000279**	**.0192072**
Stddev	.0000501	.000066	.0063548	.0001257	.000141	.000408	.0029854
%RSD	84.80588	68.42517	29.80838	92.00244	158.5570	146.0086	15.54295
#1	.0000298	-.000022	.0240429	.0000850	-.000241	-.000003	.0226450
#2	.0001169	-.000148	.0140560	.0002799	.000037	-.000087	.0177077
#3	.0000305	-.000120	.0258573	.0000449	-.000063	-.000748	.0172688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006655**	**.0143911**	**-.000093**	**.0006200**	**.0985705**	**.0007012**	**.0007060**
Stddev	.0001242	.0081327	.000022	.0003108	.0084559	.0003241	.0001696
%RSD	18.65743	56.51169	23.37230	50.12711	8.578558	46.22583	24.02788
#1	.0007647	.0229280	-.000118	.0009676	.0891013	.0006258	.0007720
#2	.0007055	.0135112	-.000084	.0005233	.1053677	.0010564	.0005133
#3	.0005262	.0067342	-.000078	.0003690	.1012424	.0004214	.0008327

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1259588**	**-.005870**	**-.000263**	**.0023520**	**.0003262**	**.0257138**	**.0001667**
Stddev	.0224454	.000721	.000110	.0004171	.0007217	.0084924	.0002847
%RSD	17.81967	12.27979	41.81931	17.73515	221.2271	33.02652	170.7690
#1	.1001760	-.005235	-.000384	.0021275	-.000359	.0355130	.0004459
#2	.1411380	-.005721	-.000170	.0020952	.000258	.0211351	.0001773
#3	.1365624	-.006653	-.000235	.0028332	.001080	.0204934	-.000123

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159695BL Acquired: 3/21/2024 20:21:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0004008	.0023534	-.000092	z *****
Stddev	.0001710	.0000986	.000036	-----
%RSD	42.67105	4.189719	38.56734	-----
#1	.0003552	.0024659	-.000055	z 2463.837
#2	.0002572	.0022822	-.000126	z 2472.372
#3	.0005900	.0023120	-.000096	z 2465.098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4082.017	104137.9	14658.33	3890.439	5619.299
Stddev	8.770	438.1	62.72	17.942	9.062
%RSD	.2148469	.4206502	.4278493	.4611715	.1612657
#1	4072.172	103635.7	14725.75	3869.763	5615.043
#2	4084.885	104441.4	14601.72	3899.655	5613.149
#3	4088.994	104336.7	14647.51	3901.900	5629.706

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159695BS Acquired: 3/21/2024 20:25:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7566409**	**2.146420**	**.9971493**	**1.907556**	**.7886585**	**1.969295**
Stddev	.0042900	.037077	.0023549	.003162	.0016169	.098892
%RSD	.5669833	1.727370	.2361597	.1657686	.2050181	5.021686
#1	.7517519	2.182660	.9965488	1.909306	.7869012	1.860157
#2	.7597764	2.148041	.9951529	1.903906	.7900832	1.994775
#3	.7583943	2.108560	.9997463	1.909456	.7889912	2.052954

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1935495**	**.1954504**	**.1908540**	**1.030072**	**.4110359**	**.1853874**
Stddev	.0105016	.0047917	.0002771	.058219	.0023721	.0003143
%RSD	5.425816	2.451623	.1452030	5.651897	.5770960	.1695072
#1	.1821443	.1918060	.1906051	.967394	.4089106	.1850497
#2	.1956846	.1936672	.1908044	1.040362	.4135949	.1856712
#3	.2028194	.2008781	.1911526	1.082459	.4106022	.1854412

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2901560**	**2.898144**	**.1978807**	**1.909418**	**.4828428**	**.0807539**
Stddev	.0008596	.098116	.0097099	.069176	.0003144	.0007302
%RSD	.2962549	3.385464	4.906940	3.622861	.0651220	.9042757
#1	.2895294	2.785617	.1870611	1.841189	.4830758	.0805520
#2	.2898027	2.965805	.2007442	1.907562	.4829675	.0815639
#3	.2911360	2.943011	.2058368	1.979503	.4824851	.0801459

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.919474**	**.2890820**	**.2100875**	**9.411853**	**.3215600**	**.3861344**
Stddev	.134684	.0160566	.0019121	.335051	.0085995	.0003959
%RSD	4.613289	5.554326	.9101440	3.559888	2.674294	.1025291
#1	2.765571	.2709984	.2078877	9.025455	.3144441	.3862492
#2	3.015792	.2945812	.2113517	9.621832	.3191201	.3856938
#3	2.977060	.3016664	.2110230	9.588273	.3311157	.3864602

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159695BS Acquired: 3/21/2024 20:25:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6577119	.2002334	.9756740	F .5740346	F .0006169	F .0236808
Stddev	.0004498	.0102659	.0359530	.0005833	.0001837	.0011638
%RSD	.0683837	5.126973	3.684937	.1016156	29.78204	4.914318
#1	.6581764	.1890302	.9342244	.5735072	.0007748	.0223906
#2	.6572785	.2024799	.9943833	.5739354	.0006607	.0240006
#3	.6576809	.2091900	.9984143	.5746611	.0004152	.0246513

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.1933246	z *****
Stddev	.0102908	-----
%RSD	5.323087	-----
#1	.1819860	z 12530.49
#2	.1959154	z 12579.55
#3	.2020725	z 12597.68

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4155.741	104600.6	15023.75	3961.618	5543.294
Stddev	3.669	788.5	301.08	36.247	2.289
%RSD	.0882830	.7538424	2.003998	.9149640	.0412849
#1	4158.727	105112.5	15281.99	3991.043	5540.652
#2	4156.850	103692.5	15096.20	3921.127	5544.670
#3	4151.646	104996.6	14693.06	3972.683	5544.560

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159714BL Acquired: 3/21/2024 20:29:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001975**	**.0015134**	**-.001082**	**-.001063**	**.0006487**	**-.003959**	**-.000902**
Stddev	.0011627	.0016221	.001489	.004465	.0014100	.003787	.000275
%RSD	588.8012	107.1825	137.6006	420.1476	217.3560	95.66491	30.51345
#1	.0013716	.0014619	-.000932	-.006217	.0012219	-.002912	-.000716
#2	.0001743	.0031606	.000326	.001455	-.000958	-.000805	-.000772
#3	-.000953	-.000082	-.002640	.001575	.001682	-.008160	-.001218

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000011**	**-.000033**	**.0008812**	**.0000419**	**-.000014**	**.0001069**	**-.001912**
Stddev	.000030	.000033	.0027060	.0002134	.000108	.0002175	.002157
%RSD	259.1938	99.48667	307.0878	509.0010	765.9195	203.4310	112.7932
#1	-.000007	-.000059	.0024632	-.000085	.000104	.0000733	.000472
#2	.000016	.000004	-.002243	-.000078	-.000108	.0003393	-.002480
#3	-.000043	-.000043	.002424	.000288	-.000039	-.000092	-.003729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000261**	**-.021533**	**-.000044**	**.0003585**	**.0896435**	**.0019437**	**.0001294**
Stddev	.000146	.002214	.000052	.0000934	.0139998	.0012390	.0001007
%RSD	55.71974	10.28320	116.4706	26.05334	15.61714	63.74404	77.85142
#1	-.000097	-.023083	-.000018	.0004623	.0745637	.0006306	.0000236
#2	-.000315	-.018997	-.000104	.0002812	.0921393	.0030922	.0002241
#3	-.000373	-.022520	-.000011	.0003320	.1022275	.0021084	.0001405

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0900969**	**-.006478**	**-.000138**	**.0020787**	**.0007673**	**.0230215**	**-.000169**
Stddev	.0201728	.000957	.000160	.0001881	.0002314	.0005312	.000085
%RSD	22.39010	14.76870	115.7490	9.050954	30.16098	2.307342	50.07878
#1	.0714636	-.006725	-.000323	.0020879	.0005837	.0235838	-.000082
#2	.0873081	-.005422	-.000054	.0018861	.0006910	.0229525	-.000174
#3	.1115189	-.007288	-.000038	.0022620	.0010272	.0225282	-.000252

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159714BL Acquired: 3/21/2024 20:29:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0002660	.0021222	-.000105	z *****
Stddev	.0002888	.0001071	.000084	-----
%RSD	108.5579	5.045757	79.77503	-----
#1	.0000450	.0020522	-.000068	z 2482.791
#2	.0001603	.0020690	-.000046	z 2494.754
#3	.0005927	.0022455	-.000201	z 2482.664

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4149.876	105085.3	14400.13	3937.319	5655.064
Stddev	5.360	239.2	84.79	17.842	2.861
%RSD	.1291542	.2276107	.5888414	.4531576	.0505847
#1	4155.672	104814.5	14310.84	3918.047	5654.046
#2	4148.854	105173.5	14479.56	3940.648	5658.295
#3	4145.100	105267.8	14409.99	3953.262	5652.852

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159714BS Acquired: 3/21/2024 20:34:15 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7529862**	**2.167824**	**.9824986**	**1.889224**	**.7811483**	**2.032776**
Stddev	.0045094	.032098	.0008743	.003914	.0044549	.010092
%RSD	.5988723	1.480667	.0889871	.2071735	.5702962	.4964768
#1	.7477798	2.132215	.9827648	1.885449	.7764242	2.021564
#2	.7556598	2.194535	.9815222	1.888960	.7817474	2.035629
#3	.7555190	2.176722	.9832089	1.893264	.7852733	2.041134

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2008040**	**.1986971**	**.1887514**	**1.062885**	**.4044526**	**.1826931**
Stddev	.0012884	.0013112	.0003603	.017028	.0003561	.0002816
%RSD	.6416398	.6598729	.1908868	1.602042	.0880465	.1541650
#1	.1995175	.1972672	.1883527	1.065102	.4047670	.1828252
#2	.2008000	.1989813	.1890537	1.044857	.4045249	.1823697
#3	.2020944	.1998429	.1888477	1.078695	.4040659	.1828844

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2870084**	**2.884785**	**.2044258**	**1.976621**	**.4760634**	**.0791169**
Stddev	.0008550	.016055	.0012888	.014623	.0005180	.0002801
%RSD	.2978890	.5565309	.6304510	.7398156	.1088120	.3540373
#1	.2860919	2.885169	.2029981	1.959916	.4766498	.0789950
#2	.2871486	2.868542	.2055033	1.987109	.4758722	.0794373
#3	.2877845	2.900644	.2047760	1.982838	.4756682	.0789185

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.912234**	**.2987008**	**.2073700**	**9.390916**	**.3247491**	**.3834958**
Stddev	.012270	.0045529	.0012078	.046504	.0028531	.0014166
%RSD	.4213313	1.524232	.5824518	.4951987	.8785395	.3693841
#1	2.905075	.2953813	.2083068	9.339055	.3214779	.3819386
#2	2.926402	.2968301	.2077965	9.404791	.3267232	.3838407
#3	2.905225	.3038911	.2060068	9.428904	.3260461	.3847080

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159714BS Acquired: 3/21/2024 20:34:15 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6518647	.2060285	.9559514	F .5658640	F .0008352	F .0243893
Stddev	.0007740	.0016801	.0114520	.0003899	.0003659	.0001045
%RSD	.1187349	.8154570	1.197971	.0689095	43.80842	.4282754
#1	.6519352	.2041443	.9495609	.5663118	.0010826	.0242687
#2	.6510579	.2073708	.9491207	.5655996	.0010081	.0244478
#3	.6526011	.2065703	.9691726	.5656806	.0004149	.0244513

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2001650	z *****
Stddev	.0011144	-----
%RSD	.5567555	-----
#1	.1990774	z 12400.08
#2	.2001131	z 12415.47
#3	.2013045	z 12439.40

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4157.201	105284.8	14591.68	3980.004	5549.512
Stddev	2.596	153.7	62.68	18.206	6.811
%RSD	.0624509	.1459881	.4295336	.4574448	.1227398
#1	4157.483	105107.9	14641.59	3966.926	5544.139
#2	4159.644	105386.1	14612.11	3972.289	5547.223
#3	4154.475	105360.3	14521.34	4000.798	5557.173

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159676TB Acquired: 3/21/2024 20:38:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002756	.0021560	.0013046	.0014299	-.000616	.0205668	-.000240
Stddev	.0012111	.0016020	.0012526	.0041507	.000379	.0098574	.000679
%RSD	439.3717	74.30445	96.01969	290.2788	61.49074	47.92890	283.1002
#1	.0016521	.0006053	.0017809	-.000632	-.000765	.0105664	-.000911
#2	-.000199	.0020580	-.000116	.006208	-.000898	.0208592	.000446
#3	-.000627	.0038048	.002249	-.001286	-.000185	.0302748	-.000254

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000366	-.000006	.0746200	.0053161	.0001923	.0003667	.0627845
Stddev	.0000499	.000032	.0069206	.0002975	.0002712	.0002243	.0035983
%RSD	136.5369	506.5295	9.274393	5.596239	141.0461	61.18287	5.731144
#1	-.000021	.000017	.0733355	.0050272	-.000121	.0003233	.0588498
#2	.000069	.000006	.0820928	.0052995	.000351	.0006095	.0659077
#3	.000062	-.000042	.0684317	.0056215	.000347	.0001672	.0635960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008500	.0546198	.0030144	.0004350	313.3744	.0028755	.0030368
Stddev	.0002132	.0198530	.0003854	.0003075	10.4951	.0015816	.0004008
%RSD	25.08293	36.34763	12.78590	70.68647	3.349050	55.00286	13.19880
#1	.0006451	.0705741	.0029300	.0004866	304.5664	.0039298	.0028672
#2	.0008343	.0323865	.0034350	.0001050	324.9868	.0010569	.0034945
#3	.0010707	.0608988	.0026781	.0007134	310.5701	.0036397	.0027486

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1393617	-.005682	.0006610	.0021483	.0011876	.0273557	.0001025
Stddev	.0316374	.000267	.0002445	.0002965	.0009639	.0052484	.0000861
%RSD	22.70162	4.699206	36.98654	13.80160	81.16507	19.18569	83.98709
#1	.1166844	-.005971	.0004019	.0023732	.0022963	.0214898	.0000090
#2	.1755041	-.005444	.0008876	.0018123	.0007179	.0289698	.0001201
#3	.1258966	-.005630	.0006934	.0022595	.0005485	.0316074	.0001784

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159676TB Acquired: 3/21/2024 20:38:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0003428	.0025400	-.000107	z *****
Stddev	.0003253	.0001511	.000051	-----
%RSD	94.89194	5.948111	48.29396	-----
#1	.0001946	.0024367	-.000093	z 2545.982
#2	.0007157	.0024699	-.000063	z 2536.056
#3	.0001180	.0027134	-.000163	z 2557.374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3912.981	93293.40	14243.84	3613.324	4815.119
Stddev	10.501	3144.92	199.51	125.402	1.860
%RSD	.2683610	3.371004	1.400644	3.470552	.0386329
#1	3920.027	95673.41	14109.31	3712.840	4813.125
#2	3918.005	89728.06	14473.06	3472.472	4816.808
#3	3900.912	94478.72	14149.15	3654.660	4815.423

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-01 Acquired: 3/21/2024 20:43:02 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106445	-.000739	.1409382	-.002020	-.000165	.1175809	.1728065
Stddev	.0006337	.001299	.0013631	.002125	.000279	.0021000	.0017906
%RSD	5.953025	175.7463	.9671657	105.2043	169.1577	1.785964	1.036166
#1	.0108445	.000627	.1398322	-.003025	.000153	.1179918	.1718246
#2	.0111542	-.000886	.1424611	-.003456	-.000282	.1194451	.1717217
#3	.0099350	-.001958	.1405214	.000421	-.000366	.1153059	.1748732

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003299	-.000249	1.462459	-.001328	.0080074	.6688272	27.27214
Stddev	.0000385	.000333	.014215	.000293	.0001465	.0020350	2.04120
%RSD	11.65675	133.9845	.9720259	22.04591	1.829596	.3042622	7.484554
#1	.0003698	-.000629	1.454170	-.001239	.0080816	.6698874	29.62808
#2	.0003270	-.000005	1.454335	-.001090	.0078386	.6701132	26.15453
#3	.0002931	-.000113	1.478874	-.001655	.0081019	.6664810	26.03381

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0762992	.1328308	.0266798	-.001736	432.7419	.0008598	.2376820
Stddev	.0009351	.0018155	.0001698	.000161	32.0284	.0015198	.0205736
%RSD	1.225608	1.366810	.6364333	9.287840	7.401269	176.7562	8.655929
#1	.0753590	.1311575	.0266140	-.001920	469.7241	-.000481	.2614152
#2	.0763096	.1347612	.0268727	-.001670	414.4960	.002511	.2267242
#3	.0772291	.1325737	.0265528	-.001619	414.0058	.000549	.2249068

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3909557	.0405614	.0024174	.2501328	.0031634	1.056326	.0021939
Stddev	.0432246	.0084012	.0001789	.0009269	.0006494	.084199	.0000792
%RSD	11.05613	20.71239	7.400523	.3705549	20.53000	7.970916	3.609528
#1	.4401391	.0502429	.0026082	.2491446	.0032560	1.153129	.0022604
#2	.3737204	.0362504	.0022534	.2509829	.0037617	1.015750	.0021063
#3	.3590078	.0351908	.0023907	.2502710	.0024727	1.000098	.0022150

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-01 Acquired: 3/21/2024 20:43:02 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1373382	.0000758	-.021926	z *****
Stddev	.0003705	.0000574	.002111	-----
%RSD	.2697971	75.70754	9.630141	-----
#1	.1369256	.0001270	-.024363	z 2438.883
#2	.1376425	.0000138	-.020769	z 2456.786
#3	.1374464	.0000868	-.020645	z 2466.417

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3827.038	91608.38	14927.68	3476.084	4790.804
Stddev	12.875	6784.15	145.37	246.278	17.931
%RSD	.3364330	7.405599	.9738105	7.084920	.3742854
#1	3819.728	83783.85	15044.45	3192.747	4784.201
#2	3819.482	95193.19	14973.72	3596.707	4777.110
#3	3841.905	95848.09	14764.87	3638.797	4811.100

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-02 Acquired: 3/21/2024 20:47:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048189	-.000161	.0708359	.0014498	.0007733	.0735539	.1643752
Stddev	.0004603	.001704	.0011229	.0025922	.0012432	.0004429	.0007195
%RSD	9.551227	1058.412	1.585143	178.7941	160.7741	.6021526	.4377226
#1	.0043534	.001382	.0695599	.0043027	-.000659	.0736186	.1642115
#2	.0048297	-.001989	.0716732	-.000761	.001411	.0730822	.1651624
#3	.0052737	.000123	.0712746	.000808	.001568	.0739609	.1637516

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001480	.0000662	1.378105	.0000763	.0036078	.2978082	9.524162
Stddev	.0000677	.0000568	.016266	.0002058	.0001656	.0007704	.055124
%RSD	45.72071	85.84713	1.180285	269.6424	4.590046	.2586910	.5787768
#1	.0000913	.0000679	1.393253	-.000144	.0034264	.2969739	9.476588
#2	.0001299	.0001222	1.380147	.000109	.0037508	.2979580	9.511327
#3	.0002229	.0000085	1.360915	.000264	.0036463	.2984927	9.584571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515267	.0722571	.0129998	-.000160	367.4589	.0009241	.1477053
Stddev	.0003639	.0122038	.0002445	.000188	3.5488	.0003998	.0005676
%RSD	.7062162	16.88938	1.881111	117.8187	.9657682	43.26936	.3842837
#1	.0518103	.0581855	.0129692	-.000197	363.9180	.0005565	.1479921
#2	.0516533	.0786417	.0127720	.000044	367.4432	.0008659	.1470515
#3	.0511164	.0799442	.0132582	-.000326	371.0156	.0013498	.1480723

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3127515	.0324094	.0002164	-.002185	.0011454	.4498459	.0011863
Stddev	.0087385	.0008093	.0003190	.000145	.0002555	.0027330	.0001142
%RSD	2.794071	2.497065	147.4091	6.636933	22.30279	.6075379	9.629793
#1	.3074180	.0315621	-.000078	-.002318	.0014292	.4467085	.0013153
#2	.3080003	.0331743	.000171	-.002030	.0010732	.4511196	.0011459
#3	.3228363	.0324918	.000556	-.002206	.0009338	.4517095	.0010978

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-02 Acquired: 3/21/2024 20:47:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.2352488	.0003569	-.004845	z *****
Stddev	.0012671	.0001450	.000073	-----
%RSD	.5386313	40.61475	1.504102	-----
#1	.2337883	.0003200	-.004768	z 2487.455
#2	.2359032	.0002340	-.004913	z 2501.299
#3	.2360549	.0005168	-.004854	z 2508.576

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3908.268	97853.74	14130.25	3717.117	4885.609
Stddev	5.253	203.55	75.55	18.016	14.770
%RSD	.1344052	.2080119	.5346557	.4846753	.3023155
#1	3908.666	97992.89	14080.91	3708.392	4874.767
#2	3913.310	97948.20	14092.61	3737.835	4902.431
#3	3902.827	97620.12	14217.22	3705.126	4879.628

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-03 Acquired: 3/21/2024 20:52:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113211	-.004295	.1881924	-.004949	.0002194	.1080324	.1806774
Stddev	.0002748	.000794	.0013445	.003140	.0001398	.0017205	.0022747
%RSD	2.427400	18.48557	.7144441	63.46053	63.70440	1.592557	1.258966
#1	.0110951	-.003828	.1885150	-.005349	.0001026	.1089602	.1782766
#2	.0116270	-.005211	.1867159	-.007870	.0003743	.1060472	.1809554
#3	.0112412	-.003845	.1893463	-.001627	.0001813	.1090898	.1828004

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004755	-.000469	2.074679	-.002180	.0091176	.0702906	38.77353
Stddev	.0000422	.000073	.020903	.000131	.0002951	.0006022	.07459
%RSD	8.867465	15.56994	1.007510	6.019952	3.236245	.8567909	.1923787
#1	.0004305	-.000481	2.050544	-.002323	.0093961	.0698729	38.74972
#2	.0005141	-.000390	2.086995	-.002065	.0091482	.0700180	38.85712
#3	.0004819	-.000535	2.086498	-.002152	.0088084	.0709810	38.71375

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1542582	.1613130	.0293269	-.002367	435.1672	.0010720	.2867204
Stddev	.0018675	.0092036	.0003072	.000419	2.8648	.0011882	.0002489
%RSD	1.210654	5.705405	1.047598	17.69405	.6583281	110.8420	.0867904
#1	.1521109	.1553870	.0292250	-.002393	434.1305	.0019268	.2864394
#2	.1551603	.1566361	.0290836	-.002772	438.4061	-.000285	.2869130
#3	.1555035	.1719159	.0296721	-.001936	432.9651	.001574	.2868087

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4242475	.0385244	.0001653	-.001983	.0012991	1.127779	.0029676
Stddev	.0222707	.0025688	.0002095	.000680	.0001515	.011061	.0000808
%RSD	5.249457	6.668062	126.7278	34.28603	11.66013	.9808024	2.721943
#1	.4125558	.0412658	-.000077	-.001217	.0012884	1.131449	.0029052
#2	.4499292	.0381346	.000287	-.002219	.0014557	1.136539	.0030589
#3	.4102574	.0361727	.000285	-.002514	.0011533	1.115349	.0029388

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-03 Acquired: 3/21/2024 20:52:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.4110207	.0000822	-.032172	z *****
Stddev	.0007108	.0000333	.000086	-----
%RSD	.1729389	40.54250	.2674587	-----
#1	.4109522	.0000576	-.032229	z 2498.153
#2	.4103467	.0001201	-.032214	z 2499.203
#3	.4117633	.0000688	-.032073	z 2485.353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3886.861	97136.10	14483.52	3701.190	4848.641
Stddev	10.442	126.66	167.90	9.322	6.462
%RSD	.2686597	.1303925	1.159278	.2518600	.1332673
#1	3889.847	97191.05	14644.61	3711.794	4851.901
#2	3895.485	96991.25	14496.40	3694.287	4852.823
#3	3875.251	97226.02	14309.54	3697.489	4841.199

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV09 Acquired: 3/21/2024 21:03:42 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.838419**	**5.196215**	**4.953404**	**4.681282**	**4.858446**	**10.43375**
Stddev	.027505	.065838	.026879	.026500	.034120	.04357
%RSD	.5684742	1.267043	.5426383	.5660745	.7022920	.4175646
#1	4.828661	5.120200	4.923691	4.662284	4.829774	10.39014
#2	4.869472	5.235194	4.976028	4.711554	4.896184	10.43384
#3	4.817122	5.233252	4.960493	4.670007	4.849380	10.47727

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.15048**	**.2557600**	**2.440428**	**26.05774**	**1.025009**	**2.407881**
Stddev	.09879	.0008131	.014219	.13397	.002303	.013576
%RSD	.9733037	.3179138	.5826377	.5141141	.2247259	.5638309
#1	10.16256	.2549641	2.426490	25.98371	1.025900	2.395128
#2	10.04620	.2557267	2.454912	25.97714	1.022393	2.422153
#3	10.24268	.2565892	2.439882	26.21239	1.026734	2.406363

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.141121**	**5.038792**	**2.555048**	**25.71961**	**2.491253**	**1.312560**
Stddev	.006353	.007779	.013056	.24657	.015319	.001802
%RSD	.5567329	.1543902	.5109718	.9586743	.6148967	.1373083
#1	1.136919	5.044988	2.540652	25.51938	2.476029	1.314467
#2	1.148429	5.030061	2.558369	25.64442	2.506664	1.312326
#3	1.138014	5.041327	2.566122	25.99501	2.491066	1.310885

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.10140**	**2.537154**	**2.551998**	**25.00809**	F **5.677437**	**4.638332**
Stddev	.02710	.009211	.011114	.05004	.025309	.023510
%RSD	.1079599	.3630430	.4355091	.2000889	.4457830	.5068646
#1	25.12608	2.527955	2.557401	24.98960	5.652437	4.617379
#2	25.10574	2.537132	2.559377	25.06475	5.676829	4.663756
#3	25.07240	2.546376	2.539215	24.96994	5.703044	4.633860

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV09 Acquired: 3/21/2024 21:03:42 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.858200**	**5.188682**	**5.425108**	**4.876925**	**4.641419**	**5.311514**
Stddev	.034405	.020745	.045213	.034511	.031625	.045188
%RSD	.7081859	.3998076	.8334077	.7076454	.6813592	.8507570
#1	4.822108	5.174018	5.393376	4.841189	4.609992	5.260094
#2	4.890624	5.179610	5.405070	4.910065	4.673238	5.329543
#3	4.861870	5.212417	5.476877	4.879521	4.641026	5.344903

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.203495**	z *****
Stddev	.022989	-----
%RSD	.4417950	-----
#1	5.203452	z 24666.27
#2	5.180528	z 24732.76
#3	5.226506	z 24686.99

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3908.122**	**97502.11**	**13787.12**	**3706.078**	**4770.884**
Stddev	21.979	199.91	57.58	8.670	31.727
%RSD	.5624041	.2050303	.4176216	.2339335	.6650140
#1	3926.094	97310.06	13824.23	3696.361	4801.558
#2	3883.617	97709.04	13816.34	3708.850	4738.199
#3	3914.655	97487.24	13720.79	3713.022	4772.894

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB09 Acquired: 3/21/2024 21:08:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000142**	**.0017296**	**-.000058**	**.0003242**	**.0023838**	**.0000531**	**.0004539**
Stddev	.000884	.0007697	.001054	.0028275	.0008403	.0086804	.0010916
%RSD	622.9841	44.49815	1828.085	872.1359	35.25019	16344.66	240.5135
#1	-.001088	.0014088	-.000562	.0006964	.0014173	-.002126	.0008976
#2	-.000000	.0011723	.001153	-.002671	.0029419	.009616	.0012537
#3	.000663	.0026078	-.000764	.002947	.0027920	-.007330	-.000790

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000620**	**.0000267**	**.0167272**	**.0000897**	**.0000413**	**-.000050**	**-.000104**
Stddev	.0000174	.0000819	.0125674	.0001726	.0000915	.000318	.001564
%RSD	28.11982	306.9822	75.13177	192.5104	221.7374	629.2941	1509.807
#1	.0000581	.0000132	.0023496	.0000415	.0000671	-.000362	-.001605
#2	.0000468	.0001144	.0256199	-.000054	-.000060	-.000063	.001517
#3	.0000810	-.000048	.0222120	.000281	.000117	.000273	-.000223

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002034**	**-.003836**	**-.000142**	**.0009866**	**.2200188**	**.0014933**	**.0000123**
Stddev	.0002137	.005907	.000103	.0002696	.0046215	.0000630	.0002235
%RSD	105.0698	153.9947	72.59146	27.33158	2.100494	4.218739	1820.985
#1	.0002326	-.010006	-.000052	.0009259	.2149585	.0014745	-.000239
#2	.0004009	-.003268	-.000254	.0012814	.2210816	.0014418	.000190
#3	-.000023	.001767	-.000119	.0007524	.2240163	.0015636	.000085

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1924703**	**.0074818**	**.0001649**	**.0025377**	**.0005884**	**.0240701**	**.0000852**
Stddev	.0025792	.0012942	.0002156	.0005704	.0003954	.0117207	.0001791
%RSD	1.340028	17.29749	130.7547	22.47787	67.20289	48.69392	210.2998
#1	.1937533	.0064858	.0004090	.0029024	.0003162	.0127113	.0001032
#2	.1895013	.0089447	.0000009	.0028305	.0004070	.0361219	.0002546
#3	.1941563	.0070150	.0000846	.0018804	.0010419	.0233771	-.000102

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB09 Acquired: 3/21/2024 21:08:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0005937	.0077854	.0006170	z *****	
Stddev	.0001595	.0003656	.0001467	-----	
%RSD	26.87170	4.696026	23.77518	-----	
#1	.0007744	.0078820	.0007622	z 2510.498	
#2	.0005340	.0080929	.0006202	z 2524.530	
#3	.0004726	.0073811	.0004688	z 2502.892	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4133.211	102575.3	14389.14	3835.140	5590.454
Stddev	4.120	683.7	373.53	9.663	4.481
%RSD	.0996829	.6665006	2.595916	.2519652	.0801515
#1	4137.951	103364.3	14766.75	3846.281	5586.179
#2	4131.197	102203.0	14019.83	3830.111	5590.069
#3	4130.486	102158.7	14380.83	3829.029	5595.115

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-04 Acquired: 3/21/2024 21:12:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082080**	**-.003408**	**.0870841**	**.0005219**	**.0004433**	**.0098393**	**.1366239**
Stddev	.0006641	.000816	.0011773	.0012985	.0009737	.0058588	.0011267
%RSD	8.090816	23.94527	1.351900	248.8066	219.6517	59.54500	.8247097
#1	.0084499	-.003634	.0873405	.0005546	-.000493	.0124388	.1353598
#2	.0074569	-.004087	.0881120	-.000793	.001451	.0031305	.1375226
#3	.0087172	-.002503	.0857997	.001804	.000372	.0139485	.1369894

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001814**	**-.000540**	**.4279717**	**-.000525**	**.0036182**	**.0036564**	**16.43891**
Stddev	.0000429	.000030	.0100596	.000107	.0001803	.0002844	.04607
%RSD	23.67052	5.532703	2.350532	20.39669	4.982887	7.777460	.2802409
#1	.0002018	-.000529	.4379935	-.000616	.0036571	.0037538	16.48252
#2	.0002104	-.000517	.4280469	-.000407	.0034216	.0033361	16.44349
#3	.0001321	-.000574	.4178747	-.000553	.0037758	.0038792	16.39072

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0781719**	**.0053302**	**.0045333**	**-.000233**	**340.3044**	**.0010514**	**.0782893**
Stddev	.0003452	.0170721	.0004068	.000148	1.5330	.0006725	.0005925
%RSD	.4415568	320.2877	8.973713	63.52444	.4504748	63.96163	.7568186
#1	.0778719	.0068270	.0049143	-.000177	338.8397	.0012105	.0776742
#2	.0780947	.0216047	.0045807	-.000401	341.8976	.0016301	.0783375
#3	.0785491	-.012441	.0041048	-.000122	340.1758	.0003136	.0788562

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2305624**	**.0309308**	**-.000051**	**-.001426**	**.0004257**	**.4243945**	**.0033141**
Stddev	.0258823	.0012944	.000149	.000267	.0006742	.0040378	.0003346
%RSD	11.22575	4.184665	290.4406	18.70225	158.3704	.9514351	10.09642
#1	.2147673	.0305613	-.000183	-.001679	.0011714	.4287500	.0031199
#2	.2604322	.0323698	-.000080	-.001148	.0002465	.4236575	.0037005
#3	.2164876	.0298615	.000110	-.001450	-.000141	.4207759	.0031220

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-04 Acquired: 3/21/2024 21:12:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.4901365	.0001940	-.013811	z *****
Stddev	.0007703	.0000645	.000071	-----
%RSD	.1571684	33.26435	.5148490	-----
#1	.4905006	.0002447	-.013889	z 2417.816
#2	.4892516	.0001214	-.013749	z 2397.836
#3	.4906574	.0002158	-.013797	z 2401.639

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3949.388	100165.5	14976.44	3752.735	4977.999
Stddev	12.650	224.4	36.40	15.332	1.357
%RSD	.3202915	.2240597	.2430555	.4085563	.0272580
#1	3963.995	99910.7	15012.71	3753.549	4979.186
#2	3942.127	100333.6	14976.70	3737.011	4978.292
#3	3942.043	100252.3	14939.90	3767.643	4976.520

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-05 Acquired: 3/21/2024 21:17:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0287004	-.001753	.1832356	-.000634	.0005001	.0296695	.1598655
Stddev	.0024398	.001195	.0022715	.002615	.0012659	.0037944	.0030165
%RSD	8.501118	68.18744	1.239646	412.1420	253.1146	12.78888	1.886882
#1	.0313165	-.001447	.1855218	.002344	.0006494	.0297821	.1568618
#2	.0282979	-.003072	.1809791	-.001694	-.000834	.0334064	.1598403
#3	.0264868	-.000741	.1832058	-.002553	.001685	.0258201	.1628946

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001174	-.000266	1.328840	.0004481	.0029339	.0446190	15.66692
Stddev	.0000639	.000057	.023659	.0002896	.0001754	.0005596	.06100
%RSD	54.45467	21.64168	1.780399	64.61300	5.979967	1.254096	.3893770
#1	.0001667	-.000208	1.303055	.0006169	.0027741	.0451126	15.59684
#2	.0000452	-.000323	1.333916	.0006137	.0029059	.0440111	15.70812
#3	.0001403	-.000266	1.349549	.0001138	.0031216	.0447333	15.69580

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1219446	.1491158	.0138284	-.000653	483.9014	.0018709	.2455922
Stddev	.0030272	.0147444	.0001662	.000307	5.3071	.0007322	.0007795
%RSD	2.482408	9.887911	1.202122	46.98457	1.096738	39.13533	.3173897
#1	.1186941	.1320950	.0139492	-.000725	478.7137	.0011566	.2459981
#2	.1224564	.1572836	.0136388	-.000918	483.6700	.0026198	.2446936
#3	.1246832	.1579687	.0138972	-.000317	489.3204	.0018364	.2460850

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5028553	.0501617	.0002029	-.002323	.0003674	.4403166	.0029321
Stddev	.0208310	.0002538	.0000320	.000413	.0005727	.0043041	.0000204
%RSD	4.142533	.5058713	15.77742	17.79151	155.8940	.9775025	.6971945
#1	.4914884	.0499609	.0001659	-.002246	.0010286	.4432697	.0029421
#2	.5268970	.0504469	.0002212	-.001953	.0000448	.4423019	.0029457
#3	.4901806	.0500774	.0002214	-.002769	.0000287	.4353782	.0029086

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-05 Acquired: 3/21/2024 21:17:10 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.5460344	.0008794	-.009436	z *****	
Stddev	.0064016	.0000978	.000082	-----	
%RSD	1.172384	11.12185	.8668039	-----	
#1	.5522628	.0007914	-.009499	z 2401.396	
#2	.5394726	.0008620	-.009465	z 2393.563	
#3	.5463678	.0009846	-.009343	z 2386.753	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3872.429	96502.04	14763.28	3626.282	4801.638
Stddev	19.806	178.63	263.81	17.473	22.237
%RSD	.5114620	.1851098	1.786961	.4818301	.4631043
#1	3852.400	96369.76	15015.24	3621.012	4779.534
#2	3892.004	96705.25	14785.57	3645.783	4824.005
#3	3872.883	96431.13	14489.03	3612.052	4801.374

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-06RE Acquired: 3/21/2024 21:21:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0235056	k -.003199	k .1186701	k -.000091	k .0006124	k .0210709	.1433337
Stddev	.0026023	.000380	.0029900	.000773	.0002695	.0055301	.0009583
%RSD	11.07086	11.86145	2.519566	854.0082	44.00364	26.24526	.6685887
#1	.0214044	-.003623	.1169620	-.000977	.0008045	.0240403	.1422445
#2	.0226960	-.002890	.1169257	.000261	.0007285	.0146904	.1440475
#3	k .0264165	k -.003085	k .1221225	k .000445	k .0003044	k .0244820	.1437090

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001078	k .0005670	k .8864463	s -.000046	k .0037853	k .0165416	s 13.12314
Stddev	.0000108	.0016639	.0740307	.000953	.0001553	.0014606	5.06039
%RSD	10.06376	293.4841	8.351399	2092.457	4.103536	8.829940	38.56081
#1	.0001105	-.000395	.9172332	-.000757	.0037936	.0153593	15.98827
#2	.0001171	-.000392	.9401157	-.000417	.0036259	.0160912	16.10088
#3	.0000959	k .002488	k .8019901	s .001038	k .0039363	k .0181744	s 7.28027

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1267205	.1163844	.0082735	s .0007668	s 311.9194	k .0009225	k .2012508
Stddev	.0011206	.0172167	.0002980	.0020501	117.6492	.0005722	.0046232
%RSD	.8843014	14.79296	3.601215	267.3496	37.71781	62.02687	2.297234
#1	.1254642	.0997125	.0082366	-.000728	377.4896	.0005197	.2041188
#2	.1276171	.1340985	.0079957	-.000075	382.1720	.0015775	.2037162
#3	.1270802	.1153422	.0085882	s .003104	s 176.0968	k .0006704	k .1959175

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .3282004	k .0226206	-.000171	k -.002385	k -.000022	s .3581246	k .0023354
Stddev	.1158253	.0363244	.000239	.000901	.000778	.1403577	.0001526
%RSD	35.29101	160.5808	140.1323	37.78136	3587.598	39.19242	6.536178
#1	.4126786	.0431880	-.000407	-.003286	-.000692	.4378751	.0022467
#2	.3757560	.0439944	-.000176	-.001484	-.000205	.4404385	.0022478
#3	s .1961667	k -.019321	.000071	k -.002383	k .000832	s .1960603	k .0025116

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-06RE Acquired: 3/21/2024 21:21:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	k .5277629	.0003623	k -.005094	z *****
Stddev	.0146729	.0000236	.009238	-----
%RSD	2.780198	6.503872	181.3407	-----
#1	.5198049	.0003874	-.010428	z 2401.837
#2	.5187884	.0003589	-.010427	z 2414.751
#3	k .5446955	.0003406	k .005573	z 2403.900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3883.899	^ *****	15067.84	3759.488	4889.670
Stddev	69.563	-----	89.28	86.866	98.009
%RSD	1.791049	-----	.5925003	2.310571	2.004410
#1	3923.462	98540.78	15169.14	3720.866	4947.753
#2	3924.656	98286.64	15000.64	3698.631	4944.744
#3	3803.578	^ -----	15033.73	3858.967	4776.512

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-07 Acquired: 3/21/2024 21:26:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0188197	-.002288	.1144262	-.000785	-.000897	.0158789	.1115416
Stddev	.0016678	.000676	.0034450	.001164	.001707	.0050260	.0004841
%RSD	8.861952	29.55572	3.010716	148.2921	190.4145	31.65249	.4340356
#1	.0196990	-.001950	.1123867	-.000014	.000810	.0215971	.1110109
#2	.0198638	-.001848	.1124882	-.000217	-.000895	.0121611	.1119591
#3	.0168963	-.003067	.1184038	-.002125	-.002605	.0138783	.1116548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001789	-.000361	.7575131	-.000208	.0033224	.0052696	15.72828
Stddev	.0000492	.000080	.0054743	.000237	.0000235	.0003263	.12969
%RSD	27.49019	22.01430	.7226689	113.6183	.7085564	6.191532	.8245451
#1	.0001479	-.000434	.7552553	-.000478	.0033032	.0048940	15.57980
#2	.0002356	-.000374	.7535289	-.000034	.0033152	.0054323	15.78567
#3	.0001532	-.000276	.7637553	-.000113	.0033486	.0054825	15.81936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1083133	.0473913	.0065004	-.000584	354.9496	.0019015	.1587392
Stddev	.0008679	.0074184	.0001236	.000317	2.9279	.0008433	.0003101
%RSD	.8013043	15.65343	1.901214	54.19959	.8248703	44.34765	.1953763
#1	.1075014	.0552821	.0066385	-.000824	351.8911	.0014252	.1585447
#2	.1082105	.0463328	.0064625	-.000703	355.2310	.0014041	.1585761
#3	.1092281	.0405591	.0064002	-.000225	357.7266	.0028751	.1590969

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3337349	.0301609	-.000409	-.002124	.0007056	.4217415	.0024118
Stddev	.0264053	.0006313	.000312	.000418	.0004797	.0082445	.0002546
%RSD	7.912053	2.092980	76.15654	19.69014	67.99006	1.954879	10.55711
#1	.3054618	.0308898	-.000700	-.002607	.0006777	.4151369	.0026220
#2	.3379864	.0298021	-.000448	-.001888	.0002404	.4191060	.0021287
#3	.3577565	.0297908	-.000080	-.001877	.0011987	.4309815	.0024847

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-07 Acquired: 3/21/2024 21:26:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5311887	.0004389	-.011907	z *****
Stddev	.0152737	.0000621	.000052	-----
%RSD	2.875382	14.14219	.4342598	-----
#1	.5207884	.0004355	-.011858	z 2374.376
#2	.5240535	.0005025	-.011903	z 2385.947
#3	.5487242	.0003785	-.011961	z 2392.764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3889.371	100231.8	15109.81	3746.243	4915.181
Stddev	80.157	72.9	69.04	7.045	110.211
%RSD	2.060926	.0727688	.4569379	.1880553	2.242256
#1	3944.588	100258.1	15103.53	3747.229	4997.452
#2	3926.094	100288.0	15181.77	3752.743	4958.131
#3	3797.432	100149.4	15044.12	3738.757	4789.962

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-08 Acquired: 3/21/2024 21:30:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0336874	-.006040	.4220483	-.000965	.0022598	.0821138	.1530825
Stddev	.0008320	.000791	.0013683	.003887	.0020090	.0070825	.0020434
%RSD	2.469659	13.09625	.3242161	402.6653	88.90449	8.625203	1.334829
#1	.0346430	-.006949	.4225299	.001274	.0003359	.0806951	.1511514
#2	.0331243	-.005502	.4205043	.001283	.0043444	.0758481	.1528739
#3	.0332950	-.005670	.4231108	-.005453	.0020990	.0897983	.1552222

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003062	.0001354	4.652512	.0122848	.0056835	.0702414	21.07572
Stddev	.0000601	.0001910	.073646	.0001206	.0000973	.0002642	.38676
%RSD	19.63022	141.0423	1.582936	.9815332	1.711416	.3761785	1.835110
#1	.0002374	.0002695	4.567504	.0122326	.0056105	.0705355	21.02680
#2	.0003326	-.000083	4.696999	.0124227	.0056462	.0701649	21.48462
#3	.0003486	.000220	4.693034	.0121991	.0057939	.0700239	20.71575

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2737946	.5022567	.0316819	-.001131	367.4474	.0014395	.5130509
Stddev	.0036279	.0189446	.0001258	.000081	5.8388	.0005933	.0112704
%RSD	1.325051	3.771895	.3972093	7.122869	1.589025	41.21516	2.196745
#1	.2696394	.4935852	.0315744	-.001051	366.1070	.0018409	.5108468
#2	.2754108	.4891999	.0316511	-.001130	373.8399	.0017196	.5252606
#3	.2763334	.5239851	.0318203	-.001212	362.3954	.0007580	.5030454

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7217185	.0453146	.0001429	-.002053	.0005818	.6996067	.0020259
Stddev	.0027736	.0004433	.0002197	.000342	.0002579	.0229701	.0001630
%RSD	.3843093	.9783488	153.7275	16.65961	44.33073	3.283283	8.046621
#1	.7185493	.0455605	.0002162	-.001751	.0003810	.6878379	.0021963
#2	.7237035	.0455805	.0003167	-.001984	.0008727	.7260761	.0018714
#3	.7229026	.0448028	-.000104	-.002424	.0004918	.6849060	.0020100

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-08 Acquired: 3/21/2024 21:30:46 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.8855203	.0005599	-.010408	z *****
Stddev	.0015514	.0000586	.000347	-----
%RSD	.1751920	10.45944	3.336542	-----
#1	.8857379	.0005871	-.010554	z 2458.275
#2	.8869514	.0005999	-.010658	z 2442.595
#3	.8838717	.0004927	-.010011	z 2437.500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3905.543	98188.31	15065.29	3666.862	4942.748
Stddev	10.502	2189.20	137.63	75.332	6.219
%RSD	.2688961	2.229597	.9135696	2.054396	.1258243
#1	3893.528	97716.05	15223.99	3673.862	4939.321
#2	3912.973	96273.78	14993.34	3588.275	4949.926
#3	3910.127	100575.1	14978.55	3738.450	4938.995

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-09 Acquired: 3/21/2024 21:35:18 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046267**	**.0002420**	**.0715979**	**.0008187**	**-.000878**	**.0073087**	**.1565872**
Stddev	.0020259	.0010248	.0004275	.0006170	.002023	.0101851	.0016704
%RSD	43.78733	423.4897	.5970949	75.36472	230.4911	139.3566	1.066768
#1	.0067338	.0013265	.0711429	.0001063	-.003122	-.004156	.1549444
#2	.0044533	.0001097	.0719913	.0011674	-.000319	.015311	.1565333
#3	.0026931	-.000710	.0716595	.0011825	.000807	.010772	.1582840

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000003**	**-.000225**	**.2745404**	**-.000032**	**.0023429**	**.0058888**	**6.229630**
Stddev	.000018	.000149	.0077177	.000185	.0001271	.0002923	.594624
%RSD	630.6276	66.34163	2.811150	581.6206	5.423674	4.963318	9.545089
#1	-.000003	-.000138	.2774165	-.000036	.0022003	.0061978	5.974736
#2	.000015	-.000140	.2657976	-.000214	.0023840	.0058519	5.804945
#3	-.000021	-.000397	.2804071	.000155	.0024443	.0056168	6.909208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0362622**	**.0050355**	**.0027999**	**.0002421**	**394.6287**	**.0021433**	**.1035572**
Stddev	.0005837	.0030226	.0003142	.0002331	36.6323	.0005658	.0113003
%RSD	1.609582	60.02655	11.22128	96.27311	9.282714	26.40070	10.91213
#1	.0357047	.0083487	.0024457	.0002174	379.4760	.0021447	.0989847
#2	.0362131	.0043292	.0030449	.0000224	368.0038	.0027084	.0952597
#3	.0368689	.0024285	.0029092	.0004866	436.4061	.0015767	.1164272

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2947716**	**.0391014**	**-.000200**	**-.002160**	**-.000181**	**.2410567**	**.0014566**
Stddev	.0497021	.0037786	.000166	.000547	.000363	.0130163	.0002435
%RSD	16.86122	9.663696	83.02534	25.31190	200.7486	5.399690	16.71791
#1	.2896972	.0360861	-.000363	-.001913	-.000178	.2322211	.0016428
#2	.2478014	.0378780	-.000208	-.001781	.000181	.2349449	.0011810
#3	.3468162	.0433402	-.000030	-.002787	-.000546	.2560042	.0015460

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-09 Acquired: 3/21/2024 21:35:18 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3684955	.0007898	-.003471	z *****
Stddev	.0013903	.0001605	.000610	-----
%RSD	.3772842	20.31956	17.57967	-----
#1	.3680159	.0006073	-.003246	z 2407.005
#2	.3700620	.0009089	-.003006	z 2405.265
#3	.3674084	.0008533	-.004162	z 2409.236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3890.666	96465.54	15036.91	3619.272	4851.596
Stddev	13.258	8520.55	62.34	316.248	20.866
%RSD	.3407562	8.832737	.4145637	8.737889	.4300898
#1	3880.369	99200.32	15030.03	3719.841	4838.077
#2	3886.003	103282.9	15102.39	3873.006	4841.083
#3	3905.625	86913.4	14978.29	3264.969	4875.628

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-10 Acquired: 3/21/2024 21:39:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090903**	**-.004689**	**.1066735**	**-.001420**	**.0004330**	**.1044232**	**.2779663**
Stddev	.0002134	.000435	.0006547	.001122	.0021945	.0027364	.0041503
%RSD	2.347293	9.279546	.6137124	79.01883	506.8577	2.620487	1.493110
#1	.0089068	-.004340	.1074266	-.000747	-.001866	.1059421	.2735266
#2	.0090396	-.004551	.1063537	-.002714	.000660	.1060633	.2786233
#3	.0093244	-.005176	.1062401	-.000797	.002505	.1012643	.2817489

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002756**	**.0000297**	**1.695654**	**.0409595**	**.0066696**	**.2488074**	**23.08737**
Stddev	.0000726	.0001464	.030351	.0003107	.0000764	.0017090	.18003
%RSD	26.35940	492.7736	1.789914	.7586563	1.144910	.6868550	.7797863
#1	.0002513	.0001932	1.660622	.0406007	.0065835	.2505974	22.92075
#2	.0002182	-.000015	1.714025	.0411346	.0066962	.2486317	23.06303
#3	.0003573	-.000089	1.712316	.0411432	.0067290	.2471931	23.27833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0749441**	**.1742884**	**.0434889**	**-.001309**	**344.5636**	**.0021348**	**.3404294**
Stddev	.0012618	.0165118	.0004997	.000007	3.2551	.0008569	.0013808
%RSD	1.683630	9.473861	1.148981	.5498647	.9447089	40.14168	.4055927
#1	.0736123	.1921085	.0433470	-.001301	340.8357	.0029703	.3394210
#2	.0750984	.1712496	.0440442	-.001313	346.8431	.0012579	.3420031
#3	.0761216	.1595070	.0430756	-.001314	346.0121	.0021763	.3398640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3769476**	**.0631913**	**.0008939**	**-.001137**	**.0015213**	**.9468935**	**.0022409**
Stddev	.0147047	.0006705	.0003007	.000722	.0005348	.0182715	.0002808
%RSD	3.900989	1.061039	33.64139	63.49496	35.15329	1.929627	12.52810
#1	.3602311	.0624288	.0012318	-.001516	.0020607	.9429738	.0020197
#2	.3878839	.0636884	.0006557	-.001591	.0015119	.9308999	.0021464
#3	.3827278	.0634568	.0007941	-.000305	.0009912	.9668068	.0025568

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-10 Acquired: 3/21/2024 21:39:52 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1881949	.0001606	-.018023	z *****
Stddev	.0018657	.0000259	.000083	-----
%RSD	.9913837	16.11755	.4624422	-----
#1	.1903466	.0001491	-.017982	z 2471.459
#2	.1872125	.0001424	-.017969	z 2449.341
#3	.1870257	.0001902	-.018119	z 2453.636

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3935.171	97654.25	14744.85	3684.934	4943.381
Stddev	22.754	88.31	76.08	10.417	24.049
%RSD	.5782150	.0904320	.5159567	.2826946	.4864835
#1	3909.176	97561.22	14829.43	3693.913	4915.733
#2	3944.866	97736.92	14682.00	3673.513	4954.965
#3	3951.472	97664.62	14723.13	3687.376	4959.445

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-11 Acquired: 3/21/2024 21:44:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028756	-.000439	.0567756	.0035746	-.001038	.0137382	.1362536
Stddev	.0026596	.000867	.0015551	.0010040	.002271	.0083091	.0011931
%RSD	92.48876	197.4497	2.739098	28.08579	218.7262	60.48193	.8756741
#1	.0002174	-.001425	.0585363	.0025535	.000415	.0204595	.1349874
#2	.0028728	-.000103	.0562006	.0036096	-.003656	.0044480	.1364165
#3	.0055366	.000210	.0555898	.0045605	.000126	.0163073	.1373569

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000405	-.000206	.4186841	.0008959	.0028726	.0052137	8.666280
Stddev	.0000699	.000016	.0069076	.0003225	.0000899	.0002217	.048281
%RSD	172.4836	7.597155	1.649830	35.99471	3.130937	4.252549	.5571176
#1	.0000051	-.000210	.4221098	.0006486	.0028740	.0049612	8.610586
#2	.0001211	-.000218	.4232093	.0007783	.0029618	.0053035	8.691962
#3	-.000005	-.000188	.4107332	.0012606	.0027820	.0053765	8.696293

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489913	.0128792	.0033230	-.000153	310.1751	.0009729	.0778966
Stddev	.0010788	.0159795	.0002760	.000230	4.2291	.0005045	.0006455
%RSD	2.202014	124.0720	8.305255	150.9903	1.363466	51.85678	.8286086
#1	.0478150	.0026875	.0030745	-.000398	305.6398	.0005622	.0779650
#2	.0492243	.0312958	.0032745	.000058	310.8747	.0008205	.0785051
#3	.0499345	.0046544	.0036200	-.000118	314.0108	.0015361	.0772197

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2415922	.0257356	-.000131	.0020850	.0003373	.2734003	.0018906
Stddev	.0154664	.0012116	.000230	.0006720	.0001452	.0055439	.0001045
%RSD	6.401863	4.707775	174.9022	32.23091	43.03454	2.027762	5.529494
#1	.2399438	.0245666	-.000018	.0015116	.0004957	.2733623	.0019903
#2	.2270161	.0269856	.000020	.0019189	.0002106	.2678755	.0018998
#3	.2578168	.0256545	-.000396	.0028245	.0003056	.2789631	.0017818

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-11 Acquired: 3/21/2024 21:44:23 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3615603	-.000344	-.006128	z *****
Stddev	.0010162	.000068	.000007	-----
%RSD	.2810526	19.77958	.1100042	-----
#1	.3620335	-.000328	-.006136	z 2434.258
#2	.3622536	-.000418	-.006127	z 2452.438
#3	.3603938	-.000284	-.006122	z 2453.088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3975.472	100139.1	14694.76	3763.577	5005.091
Stddev	6.637	187.5	78.23	11.482	9.797
%RSD	.1669390	.1872604	.5323551	.3050781	.1957412
#1	3980.013	100335.3	14784.44	3772.321	5011.505
#2	3978.547	100120.4	14659.22	3750.575	5009.955
#3	3967.855	99961.6	14640.61	3767.836	4993.814

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-12 Acquired: 3/21/2024 21:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029563	-.001764	.0688547	.0013803	-.000030	.0073771	.1247586
Stddev	.0015621	.001888	.0005786	.0015634	.002209	.0013837	.0016059
%RSD	52.84067	107.0204	.8402436	113.2686	7350.956	18.75608	1.287216
#1	.0013480	-.000549	.0683225	.0001619	.002466	.0065186	.1231695
#2	.0044678	-.003940	.0694705	.0031431	-.001734	.0089733	.1263808
#3	.0030531	-.000804	.0687709	.0008358	-.000822	.0066395	.1247253

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000332	-.000218	.2771908	.0010029	.0025976	.0055366	7.112398
Stddev	.0000414	.000042	.0094130	.0001196	.0001425	.0003187	.063652
%RSD	124.6959	19.14309	3.395840	11.92851	5.487246	5.756582	.8949432
#1	.0000607	-.000224	.2880368	.0008781	.0025362	.0054167	7.039520
#2	.0000533	-.000256	.2711531	.0011166	.0027606	.0058979	7.157095
#3	-.000014	-.000173	.2723827	.0010140	.0024961	.0052953	7.140579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410592	.0257262	.0031777	-.000290	392.1235	.0015879	.0895157
Stddev	.0003930	.0179197	.0000963	.000125	7.0718	.0003523	.0021026
%RSD	.9571409	69.65553	3.031336	43.30682	1.803472	22.18325	2.348866
#1	.0409636	.0058570	.0030678	-.000408	384.3239	.0019038	.0879961
#2	.0414912	.0306581	.0032474	-.000158	393.9294	.0016519	.0919154
#3	.0407229	.0406634	.0032180	-.000304	398.1173	.0012081	.0886357

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2875130	.0301113	-.000163	-.001955	.0000873	.2373613	.0018069
Stddev	.0227459	.0027318	.000158	.000502	.0003145	.0110822	.0002505
%RSD	7.911258	9.072255	96.74763	25.68796	360.4240	4.668898	13.86271
#1	.2653752	.0284884	-.000341	-.002534	-.000131	.2254816	.0016360
#2	.3108217	.0332653	-.000040	-.001638	.000448	.2474204	.0016903
#3	.2863420	.0285803	-.000108	-.001694	-.000055	.2391819	.0020945

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-12 Acquired: 3/21/2024 21:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3760629	.0003056	-.004783	z *****
Stddev	.0003156	.0001654	.000042	-----
%RSD	.0839176	54.10025	.8768516	-----
#1	.3757076	.0001722	-.004735	z 2414.534
#2	.3761703	.0002541	-.004801	z 2413.243
#3	.3763108	.0004906	-.004813	z 2406.125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3935.169	98444.36	14711.51	3699.502	4893.659
Stddev	3.209	292.88	99.05	16.084	3.107
%RSD	.0815344	.2975084	.6732689	.4347509	.0634818
#1	3933.280	98777.13	14761.99	3718.013	4891.482
#2	3933.352	98225.75	14597.39	3688.946	4892.279
#3	3938.873	98330.21	14775.16	3691.547	4897.217

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-13 Acquired: 3/21/2024 21:53:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033363	-.000401	.0325943	-.001320	.0002323	.0060842	.1213660
Stddev	.0017333	.002321	.0006793	.000850	.0018406	.0053279	.0023077
%RSD	51.95116	579.3458	2.084197	64.38983	792.2985	87.56954	1.901447
#1	.0034065	-.002251	.0333395	-.002288	.0005516	.0026379	.1217984
#2	.0015691	.002203	.0320095	-.000970	-.001747	.0122208	.1234270
#3	.0050335	-.001155	.0324339	-.000700	.001892	.0033938	.1188727

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001472	-.000428	.4124592	.0000726	.0032954	.0025905	12.82378
Stddev	.0000121	.000060	.0079122	.0003064	.0001866	.0002073	.02873
%RSD	8.245649	14.12322	1.918309	422.1521	5.661489	8.002337	.2239992
#1	.0001465	-.000464	.4168975	.0002587	.0031243	.0024409	12.79310
#2	.0001596	-.000461	.4171560	.0002402	.0034943	.0025035	12.82820
#3	.0001354	-.000358	.4033242	-.000281	.0032676	.0028271	12.85004

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0575105	-.002695	.0025296	-.000553	318.3893	.0008625	.0841535
Stddev	.0009378	.007719	.0002301	.000171	3.3355	.0003453	.0005627
%RSD	1.630716	286.3917	9.097201	30.90652	1.047604	40.02843	.6686549
#1	.0577408	-.006907	.0024147	-.000392	316.9629	.0011460	.0836794
#2	.0583116	-.007393	.0027945	-.000534	316.0042	.0004780	.0847753
#3	.0564789	.006214	.0023795	-.000733	322.2008	.0009635	.0840059

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2462695	.0308488	-.000104	-.002523	.0000246	.3916000	.0020314
Stddev	.0170639	.0003921	.000095	.000726	.0003605	.0142744	.0001117
%RSD	6.928941	1.271067	91.10691	28.77943	1463.030	3.645144	5.499077
#1	.2578810	.0310678	.000004	-.002730	.0002660	.3811899	.0021144
#2	.2542498	.0310826	-.000172	-.003123	.0001977	.3857378	.0020754
#3	.2266777	.0303962	-.000145	-.001716	-.000390	.4078721	.0019044

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-13 Acquired: 3/21/2024 21:53:33 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.2801090	.0007162	-.010559	z *****	
Stddev	.0014070	.0001052	.000090	-----	
%RSD	.5023049	14.69370	.8508406	-----	
#1	.2805636	.0007476	-.010475	z 2411.952	
#2	.2785310	.0005988	-.010550	z 2412.503	
#3	.2812326	.0008021	-.010654	z 2426.826	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3936.137	98435.06	15039.58	3681.319	4938.947
Stddev	9.981	117.02	248.22	6.945	10.471
%RSD	.2535795	.1188835	1.650453	.1886425	.2119991
#1	3932.838	98407.27	14952.36	3676.619	4930.968
#2	3947.350	98563.47	14846.75	3678.043	4950.803
#3	3928.223	98334.43	15319.65	3689.296	4935.070

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV10 Acquired: 3/21/2024 21:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.740991**	**5.011419**	**4.867519**	**4.580942**	**4.782741**	**10.31915**
Stddev	.002931	.030113	.004095	.002428	.003819	.08057
%RSD	.0618314	.6008874	.0841353	.0529937	.0798448	.7807968
#1	4.739610	5.045585	4.872076	4.581952	4.778801	10.24490
#2	4.739005	4.999935	4.864145	4.582702	4.786426	10.30773
#3	4.744358	4.988738	4.866337	4.578173	4.782998	10.40482

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.03039**	**.2489394**	**2.394055**	**25.66240**	**1.014268**	**2.361799**
Stddev	.06752	.0016611	.001870	.23086	.002923	.001491
%RSD	.6731534	.6672814	.0780999	.8996164	.2881515	.0631466
#1	9.96750	.2489725	2.394934	25.46656	1.011804	2.362979
#2	10.02194	.2472619	2.395323	25.60368	1.017497	2.362295
#3	10.10174	.2505837	2.391907	25.91695	1.013503	2.360122

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.162721**	**5.070757**	**2.511613**	**25.13467**	**2.453894**	**1.312119**
Stddev	.001904	.040393	.023395	.20499	.001092	.000280
%RSD	.1637890	.7965780	.9314610	.8155720	.0445041	.0213317
#1	1.161670	5.025972	2.489046	24.95244	2.453014	1.311942
#2	1.164920	5.104431	2.510037	25.09495	2.453553	1.312442
#3	1.161575	5.081869	2.535756	25.35661	2.455116	1.311974

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.71837**	**2.499050**	**2.554902**	**25.37623**	F **5.559803**	**4.513535**
Stddev	.20600	.017203	.009337	.13437	.045574	.009117
%RSD	.8009737	.6883744	.3654484	.5294962	.8197013	.2020034
#1	25.48939	2.483967	2.564819	25.24260	5.576328	4.506948
#2	25.88865	2.495396	2.546281	25.51132	5.508271	4.523941
#3	25.77707	2.517786	2.553606	25.37478	5.594808	4.509715

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV10 Acquired: 3/21/2024 21:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.738956**	**5.118790**	F **5.501516**	**4.773637**	**4.548067**	**5.188257**
Stddev	.004891	.037662	.045629	.002650	.010837	.096198
%RSD	.1032049	.7357510	.8293953	.0555210	.2382667	1.854155
#1	4.739401	5.085688	5.449837	4.775357	4.554711	5.112570
#2	4.733858	5.110917	5.518470	4.774970	4.553929	5.155690
#3	4.743609	5.159766	5.536242	4.770585	4.535562	5.296512

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.069848**	z *****
Stddev	.046511	-----
%RSD	.9174004	-----
#1	5.029998	z 24460.89
#2	5.058592	z 24502.00
#3	5.120953	z 24558.27

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3970.626**	**97559.23**	**14184.06**	**3670.855**	**4824.048**
Stddev	4.948	361.39	44.93	13.171	3.353
%RSD	.1246052	.3704362	.3167707	.3588032	.0695146
#1	3972.019	97584.65	14173.50	3658.202	4821.190
#2	3965.131	97185.80	14233.33	3669.873	4823.215
#3	3974.727	97907.25	14145.35	3684.489	4827.739

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB10 Acquired: 3/21/2024 22:02:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001119	.0019439	-.000559	-.000782	-.000170	.0007046	-.000700
Stddev	.0006966	.0019500	.000480	.002265	.002466	.0081100	.000480
%RSD	622.6540	100.3122	85.94520	289.5876	1448.950	1151.028	68.54924
#1	.0008362	.0000340	-.000723	-.001928	.000075	-.008509	-.000661
#2	.0000528	.0018661	-.000018	-.002245	.002163	.006762	-.001198
#3	-.000553	.0039316	-.000935	.001827	-.002749	.003861	-.000241

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	.0000661	.0111553	-.000126	.0001446	.0002612	.0010773
Stddev	.000035	.0000299	.0014446	.000124	.0000357	.0002549	.0017399
%RSD	3762.967	45.19232	12.94955	98.76310	24.69475	97.56012	161.5030
#1	.000037	.0000940	.0106152	-.000026	.0001667	.0005554	.0012954
#2	-.000008	.0000696	.0127921	-.000086	.0001637	.0001226	-.000761
#3	-.000032	.0000346	.0100586	-.000266	.0001034	.0001058	.002698

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000143	-.014889	-.000020	.0007598	.3515225	.0013950	.0001678
Stddev	.000311	.020388	.000148	.0002842	.0101038	.0005260	.0001340
%RSD	217.0819	136.9288	744.8635	37.39908	2.874291	37.70324	79.87084
#1	-.000141	-.037198	.000148	.0006785	.3399928	.0008067	.0002368
#2	.000167	.002777	-.000076	.0005252	.3557432	.0015585	.0002531
#3	-.000456	-.010247	-.000131	.0010757	.3588316	.0018198	.0000133

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2347865	.0031279	.0003722	.0027396	.0005514	.0240694	.0001210
Stddev	.0102510	.0010990	.0001694	.0002475	.0004193	.0104067	.0000772
%RSD	4.366087	35.13506	45.52164	9.033640	76.03946	43.23622	63.79872
#1	.2425072	.0042195	.0004351	.0029286	.0004682	.0174478	.0001931
#2	.2386962	.0020217	.0005011	.0028308	.0001799	.0360643	.0000395
#3	.2231559	.0031423	.0001803	.0024595	.0010060	.0186959	.0001303

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB10 Acquired: 3/21/2024 22:02:37 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0011368	.0079954	.0001216	z *****	
Stddev	.0002479	.0003011	.0000314	-----	
%RSD	21.80963	3.766253	25.81745	-----	
#1	.0013383	.0076617	.0001024	z 2504.340	
#2	.0012121	.0080774	.0001046	z 2525.450	
#3	.0008599	.0082470	.0001578	z 2502.540	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4153.344	104484.0	14301.42	3892.070	5628.811
Stddev	61.309	468.5	280.71	9.292	88.402
%RSD	1.476146	.4484386	1.962830	.2387369	1.570532
#1	4082.554	104993.5	14624.23	3897.047	5527.032
#2	4189.402	104071.6	14165.44	3881.350	5686.466
#3	4188.075	104387.1	14114.59	3897.813	5672.934

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-14 Acquired: 3/21/2024 22:07:03 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062162	-.003157	.0766631	.0011511	-.000506	.0073981	.1268647
Stddev	.0004695	.001767	.0008890	.0025095	.001377	.0042253	.0012521
%RSD	7.553464	55.95931	1.159662	218.0093	272.1442	57.11369	.9869189
#1	.0067438	-.001621	.0757387	.0036898	.000986	.0042522	.1254566
#2	.0060603	-.005088	.0767389	.0010915	-.001728	.0122007	.1272850
#3	.0058444	-.002763	.0775119	-.001328	-.000776	.0057413	.1278525

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001073	-.000462	.3100792	.0029241	.0025584	.0026947	12.06702
Stddev	.0000623	.000029	.0085375	.0000784	.0002156	.0001801	.22011
%RSD	58.08006	6.267808	2.753318	2.682915	8.426475	6.685266	1.824057
#1	.0000844	-.000432	.3002234	.0029250	.0027683	.0029026	11.84091
#2	.0000597	-.000490	.3151971	.0030021	.0025695	.0025849	12.28060
#3	.0001779	-.000463	.3148171	.0028452	.0023375	.0025966	12.07954

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0645366	.0078747	.0048183	.0000845	358.4770	.0013912	.0920481
Stddev	.0007607	.0035187	.0004108	.0002524	8.8982	.0007823	.0015275
%RSD	1.178749	44.68300	8.525014	298.6646	2.482217	56.23072	1.659464
#1	.0636844	.0051806	.0052458	.0003740	348.3543	.0017892	.0903371
#2	.0651472	.0118557	.0044266	-.000030	365.0635	.0018945	.0932745
#3	.0647782	.0065880	.0047827	-.000090	362.0132	.0004900	.0925328

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2639974	.0411086	.0000106	-.002252	.0003805	.3946802	.0022009
Stddev	.0079155	.0017727	.0000534	.000257	.0006566	.0015680	.0001305
%RSD	2.998320	4.312252	504.8925	11.43144	172.5375	.3972727	5.929821
#1	.2650533	.0399323	-.000045	-.001992	.0006228	.3964739	.0020943
#2	.2556069	.0431475	.000016	-.002507	.0008816	.3935706	.0021620
#3	.2713318	.0402460	.000061	-.002257	-.000363	.3939959	.0023464

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-14 Acquired: 3/21/2024 22:07:03 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5543863	.0002910	-.009818	z *****
Stddev	.0092141	.0000824	.000202	-----
%RSD	1.662029	28.30795	2.058647	-----
#1	.5439536	.0003698	-.009610	z 2406.157
#2	.5614105	.0002979	-.010014	z 2425.195
#3	.5577948	.0002054	-.009829	z 2393.514

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3999.033	96250.60	14722.21	3600.041	4990.791
Stddev	56.570	1344.79	69.80	52.005	63.988
%RSD	1.414592	1.397170	.4741170	1.444569	1.282127
#1	4063.406	97525.76	14798.07	3654.310	5064.627
#2	3976.453	94845.61	14660.70	3550.643	4956.260
#3	3957.241	96380.44	14707.87	3595.168	4951.486

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-15 Acquired: 3/21/2024 22:11:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186746**	**-.002763**	**.1105750**	**-.002759**	**-.000257**	**.0238304**	**.1419018**
Stddev	.0031584	.000522	.0012024	.003496	.002114	.0103177	.0038994
%RSD	16.91269	18.89218	1.087412	126.7087	823.5273	43.29618	2.747967
#1	.0222001	-.003363	.1116888	-.000942	-.002676	.0299899	.1463612
#2	.0161035	-.002414	.1093002	-.006790	.001230	.0119189	.1402118
#3	.0177203	-.002511	.1107359	-.000546	.000676	.0295825	.1391325

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001737**	**-.000417**	**.9112854**	**-.000531**	**.0033108**	**.0136348**	**18.35802**
Stddev	.0000444	.000058	.0241524	.000053	.0001027	.0002164	.07541
%RSD	25.54587	13.81943	2.650370	10.08339	3.103021	1.587430	.4107943
#1	.0001586	-.000372	.9358135	-.000475	.0032417	.0134208	18.41763
#2	.0002237	-.000482	.9105157	-.000582	.0034288	.0136300	18.27324
#3	.0001389	-.000398	.8875271	-.000535	.0032618	.0138535	18.38320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1174838**	**.0863842**	**.0092353**	**-.000730**	**348.8765**	**.0006915**	**.1794027**
Stddev	.0027356	.0069532	.0002415	.000314	5.2180	.0005212	.0015571
%RSD	2.328519	8.049151	2.614975	43.01721	1.495661	75.37297	.8679417
#1	.1204292	.0932167	.0092031	-.000417	343.4634	.0011881	.1777860
#2	.1169995	.0793163	.0090116	-.000726	353.8747	.0007378	.1808924
#3	.1150226	.0866196	.0094913	-.001045	349.2914	.0001487	.1795299

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3655065**	**.0449044**	**-.000119**	**-.001958**	**.0005264**	**.5076947**	**.0015985**
Stddev	.0249605	.0011108	.000093	.000189	.0004028	.0071943	.0001407
%RSD	6.829011	2.473730	78.31577	9.638220	76.51861	1.417059	8.800999
#1	.3672099	.0452216	-.000225	-.002113	.0004479	.5091328	.0015609
#2	.3397379	.0436695	-.000079	-.002014	.0001686	.5140614	.0017542
#3	.3895716	.0458221	-.000052	-.001748	.0009626	.4998899	.0014805

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-15 Acquired: 3/21/2024 22:11:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5401789	.0001634	-.013946	z *****
Stddev	.0008682	.0000707	.000155	-----
%RSD	.1607265	43.24258	1.109159	-----
#1	.5394390	.0001338	-.013827	z 2429.698
#2	.5411347	.0001124	-.013891	z 2431.341
#3	.5399631	.0002441	-.014121	z 2423.698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3946.672	97957.76	14520.30	3671.368	4910.344
Stddev	7.861	164.93	342.24	18.068	9.689
%RSD	.1991920	.1683719	2.357007	.4921423	.1973259
#1	3947.133	98112.96	14169.73	3691.207	4918.359
#2	3954.293	97784.57	14537.60	3655.856	4913.097
#3	3938.591	97975.74	14853.57	3667.041	4899.576

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159715BL Acquired: 3/21/2024 22:16:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013668**	**-.002055**	**-.000298**	**-.002437**	**-.000998**	**-.002563**	**-.000657**
Stddev	.0003602	.001526	.000758	.002382	.000975	.003273	.000687
%RSD	26.35748	74.22815	254.5983	97.74490	97.61484	127.7259	104.6494
#1	.0013910	-.002358	-.001068	-.003458	-.002108	-.003247	.000040
#2	.0017143	-.003407	-.000271	.000285	-.000282	.000999	-.001335
#3	.0009950	-.000401	.000446	-.004139	-.000605	-.005439	-.000676

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000150**	**-.000064**	**-.002262**	**.0000258**	**-.000098**	**.0000928**	**-.000742**
Stddev	.0000177	.000027	.002589	.0000450	.000112	.0002904	.001333
%RSD	118.0191	42.86208	114.4695	174.6010	114.8924	312.9651	179.6640
#1	.0000306	-.000078	.000343	.0000776	-.000062	.0003962	.000259
#2	-.000004	-.000032	-.002294	-.000004	-.000008	.0000646	-.002255
#3	.000019	-.000081	-.004835	.000003	-.000223	-.000182	-.000229

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000065**	**-.003314**	**-.000083**	**.0008378**	**.3331297**	**.0012061**	**-.000267**
Stddev	.000353	.013081	.000084	.0003184	.0097532	.0011477	.000074
%RSD	541.3434	394.6845	100.8424	38.00217	2.927748	95.16070	27.72987
#1	-.000152	.011597	-.000085	.0009499	.3219916	.0000034	-.000183
#2	-.000367	-.012858	.000001	.0004785	.3401413	.0022895	-.000325
#3	.000324	-.008683	-.000166	.0010849	.3372563	.0013254	-.000292

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1996821**	**-.005642**	**-.000147**	**.0024235**	**.0003522**	**.0205441**	**-.000062**
Stddev	.0208176	.000337	.000384	.0003055	.0008637	.0114897	.000093
%RSD	10.42536	5.978509	261.2192	12.60602	245.2594	55.92680	151.6950
#1	.2182570	-.005399	.000095	.0027159	.0003077	.0090801	-.000168
#2	.1771810	-.006027	.000054	.0024483	.0012373	.0204929	-.000021
#3	.2036085	-.005500	-.000590	.0021064	-.000488	.0320593	.000005

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159715BL Acquired: 3/21/2024 22:16:11 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0016739	.0062064	-.000166	z *****
Stddev	.0003808	.0000843	.000056	-----
%RSD	22.74893	1.357742	33.60859	-----
#1	.0016675	.0062836	-.000231	z 2534.916
#2	.0020579	.0062191	-.000138	z 2501.399
#3	.0012963	.0061165	-.000131	z 2513.739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4230.262	105316.4	14634.85	3907.042	5672.870
Stddev	3.977	384.2	23.47	6.263	11.298
%RSD	.0940160	.3647809	.1603502	.1602988	.1991599
#1	4233.164	104973.3	14658.61	3900.190	5676.394
#2	4231.894	105244.4	14634.24	3908.467	5681.987
#3	4225.729	105731.4	14611.69	3912.470	5660.230

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159715BS Acquired: 3/21/2024 22:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7703251	2.211290	1.025151	1.930789	.8044811	2.161844
Stddev	.0034182	.079504	.003925	.019121	.0052289	.007882
%RSD	.4437354	3.595351	.3829053	.9903160	.6499736	.3645974
#1	.7666193	2.122942	1.021343	1.910943	.7988574	2.156835
#2	.7710014	2.233860	1.024926	1.932334	.8053896	2.157768
#3	.7733546	2.277069	1.029184	1.949091	.8091962	2.170930

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2102966	.2098517	.1965680	1.122379	.4260382	.1900089
Stddev	.0004876	.0001849	.0006293	.005512	.0012116	.0006010
%RSD	.2318456	.0881082	.3201208	.4910814	.2843814	.3163124
#1	.2097339	.2097227	.1958962	1.116017	.4263028	.1895632
#2	.2105939	.2100635	.1966642	1.125711	.4270957	.1897711
#3	.2105621	.2097688	.1971436	1.125410	.4247162	.1906925

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2914795	3.038723	.2152872	2.069294	.4995330	.0839692
Stddev	.0013354	.011663	.0007228	.037500	.0010801	.0007651
%RSD	.4581520	.3838210	.3357272	1.812199	.2162291	.9111230
#1	.2901542	3.026301	.2146838	2.059893	.4986655	.0837771
#2	.2914594	3.049440	.2150896	2.037389	.4991907	.0848121
#3	.2928248	3.040427	.2160883	2.110600	.5007428	.0833186

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.211420	.3128065	.2191344	9.932492	.3538481	.3877835
Stddev	.012910	.0023174	.0008915	.032502	.0023719	.0025816
%RSD	.4020162	.7408280	.4068130	.3272286	.6703096	.6657241
#1	3.198831	.3101354	.2201598	9.899814	.3511451	.3852636
#2	3.224630	.3142791	.2187001	9.932846	.3548179	.3876645
#3	3.210798	.3140051	.2185434	9.964815	.3555815	.3904226

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159715BS Acquired: 3/21/2024 22:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6720885	.2172598	1.038731	F .5951812	F .0014551	F .0285377
Stddev	.0045021	.0003948	.013293	.0009784	.0001913	.0001287
%RSD	.6698605	.1817313	1.279692	.1643868	13.14730	.4509774
#1	.6680680	.2168672	1.039412	.5957675	.0016173	.0283918
#2	.6712448	.2176568	1.025111	.5957244	.0012441	.0285863
#3	.6769527	.2172554	1.051669	.5940517	.0015039	.0286350

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2110686	z *****
Stddev	.0008571	-----
%RSD	.4060760	-----
#1	.2100800	z 12559.99
#2	.2115222	z 12584.40
#3	.2116036	z 12616.11

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4172.505	102480.8	14279.35	3827.218	5454.261
Stddev	9.231	349.9	38.03	14.184	9.711
%RSD	.2212283	.3413959	.2663074	.3706094	.1780376
#1	4183.068	102249.9	14291.98	3822.270	5465.041
#2	4168.459	102309.2	14236.61	3816.171	5451.540
#3	4165.987	102883.4	14309.45	3843.213	5446.200

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159640BL Acquired: 3/21/2024 22:24:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000484**	**.0011900**	**-.000299**	**-.002896**	**-.001303**	**.0025535**	**-.000705**
Stddev	.001761	.0016528	.001830	.001696	.001597	.0088805	.000300
%RSD	363.9492	138.8961	612.4406	58.56224	122.6115	347.7817	42.54742
#1	-.002472	-.000662	-.000741	-.001071	-.003061	-.005981	-.000998
#2	.000881	.002514	-.001867	-.003193	.000059	.001897	-.000399
#3	.000139	.001718	.001711	-.004424	-.000907	.011744	-.000718

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000182**	**-.000088**	**.0097385**	**.0000077**	**.0000544**	**.0003839**	**-.002839**
Stddev	.0000530	.000099	.0070714	.0000418	.0002068	.0004231	.002606
%RSD	290.3772	111.7139	72.61254	542.2510	380.0492	110.2100	91.79273
#1	-.000024	-.000201	.0177498	.0000202	.0001513	.0006635	.000074
#2	.000078	-.000042	.0043656	.0000418	.0001950	.0005909	-.004950
#3	.000000	-.000021	.0071002	-.000039	-.000183	-.000103	-.003641

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000287**	**-.016215**	**-.000051**	**.0007137**	**.1888739**	**.0008663**	**-.000232**
Stddev	.000201	.015880	.000279	.0000566	.0118265	.0010473	.000237
%RSD	70.13081	97.93469	548.7020	7.928234	6.261595	120.9036	102.1437
#1	-.000289	-.003814	-.000363	.0006996	.1757203	.0001691	-.000179
#2	-.000085	-.010718	.000035	.0007759	.1986293	.0003591	-.000492
#3	-.000488	-.034113	.000175	.0006655	.1922721	.0020706	-.000026

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1347957**	**-.005568**	**-.000126**	**.0027475**	**-.000176**	**.0163905**	**-.000190**
Stddev	.0180998	.000521	.000099	.0003827	.000353	.0066405	.000159
%RSD	13.42759	9.347787	78.84711	13.92775	200.4666	40.51400	83.46134
#1	.1409529	-.005360	-.000241	.0024623	.000225	.0239672	-.000046
#2	.1144206	-.005184	-.000068	.0031824	-.000313	.0136224	-.000360
#3	.1490137	-.006161	-.000070	.0025977	-.000440	.0115819	-.000165

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159640BL Acquired: 3/21/2024 22:24:48 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0003959	.0042758	-.000155	z *****
Stddev	.0000981	.0001607	.000071	-----
%RSD	24.76967	3.758270	45.63517	-----
#1	.0003974	.0041071	-.000125	z 2522.446
#2	.0004932	.0042933	-.000235	z 2522.433
#3	.0002971	.0044271	-.000104	z 2532.674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4245.587	104774.5	14204.68	3920.880	5688.219
Stddev	12.865	120.9	84.82	2.422	5.610
%RSD	.3030226	.1154152	.5971547	.0617608	.0986263
#1	4237.217	104808.8	14284.19	3923.658	5682.209
#2	4260.401	104640.1	14214.47	3919.217	5693.317
#3	4239.144	104874.5	14115.39	3919.764	5689.131

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159640BS Acquired: 3/21/2024 22:29:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7413346**	**2.136370**	**.9943225**	**1.872292**	**.7831852**	**2.100723**
Stddev	.0015563	.049587	.0012622	.006778	.0020589	.012497
%RSD	.2099283	2.321094	.1269387	.3620136	.2628884	.5948714
#1	.7407686	2.180598	.9935227	1.875543	.7831033	2.086294
#2	.7401406	2.145749	.9936673	1.876832	.7811685	2.107964
#3	.7430947	2.082763	.9957776	1.864501	.7852838	2.107912

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2054671**	**.2059976**	**.1905800**	**1.097666**	**.4136005**	**.1842113**
Stddev	.0021228	.0013744	.0001382	.021898	.0017113	.0002703
%RSD	1.033165	.6672110	.0724938	1.994988	.4137439	.1467612
#1	.2031179	.2048172	.1904260	1.076496	.4116755	.1839819
#2	.2060358	.2075065	.1906207	1.096276	.4141766	.1841426
#3	.2072477	.2056691	.1906932	1.120226	.4149492	.1845094

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2832480**	**2.916518**	**.2102720**	**2.031156**	**.4840043**	**.0815724**
Stddev	.0006135	.023999	.0027773	.031892	.0001892	.0002591
%RSD	.2166045	.8228576	1.320812	1.570155	.0390834	.3176563
#1	.2826694	2.901958	.2077343	1.994462	.4837969	.0812845
#2	.2831832	2.903378	.2098429	2.046806	.4840487	.0817870
#3	.2838913	2.944217	.2132389	2.052200	.4841673	.0816457

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.036897**	**.3043413**	**.2124615**	**9.549246**	**.3474983**	**.3785442**
Stddev	.044408	.0026058	.0004872	.130475	.0024623	.0011512
%RSD	1.462272	.8562259	.2293227	1.366335	.7085893	.3041022
#1	2.997061	.3013342	.2126040	9.446437	.3462086	.3774407
#2	3.028852	.3059388	.2128616	9.505275	.3503376	.3784543
#3	3.084777	.3057507	.2119189	9.696025	.3459487	.3797377

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159640BS Acquired: 3/21/2024 22:29:16 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6531857**	**.2129506**	**.9988792**	F **.5764670**	F **.0011427**	F **.0271053**
Stddev	.0030761	.0017908	.0083558	.0010865	.0002206	.0003752
%RSD	.4709406	.8409506	.8365230	.1884796	19.30837	1.384361
#1	.6562363	.2108937	1.002612	.5762983	.0013746	.0267080
#2	.6532361	.2137955	.989308	.5754747	.0011182	.0271543
#3	.6500847	.2141627	1.004718	.5776280	.0009353	.0274537

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.2056976**	z *****
Stddev	.0022415	-----
%RSD	1.089722	-----
#1	.2031958	z 12366.67
#2	.2063739	z 12417.10
#3	.2075232	z 12408.61

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4180.577**	**103009.2**	**14110.58**	**3860.033**	**5474.579**
Stddev	11.497	251.5	41.23	9.970	3.424
%RSD	.2750141	.2441293	.2921597	.2582863	.0625493
#1	4193.465	102854.1	14135.82	3848.603	5476.710
#2	4176.891	103299.4	14063.01	3866.935	5470.629
#3	4171.375	102874.2	14132.92	3864.563	5476.398

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01 Acquired: 3/21/2024 22:33:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0327112**	**-.006898**	**.0057801**	**-.002433**	**.0012564**	**3.407568**
Stddev	.0030791	.002910	.0022498	.002756	.0007170	.041836
%RSD	9.413091	42.17799	38.92439	113.2748	57.06511	1.227740
#1	.0361983	-.007989	.0031952	-.003885	.0017689	3.366447
#2	.0315688	-.003601	.0072974	.000745	.0004371	3.406173
#3	.0303665	-.009105	.0068476	-.004161	.0015632	3.450084

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2925336**	**.0000328**	**-.000091**	**105.6282**	**.0056048**	**.0017296**
Stddev	.0027189	.0000627	.000136	1.0191	.0003268	.0002543
%RSD	.9294317	191.2983	149.2578	.9648359	5.831436	14.70481
#1	.2893969	-.000035	.000047	104.5416	.0058154	.0018552
#2	.2942168	.000088	-.000226	105.7801	.0057708	.0018968
#3	.2939871	.000046	-.000095	106.5628	.0052283	.0014369

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004086**	**10.56932**	**11.45746**	**25.80313**	**.0053786**	**.0005747**
Stddev	.000161	.07094	.11119	.29346	.0003326	.0001140
%RSD	3.948076	.6712288	.9704950	1.137295	6.183565	19.83632
#1	-.003906	10.48832	11.33592	25.48685	.0050782	.0007032
#2	-.004218	10.59921	11.48239	25.85594	.0053217	.0005351
#3	-.004135	10.62043	11.55407	26.06660	.0057360	.0004858

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**886.0376**	**.0088406**	**.0163975**	**22.98221**	**.6827661**	**.0041883**
Stddev	11.1716	.0013503	.0006174	.17160	.0021826	.0001873
%RSD	1.260849	15.27333	3.764867	.7466700	.3196749	4.471340
#1	874.0782	.0074116	.0169269	22.80186	.6805103	.0041883
#2	896.2047	.0100952	.0157194	23.00131	.6829207	.0040011
#3	887.8299	.0090150	.0165462	23.14346	.6848674	.0043756

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01 Acquired: 3/21/2024 22:33:27 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004850**	**.1504171**	F **28.27409**	**.6473689**	**2.293248**	**.0051073**
Stddev	.000261	.0069349	.22088	.0016427	.007783	.0003455
%RSD	5.388553	4.610453	.7812228	.2537537	.3393765	6.764122
#1	-.004717	.1438166	28.03402	.6454732	2.284568	.0047378
#2	-.004682	.1576440	28.31953	.6483744	2.299604	.0051617
#3	-.005151	.1497906	28.46872	.6482591	2.295571	.0054223

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.6192890**	z *****
Stddev	.0055375	-----
%RSD	.8941765	-----
#1	.6134431	z 2872.829
#2	.6199683	z 2887.084
#3	.6244555	z 2893.199

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3741.757**	**90663.85**	**14460.64**	**3422.357**	**4388.024**
Stddev	13.565	197.61	27.20	12.009	4.880
%RSD	.3625402	.2179589	.1880907	.3509128	.1112052
#1	3756.718	90488.55	14479.81	3411.235	4393.303
#2	3730.259	90625.01	14429.51	3420.744	4383.678
#3	3738.292	90878.00	14472.60	3435.091	4387.091

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01DUP Acquired: 3/21/2024 22:37:56 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0329370**	**-.006258**	**.0040907**	**-.010257**	**-.000150**	**3.503126**
Stddev	.0036935	.001412	.0018309	.004896	.002692	.015648
%RSD	11.21385	22.55746	44.75699	47.73913	1797.648	.4466727
#1	.0301278	-.006818	.0057522	-.009881	-.000720	3.500177
#2	.0371206	-.004652	.0021278	-.005559	.002781	3.489164
#3	.0315624	-.007303	.0043922	-.015330	-.002510	3.520039

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2976455**	**.0000467**	**-.000054**	**107.9818**	**.0057833**	**.0015850**
Stddev	.0016701	.0000584	.000049	.3717	.0002543	.0000695
%RSD	.5610923	125.3109	90.07600	.3442400	4.397978	4.384829
#1	.2970605	.0000382	-.000089	107.7522	.0054932	.0016617
#2	.2963466	.0001089	-.000076	107.7824	.0058884	.0015261
#3	.2995293	-.000007	.000002	108.4106	.0059682	.0015672

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004459**	**10.46454**	**11.69576**	**26.60171**	**.0055451**	**.0003820**
Stddev	.000324	.07023	.02820	.12546	.0002324	.0002975
%RSD	7.266727	.6710989	.2411345	.4716333	4.191342	77.89305
#1	-.004803	10.38394	11.68820	26.53245	.0055915	.0007255
#2	-.004160	10.49715	11.67211	26.52615	.0057508	.0002122
#3	-.004413	10.51253	11.72697	26.74654	.0052930	.0002082

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**876.6842**	**.0082197**	**.0146507**	**22.96537**	**.7112442**	**.0042678**
Stddev	1.2754	.0003575	.0001276	.22239	.0027891	.0004555
%RSD	.1454817	4.349162	.8708659	.9683735	.3921438	10.67293
#1	876.3345	.0086063	.0146428	22.70949	.7141104	.0044212
#2	878.0980	.0081518	.0145272	23.07456	.7085392	.0046267
#3	875.6202	.0079010	.0147821	23.11207	.7110830	.0037554

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01DUP Acquired: 3/21/2024 22:37:56 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004295	.1686538	F 28.35796	.6623693	2.339837	.0070265
Stddev	.000745	.0115350	.17380	.0031800	.004592	.0001665
%RSD	17.34709	6.839460	.6128714	.4800910	.1962579	2.369984
#1	-.003733	.1790007	28.16691	.6602016	2.342342	.0069029
#2	-.004012	.1562165	28.40030	.6608865	2.334538	.0069607
#3	-.005140	.1707441	28.50668	.6660199	2.342633	.0072159

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.6304216	z *****
Stddev	.0017782	-----
%RSD	.2820609	-----
#1	.6301057	z 2866.740
#2	.6288225	z 2881.802
#3	.6323366	z 2896.801

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3691.016	89805.55	13871.04	3393.821	4312.079
Stddev	4.909	106.79	74.61	13.203	2.424
%RSD	.1330066	.1189159	.5379052	.3890205	.0562085
#1	3694.452	89772.39	13791.04	3394.415	4314.374
#2	3693.202	89719.26	13938.73	3380.332	4309.544
#3	3685.393	89924.99	13883.35	3406.717	4312.320

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01LX5 Acquired: 3/21/2024 22:42:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073368	.0004357	.0017377	-.003102	-.000850	.7238894	.0600092
Stddev	.0022083	.0034806	.0016623	.002311	.000655	.0058765	.0009178
%RSD	30.09950	798.7750	95.65961	74.51911	77.11534	.8117890	1.529450
#1	.0073214	.0040748	.0002368	-.005767	-.001573	.7239427	.0609129
#2	.0051362	.0000935	.0014520	-.001641	-.000297	.7297390	.0600370
#3	.0095528	-.002861	.0035243	-.001897	-.000678	.7179864	.0590779

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000390	-.000137	22.12455	.0008255	.0004237	-.001103	2.002620
Stddev	.0001122	.000079	.30221	.0001341	.0001235	.000130	.010206
%RSD	287.4605	57.86649	1.365966	16.24616	29.15292	11.83046	.5096155
#1	.0000643	-.000214	22.47264	.0007738	.0002947	-.001009	1.994248
#2	.0001364	-.000141	21.92912	.0009778	.0004356	-.001252	1.999624
#3	-.000084	-.000056	21.97188	.0007249	.0005409	-.001047	2.013988

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.411673	5.452768	.0009183	.0008770	170.2461	.0022749	.0048167
Stddev	.036127	.082501	.0002659	.0003548	.9290	.0010305	.0000655
%RSD	1.497999	1.513015	28.95600	40.46064	.5456968	45.29697	1.360401
#1	2.453371	5.546041	.0007148	.0005613	170.3511	.0012916	.0048854
#2	2.389768	5.389351	.0008209	.0008086	169.2691	.0033469	.0047550
#3	2.391880	5.422911	.0012191	.0012610	171.1183	.0021863	.0048096

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.303167	.1482278	.0007177	.0010487	.0359708	5.284713	.1234410
Stddev	.032718	.0030310	.0001348	.0004142	.0027137	.052516	.0004324
%RSD	.7603289	2.044842	18.78347	39.49968	7.544254	.9937305	.3503208
#1	4.271499	.1514124	.0006327	.0007449	.0356093	5.273543	.1239397
#2	4.301161	.1478927	.0008732	.0015205	.0334559	5.238680	.1231699
#3	4.336843	.1453782	.0006474	.0008806	.0388471	5.341914	.1232133

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01LX5 Acquired: 3/21/2024 22:42:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.4345165	.0065526	.1270607	z *****	
Stddev	.0007145	.0000574	.0020185	-----	
%RSD	.1644399	.8760027	1.588646	-----	
#1	.4340106	.0066180	.1293883	z 2674.330	
#2	.4342049	.0065107	.1257899	z 2673.065	
#3	.4353339	.0065290	.1260040	z 2690.797	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4008.566	98581.80	13993.02	3757.460	4937.721
Stddev	10.462	141.31	248.47	5.648	8.683
%RSD	.2609948	.1433460	1.775686	.1503085	.1758422
#1	3997.989	98719.45	13706.70	3756.098	4928.427
#2	4008.798	98588.85	14120.27	3752.618	4939.110
#3	4018.910	98437.09	14152.10	3763.664	4945.625

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01MS Acquired: 3/21/2024 22:46:57 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7881811**	**1.931356**	**.9785154**	**1.822072**	**.7888866**	**5.590486**
Stddev	.0033143	.013574	.0036500	.006052	.0033442	.061906
%RSD	.4205029	.7028026	.3730163	.3321382	.4239117	1.107340
#1	.7884155	1.920770	.9750400	1.818753	.7860514	5.521996
#2	.7847559	1.926639	.9781883	1.818405	.7925746	5.642455
#3	.7913721	1.946659	.9823180	1.829057	.7880339	5.607006

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4916797**	**.1915634**	**.1955864**	**106.8832**	**.4052121**	**.1887477**
Stddev	.0025598	.0012833	.0001982	.7243	.0002305	.0004767
%RSD	.5206123	.6699133	.1013598	.6776627	.0568737	.2525327
#1	.4887276	.1902735	.1956038	106.0473	.4049934	.1883181
#2	.4932838	.1928401	.1953801	107.2776	.4051902	.1886645
#3	.4930276	.1915766	.1957754	107.3247	.4054527	.1892605

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2509595**	**13.41833**	**11.73025**	**27.90759**	**.4923290**	**.0832377**
Stddev	.0006614	.05818	.08285	.24157	.0005500	.0003199
%RSD	.2635393	.4335956	.7062761	.8656132	.1117225	.3842767
#1	.2504441	13.39685	11.63804	27.63097	.4926509	.0829133
#2	.2507291	13.37394	11.75428	28.01480	.4916939	.0835528
#3	.2517053	13.48420	11.79842	28.07700	.4926422	.0832469

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**863.2597**	**.3035590**	**.2242879**	**33.10990**	**.9934796**	**.3750376**
Stddev	6.3054	.0024112	.0006209	.12828	.0062665	.0008959
%RSD	.7304206	.7943158	.2768449	.3874443	.6307616	.2388698
#1	861.1189	.3010266	.2241449	33.02020	.9900092	.3744182
#2	858.3035	.3058273	.2249678	33.05266	1.000714	.3746298
#3	870.3569	.3038230	.2237509	33.25684	.989716	.3760648

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01MS Acquired: 3/21/2024 22:46:57 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6736768	.3903314	F 28.95115	1.321814	2.291387	.0291107
Stddev	.0027529	.0034679	.06420	.002597	.000142	.0004443
%RSD	.4086421	.8884551	.2217561	.1964572	.0062150	1.526301
#1	.6708065	.3872951	28.94800	1.320373	2.291515	.0285992
#2	.6739291	.3895887	28.88857	1.324812	2.291413	.0293326
#3	.6762950	.3941106	29.01686	1.320258	2.291234	.0294004

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.8196833	z *****
Stddev	.0045920	-----
%RSD	.5602163	-----
#1	.8145883	z 10906.96
#2	.8209591	z 10883.57
#3	.8235025	z 10940.36

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3714.917	90465.80	13935.55	3457.945	4326.509
Stddev	4.454	185.11	65.04	4.225	5.609
%RSD	.1198866	.2046225	.4667215	.1221693	.1296478
#1	3709.996	90254.98	13996.03	3453.078	4320.372
#2	3716.084	90540.70	13866.75	3460.085	4327.786
#3	3718.671	90601.74	13943.87	3460.671	4331.370

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV11 Acquired: 3/21/2024 22:51:15 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.545273**	**5.160080**	**4.959271**	**4.633194**	**4.856620**	**10.68235**
Stddev	.006716	.018627	.003685	.003821	.007716	.03424
%RSD	.1477606	.3609884	.0743032	.0824727	.1588822	.3205624
#1	4.547398	5.181587	4.963268	4.632236	4.861204	10.65358
#2	4.537752	5.149533	4.958535	4.629942	4.847711	10.67324
#3	4.550670	5.149119	4.956009	4.637402	4.860944	10.72022

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.22885**	**.2605396**	**2.437819**	**26.56506**	**1.034358**	**2.401625**
Stddev	.08602	.0007112	.001862	.10924	.001461	.001984
%RSD	.8409653	.2729832	.0763634	.4112133	.1412063	.0826247
#1	10.24246	.2608387	2.435731	26.46740	1.032875	2.400186
#2	10.13683	.2597276	2.439308	26.54476	1.035795	2.403889
#3	10.30725	.2610524	2.438416	26.68303	1.034406	2.400801

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.170589**	**5.128648**	**2.600220**	**26.14128**	**2.490227**	**1.339235**
Stddev	.001711	.027863	.007328	.10746	.002162	.002590
%RSD	.1462022	.5432906	.2818259	.4110766	.0868044	.1934217
#1	1.171291	5.096475	2.594042	26.03194	2.490075	1.338452
#2	1.168638	5.144527	2.598301	26.14515	2.488146	1.342126
#3	1.171837	5.144943	2.608316	26.24676	2.492461	1.337126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.11775**	**2.577176**	**2.603880**	**25.59196**	F **5.847058**	**4.592233**
Stddev	.14435	.003066	.007441	.15580	.009344	.007061
%RSD	.5526726	.1189583	.2857706	.6087824	.1598117	.1537551
#1	25.96343	2.573827	2.606147	25.44304	5.857832	4.595493
#2	26.24944	2.579845	2.609924	25.75383	5.841170	4.584132
#3	26.14039	2.577856	2.595569	25.57901	5.842172	4.597076

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV11 Acquired: 3/21/2024 22:51:15 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.849210**	**5.287489**	F **5.570537**	**4.998854**	**4.698423**	**5.472244**
Stddev	.004121	.008278	.027459	.002888	.005007	.080338
%RSD	.0849729	.1565592	.4929238	.0577688	.1065583	1.468107
#1	4.847729	5.282173	5.538978	4.996138	4.694697	5.405095
#2	4.846035	5.283267	5.588960	4.998537	4.704114	5.450387
#3	4.853867	5.297027	5.583673	5.001887	4.696457	5.561248

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.269312**	z *****
Stddev	.030018	-----
%RSD	.5696797	-----
#1	5.240575	z 25063.56
#2	5.300466	z 25018.59
#3	5.266895	z 25136.77

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3971.140**	**96618.49**	**13715.21**	**3686.566**	**4793.052**
Stddev	7.255	198.04	30.76	16.224	6.446
%RSD	.1826955	.2049761	.2242853	.4400972	.1344809
#1	3967.160	96664.99	13682.17	3682.025	4793.369
#2	3979.514	96401.34	13743.02	3673.096	4799.333
#3	3966.746	96789.16	13720.45	3704.577	4786.454

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB11 Acquired: 3/21/2024 22:55:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002635	.0000579	.0003068	-.000612	.0006780	.0039469	.0003427
Stddev	.0015630	.0003591	.0011787	.002257	.0023240	.0081754	.0002477
%RSD	593.2589	620.3264	384.2308	368.5386	342.7609	207.1381	72.27755
#1	-.000325	.0003538	.0003995	-.000119	-.001888	.0132941	.0001675
#2	.002035	-.000342	.0014364	.001357	.002642	-.001871	.0002346
#3	-.000920	.000161	-.000916	-.003075	.001280	.000417	.0006261

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000047	-.000003	.0119089	.0000408	.0001350	-.000085	-.005499
Stddev	.000034	.000044	.0124959	.0000723	.0000717	.000319	.000709
%RSD	72.88295	1303.673	104.9294	177.2560	53.12370	374.9816	12.88646
#1	-.000041	-.000028	.0040765	-.000041	.0000661	-.000451	-.005664
#2	-.000016	.000048	.0053304	.000097	.0001297	.000135	-.004722
#3	-.000083	-.000030	.0263198	.000066	.0002092	.000060	-.006111

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000578	-.019876	-.000050	.0003727	.3184490	.0004049	.0000915
Stddev	.0001226	.007851	.000064	.0003678	.0058376	.0016951	.0002481
%RSD	211.8752	39.49890	126.3068	98.70006	1.833145	418.6503	271.2273
#1	-.000040	-.011123	-.000012	.0007875	.3184471	.0020848	.0003648
#2	.000018	-.026294	-.000015	.0000863	.3126123	-.001305	-.000119
#3	.000195	-.022211	-.000124	.0002442	.3242876	.000435	.000029

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2107141	.0044625	.0000999	.0021164	.0011267	.0354632	-.000058
Stddev	.0128788	.0004703	.0002230	.0003308	.0005737	.0131035	.000263
%RSD	6.111973	10.53952	223.3078	15.63191	50.91759	36.94962	455.0813
#1	.2209428	.0049694	.0002956	.0018004	.0007755	.0504720	-.000071
#2	.2149482	.0040403	.0001468	.0020884	.0008158	.0262995	.000211
#3	.1962513	.0043779	-.000143	.0024603	.0017887	.0296180	-.000313

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB11 Acquired: 3/21/2024 22:55:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0001868	.0075582	.0001683	z *****
Stddev	.0001761	.0001078	.0000119	-----
%RSD	94.23892	1.426366	7.042314	-----
#1	.0000652	.0076681	.0001802	z 2560.455
#2	.0001066	.0074526	.0001565	z 2544.864
#3	.0003887	.0075538	.0001681	z 2561.851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4165.863	105981.1	14392.30	3970.278	5662.088
Stddev	90.877	231.4	149.13	9.202	130.364
%RSD	2.181473	.2183759	1.036152	.2317806	2.302402
#1	4222.438	106129.5	14563.85	3976.831	5737.589
#2	4061.037	105714.4	14319.44	3959.757	5511.557
#3	4214.114	106099.4	14293.61	3974.246	5737.118

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01MSD Acquired: 3/21/2024 23:00:12 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8042472**	**1.898989**	**.9861891**	**1.836642**	**.7877127**	**5.582063**
Stddev	.0045465	.043929	.0041706	.008094	.0065462	.052777
%RSD	.5653171	2.313277	.4228965	.4406968	.8310375	.9454781
#1	.7996022	1.850831	.9819403	1.828099	.7833812	5.523544
#2	.8044512	1.909271	.9863503	1.837632	.7845137	5.596587
#3	.8086884	1.936865	.9902767	1.844196	.7952433	5.626056

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4948007**	**.1926460**	**.1978502**	**106.7422**	**.4097729**	**.1913751**
Stddev	.0013013	.0002203	.0004980	.8373	.0005965	.0005889
%RSD	.2629999	.1143695	.2517312	.7843720	.1455727	.3077295
#1	.4932989	.1928011	.1977430	105.8184	.4102838	.1907695
#2	.4955942	.1923938	.1974145	106.9570	.4099176	.1914103
#3	.4955090	.1927430	.1983931	107.4511	.4091174	.1919457

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2557870**	**13.64321**	**11.73344**	**27.88492**	**.4969698**	**.0842262**
Stddev	.0012176	.09311	.07371	.31947	.0010694	.0002481
%RSD	.4760031	.6824919	.6282399	1.145658	.2151915	.2945359
#1	.2547896	13.55265	11.65036	27.55083	.4962540	.0841132
#2	.2554277	13.73868	11.75896	27.91651	.4964562	.0840547
#3	.2571438	13.63830	11.79100	28.18742	.4981991	.0845107

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**875.9027**	**.3077395**	**.2293325**	**33.50886**	**.9918983**	**.3767360**
Stddev	2.7930	.0022260	.0011789	.27327	.0013367	.0023432
%RSD	.3188729	.7233549	.5140394	.8155267	.1347610	.6219724
#1	874.6481	.3052559	.2306936	33.20588	.9905908	.3747463
#2	873.9570	.3095550	.2286673	33.73671	.9918419	.3761429
#3	879.1031	.3084076	.2286365	33.58399	.9932624	.3793187

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01MSD Acquired: 3/21/2024 23:00:12 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6715870	.3720215	F 28.95423	1.330233	2.276114	.0299144
Stddev	.0025555	.0023660	.23827	.005749	.013937	.0006023
%RSD	.3805180	.6359885	.8229299	.4321715	.6122998	2.013536
#1	.6688563	.3742446	28.67918	1.325262	2.262000	.0292586
#2	.6719839	.3695347	29.09776	1.328910	2.276475	.0300416
#3	.6739209	.3722853	29.08574	1.336529	2.289866	.0304429

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.8220498	z *****
Stddev	.0034063	-----
%RSD	.4143676	-----
#1	.8181882	z 11007.04
#2	.8246279	z 10974.35
#3	.8233333	z 11011.08

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.320	90233.51	14054.59	3442.936	4351.236
Stddev	5.882	246.29	30.67	7.171	3.602
%RSD	.1584817	.2729509	.2182501	.2082861	.0827888
#1	3717.396	90417.98	14083.23	3434.669	4347.083
#2	3710.910	89953.82	14058.32	3447.470	4353.118
#3	3705.654	90328.73	14022.22	3446.671	4353.507

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01A Acquired: 3/21/2024 23:04:29 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8052391**	**1.930079**	**.9942639**	**1.850537**	**.7934760**	**5.590201**
Stddev	.0165694	.057757	.0206866	.040656	.0110616	.032150
%RSD	2.057701	2.992465	2.080595	2.196975	1.394068	.5751167
#1	.8227624	1.994527	1.016540	1.891137	.8053124	5.553117
#2	.7898257	1.882999	.975658	1.809825	.7834005	5.610226
#3	.8031292	1.912711	.990594	1.850648	.7917150	5.607261

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4904735**	**.1944912**	**.1995551**	**106.2780**	**.4064128**	**.1929647**
Stddev	.0049835	.0005124	.0040717	.9272	.0096491	.0042657
%RSD	1.016058	.2634347	2.040375	.8724442	2.374220	2.210615
#1	.4847198	.1939935	.2038915	105.2168	.4163884	.1970429
#2	.4934296	.1944631	.1958136	106.9312	.3971271	.1885334
#3	.4932711	.1950170	.1989603	106.6862	.4057228	.1933177

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2574049**	**13.28449**	**11.68531**	**27.88287**	**.5011792**	**.0832117**
Stddev	.0048298	.23611	.10886	.32497	.0103054	.0023449
%RSD	1.876352	1.777339	.9316229	1.165472	2.056224	2.818014
#1	.2621026	13.52450	11.56127	27.50772	.5118958	.0857933
#2	.2524530	13.05248	11.76498	28.07730	.4913413	.0812137
#3	.2576591	13.27650	11.72968	28.06361	.5003005	.0826280

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**850.3639**	**.3066344**	**.2254036**	**32.73623**	**.9993244**	**.3797849**
Stddev	17.1814	.0023988	.0061599	.54624	.0043555	.0067579
%RSD	2.020471	.7822927	2.732849	1.668605	.4358450	1.779394
#1	867.8315	.3038759	.2317846	33.21316	.9968663	.3864412
#2	833.4839	.3082305	.2194915	32.14030	.9967536	.3729298
#3	849.7763	.3077968	.2249346	32.85521	1.004353	.3799836

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-01A Acquired: 3/21/2024 23:04:29 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6743578**	**.3738740**	F **28.31822**	**1.341063**	**2.294413**	**.0309815**
Stddev	.0122714	.0026636	.64004	.025787	.047901	.0006111
%RSD	1.819723	.7124438	2.260168	1.922856	2.087702	1.972367
#1	.6864653	.3740313	28.98418	1.368482	2.342846	.0302883
#2	.6619287	.3711351	27.70771	1.317298	2.247063	.0312138
#3	.6746794	.3764554	28.26276	1.337410	2.293330	.0314423

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.8162210**	z *****
Stddev	.0074483	-----
%RSD	.9125348	-----
#1	.8076274	z 11050.04
#2	.8208172	z 10984.99
#3	.8202184	z 11013.60

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3689.601**	**91338.83**	**13903.73**	**3489.721**	**4324.863**
Stddev	57.156	2057.47	47.09	79.871	81.145
%RSD	1.549116	2.252565	.3386518	2.288745	1.876247
#1	3629.000	89100.62	13947.51	3400.245	4237.748
#2	3742.539	93147.85	13853.92	3553.821	4398.301
#3	3697.264	91768.04	13909.77	3515.097	4338.538

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-02 Acquired: 3/21/2024 23:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079200**	**-.000610**	**.0085095**	**.0004031**	**.0008699**	**11.00184**
Stddev	.0014967	.001355	.0008567	.0040262	.0011474	.06537
%RSD	18.89765	222.0263	10.06757	998.7493	131.8973	.5941646
#1	.0090262	-.001370	.0088503	-.003513	.0021479	10.93425
#2	.0085169	-.001415	.0075348	.004531	.0005336	11.00653
#3	.0062170	.000954	.0091433	.000191	-.000072	11.06474

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1102350**	**.0008841**	**-.000501**	**18.96527**	**.0266660**	**.0060709**
Stddev	.0013787	.0000574	.000359	.14146	.0031404	.0003447
%RSD	1.250676	6.487422	71.80486	.7458965	11.77665	5.677229
#1	.1087435	.0009255	-.000904	18.86083	.0302916	.0064215
#2	.1104985	.0008186	-.000382	18.90872	.0249071	.0057325
#3	.1114629	.0009082	-.000216	19.12625	.0247992	.0060589

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0192406**	**17.98974**	**.3590944**	**6.168584**	**.0209343**	**-.000602**
Stddev	.0004527	1.90307	.0021827	.075131	.0006123	.000028
%RSD	2.352762	10.57865	.6078291	1.217961	2.924875	4.690447
#1	.0191566	20.17428	.3568808	6.106565	.0209393	-.000597
#2	.0188358	17.10367	.3591575	6.147059	.0203195	-.000632
#3	.0197294	16.69126	.3612448	6.252128	.0215441	-.000576

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**287.9422**	**.0296603**	**.0613355**	**6.438498**	**.1151578**	**.0063635**
Stddev	28.1151	.0013128	.0083486	.652639	.0098616	.0000655
%RSD	9.764160	4.426128	13.61131	10.13651	8.563515	1.028717
#1	320.3036	.0307970	.0708872	7.185428	.1264468	.0064389
#2	274.0012	.0282234	.0576876	6.151684	.1108053	.0063203
#3	269.5218	.0299605	.0554318	5.978381	.1082213	.0063315

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-02 Acquired: 3/21/2024 23:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000763	.5406048	F 30.83792	.0768554	1.108543	.0064674
Stddev	.000257	.0045808	3.27645	.0014237	.020441	.0001664
%RSD	33.75151	.8473403	10.62476	1.852429	1.843990	2.572997
#1	-.000990	.5358223	34.60313	.0767012	1.110190	.0062977
#2	-.000815	.5410394	29.27556	.0755150	1.087328	.0064741
#3	-.000483	.5449529	28.63508	.0783498	1.128111	.0066303

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0953525	z *****
Stddev	.0026657	-----
%RSD	2.795651	-----
#1	.0923630	z 2844.681
#2	.0962123	z 2858.035
#3	.0974822	z 2852.524

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4014.191	92305.70	14782.81	3505.375	4906.201
Stddev	60.001	9711.91	44.15	377.685	81.907
%RSD	1.494730	10.52146	.2986708	10.77445	1.669460
#1	4014.260	81187.38	14787.66	3074.110	4897.507
#2	4074.157	96596.58	14824.34	3664.851	4992.108
#3	3954.155	99133.13	14736.44	3777.165	4828.987

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-03 Acquired: 3/21/2024 23:13:18 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049820	-.001317	.0058338	.0022316	.0029081	3.845365
Stddev	.0009668	.002029	.0014328	.0039812	.0006605	.059213
%RSD	19.40488	153.9819	24.56051	178.4050	22.71449	1.539845
#1	.0041304	-.000369	.0042558	.0039946	.0027252	3.777890
#2	.0060329	-.003647	.0061921	.0050269	.0023582	3.869535
#3	.0047828	.000063	.0070534	-.002327	.0036408	3.888669

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410990	.0002751	-.000130	11.99556	.0067934	.0018124
Stddev	.0007537	.0000152	.000036	.19179	.0003462	.0000807
%RSD	1.833752	5.522164	27.41109	1.598823	5.096207	4.451988
#1	.0403040	.0002769	-.000164	11.77725	.0067056	.0017916
#2	.0411898	.0002893	-.000132	12.07247	.0071751	.0019015
#3	.0418031	.0002591	-.000093	12.13695	.0064995	.0017442

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0681504	4.729313	.0896919	1.862834	.0065449	.0002717
Stddev	.0000722	.049285	.0011081	.018766	.0004052	.0002571
%RSD	.1059050	1.042123	1.235457	1.007412	6.190575	94.64397
#1	.0682336	4.672546	.0884896	1.843717	.0060790	.0002592
#2	.0681049	4.754209	.0899137	1.863558	.0068150	.0000210
#3	.0681128	4.761184	.0906723	1.881229	.0067407	.0005348

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	473.4463	.0109866	.0607168	3.190943	.1468704	.0129049
Stddev	5.5850	.0002248	.0003834	.040176	.0021983	.0001022
%RSD	1.179641	2.045964	.6314557	1.259067	1.496739	.7915346
#1	467.0193	.0108680	.0602756	3.144647	.1443800	.0130218
#2	477.1204	.0108460	.0609066	3.216670	.1485408	.0128602
#3	476.1993	.0112458	.0609684	3.211512	.1476904	.0128328

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1784-03 Acquired: 3/21/2024 23:13:18 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001742	.1546297	F 18.12043	.0785841	1.012621	.0055769
Stddev	.000058	.0016880	.17191	.0002295	.000881	.0002893
%RSD	3.315584	1.091655	.9486872	.2920631	.0869621	5.187084
#1	-.001676	.1527047	17.93238	.0784879	1.012781	.0052642
#2	-.001770	.1558569	18.26949	.0788460	1.011672	.0056318
#3	-.001781	.1553276	18.15942	.0784183	1.013411	.0058348

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0630819	z *****
Stddev	.0008033	-----
%RSD	1.273483	-----
#1	.0621596	z 2615.377
#2	.0634577	z 2642.565
#3	.0636286	z 2642.471

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3892.393	95594.66	14283.92	3643.020	4725.581
Stddev	10.343	227.68	89.71	18.052	6.305
%RSD	.2657241	.2381690	.6280794	.4955205	.1334294
#1	3886.505	95766.78	14387.49	3627.749	4726.455
#2	3904.336	95336.50	14234.06	3638.367	4731.403
#3	3886.338	95680.69	14230.20	3662.942	4718.883

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1814-01 Acquired: 3/21/2024 23:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0367748	-.022185	.1542379	-.030615	-.002835	94.16940	.8149791
Stddev	.0025603	.004401	.0013436	.002747	.002449	.81374	.0041872
%RSD	6.962147	19.83942	.8711005	8.972204	86.38688	.8641211	.5137852
#1	.0396692	-.027173	.1535021	-.028084	-.002645	95.10470	.8196918
#2	.0358489	-.018844	.1557887	-.030226	-.005374	93.77975	.8135585
#3	.0348062	-.020540	.1534230	-.033536	-.000486	93.62376	.8116869

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139233	.0021925	161.8794	.1649118	.1274714	.2587978	235.7051
Stddev	.0001817	.0001883	1.4627	.0003987	.0001159	.0001235	.9259
%RSD	1.304748	8.589335	.9035837	.2417852	.0909482	.0477232	.3928021
#1	.0141250	.0023070	163.5639	.1647991	.1275751	.2588362	235.1148
#2	.0137724	.0022954	161.1441	.1645816	.1274928	.2586597	235.2284
#3	.0138727	.0019752	160.9302	.1653548	.1273462	.2588976	236.7722

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.969873	65.87352	.3122524	-.018801	12.87423	.3314499	.7107575
Stddev	.037080	.65518	.0001464	.000309	.07551	.0025110	.0018195
%RSD	.9340333	.9946029	.0468829	1.645389	.5865572	.7575899	.2559918
#1	4.011085	66.63000	.3124116	-.018822	12.79384	.3342504	.7116285
#2	3.959321	65.50308	.3122219	-.018481	12.88519	.3293991	.7119778
#3	3.939213	65.48748	.3121236	-.019099	12.94367	.3307002	.7086663

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.19499	-.099943	.0023960	.0152728	3.312533	1.912658	.5255806
Stddev	.09258	.018642	.0001180	.0008859	.026820	.016173	.0037270
%RSD	.7591703	18.65288	4.926615	5.800302	.8096427	.8455669	.7091232
#1	12.11750	-.119328	.0024779	.0143295	3.343500	1.899890	.5292912
#2	12.16997	-.098355	.0024495	.0154019	3.296754	1.907240	.5256132
#3	12.29752	-.082146	.0022607	.0160871	3.297345	1.930844	.5218374

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1814-01 Acquired: 3/21/2024 23:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.3668137	.0219943	.1747987	z *****
Stddev	.0026687	.0001754	.0033863	-----
%RSD	.7275424	.7974684	1.937265	-----
#1	.3675234	.0221822	.1784758	z 5703.855
#2	.3690558	.0218349	.1741119	z 5707.360
#3	.3638619	.0219658	.1718085	z 5701.418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4330.597	108027.4	15562.59	4120.289	4765.846
Stddev	7.018	207.4	196.71	5.384	5.146
%RSD	.1620455	.1920027	1.263974	.1306768	.1079828
#1	4336.754	108032.2	15340.92	4118.358	4768.443
#2	4322.956	108232.4	15630.51	4126.373	4759.919
#3	4332.080	107817.7	15716.33	4116.137	4769.177

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01MS Acquired: 3/21/2024 23:22:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7297895**	**2.084594**	**1.178063**	**1.719056**	**.7370975**	**80.15111**
Stddev	.0037839	.025973	.001473	.002123	.0034447	2.15260
%RSD	.5184967	1.245961	.1250026	.1234715	.4673368	2.685679
#1	.7327438	2.070413	1.178307	1.719818	.7400759	82.55429
#2	.7255245	2.068798	1.179397	1.716658	.7333251	78.39976
#3	.7311003	2.114570	1.176483	1.720693	.7378915	79.49929

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7073663**	**.1956498**	**.1939339**	**36.72424**	**.6152252**	**.2696564**
Stddev	.0174743	.0052285	.0001341	.95243	.0010474	.0003436
%RSD	2.470325	2.672398	.0691594	2.593468	.1702509	.1274354
#1	.7266673	.2014902	.1940371	37.78318	.6155957	.2694858
#2	.6926214	.1914047	.1937823	35.93766	.6160371	.2700520
#3	.7028102	.1940546	.1939824	36.45188	.6140429	.2694315

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5447678**	**140.1340**	**1.886016**	**59.31448**	**.6347395**	**.0671328**
Stddev	.0015023	.2852	.049280	1.58258	.0012124	.0004798
%RSD	.2757732	.2035085	2.612901	2.668117	.1910004	.7146795
#1	.5453820	140.3447	1.939676	61.09067	.6361221	.0674823
#2	.5430557	140.2478	1.842787	58.05434	.6342384	.0665858
#3	.5458657	139.8095	1.875585	58.79842	.6338581	.0673303

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.767533**	**.6132693**	**.6415708**	**12.73945**	**.3114712**	**.3603723**
Stddev	.029406	.0159258	.0038069	.09006	.0049716	.0011686
%RSD	.4345220	2.596876	.5933732	.7069686	1.596172	.3242743
#1	6.737097	.6310681	.6399857	12.64566	.3057305	.3600996
#2	6.795789	.6003654	.6459141	12.82525	.3143685	.3593642
#3	6.769713	.6083744	.6388126	12.74743	.3143145	.3616531

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01MS Acquired: 3/21/2024 23:22:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6932236	5.722512	F 10.42968	.8161075	.0572074	.0300529
Stddev	.0012256	.155308	.04159	.0010513	.0004559	.0007960
%RSD	.1767918	2.713987	.3987282	.1288139	.7968613	2.648607
#1	.6921509	5.894906	10.42778	.8166072	.0567830	.0309368
#2	.6929605	5.593527	10.47219	.8168157	.0576893	.0293926
#3	.6945593	5.679104	10.38909	.8148996	.0571500	.0298294

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.3920565	z *****
Stddev	.0128227	-----
%RSD	3.270630	-----
#1	.4060672	z 13948.81
#2	.3809043	z 13926.36
#3	.3891978	z 13937.92

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4344.336	109029.5	15391.98	4136.696	5091.934
Stddev	14.031	143.0	388.72	12.359	9.058
%RSD	.3229722	.1311383	2.525452	.2987672	.1778834
#1	4347.722	109111.0	14964.81	4143.476	5097.742
#2	4356.365	108864.4	15724.93	4122.431	5096.564
#3	4328.922	109113.1	15486.21	4144.181	5081.498

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01MSD Acquired: 3/21/2024 23:26:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7394137**	**2.069463**	**1.194461**	**1.745452**	**.7497085**	**80.42566**
Stddev	.0034788	.013950	.004059	.007983	.0010738	3.33373
%RSD	.4704791	.6741008	.3398132	.4573316	.1432285	4.145105
#1	.7357824	2.075453	1.198777	1.753550	.7494906	81.77834
#2	.7397420	2.053518	1.193884	1.737591	.7508745	76.62819
#3	.7427167	2.079417	1.190721	1.745214	.7487604	82.87045

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7087953**	**.1995097**	**.1971985**	**36.78568**	**.6244360**	**.2736356**
Stddev	.0289914	.0073420	.0007778	1.47362	.0006197	.0011658
%RSD	4.090233	3.680004	.3944368	4.005971	.0992454	.4260257
#1	.7185486	.2025149	.1980247	37.41539	.6238142	.2746418
#2	.6761850	.1911419	.1970902	35.10182	.6250537	.2739070
#3	.7316523	.2048723	.1964804	37.83982	.6244400	.2723581

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5535400**	**139.6640**	**1.894641**	**59.38511**	**.6436819**	**.0681064**
Stddev	.0006925	.6314	.079796	2.56711	.0009034	.0001466
%RSD	.1251036	.4520624	4.211663	4.322823	.1403487	.2152256
#1	.5540936	139.7086	1.925811	60.57123	.6447241	.0679406
#2	.5527635	139.0115	1.803965	56.43941	.6431214	.0681598
#3	.5537629	140.2719	1.954148	61.14468	.6432003	.0682189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.757748**	**.6155449**	**.6531288**	**12.75520**	**.3039283**	**.3646817**
Stddev	.038539	.0252619	.0034276	.03788	.0083995	.0014678
%RSD	.5702927	4.103985	.5247942	.2969657	2.763642	.4024823
#1	6.732817	.6281411	.6503543	12.71744	.3031081	.3663497
#2	6.738291	.5864616	.6520717	12.75498	.3127078	.3641078
#3	6.802137	.6320319	.6569604	12.79319	.2959690	.3635876

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01MSD Acquired: 3/21/2024 23:26:13 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6989285**	**5.734499**	F **10.49043**	**.8262399**	**.0583165**	**.0303011**
Stddev	.0040010	.236026	.06435	.0044181	.0004754	.0013568
%RSD	.5724452	4.115900	.6134345	.5347268	.8152228	4.477761
#1	.7020580	5.832640	10.42839	.8305354	.0588465	.0307619
#2	.7003068	5.465236	10.48603	.8264757	.0581752	.0287739
#3	.6944205	5.905620	10.55687	.8217086	.0579277	.0313675

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.3938793**	z *****
Stddev	.0211372	-----
%RSD	5.366415	-----
#1	.4012091	z 13894.07
#2	.3700529	z 13900.37
#3	.4103759	z 13905.79

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4273.028**	**107225.7**	**15080.91**	**4057.105**	**5018.797**
Stddev	3.013	93.9	563.61	20.797	2.525
%RSD	.0705187	.0875280	3.737275	.5126084	.0503050
#1	4270.468	107296.1	14816.16	4071.140	5018.997
#2	4276.349	107119.1	15728.15	4066.962	5021.215
#3	4272.269	107261.9	14698.40	4033.212	5016.178

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01A Acquired: 3/21/2024 23:30:22 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7339270**	**2.109058**	**1.213448**	**1.740752**	**.7420261**	**52.90243**
Stddev	.0038014	.021510	.006420	.005631	.0019663	2.25490
%RSD	.5179575	1.019910	.5290300	.3234573	.2649903	4.262368
#1	.7381963	2.133781	1.213094	1.734256	.7427440	54.14281
#2	.7326761	2.098765	1.207213	1.744226	.7398018	54.26483
#3	.7309087	2.094628	1.220038	1.743774	.7435326	50.29965

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4449294**	**.1916457**	**.1946065**	**20.98429**	**.5033308**	**.2404936**
Stddev	.0217570	.0025099	.0012114	.82865	.0021191	.0013207
%RSD	4.889983	1.309638	.6224673	3.948922	.4210225	.5491626
#1	.4575964	.1938534	.1938966	21.48863	.5056490	.2397116
#2	.4573849	.1921677	.1939177	21.43631	.5014933	.2397507
#3	.4198069	.1889158	.1960052	20.02792	.5028502	.2420184

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.293621**	**103.5342**	**1.126159**	**29.48402**	**.5766753**	**.0701379**
Stddev	.016000	3.2917	.047727	1.01283	.0012905	.0006636
%RSD	.2542192	3.179324	4.237991	3.435196	.2237812	.9461889
#1	6.279473	105.6317	1.156267	30.07190	.5764039	.0705875
#2	6.290405	105.2304	1.151079	30.06565	.5755421	.0704505
#3	6.310984	99.7403	1.071131	28.31450	.5780799	.0693757

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.549780**	**.5537512**	**.5659398**	**12.83636**	**.2934526**	**.3677363**
Stddev	.190471	.0211313	.0020322	.40342	.0080030	.0010295
%RSD	3.432048	3.816035	.3590766	3.142761	2.727175	.2799657
#1	5.679409	.5665299	.5680288	13.07951	.2985705	.3666269
#2	5.638837	.5653636	.5639697	13.05888	.2975573	.3679211
#3	5.331094	.5293601	.5658210	12.37069	.2842301	.3686610

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1786-01A Acquired: 3/21/2024 23:30:22 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6881347	3.376142	F 13.29179	.7683347	.4335110	.0259841
Stddev	.0036869	.148600	.41177	.0018917	.0024645	.0012043
%RSD	.5357814	4.401462	3.097933	.2462108	.5684864	4.634742
#1	.6872964	3.459825	13.50217	.7695893	.4334588	.0267786
#2	.6849392	3.464029	13.55586	.7661588	.4310730	.0265753
#3	.6921686	3.204571	12.81733	.7692559	.4360011	.0245985

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2181200	z *****
Stddev	.0117833	-----
%RSD	5.402209	-----
#1	.2250156	z 14063.21
#2	.2248301	z 14072.46
#3	.2045142	z 14091.31

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4343.268	108915.9	15686.34	4115.859	5194.116
Stddev	13.203	406.3	196.16	13.097	17.150
%RSD	.3039771	.3730089	1.250547	.3182030	.3301805
#1	4357.913	108466.0	15539.46	4101.196	5206.969
#2	4339.615	109025.9	15610.43	4119.985	5200.736
#3	4332.277	109255.9	15909.11	4126.396	5174.642

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-06 Acquired: 3/21/2024 23:34:30 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236795	-.003294	.1196067	.0007444	.0005753	.0321613	.1448641
Stddev	.0019596	.001041	.0020762	.0031702	.0025579	.0036716	.0016507
%RSD	8.275433	31.60547	1.735854	425.8646	444.6033	11.41629	1.139500
#1	.0259185	-.004492	.1218867	.0033378	.0033691	.0363006	.1442070
#2	.0222770	-.002611	.1178250	-.002790	.0000084	.0308857	.1436432
#3	.0228430	-.002779	.1191084	.001685	-.001652	.0292975	.1467422

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001999	-.000434	.9507511	-.000332	.0038451	.0159106	16.22732
Stddev	.0000142	.000052	.0084365	.000224	.0001549	.0004750	.14016
%RSD	7.080567	12.03711	.8873468	67.39377	4.029216	2.985459	.8637083
#1	.0001876	-.000464	.9430466	-.000075	.0038002	.0162745	16.15916
#2	.0002154	-.000464	.9494406	-.000487	.0040176	.0153732	16.38852
#3	.0001967	-.000373	.9597661	-.000433	.0037176	.0160840	16.13428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1291970	.1155382	.0086040	-.000845	379.9926	.0021146	.2082561
Stddev	.0014607	.0022790	.0003773	.000360	6.0705	.0008567	.0018044
%RSD	1.130559	1.972550	4.385272	42.59257	1.597520	40.51100	.8664506
#1	.1281085	.1138297	.0088532	-.000483	373.0772	.0029350	.2067438
#2	.1286255	.1146591	.0081699	-.000849	384.4421	.0021830	.2102535
#3	.1308570	.1181259	.0087889	-.001203	382.4586	.0012258	.2077710

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3521746	.0415488	-.000209	-.002175	.0009776	.4479709	.0020238
Stddev	.0155238	.0008808	.000273	.000491	.0003478	.0096456	.0002064
%RSD	4.407984	2.119931	130.6372	22.57457	35.57905	2.153183	10.19864
#1	.3512101	.0416762	.000092	-.002712	.0011465	.4384297	.0017903
#2	.3681582	.0423590	-.000440	-.002064	.0005776	.4477654	.0021818
#3	.3371555	.0406113	-.000280	-.001750	.0012088	.4577176	.0020992

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1798-06 Acquired: 3/21/2024 23:34:30 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5204189	.0000329	-.010551	z *****
Stddev	.0090564	.0000750	.000215	-----
%RSD	1.740216	228.1394	2.034226	-----
#1	.5274856	.0000448	-.010458	z 2483.317
#2	.5102099	-.000047	-.010797	z 2469.721
#3	.5235613	.000101	-.010399	z 2469.711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3909.945	95533.20	14387.92	3619.938	4899.143
Stddev	72.686	655.40	158.37	20.335	78.392
%RSD	1.859000	.6860415	1.100694	.5617467	1.600116
#1	3850.104	95682.54	14423.13	3627.348	4831.277
#2	3990.831	94816.03	14525.72	3596.937	4984.950
#3	3888.899	96101.05	14214.91	3635.529	4881.202

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159689TB Acquired: 3/21/2024 23:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000797**	**.0012247**	**-.001166**	**.0021554**	**-.000591**	**.0241253**	**.0001170**
Stddev	.000798	.0014856	.000493	.0032219	.000313	.0010792	.0001354
%RSD	100.0313	121.3019	42.31215	149.4800	52.91780	4.473419	115.7700
#1	-.001062	-.000383	-.001066	.0058744	-.000442	.0241826	.0000989
#2	-.001430	.002547	-.001702	.0002086	-.000950	.0230186	.0002606
#3	.000099	.001510	-.000730	.0003832	-.000381	.0251748	-.000008

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000065**	**-.000077**	**.0622949**	**.0060961**	**-.000105**	**.0001399**	**.0585671**
Stddev	.000060	.000028	.0081219	.0001814	.000169	.0002031	.0010205
%RSD	92.43623	36.36654	13.03790	2.975544	160.7221	145.2238	1.742390
#1	-.000131	-.000060	.0703388	.0058890	.000076	.0003709	.0574250
#2	-.000047	-.000109	.0624487	.0062268	-.000259	-.000010	.0593891
#3	-.000016	-.000061	.0540971	.0061726	-.000132	.000059	.0588873

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008332**	**.0443615**	**.0030285**	**.0002331**	**309.5697**	**.0026136**	**.0027598**
Stddev	.0003763	.0125969	.0002830	.0002600	4.9226	.0016668	.0000840
%RSD	45.15680	28.39611	9.343441	111.4989	1.590145	63.77409	3.043873
#1	.0012654	.0405847	.0031284	.0004884	304.0812	.0024017	.0028544
#2	.0005787	.0584148	.0027091	.0002424	311.0336	.0043762	.0026939
#3	.0006556	.0340850	.0032479	-.000031	313.5943	.0010629	.0027310

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1033464**	**-.007092**	**.0006323**	**-.002816**	**.0008830**	**.0210473**	**-.000045**
Stddev	.0259811	.000497	.0002479	.000559	.0007820	.0055229	.000343
%RSD	25.13979	7.002253	39.20367	19.84735	88.56094	26.24021	762.3522
#1	.0940664	-.007097	.0008999	-.002305	.0008590	.0165087	.000337
#2	.1326932	-.006593	.0005866	-.003413	.0016768	.0194368	-.000325
#3	.0832796	-.007586	.0004105	-.002729	.0001133	.0271964	-.000147

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159689TB Acquired: 3/21/2024 23:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0010905	-.000534	-.000193	z *****
Stddev	.0001535	.000078	.000011	-----
%RSD	14.07271	14.59422	5.744035	-----
#1	.0012505	-.000605	-.000183	z 2566.773
#2	.0010764	-.000546	-.000205	z 2539.190
#3	.0009446	-.000451	-.000193	z 2554.806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3940.910	99337.69	14438.26	3773.862	4935.579
Stddev	52.714	123.19	455.58	4.040	67.696
%RSD	1.337601	.1240156	3.155358	.1070479	1.371584
#1	3976.420	99314.39	14264.07	3773.366	4985.659
#2	3965.968	99227.81	14095.48	3770.094	4962.517
#3	3880.341	99470.87	14955.24	3778.127	4858.561

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV12 Acquired: 3/21/2024 23:43:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.632816**	**5.001436**	**4.919847**	**4.601982**	**4.798206**	**10.42288**
Stddev	.012836	.078596	.004601	.011219	.004062	.02686
%RSD	.2770664	1.571460	.0935258	.2437953	.0846619	.2577415
#1	4.641166	5.082347	4.916954	4.614853	4.795513	10.39248
#2	4.639247	4.996581	4.925153	4.594271	4.802879	10.44343
#3	4.618036	4.925381	4.917434	4.596822	4.796227	10.43273

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.09732**	**.2572181**	**2.426118**	**26.01476**	**1.014076**	**2.389097**
Stddev	.11872	.0006889	.002616	.13840	.002727	.000936
%RSD	1.175723	.2678402	.1078444	.5320105	.2689632	.0391870
#1	10.03898	.2570385	2.429031	25.85593	1.016250	2.389432
#2	10.01906	.2566368	2.423968	26.07887	1.011016	2.389820
#3	10.23392	.2579791	2.425355	26.10948	1.014963	2.388040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.178546**	**4.947424**	**2.545279**	**25.68851**	**2.472519**	**1.301314**
Stddev	.000705	.045154	.018009	.12491	.000773	.005531
%RSD	.0597928	.9126852	.7075540	.4862449	.0312728	.4250612
#1	1.178219	4.896005	2.524568	25.54491	2.473404	1.300120
#2	1.179355	4.965652	2.554009	25.74862	2.472183	1.296477
#3	1.178064	4.980615	2.557258	25.77200	2.471971	1.307345

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.91185**	**2.533366**	**2.528587**	**24.60819**	F **5.670931**	**4.566554**
Stddev	.12773	.016124	.003392	.10956	.041560	.006114
%RSD	.5127251	.6364687	.1341345	.4452229	.7328529	.1338879
#1	24.76566	2.514934	2.527356	24.48757	5.645422	4.568682
#2	24.96798	2.540307	2.525982	24.63546	5.648484	4.571319
#3	25.00190	2.544858	2.532422	24.70154	5.718887	4.559660

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV12 Acquired: 3/21/2024 23:43:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV12 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.815163**	**5.156930**	**5.294167**	**4.987782**	**4.644229**	**5.253995**
Stddev	.013076	.017286	.048378	.005448	.012045	.009266
%RSD	.2715517	.3352025	.9138001	.1092264	.2593507	.1763535
#1	4.825176	5.137096	5.247426	4.983692	4.654966	5.248493
#2	4.819944	5.168794	5.291044	4.993967	4.646517	5.248801
#3	4.800370	5.164898	5.344031	4.985689	4.631204	5.264693

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.197752**	z *****
Stddev	.048742	-----
%RSD	.9377490	-----
#1	5.145487	z 25011.67
#2	5.205801	z 25027.43
#3	5.241969	z 25044.92

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3962.430**	**98823.53**	**13815.12**	**3772.512**	**4826.736**
Stddev	6.416	261.48	16.08	7.946	5.618
%RSD	.1619125	.2645962	.1164213	.2106370	.1163920
#1	3961.864	98776.52	13820.89	3764.967	4822.558
#2	3956.316	99105.33	13827.53	3780.807	4824.528
#3	3969.110	98588.74	13796.95	3771.762	4833.123

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB12 Acquired: 3/21/2024 23:51:19 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000897**	**.0014776**	**-.000723**	**.0017848**	**.0012975**	**.0031228**	**.0002857**
Stddev	.001375	.0005663	.001571	.0027105	.0005565	.0042242	.0002374
%RSD	153.3419	38.32272	217.3936	151.8630	42.89365	135.2703	83.08510
#1	-.002405	.0008245	-.000314	-.001292	.0015657	-.000607	.0000869
#2	-.000572	.0018312	.000604	.002824	.0006576	.007710	.0005485
#3	.000287	.0017771	-.002457	.003822	.0016691	.002265	.0002217

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000454**	**-.000035**	**.0068926**	**.0000886**	**.0000216**	**-.000224**	**.0012069**
Stddev	.0000551	.000014	.0020672	.0001462	.0001485	.000205	.0008059
%RSD	121.1357	41.18450	29.99169	165.0547	686.7547	91.77197	66.77530
#1	-.000016	-.000045	.0046095	-.000080	-.000052	-.000316	.0002956
#2	.000089	-.000019	.0074310	.000171	.000193	.000012	.0018258
#3	.000064	-.000042	.0086374	.000175	-.000075	-.000367	.0014994

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000199**	**-.022901**	**-.000295**	**.0005160**	**.2370139**	**.0005250**	**-.000243**
Stddev	.000393	.009390	.000031	.0004158	.0114868	.0009427	.000522
%RSD	196.9290	41.00298	10.58412	80.57488	4.846459	179.5466	214.5900
#1	-.000107	-.015456	-.000295	.0007057	.2488460	-.000222	-.000088
#2	.000139	-.019797	-.000264	.0000392	.2259068	.000213	-.000826
#3	-.000630	-.033450	-.000326	.0008030	.2362887	.001584	.000184

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1470092**	**-.001135**	**-.000068**	**.0031894**	**.0006162**	**.0226485**	**-.000079**
Stddev	.0111246	.000791	.000275	.0009418	.0007844	.0076345	.000093
%RSD	7.567287	69.64889	404.4461	29.52745	127.2881	33.70856	118.6156
#1	.1378171	-.000283	-.000129	.0036149	.0009772	.0301234	-.000021
#2	.1438345	-.001844	-.000307	.0021100	.0011551	.0148639	-.000029
#3	.1593761	-.001278	.000232	.0038434	-.000284	.0229581	-.000186

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB12 Acquired: 3/21/2024 23:51:19 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB12 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0000711	.0062934	-.000071	z *****
Stddev	.0002798	.0001124	.000043	-----
%RSD	393.6431	1.785994	60.04774	-----
#1	-.000233	.0061658	-.000028	z 2591.413
#2	.000317	.0063364	-.000072	z 2591.593
#3	.000130	.0063779	-.000113	z 2588.951

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.923	106494.2	14355.68	4002.894	5566.374
Stddev	44.713	2642.3	146.41	95.168	57.695
%RSD	1.090571	2.481166	1.019897	2.377492	1.036488
#1	4150.273	104101.0	14500.52	3929.478	5632.523
#2	4084.642	109329.8	14358.78	4110.416	5540.148
#3	4064.855	106051.9	14207.74	3968.787	5526.452

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1827-01 Acquired: 3/21/2024 23:55:47 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0243132**	**-.003597**	**.3633125**	**-.012096**	**-.002456**	**94.21313**
Stddev	.0003115	.000522	.0008149	.002706	.000455	2.22245
%RSD	1.281316	14.51212	.2242901	22.37515	18.53373	2.358959
#1	.0246563	-.004115	.3636204	-.015177	-.002475	91.68377
#2	.0240480	-.003071	.3639286	-.011006	-.001992	95.10227
#3	.0242354	-.003607	.3623885	-.010105	-.002902	95.85336

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6185490**	**.0059864**	**.0045925**	**27.35262**	**.1354363**	**.0635217**
Stddev	.0171354	.0000985	.0002751	.69448	.0008683	.0000714
%RSD	2.770258	1.645548	5.989749	2.538977	.6411415	.1124648
#1	.5987773	.0060714	.0049061	26.55497	.1362424	.0634443
#2	.6277767	.0060094	.0044794	27.67995	.1355498	.0635852
#3	.6290929	.0058784	.0043920	27.82293	.1345168	.0635355

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2064643**	**77.38534**	**2.064591**	**21.06638**	**.1496062**	**-.007194**
Stddev	.0001502	2.12716	.044770	.43347	.0001256	.000505
%RSD	.0727683	2.748788	2.168485	2.057638	.0839892	7.019096
#1	.2066289	74.98526	2.013055	20.56649	.1497272	-.007777
#2	.2064295	78.13314	2.086846	21.29431	.1494764	-.006917
#3	.2063345	79.03763	2.093874	21.33832	.1496150	-.006888

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.981205**	**.0860179**	**1.167470**	**5.100293**	**-.063746**	**.0012332**
Stddev	.125912	.0008142	.010612	.199651	.012337	.0000256
%RSD	3.162666	.9465730	.9089353	3.914498	19.35255	2.074260
#1	3.836149	.0850942	1.178588	4.869757	-.077548	.0012501
#2	4.045199	.0866316	1.166371	5.215055	-.059901	.0012458
#3	4.062268	.0863279	1.157450	5.216067	-.053791	.0012038

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1827-01 Acquired: 3/21/2024 23:55:47 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084674	.8107371	F 10.09418	.2940622	.0903020	.0046340
Stddev	.0012232	.0093641	.35666	.0010054	.0004755	.0001207
%RSD	14.44549	1.155005	3.533313	.3418993	.5265213	2.604019
#1	.0095649	.8080502	9.68235	.2947408	.0899806	.0045095
#2	.0086885	.8030102	10.29958	.2929071	.0900772	.0046421
#3	.0071488	.8211509	10.30061	.2945386	.0908482	.0047505

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0838670	z *****
Stddev	.0022027	-----
%RSD	2.626391	-----
#1	.0813369	z 6035.230
#2	.0853569	z 5971.058
#3	.0849073	z 5932.470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4720.288	115573.1	16522.96	4543.784	5287.959
Stddev	9.929	190.5	187.25	8.874	10.551
%RSD	.2103528	.1648018	1.133275	.1952964	.1995356
#1	4723.041	115616.9	16309.82	4548.236	5297.203
#2	4728.551	115737.9	16598.04	4549.551	5290.211
#3	4709.273	115364.6	16661.02	4533.566	5276.464

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1827-01DLX5 Acquired: 3/22/2024 0:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035235	-.002301	.0665691	-.001384	-.001830	19.58181	.1306104
Stddev	.0016916	.001381	.0013204	.003082	.000788	.35793	.0025907
%RSD	48.00805	60.03442	1.983586	222.6475	43.04386	1.827869	1.983560
#1	.0018066	-.000757	.0651170	-.002903	-.001356	19.19455	.1279968
#2	.0035754	-.002725	.0668921	.002162	-.002739	19.90048	.1331777
#3	.0051885	-.003420	.0676980	-.003412	-.001394	19.65040	.1306567

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011545	.0002862	5.703506	.0281811	.0113915	.0426282	16.47777
Stddev	.0000453	.0000303	.101645	.0001954	.0000857	.0004827	.03931
%RSD	3.928255	10.59648	1.782151	.6934586	.7524228	1.132437	.2385411
#1	.0011036	.0003111	5.603137	.0283539	.0114858	.0420929	16.50657
#2	.0011690	.0002524	5.806381	.0279690	.0113185	.0427611	16.43299
#3	.0011908	.0002950	5.701001	.0282204	.0113701	.0430305	16.49374

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4354384	4.327469	.0269186	-.000855	.8129932	.0196342	.2288916
Stddev	.0084971	.089519	.0001399	.000207	.0028888	.0017194	.0015551
%RSD	1.951395	2.068619	.5195605	24.18858	.3553302	8.757091	.6793847
#1	.4265417	4.239041	.0270794	-.000650	.8159318	.0188657	.2306831
#2	.4434697	4.418041	.0268514	-.000850	.8128908	.0216038	.2278905
#3	.4363039	4.325324	.0268250	-.001064	.8101569	.0184331	.2281012

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9976462	-.021256	.0000769	-.001850	.1823157	1.963898	.0506018
Stddev	.0265098	.001139	.0001364	.000274	.0055680	.079000	.0004165
%RSD	2.657239	5.358915	177.4685	14.82520	3.054030	4.022629	.8231612
#1	1.020931	-.021993	.0001291	-.002130	.1787913	1.987924	.0509748
#2	.968795	-.019944	-.000078	-.001839	.1887347	1.875674	.0506782
#3	1.003213	-.021832	.000179	-.001582	.1794211	2.028097	.0501523

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1827-01DLX5 Acquired: 3/22/2024 0:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0139395	.0005214	.0173856	z *****	
Stddev	.0000666	.0000149	.0006162	-----	
%RSD	.4775842	2.855363	3.544506	-----	
#1	.0138699	.0005336	.0167625	z 3249.250	
#2	.0140025	.0005048	.0179947	z 3263.939	
#3	.0139461	.0005258	.0173995	z 3255.546	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4407.568	111267.6	14924.07	4175.720	5756.701
Stddev	9.154	588.8	213.62	38.771	6.120
%RSD	.2076928	.5291911	1.431401	.9284944	.1063027
#1	4418.104	110616.4	15139.00	4134.973	5763.538
#2	4401.559	111762.4	14711.78	4212.155	5751.736
#3	4403.041	111424.0	14921.43	4180.031	5754.829

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159637BL Acquired: 3/22/2024 0:10:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000844**	**-.000215**	**.0001568**	**-.001455**	**-.001013**	**.0009444**	**-.000060**
Stddev	.000842	.000576	.0002910	.002167	.000274	.0056357	.000912
%RSD	99.79592	268.2401	185.5781	148.9116	27.07236	596.7539	1523.255
#1	-.001244	.000029	.0004924	-.000507	-.001272	-.001907	.000430
#2	.000124	.000200	.0000020	.000076	-.001042	-.002696	.000503
#3	-.001411	-.000873	-.000024	-.003934	-.000726	.007436	-.001112

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000479**	**-.000073**	**.0150272**	**-.000052**	**-.000055**	**.0000740**	**.0037039**
Stddev	.0000185	.000008	.0051457	.000205	.000089	.0004411	.0056434
%RSD	38.65200	11.31015	34.24235	390.6527	159.8797	596.0970	152.3621
#1	.0000427	-.000081	.0091949	-.000122	-.000093	.0001260	.0086151
#2	.0000326	-.000065	.0169603	.000178	-.000119	.0004868	.0049575
#3	.0000685	-.000074	.0189264	-.000213	.000046	-.000391	-.002461

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000318**	**-.025769**	**-.000106**	**.0005260**	**.1645259**	**.0012180**	**-.000075**
Stddev	.000190	.024316	.000405	.0002450	.0016026	.0002549	.000112
%RSD	59.86964	94.36173	381.8343	46.56839	.9740790	20.92656	148.6498
#1	-.000233	-.040490	.000260	.0005089	.1648205	.0009240	-.000018
#2	-.000184	.002298	-.000541	.0007791	.1627965	.0013771	-.000004
#3	-.000536	-.039115	-.000038	.0002901	.1659608	.0013530	-.000204

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0963538**	**-.006346**	**-.000109**	**.0025943**	**.0005552**	**.0202521**	**-.000045**
Stddev	.0127582	.000128	.000112	.0005191	.0012607	.0064447	.000149
%RSD	13.24101	2.017766	102.2223	20.00842	227.0628	31.82253	330.0605
#1	.0948275	-.006218	-.000234	.0023516	-.000017	.0153002	-.000156
#2	.0844274	-.006474	-.000017	.0031902	.002001	.0179173	.000124
#3	.1098065	-.006346	-.000078	.0022410	-.000318	.0275388	-.000104

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159637BL Acquired: 3/22/2024 0:10:09 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0000139	.0041717	-.000073	z *****
Stddev	.0003172	.0001279	.000021	-----
%RSD	2291.104	3.065952	29.61455	-----
#1	-.000282	.0041096	-.000048	z 2587.590
#2	.000349	.0040867	-.000084	z 2592.976
#3	-.000025	.0043188	-.000086	z 2596.480

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4144.934	104264.6	14119.53	3942.725	5678.761
Stddev	5.966	378.2	150.01	14.380	6.127
%RSD	.1439269	.3626967	1.062425	.3647125	.1078885
#1	4151.819	104575.4	14291.77	3956.554	5674.564
#2	4141.691	104374.8	14049.32	3943.770	5675.927
#3	4141.293	103843.6	14017.50	3927.852	5685.791

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159637BS Acquired: 3/22/2024 0:14:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7580719**	**2.122702**	**1.002205**	**1.898581**	**.7845769**	**2.118399**
Stddev	.0182483	.043815	.028523	.047427	.0205605	.010398
%RSD	2.407196	2.064100	2.846041	2.498019	2.620588	.4908656
#1	.7752649	2.169965	1.030397	1.945020	.8050089	2.107126
#2	.7389255	2.083438	.973362	1.850224	.7638902	2.120455
#3	.7600254	2.114704	1.002856	1.900500	.7848317	2.127616

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2050436**	**.2129738**	**.1929541**	**1.103969**	**.4216867**	**.1867793**
Stddev	.0012311	.0011576	.0057262	.008120	.0043871	.0063042
%RSD	.6004155	.5435536	2.967632	.7355015	1.040372	3.375206
#1	.2036415	.2122966	.1982670	1.095626	.4185347	.1926521
#2	.2055415	.2143105	.1868890	1.111845	.4198281	.1801179
#3	.2059477	.2123144	.1937062	1.104436	.4266971	.1875679

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2908510**	**2.924874**	**.2105722**	**2.051124**	**.4864881**	**.0826202**
Stddev	.0090993	.045988	.0008645	.013366	.0146768	.0002509
%RSD	3.128495	1.572304	.4105275	.6516264	3.016885	.3036340
#1	.2996078	2.893890	.2096602	2.036700	.5001582	.0823421
#2	.2814442	2.903018	.2106769	2.053580	.4709781	.0826892
#3	.2915010	2.977714	.2113795	2.063091	.4883281	.0828294

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.002176**	**.3058806**	**.2175833**	**9.484498**	**.3459729**	**.3862604**
Stddev	.043988	.0010616	.0016837	.134253	.0018905	.0107424
%RSD	1.465208	.3470677	.7738037	1.415494	.5464343	2.781118
#1	2.963545	.3047968	.2158752	9.380114	.3461993	.3967898
#2	2.992930	.3059266	.2176334	9.437434	.3477400	.3753170
#3	3.050052	.3069185	.2192414	9.635946	.3439794	.3866744

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: PB159637BS Acquired: 3/22/2024 0:14:38 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6629743**	**.2125886**	**.9793439**	F **.5933894**	F **.0005602**	F **.0269478**
Stddev	.0217321	.0029683	.0069900	.0189436	.0000552	.0002696
%RSD	3.277971	1.396257	.7137432	3.192440	9.855507	1.000467
#1	.6829336	.2091614	.9859047	.6104140	.0005192	.0266407
#2	.6398225	.2143425	.9719920	.5729825	.0005385	.0271457
#3	.6661667	.2142618	.9801350	.5967717	.0006230	.0270569

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.2039683**	z *****
Stddev	.0015037	-----
%RSD	.7371999	-----
#1	.2022610	z 12572.51
#2	.2045487	z 12639.54
#3	.2050954	z 12620.75

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4194.988**	**103212.2**	**13995.62**	**3905.554**	**5579.911**
Stddev	109.540	719.8	50.21	6.119	154.979
%RSD	2.611213	.6973703	.3587605	.1566751	2.777446
#1	4086.694	103640.9	14027.12	3906.076	5431.736
#2	4305.733	103614.5	13937.71	3911.395	5740.899
#3	4192.537	102381.2	14022.01	3899.190	5567.098

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1788-01 Acquired: 3/22/2024 0:18:50 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255030	-.009357	.8053037	-.038436	.0064617	F 48.01412
Stddev	.0025742	.001064	.0013002	.004554	.0012338	.13382
%RSD	10.09368	11.37255	.1614503	11.84882	19.09402	.2787037
#1	.0231272	-.008475	.8041368	-.040747	.0077036	47.93530
#2	.0251439	-.010539	.8067051	-.033189	.0052362	47.93843
#3	.0282379	-.009058	.8050691	-.041371	.0064453	48.16863

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.260708	.0044676	.0030716	F 690.5141	.1387322	.0455476
Stddev	.004804	.0000831	.0001296	7.6677	.0000860	.0003003
%RSD	.3810718	1.859474	4.218859	1.110437	.0619951	.6593608
#1	1.255312	.0044785	.0030516	683.8964	.1387317	.0458475
#2	1.262293	.0043797	.0032100	688.7290	.1386464	.0452468
#3	1.264520	.0045448	.0029532	698.9169	.1388184	.0455485

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6074011	F 156.9094	2.780234	F 165.1068	.1169937	.0352411
Stddev	.0012010	.2192	.004089	.1399	.0007367	.0001531
%RSD	.1977227	.1397288	.1470592	.0847219	.6297184	.4345174
#1	.6060398	157.1458	2.775536	165.0207	.1166424	.0353710
#2	.6083111	156.7128	2.782174	165.0316	.1178403	.0350723
#3	.6078522	156.8696	2.782991	165.2682	.1164984	.0352801

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 168.7476	.1382315	1.881193	F 77.13579	1.210568	.0095293
Stddev	.8610	.0029371	.007607	.03431	.003157	.0002291
%RSD	.5102390	2.124746	.4043502	.0444813	.2607486	2.403906
#1	169.5720	.1362855	1.887650	77.10514	1.212717	.0093400
#2	167.8541	.1416100	1.872808	77.17285	1.212042	.0097839
#3	168.8166	.1367991	1.883120	77.12939	1.206943	.0094638

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1788-01 Acquired: 3/22/2024 0:18:50 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1405400	3.417922	F 103.6014	.2923409	29.82896	.0493615
Stddev	.0011559	.013187	.0482	.0004749	.08065	.0003008
%RSD	.8224704	.3858279	.0465186	.1624314	.2703601	.6092843
#1	.1404119	3.402942	103.5586	.2918244	29.83768	.0490293
#2	.1394535	3.423045	103.6536	.2927586	29.90490	.0494400
#3	.1417546	3.427780	103.5919	.2924398	29.74431	.0496152

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	3.692259	z *****
Stddev	.007031	-----
%RSD	.1904155	-----
#1	3.684145	z 4589.328
#2	3.696542	z 4604.549
#3	3.696090	z 4590.896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.647	95380.86	14353.62	3597.027	4262.005
Stddev	9.307	144.75	32.96	18.686	5.827
%RSD	.2474824	.1517559	.2296030	.5194876	.1367268
#1	3771.384	95268.04	14370.93	3585.592	4268.137
#2	3754.871	95544.06	14374.32	3618.590	4261.336
#3	3755.687	95330.46	14315.62	3586.898	4256.541

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1788-02 Acquired: 3/22/2024 0:23:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0707051	-.017504	1.669230	-.045780	.0049230	F 60.35997
Stddev	.0022329	.003290	.007897	.002098	.0020597	5.32988
%RSD	3.158072	18.79660	.4730907	4.583425	41.83886	8.830163
#1	.0710797	-.013875	1.661476	-.048201	.0059587	63.44049
#2	.0727270	-.020291	1.668951	-.044664	.0062594	63.43387
#3	.0683086	-.018346	1.677263	-.044476	.0025510	54.20555

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.124442	.0059418	.0060110	F 545.7483	.1888126	.0627044
Stddev	.180146	.0004726	.0006344	41.2931	.0009885	.0004519
%RSD	8.479668	7.954043	10.55416	7.566324	.5235582	.7207274
#1	2.227658	.0062358	.0059226	569.3939	.1877094	.0622716
#2	2.229238	.0061930	.0054254	569.7832	.1896182	.0626683
#3	1.916430	.0053967	.0066849	498.0676	.1891100	.0631733

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6136270	F 199.8936	4.312771	F 112.1097	.1831926	-.009505
Stddev	.0034125	2.8019	.376364	9.9701	.0007665	.000597
%RSD	.5561278	1.401714	8.726739	8.893129	.4183886	6.279348
#1	.6108470	200.2095	4.528415	117.9188	.1826684	-.009482
#2	.6125986	202.5242	4.531711	117.8129	.1828370	-.008920
#3	.6174356	196.9471	3.878187	100.5974	.1840722	-.010113

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 122.9997	.1761902	2.284907	47.19278	.6936914	.0134929
Stddev	1.0926	.0158260	.010329	.30023	.0068771	.0003686
%RSD	.8882940	8.982323	.4520617	.6361731	.9913727	2.731682
#1	123.0439	.1853639	2.273767	47.17054	.6900923	.0135383
#2	124.0695	.1852907	2.286788	47.50352	.7016211	.0131037
#3	121.8857	.1579160	2.294167	46.90430	.6893607	.0138366

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: P1788-02 Acquired: 3/22/2024 0:23:25 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3645873	2.220046	F 125.0453	.4412349	19.82090	.0219131
Stddev	.0017541	.189802	1.4820	.0013276	.06945	.0018197
%RSD	.4811043	8.549468	1.185201	.3008784	.3503744	8.304245
#1	.3625628	2.325178	125.1986	.4414591	19.76959	.0230262
#2	.3655497	2.334020	126.4448	.4398095	19.79319	.0229000
#3	.3656495	2.000941	123.4926	.4424361	19.89993	.0198132

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	3.138780	z *****
Stddev	.244381	-----
%RSD	7.785870	-----
#1	3.274338	z 4902.317
#2	3.285338	z 4892.493
#3	2.856664	z 4886.173

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3903.198	98585.22	15829.16	3737.202	4390.363
Stddev	17.306	305.18	1249.79	22.307	21.717
%RSD	.4433846	.3095630	7.895493	.5969013	.4946466
#1	3916.512	98928.71	15092.34	3762.959	4404.919
#2	3909.445	98345.29	15122.96	3724.135	4400.768
#3	3883.635	98481.65	17272.19	3724.511	4365.401

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV13 Acquired: 3/22/2024 0:37:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.709437**	**5.017266**	**4.963369**	**4.666905**	**4.838384**	**10.51858**
Stddev	.036674	.077373	.035293	.045798	.039604	.13103
%RSD	.7787384	1.542131	.7110640	.9813398	.8185288	1.245730
#1	4.691061	4.960900	4.941795	4.635292	4.811715	10.37654
#2	4.685583	4.985417	4.944214	4.645999	4.819547	10.54445
#3	4.751666	5.105480	5.004098	4.719426	4.883890	10.63474

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.14400**	**.2604775**	**2.455871**	**26.21778**	**.9968043**	**2.421413**
Stddev	.09063	.0017045	.017474	.36775	.0302035	.017541
%RSD	.8934701	.6543603	.7115133	1.402658	3.030029	.7244278
#1	10.12861	.2588434	2.447240	25.80443	.9636209	2.414879
#2	10.06204	.2603445	2.444393	26.34024	1.004101	2.408077
#3	10.24134	.2622446	2.475981	26.50867	1.022691	2.441284

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.200051**	**4.830442**	**2.558934**	**26.01909**	**2.490765**	**1.266443**
Stddev	.008349	.161731	.029929	.38752	.017894	.036073
%RSD	.6957145	3.348164	1.169605	1.489358	.7184100	2.848333
#1	1.194023	4.654457	2.527107	25.59555	2.483754	1.226473
#2	1.196549	4.864312	2.563181	26.10585	2.477438	1.276279
#3	1.209580	4.972555	2.586513	26.35588	2.511103	1.296578

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.94265**	**2.556003**	**2.469537**	**23.89724**	F **5.666248**	**4.671510**
Stddev	.80479	.036296	.071557	.84446	.029569	.035981
%RSD	3.361314	1.420012	2.897592	3.533698	.5218379	.7702252
#1	23.04171	2.517312	2.391054	22.96159	5.632498	4.644701
#2	24.19583	2.561400	2.486400	24.12731	5.678652	4.657427
#3	24.59040	2.589298	2.531156	24.60282	5.687595	4.712403

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCV13 Acquired: 3/22/2024 0:37:14 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV13 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.850513**	**5.198344**	**5.224928**	**5.167137**	**4.685234**	**5.324920**
Stddev	.039324	.063415	.226175	.039803	.039188	.070897
%RSD	.8107279	1.219913	4.328761	.7703062	.8364146	1.331416
#1	4.827573	5.129195	4.977211	5.161898	4.663603	5.243596
#2	4.828046	5.212054	5.277147	5.130214	4.661630	5.357447
#3	4.895920	5.253783	5.420426	5.209301	4.730471	5.373718

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**5.181647**	z *****
Stddev	.069589	-----
%RSD	1.342985	-----
#1	5.125194	z 25150.17
#2	5.160351	z 25284.66
#3	5.259395	z 25218.27

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.745**	**101837.9**	**13743.45**	**3871.086**	**4842.861**
Stddev	23.886	2696.1	51.48	102.358	30.966
%RSD	.6086015	2.647436	.3745896	2.644177	.6394188
#1	3941.383	104808.7	13789.84	3986.555	4857.831
#2	3935.477	101158.8	13752.44	3835.204	4863.499
#3	3897.376	99546.3	13688.06	3791.500	4807.255

Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB13 Acquired: 3/22/2024 0:41:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003274	.0008028	.0006356	.0011239	.0019770	-.000253	.0011310
Stddev	.0005644	.0012191	.0002572	.0006609	.0010509	.007466	.0001476
%RSD	172.3579	151.8498	40.47474	58.80541	53.15468	2946.799	13.04846
#1	-.000158	-.000417	.0009233	.0015854	.0028210	.007509	.0010906
#2	.000194	.000805	.0004277	.0014196	.0008000	-.007384	.0010079
#3	.000947	.002021	.0005557	.0003668	.0023101	-.000885	.0012946

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000249	.0000078	.0120089	.0000000	-.000044	.0000434	-.002556
Stddev	.0000398	.0000677	.0109346	.0001695	.000192	.0001923	.002150
%RSD	160.2598	864.0263	91.05446	798026.8	437.4912	442.7396	84.11617
#1	.0000591	-.000064	.0053806	-.000090	.000010	.0001216	-.000091
#2	.0000343	.000017	.0060162	-.000106	.000116	.0001843	-.004043
#3	-.000019	.000071	.0246297	.000195	-.000257	-.000176	-.003535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001319	-.022897	-.000146	.0004913	.2017221	.0020538	-.000049
Stddev	.0002126	.011014	.000220	.0001619	.0107195	.0004136	.000121
%RSD	161.1940	48.10355	151.1754	32.94685	5.313990	20.13985	248.7363
#1	.0001508	-.026681	-.000213	.0004949	.1954613	.0021095	.000039
#2	-.000090	-.010490	.000100	.0006513	.2140997	.0016151	.000002
#3	.000334	-.031521	-.000324	.0003277	.1956054	.0024367	-.000187

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1374948	.0041645	.0002674	.0026918	.0010597	.0276440	-.000102
Stddev	.0186308	.0002903	.0003108	.0004535	.0002252	.0096093	.000138
%RSD	13.55020	6.971131	116.2197	16.84728	21.24989	34.76075	136.3938
#1	.1574089	.0042313	.0004686	.0031680	.0009368	.0376244	.000020
#2	.1345861	.0038466	.0004241	.0022651	.0009226	.0268527	-.000252
#3	.1204894	.0044156	-.000091	.0026422	.0013195	.0184549	-.000072

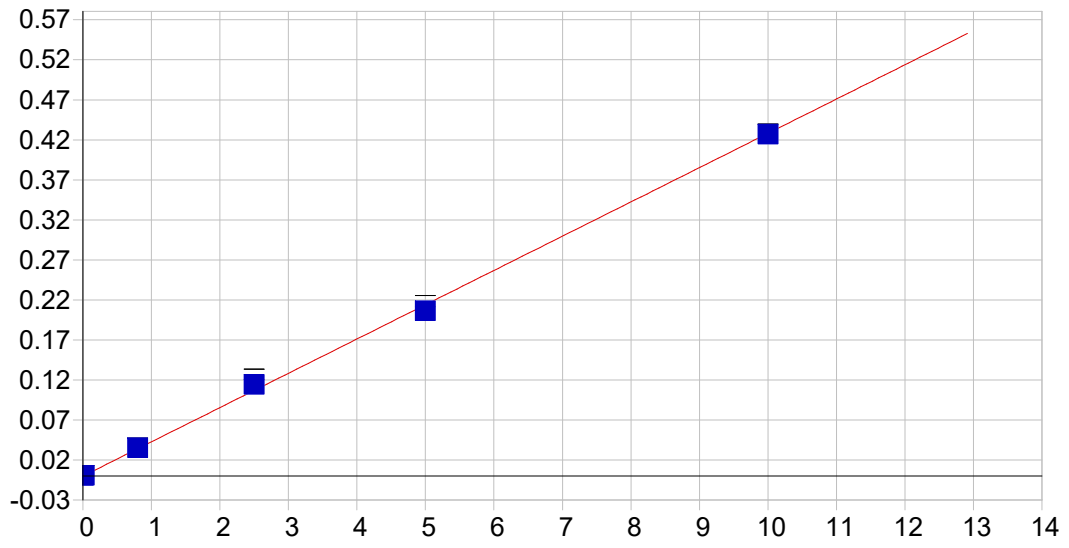
Reviewed By:
On:
Inst Id :P4
LB :LB129987

Sample Name: CCB13 Acquired: 3/22/2024 0:41:43 Type: Unk
Method: NON EPA-6010-200.7(v2201) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB13 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0011557	.0068758	.0001127	z *****
Stddev	.0001151	.0000519	.0000180	-----
%RSD	9.956188	.7545803	16.01238	-----
#1	.0012470	.0069194	.0001148	z 2622.751
#2	.0011936	.0068184	.0001296	z 2603.118
#3	.0010265	.0068895	.0000937	z 2602.068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4153.439	104922.0	14197.19	3961.533	5692.854
Stddev	4.540	169.5	20.07	12.674	14.956
%RSD	.1093150	.1615419	.1413550	.3199189	.2627082
#1	4157.913	104804.7	14218.61	3954.943	5676.035
#2	4153.568	105116.3	14178.83	3953.512	5697.869
#3	4148.836	104845.0	14194.12	3976.144	5704.658

Reviewed By:
On:
Inst Id :P4
LB :LB130043



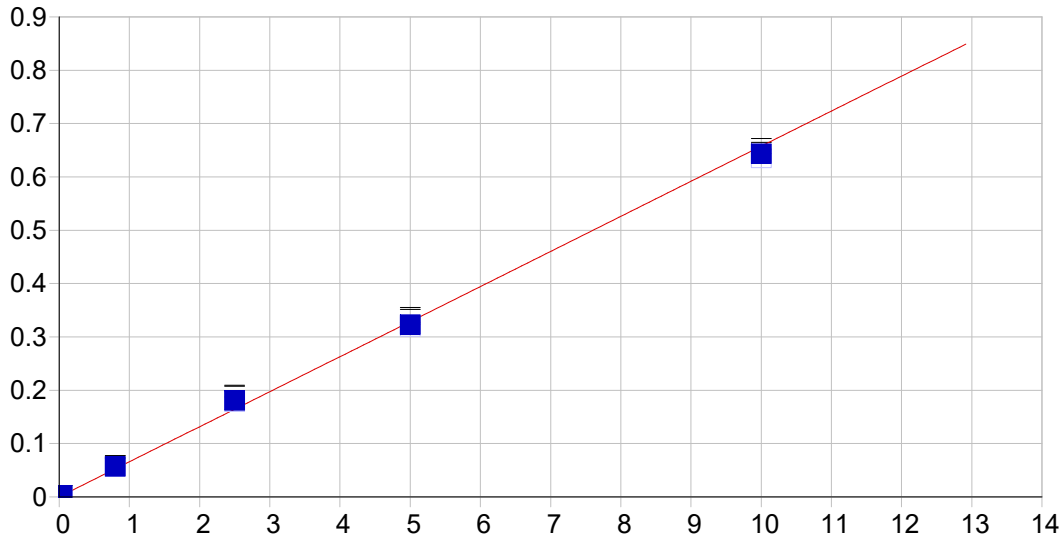
As 189.042 {479}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000198	Re-Slope:	1.000000
A1 (Gain):	0.042833	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999445	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.002431		
Predicted MQL:	0.008105		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00020	.000	1
S1	.02000	.02100	.001	5.02	.00070	.000	1
S3	2.5000	2.6787	.179	7.15	.11452	.006	1
S4	5.0000	4.8178	-.182	-3.64	.20614	.007	1
S5	10.000	9.9767	-.023	-.233	.42708	.000	1
S2	.80000	.82577	.026	3.22	.03517	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



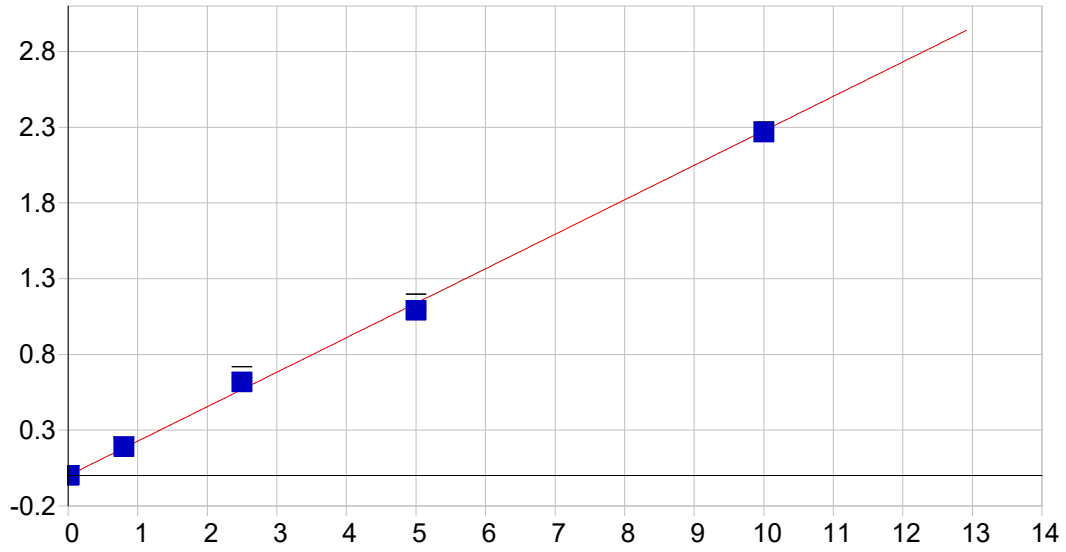
Tl 190.856 {477}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.065740	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999024	Status:	OK.
Std Error of Est:	0.000095		
Predicted MDL:	0.001552		
Predicted MQL:	0.005173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00006	.000	1
S1	.04000	.04260	.003	6.49	.00276	.000	1
S3	2.5000	2.7422	.242	9.69	.17849	.010	1
S4	5.0000	4.9113	-.089	-1.77	.31926	.014	1
S5	10.000	9.7806	-.219	-2.19	.63569	.011	1
S2	.80000	.86337	.063	7.92	.05623	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



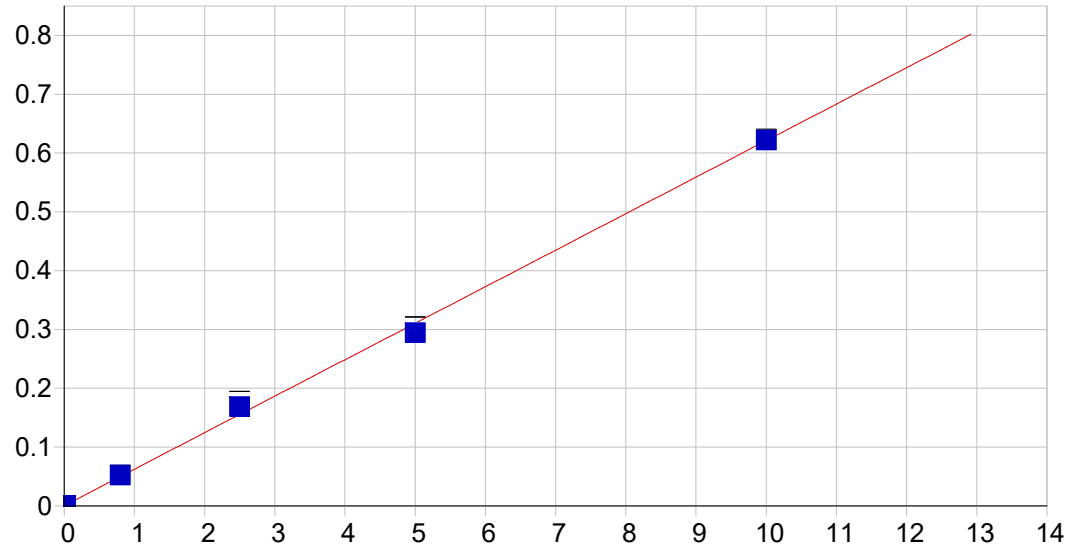
Pb 220.353 {453}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000124	Re-Slope:	1.000000
A1 (Gain):	0.227639	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999226	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.001017		
Predicted MQL:	0.003390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00012	.000	1
S1	.01200	.01093	-.001	-8.92	.00233	.000	1
S3	2.5000	2.7127	.213	8.51	.61728	.035	1
S4	5.0000	4.7950	-.205	-4.10	1.0912	.042	1
S5	10.000	9.9577	-.042	-.423	2.2662	.002	1
S2	.80000	.83571	.036	4.46	.19008	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



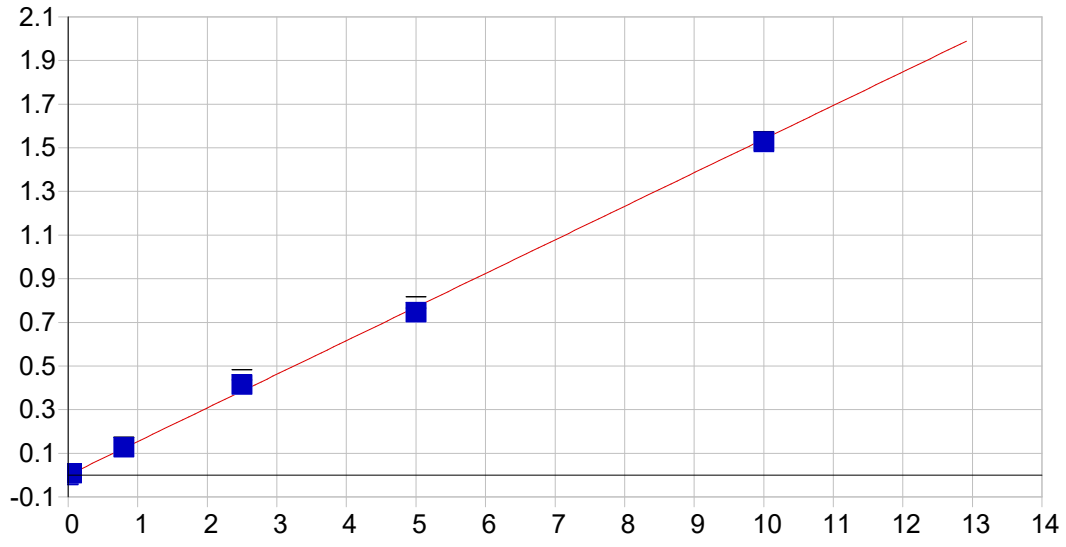
Se 196.090 {472}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000356	Re-Slope:	1.000000
A1 (Gain):	0.062071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999101	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.002633		
Predicted MQL:	0.008777		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00036	.000	1
S1	.02000	.02084	.001	4.22	.00165	.000	1
S3	2.5000	2.7135	.214	8.54	.16887	.009	1
S4	5.0000	4.7408	-.259	-5.18	.29479	.010	1
S5	10.000	10.013	.013	.126	.62217	.002	1
S2	.80000	.83219	.032	4.02	.05204	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



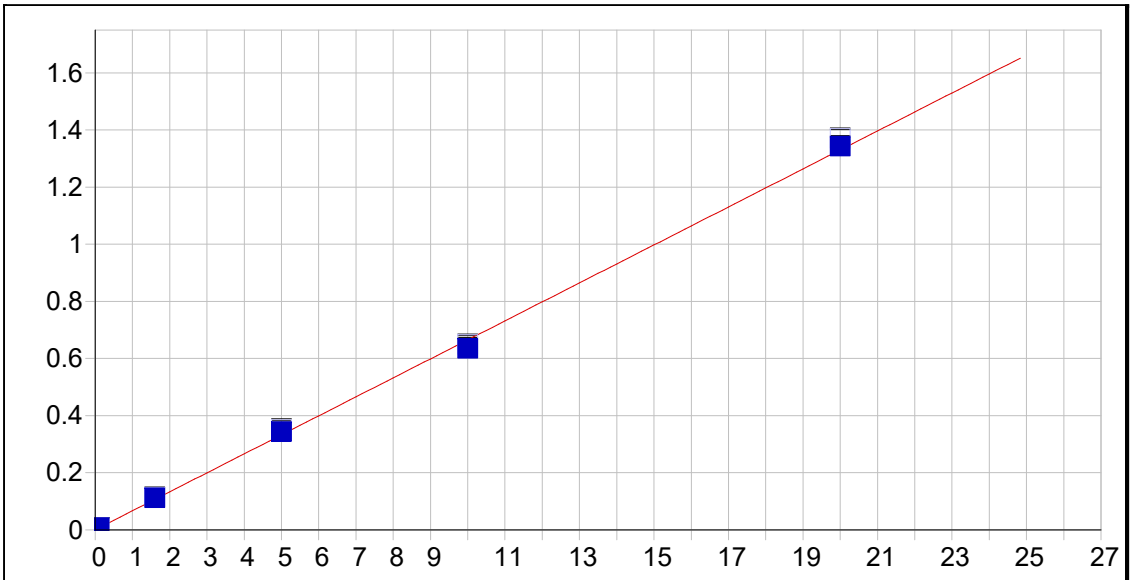
Sb 206.833 {463}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.153991	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999420	Status:	OK.
Std Error of Est:	0.000194		
Predicted MDL:	0.001228		
Predicted MQL:	0.004094		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00000	.000	1
S1	.05000	.05170	.002	3.40	.00794	.000	1
S3	2.5000	2.6924	.192	7.70	.41351	.023	1
S4	5.0000	4.8501	-.150	-3.00	.74466	.026	1
S5	10.000	9.9243	-.076	-.757	1.5239	.001	1
S2	.80000	.83147	.031	3.93	.12769	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



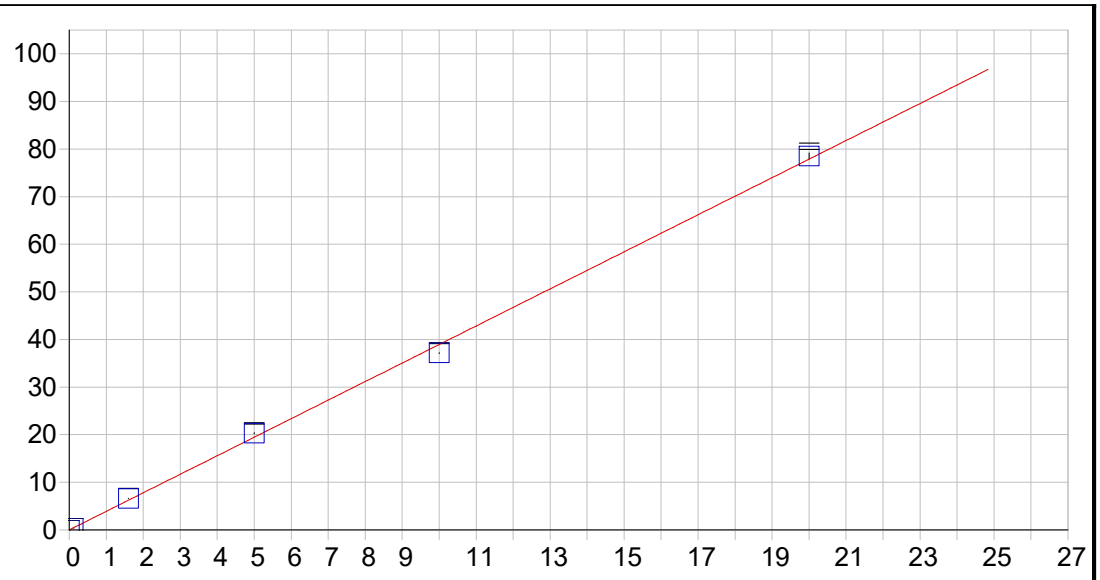
Al 396.152 { 85}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000317	Re-Slope:	1.000000
A1 (Gain):	0.066496	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999558	Status:	OK.
Std Error of Est:	0.000150		
Predicted MDL:	0.006705		
Predicted MQL:	0.022351		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00032	.000	1
S1	.10000	.10517	.005	5.17	.00782	.000	1
S3	5.0000	5.1745	.175	3.49	.35109	.003	1
S4	10.000	9.5428	-.457	-4.57	.64825	.003	1
S5	20.000	20.191	.191	.953	1.3697	.003	1
S2	1.6000	1.6866	.087	5.41	.11461	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



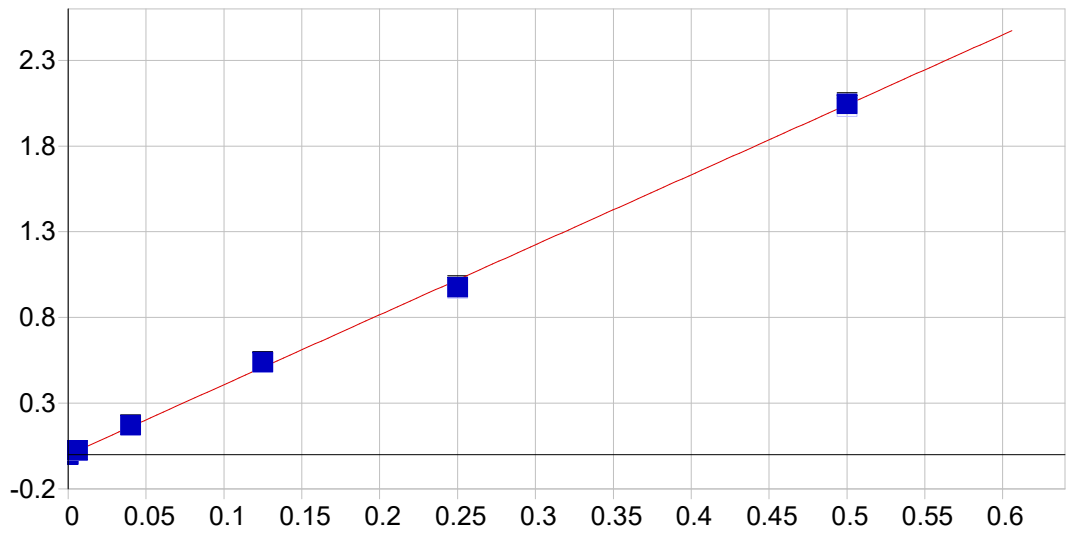
Ba 493.409 { 68}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005385	Re-Slope:	1.000000
A1 (Gain):	3.894177	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999498	Status:	OK.
Std Error of Est:	0.009151		
Predicted MDL:	0.000370		
Predicted MQL:	0.001232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00535	.001	1
S1	.10000	.10322	.003	3.22	.40733	.005	1
S3	5.0000	5.2059	.206	4.12	20.278	.124	1
S4	10.000	9.5374	-.463	-4.63	37.146	.095	1
S5	20.000	20.159	.159	.794	78.507	.648	1
S2	1.6000	1.6947	.095	5.92	6.6049	.021	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



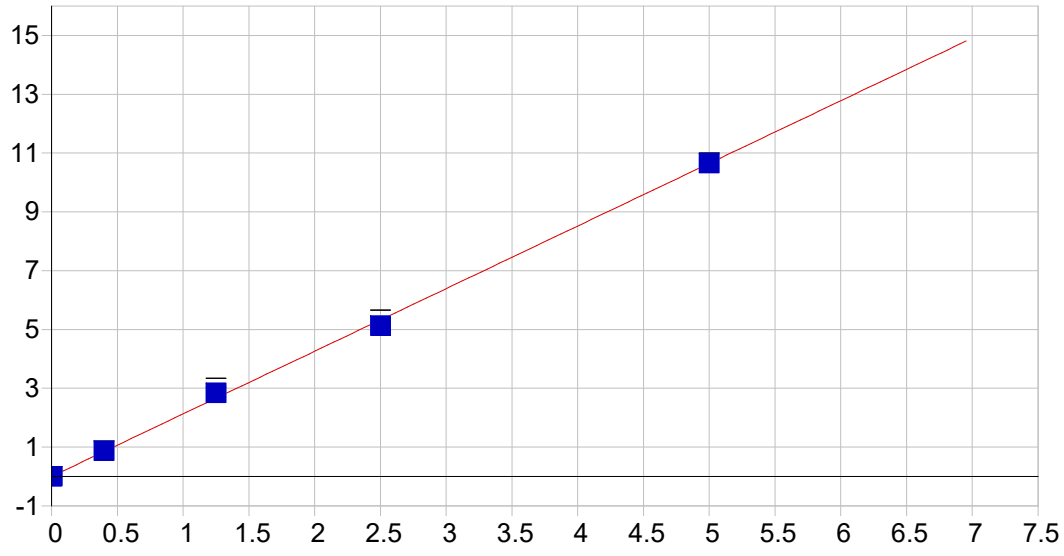
Be 234.861 {144}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000772	Re-Slope:	1.000000
A1 (Gain):	4.082425	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999447	Status:	OK.
Std Error of Est:	0.000388		
Predicted MDL:	0.000049		
Predicted MQL:	0.000163		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00077	.000	1
S1	.00600	.00587	-.000	-2.18	.02290	.000	1
S3	.12500	.13233	.007	5.86	.53562	.003	1
S4	.25000	.23948	-.011	-4.21	.96922	.008	1
S5	.50000	.50108	.001	.216	2.0295	.009	1
S2	.04000	.04225	.002	5.61	.17047	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



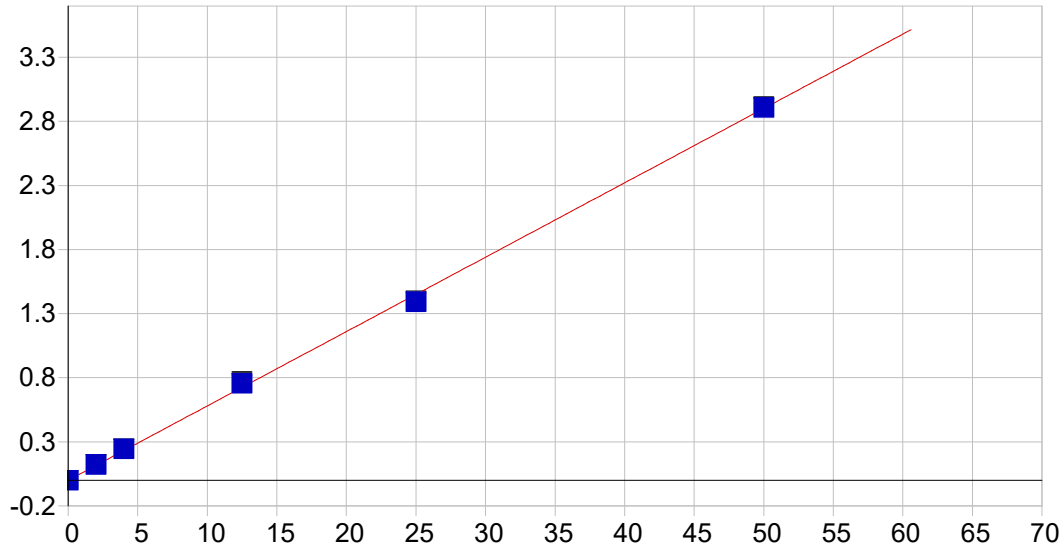
Cd 226.502 {449}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000280	Re-Slope:	1.000000
A1 (Gain):	2.130141	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999475	Status:	OK.
Std Error of Est:	0.000627		
Predicted MDL:	0.000074		
Predicted MQL:	0.000245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00028	.000	1
S1	.00600	.00614	.000	2.32	.01285	.000	1
S3	1.2500	1.3357	.086	6.85	2.8472	.158	1
S4	2.5000	2.4051	-.095	-3.79	5.1275	.198	1
S5	5.0000	5.0008	.001	.017	10.661	.011	1
S2	.40000	.40819	.008	2.05	.86995	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



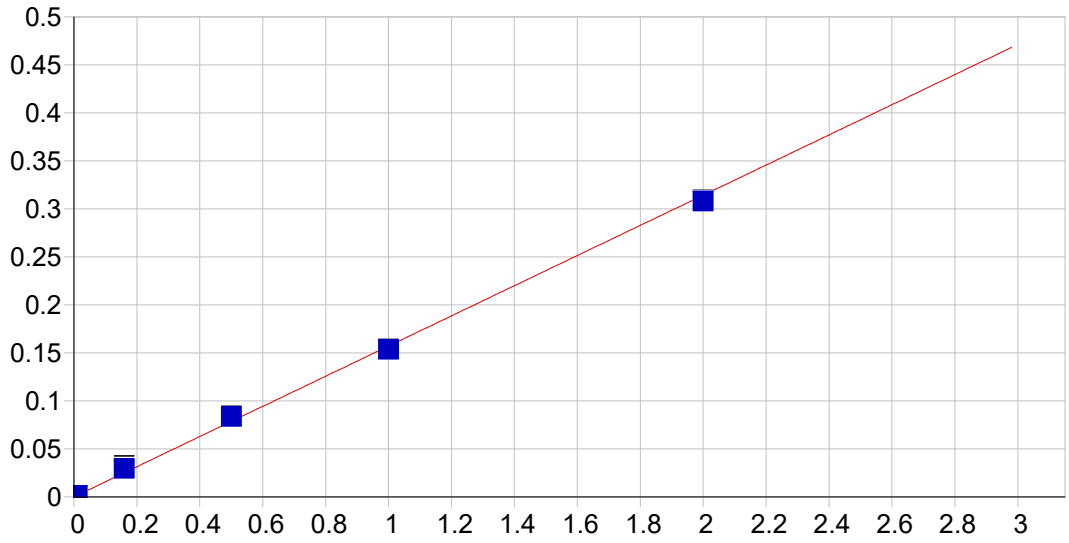
Ca 373.690 { 90}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000168	Re-Slope:	1.000000
A1 (Gain):	0.058025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999569	Status:	OK.
Std Error of Est:	0.000900		
Predicted MDL:	0.007796		
Predicted MQL:	0.025987		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	-.00018	.000	1
S2	4.0000	4.2130	.213	5.32	.24394	.001	1
S3	12.500	13.047	.547	4.37	.75575	.011	1
S4	25.000	24.003	-.997	-3.99	1.3904	.006	1
S5	50.000	50.138	.138	.275	2.9047	.005	1
S1	2.0000	2.0992	.099	4.96	.12160	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



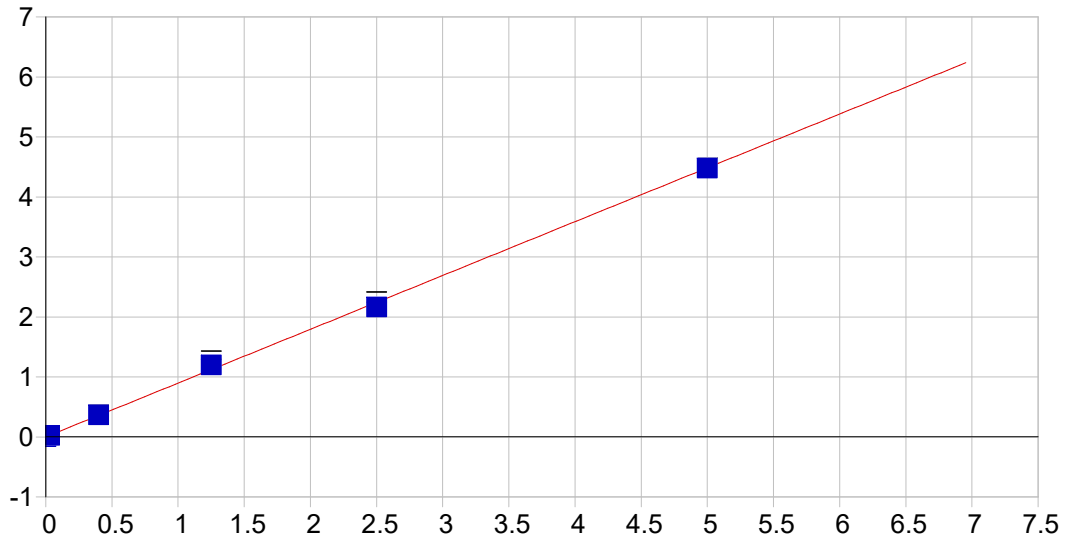
Cr 267.716 {126}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.157104	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998821	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.000283		
Predicted MQL:	0.000942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00005	.000	1
S1	.01000	.01062	.001	6.15	.00172	.000	1
S3	.50000	.53318	.033	6.64	.08394	.000	1
S4	1.0000	.97694	-.023	-2.31	.15378	.000	1
S5	2.0000	1.9606	-.039	-1.97	.30857	.001	1
S2	.16000	.18870	.029	17.9	.02974	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



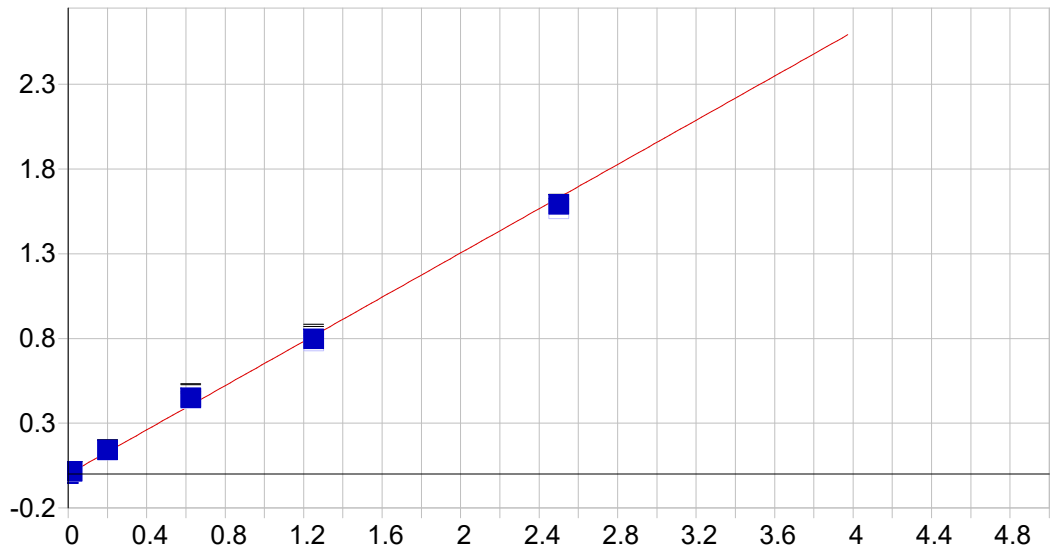
Co 228.616 {448}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000156	Re-Slope:	1.000000
A1 (Gain):	0.896890	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999493	Status:	OK.
Std Error of Est:	0.000581		
Predicted MDL:	0.000159		
Predicted MQL:	0.000529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00016	.000	1
S1	.03000	.02976	-.000	-.808	.02646	.001	1
S3	1.2500	1.3364	.086	6.91	1.2009	.068	1
S4	2.5000	2.4122	-.088	-3.51	2.1682	.085	1
S5	5.0000	4.9913	-.009	-.174	4.4863	.004	1
S2	.40000	.41041	.010	2.60	.36872	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



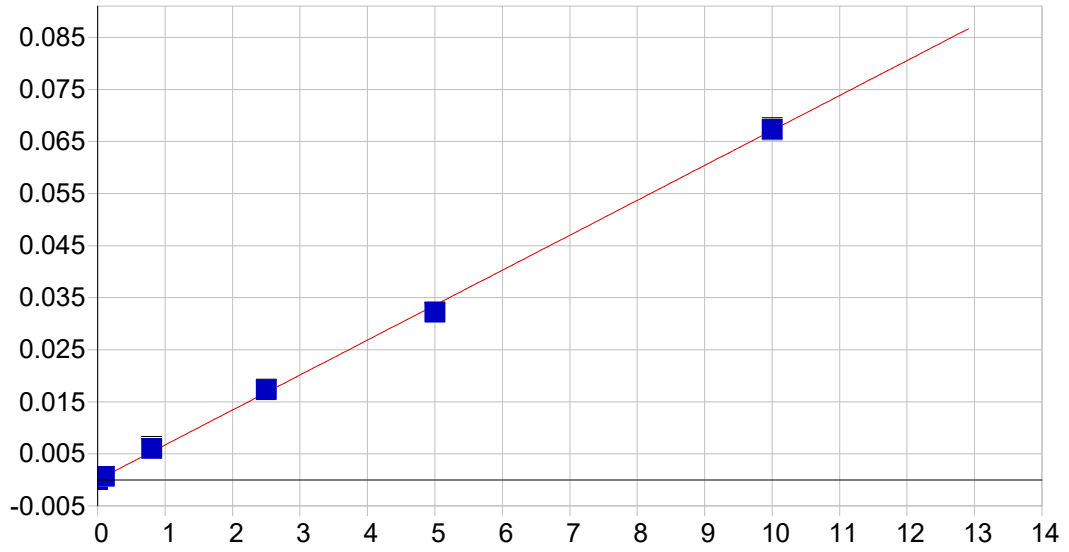
Cu 224.700 {450}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000418	Re-Slope:	1.000000
A1 (Gain):	0.652571	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998707	Status:	OK.
Std Error of Est:	0.000383		
Predicted MDL:	0.000332		
Predicted MQL:	0.001107		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00042	.000	1
S1	.02000	.02357	.004	17.8	.01404	.001	1
S3	.62500	.69102	.066	10.6	.44402	.024	1
S4	1.2500	1.2231	-.027	-2.15	.78473	.027	1
S5	2.5000	2.4385	-.062	-2.46	1.5649	.001	1
S2	.20000	.21905	.019	9.53	.14045	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



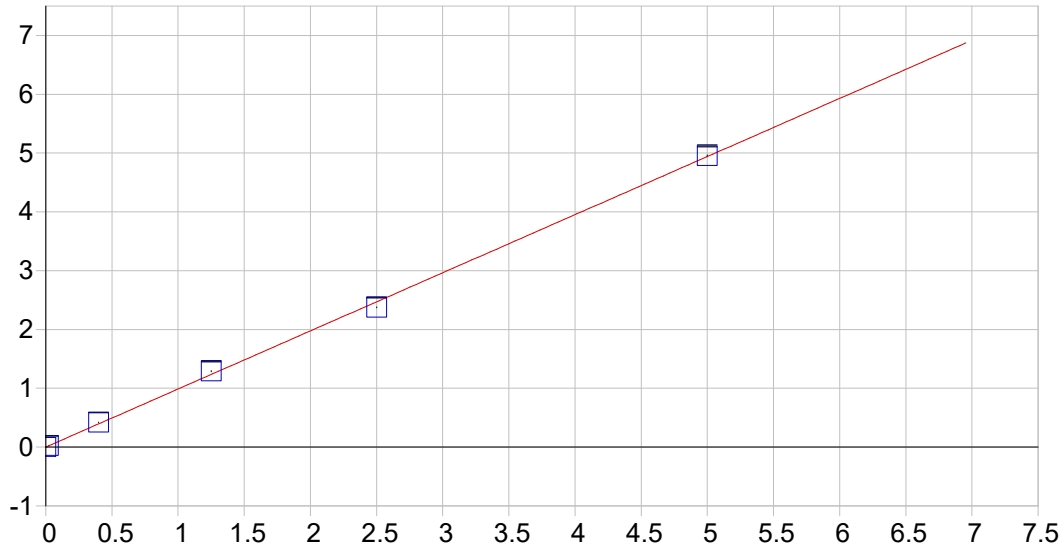
Fe 240.488 {140}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.006714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999408	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.003662		
Predicted MQL:	0.012206		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00000	.000	1
S1	.10000	.10141	.001	1.41	.00068	.000	1
S3	2.5000	2.5812	.081	3.25	.01726	.000	1
S4	5.0000	4.7981	-.202	-4.04	.03208	.000	1
S5	10.000	10.027	.027	.266	.06705	.000	1
S2	.80000	.89277	.093	11.6	.00597	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



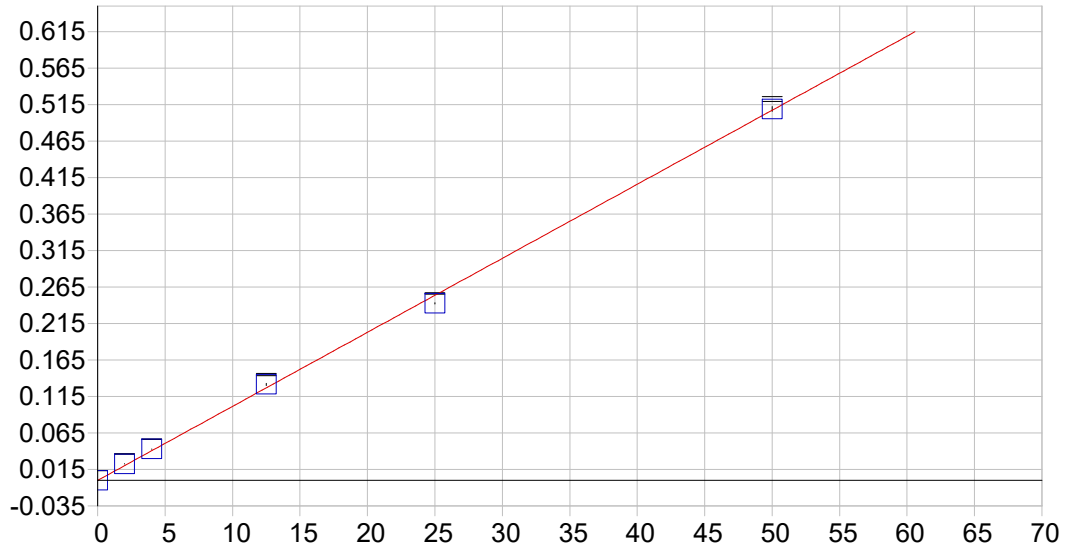
Mn 257.610 {131}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000066	Re-Slope:	1.000000
A1 (Gain):	0.988251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999558	Status:	OK.
Std Error of Est:	0.000487		
Predicted MDL:	0.000186		
Predicted MQL:	0.000620		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00007	.000	1
S1	.02000	.02145	.001	7.27	.02114	.000	1
S3	1.2500	1.3077	.058	4.61	1.2922	.012	1
S4	2.5000	2.4032	-.097	-3.87	2.3749	.008	1
S5	5.0000	5.0127	.013	.254	4.9537	.016	1
S2	.40000	.42500	.025	6.25	.41994	.004	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



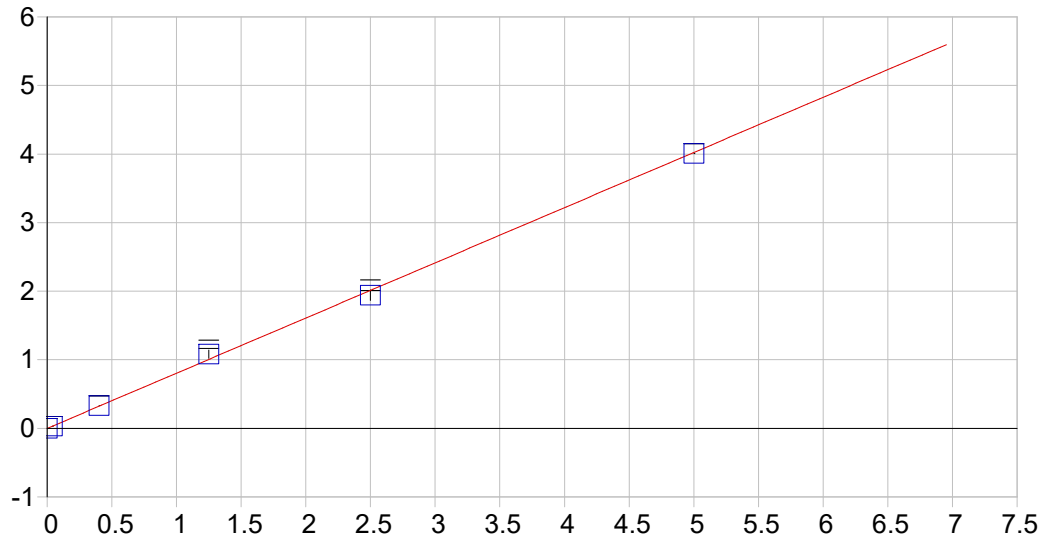
Mg 279.079 {121}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000062	Re-Slope:	1.000000
A1 (Gain):	0.010146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999432	Status:	OK.
Std Error of Est:	0.000181		
Predicted MDL:	0.020302		
Predicted MQL:	0.067672		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00034	-.000	.000	-.00007	.000	1
S2	4.0000	4.2291	.229	5.73	.04285	.000	1
S3	12.500	12.965	.465	3.72	.13149	.002	1
S4	25.000	23.904	-1.10	-4.38	.24247	.001	1
S5	50.000	50.169	.169	.338	.50896	.003	1
S1	2.0000	2.2326	.233	11.6	.02259	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



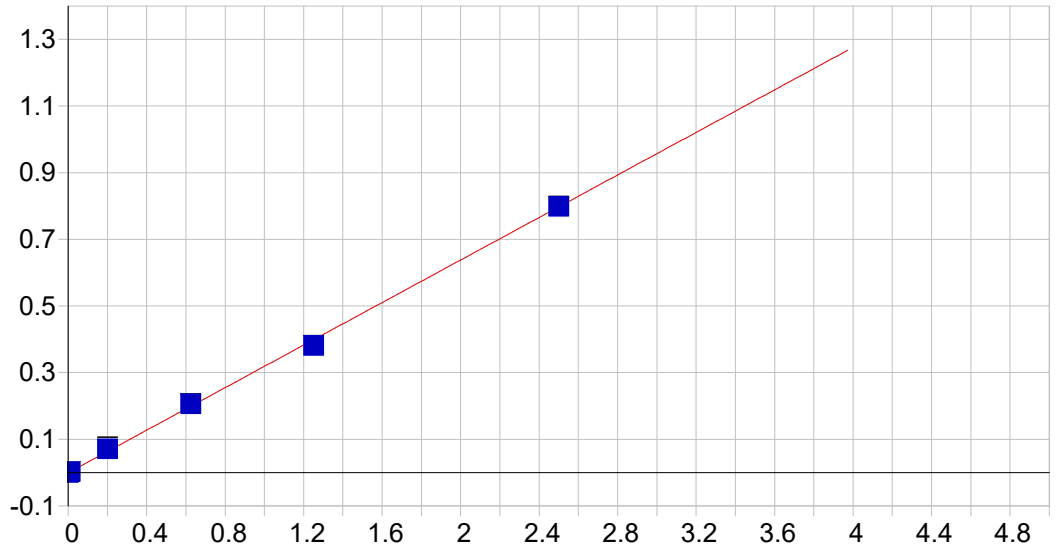
Ni 231.604 {446}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000516	Re-Slope:	1.000000
A1 (Gain):	0.804754	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999421	Status:	OK.
Std Error of Est:	0.000643		
Predicted MDL:	0.000224		
Predicted MQL:	0.000748		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00052	.000	1
S1	.04000	.03926	-.001	-1.84	.03108	.001	1
S3	1.2500	1.3443	.094	7.55	1.0813	.061	1
S4	2.5000	2.4135	-.086	-3.46	1.9418	.076	1
S5	5.0000	4.9795	-.021	-.411	4.0067	.001	1
S2	.40000	.41340	.013	3.35	.33217	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



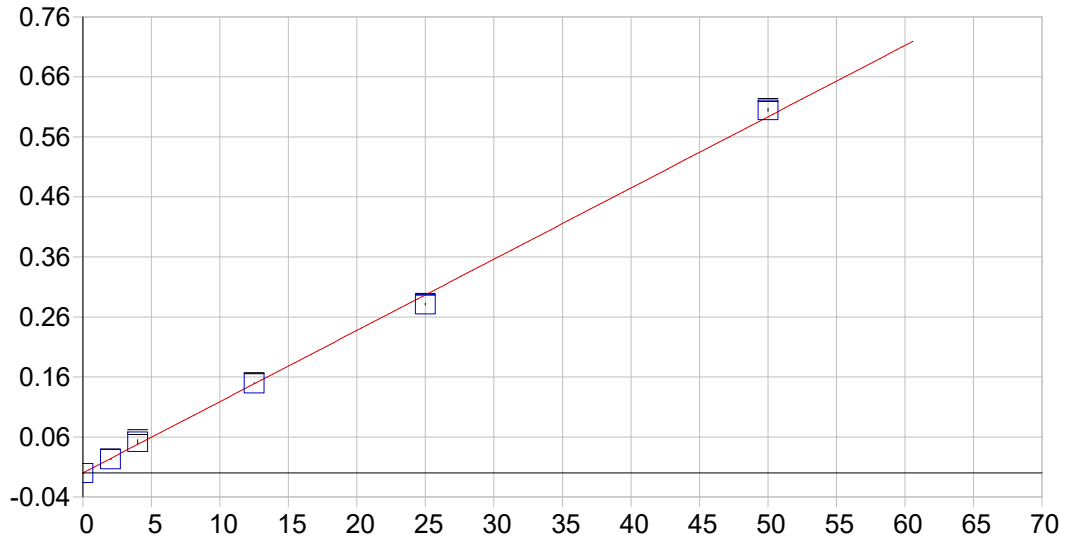
Ag 328.068 {103}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000361	Re-Slope:	1.000000
A1 (Gain):	0.319129	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999334	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.000251		
Predicted MQL:	0.000836		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.01000	.01027	.000	2.74	.00290	.000	1
S3	.62500	.64791	.023	3.67	.20570	.000	1
S4	1.2500	1.1968	-.053	-4.26	.38017	.000	1
S5	2.5000	2.5057	.006	.230	.79648	.001	1
S2	.20000	.22427	.024	12.1	.07098	.006	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



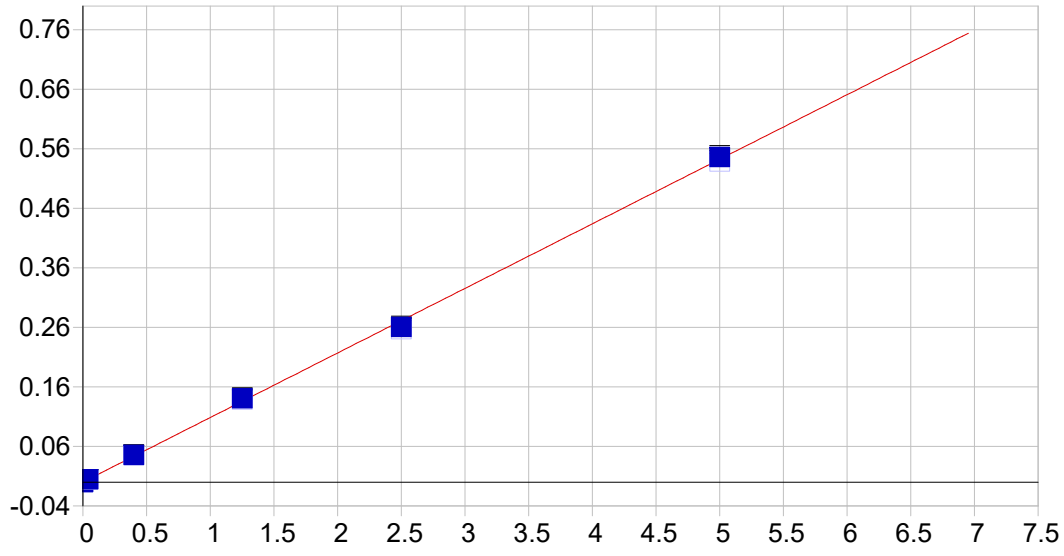
Na 589.592 { 57}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000099	Re-Slope:	1.000000
A1 (Gain):	0.011869	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999351	Status:	OK.
Std Error of Est:	0.000226		
Predicted MDL:	0.010472		
Predicted MQL:	0.034905		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	.00010	.000	1
S2	4.0000	4.3445	.344	8.61	.05166	.004	1
S3	12.500	12.595	.095	.763	.14960	.001	1
S4	25.000	23.682	-1.32	-5.27	.28119	.001	1
S5	50.000	50.958	.958	1.92	.60494	.002	1
S1	2.0000	1.9203	-.080	-3.99	.02289	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



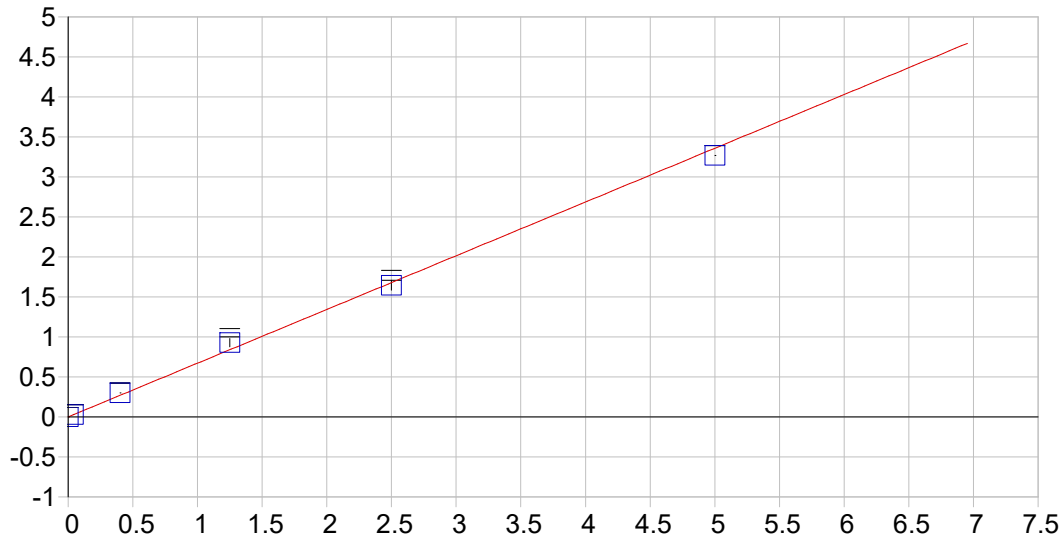
V 292.402 {115}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000056	Re-Slope:	1.000000
A1 (Gain):	0.108498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999639	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.001735		
Predicted MQL:	0.005785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00006	.000	1
S1	.04000	.04008	.000	.203	.00425	.000	1
S3	1.2500	1.2950	.045	3.60	.13862	.001	1
S4	2.5000	2.4030	-.097	-3.88	.25689	.002	1
S5	5.0000	5.0335	.034	.670	.53840	.003	1
S2	.40000	.41840	.018	4.60	.04483	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



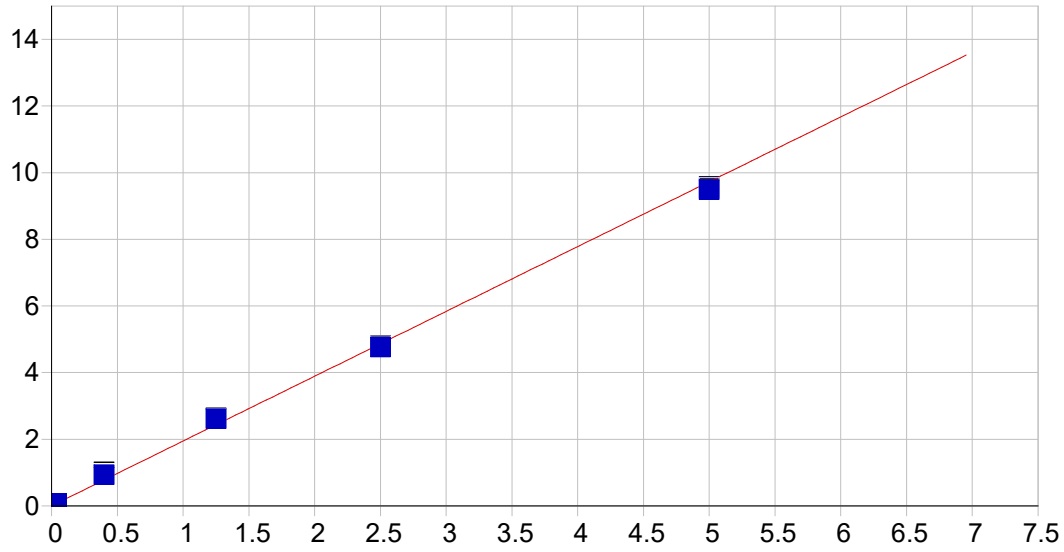
Zn 206.200 {464}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000195	Re-Slope:	1.000000
A1 (Gain):	0.671529	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998666	Status:	OK.
Std Error of Est:	0.000815		
Predicted MDL:	0.000204		
Predicted MQL:	0.000679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00019	.000	1
S1	.04000	.04417	.004	10.4	.02985	.001	1
S3	1.2500	1.3836	.134	10.7	.92935	.052	1
S4	2.5000	2.4505	-.050	-1.98	1.6458	.061	1
S5	5.0000	4.8658	-.134	-2.68	3.2677	.001	1
S2	.40000	.44589	.046	11.5	.29963	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



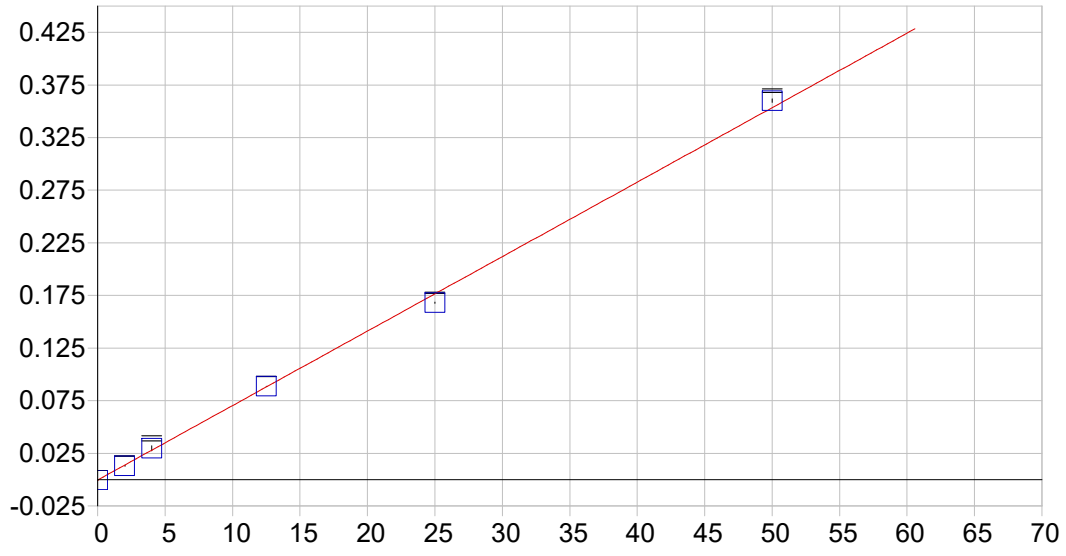
Zn 213.856 {158}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001817	Re-Slope:	1.000000
A1 (Gain):	1.945189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998540	Status:	OK.
Std Error of Est:	0.002488		
Predicted MDL:	0.000235		
Predicted MQL:	0.000783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00179	.000	1
S1	.04000	.04362	.004	9.05	.08724	.000	1
S3	1.2500	1.3441	.094	7.53	2.6345	.004	1
S4	2.5000	2.4475	-.052	-2.10	4.7988	.010	1
S5	5.0000	4.8755	-.124	-2.49	9.5578	.024	1
S2	.40000	.47917	.079	19.8	.93967	.079	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



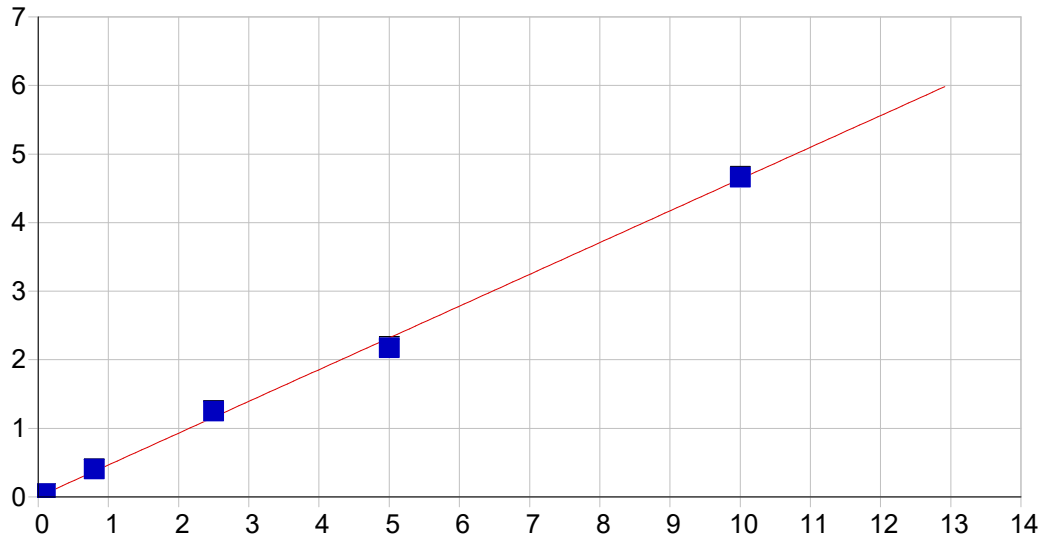
K 766.490 { 44}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000426	Re-Slope:	1.000000
A1 (Gain):	0.007077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999469	Status:	OK.
Std Error of Est:	0.000122		
Predicted MDL:	0.021754		
Predicted MQL:	0.072513		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00043	.000	1
S2	4.0000	4.2707	.271	6.77	.02980	.003	1
S3	12.500	12.588	.088	.705	.08867	.000	1
S4	25.000	23.795	-1.20	-4.82	.16798	.001	1
S5	50.000	50.942	.942	1.88	.36011	.002	1
S1	2.0000	1.9039	-.096	-4.81	.01305	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



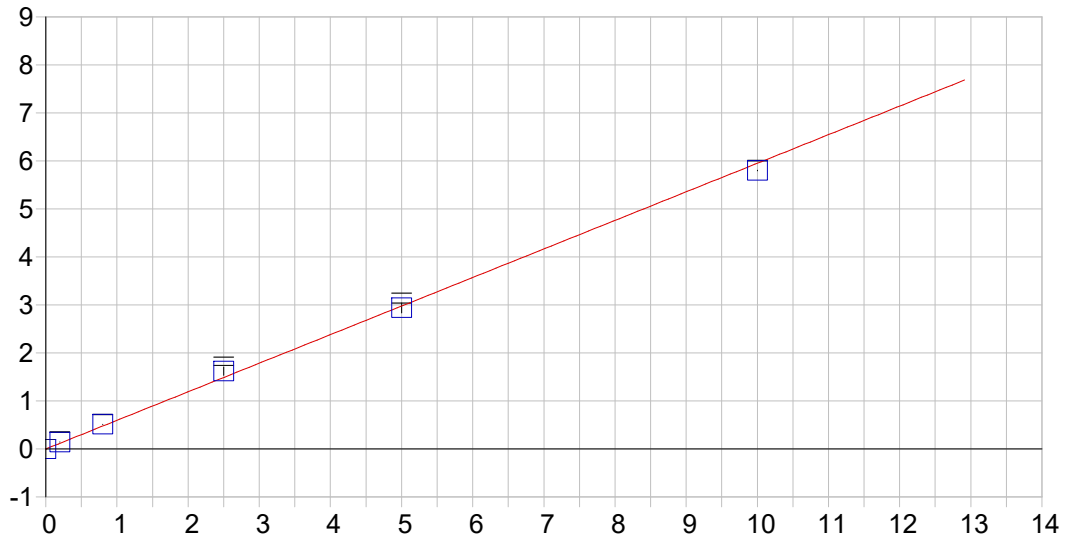
B 249.678 {135}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003085	Re-Slope:	1.000000
A1 (Gain):	0.463145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998927	Status:	OK.
Std Error of Est:	0.001125		
Predicted MDL:	0.000550		
Predicted MQL:	0.001835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00308	.000	1
S1	.10000	.09876	-.001	-1.24	.04856	.000	1
S3	2.5000	2.6900	.190	7.60	1.2466	.008	1
S4	5.0000	4.6902	-.310	-6.20	2.1706	.017	1
S5	10.000	10.055	.055	.550	4.6504	.016	1
S2	.80000	.86601	.066	8.25	.40341	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



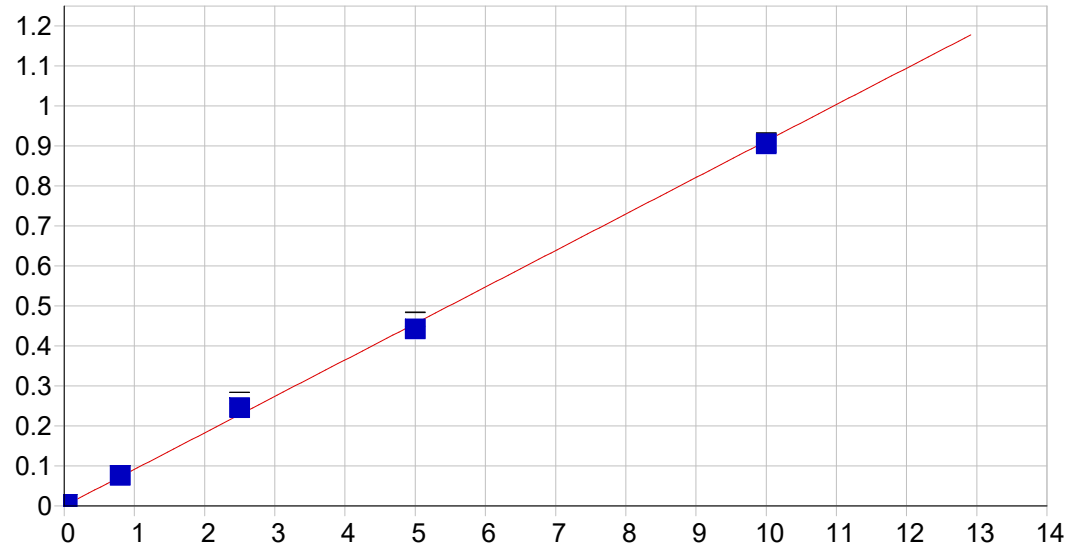
Mo 202.030 {467}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000095	Re-Slope:	1.000000
A1 (Gain):	0.595105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998971	Status:	OK.
Std Error of Est:	0.002011		
Predicted MDL:	0.000236		
Predicted MQL:	0.000788		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	.00006	.000	1
S1	.20000	.23771	.038	18.9	.14156	.003	1
S3	2.5000	2.7219	.222	8.88	1.6199	.089	1
S4	5.0000	4.9346	-.065	-1.31	2.9367	.105	1
S5	10.000	9.7485	-.252	-2.52	5.8015	.006	1
S2	.80000	.85728	.057	7.16	.51027	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



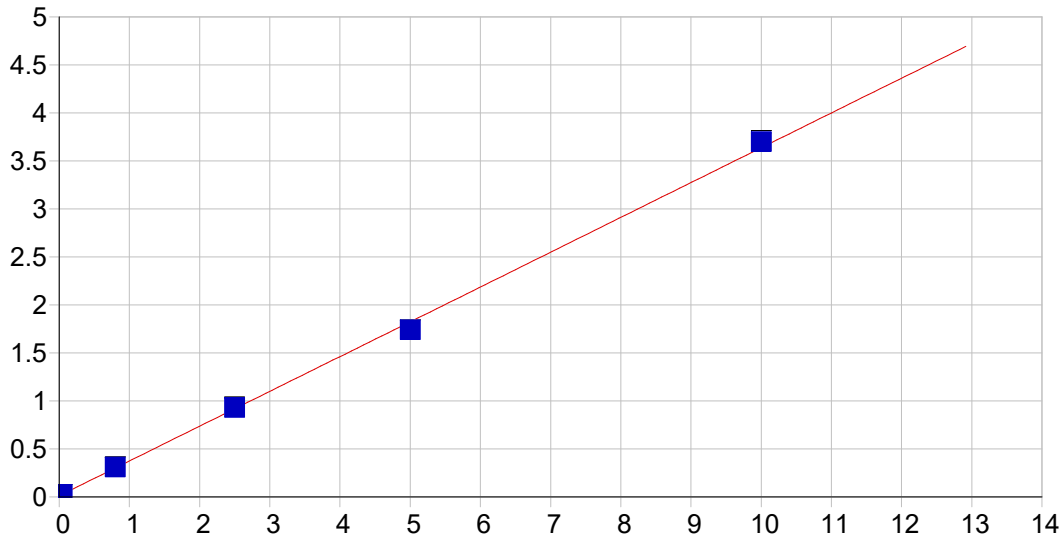
Sn 189.989 {478}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.091219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999439	Status:	OK.
Std Error of Est:	0.000101		
Predicted MDL:	0.000817		
Predicted MQL:	0.002723		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00011	.000	1
S1	.04000	.03998	-.000	-.054	.00374	.000	1
S3	2.5000	2.6901	.190	7.61	.24489	.014	1
S4	5.0000	4.8485	-.152	-3.03	.44116	.018	1
S5	10.000	9.9334	-.067	-.666	.90377	.002	1
S2	.80000	.82799	.028	3.50	.07544	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



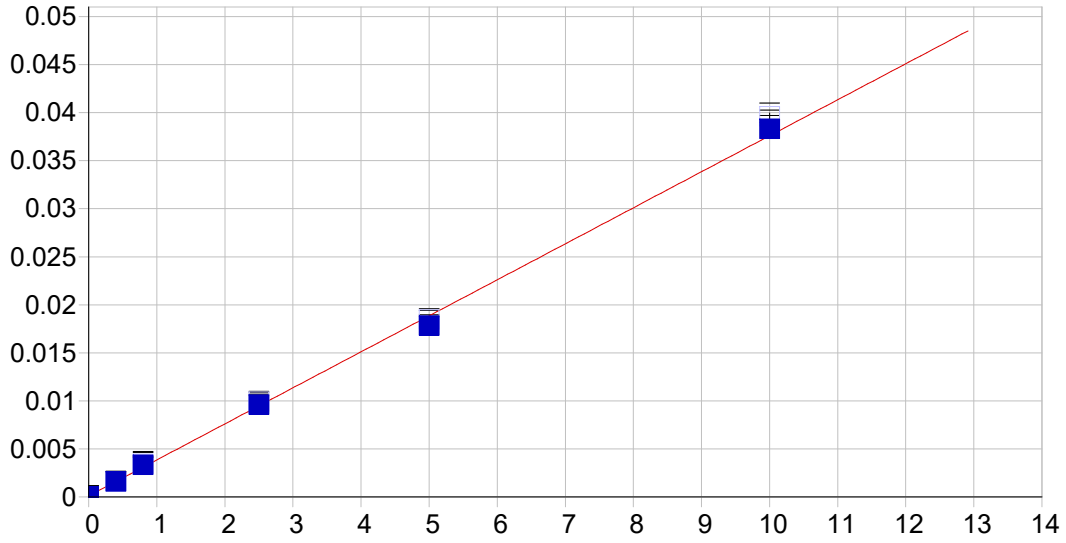
Ti 336.121 {100}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011504	Re-Slope:	1.000000
A1 (Gain):	0.362498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999581	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.000755		
Predicted MQL:	0.002517		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01150	.000	1
S1	.04000	.04043	.000	1.09	.02616	.000	1
S3	2.5000	2.5352	.035	1.41	.93087	.006	1
S4	5.0000	4.7648	-.235	-4.70	1.7394	.004	1
S5	10.000	10.174	.174	1.74	3.7009	.014	1
S2	.80000	.82567	.026	3.21	.31092	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



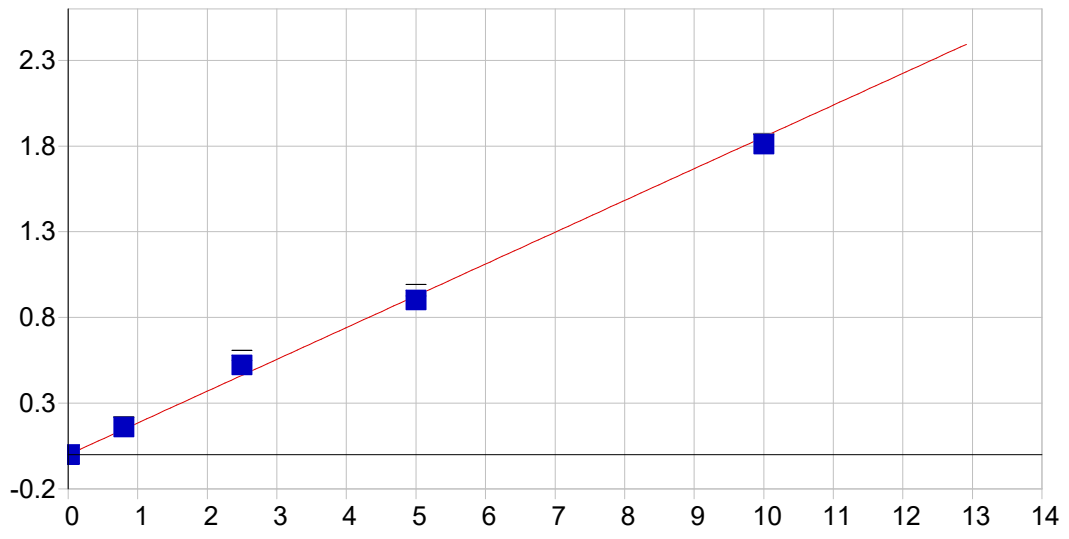
Si 288.158 {117}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.003749	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999407	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.009870		
Predicted MQL:	0.032900		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00010	.000	1
S1	.40000	.39596	-.004	-1.01	.00159	.000	1
S3	2.5000	2.5269	.027	1.07	.00990	.000	1
S4	5.0000	4.7257	-.274	-5.49	.01847	.000	1
S5	10.000	10.190	.190	1.90	.03961	.000	1
S2	.80000	.86152	.062	7.69	.00344	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



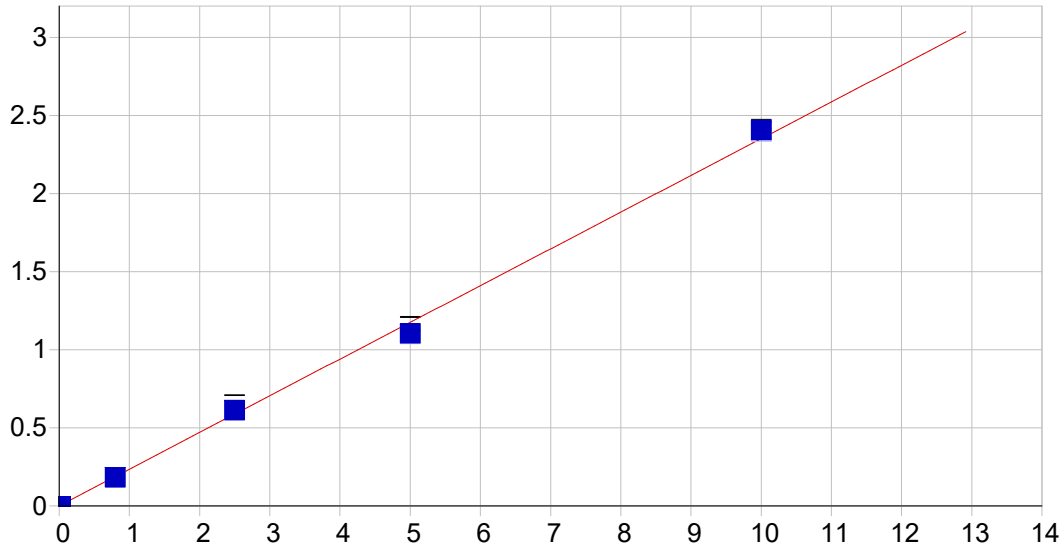
P 177.495 {490}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000618	Re-Slope:	1.000000
A1 (Gain):	0.185396	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998055	Status:	OK.
Std Error of Est:	0.000272		
Predicted MDL:	0.000332		
Predicted MQL:	0.001106		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00062	.000	1
S1	.02000	.00191	-.018	-90.4	-.00025	.000	1
S3	2.5000	2.8173	.317	12.7	.52201	.029	1
S4	5.0000	4.8612	-.139	-2.78	.90123	.033	1
S5	10.000	9.7713	-.229	-2.29	1.8122	.003	1
S2	.80000	.86833	.068	8.54	.16046	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



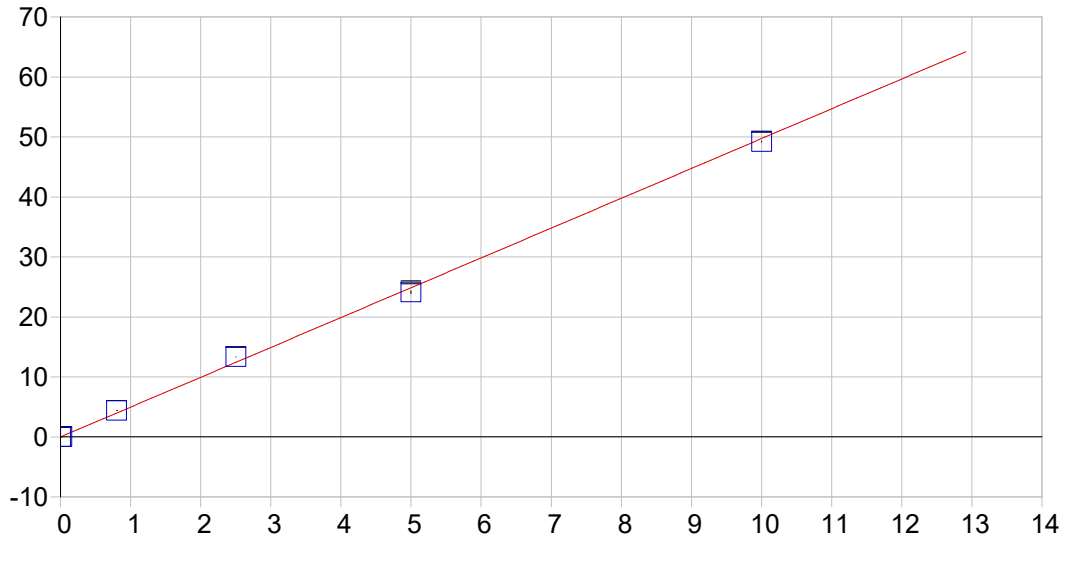
S 182.034 {485}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.235047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998834	Status:	OK.
Std Error of Est:	0.000265		
Predicted MDL:	0.000297		
Predicted MQL:	0.000990		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00009	.000	1
S1	.02000	.00324	-.017	-83.8	.00054	.000	1
S3	2.5000	2.6070	.107	4.28	.61018	.034	1
S4	5.0000	4.7018	-.298	-5.96	1.0999	.044	1
S5	10.000	10.230	.230	2.30	2.3940	.006	1
S2	.80000	.77663	-.023	-2.92	.18177	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



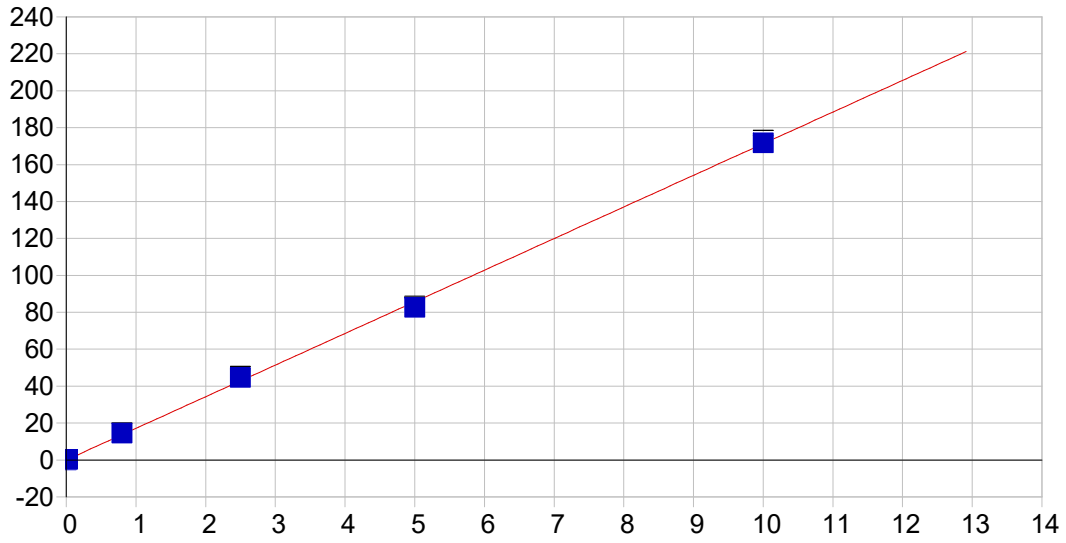
Li 670.784 { 50}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000024	Re-Slope:	1.000000
A1 (Gain):	4.971499	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998825	Status:	OK.
Std Error of Est:	0.005652		
Predicted MDL:	0.000180		
Predicted MQL:	0.000598		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00005	.001	1
S5	10.000	9.9015	-.099	-.985	49.225	.090	1
S4	5.0000	4.8497	-.150	-3.01	24.110	.257	1
S3	2.5000	2.6833	.183	7.33	13.340	.024	1
S1	.02000	.00237	-.018	-88.1	.01178	.000	1
S2	.80000	.88322	.083	10.4	4.3909	.017	1

Reviewed By:
On:
Inst Id :P4
LB :LB130043



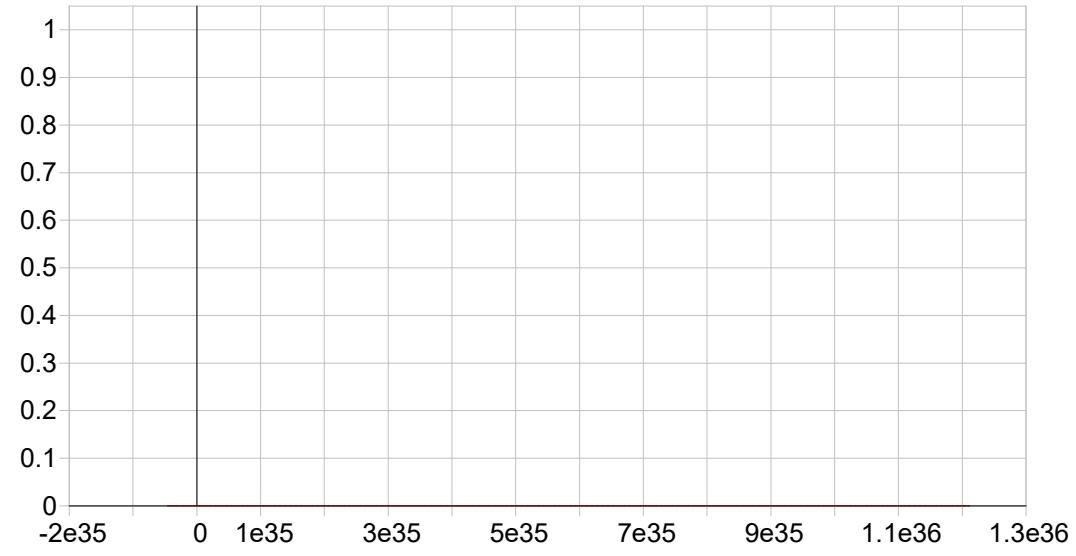
Sr 407.771 { 83}

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003112	Re-Slope:	1.000000
A1 (Gain):	17.133161	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999632	Status:	OK.
Std Error of Est:	0.010903		
Predicted MDL:	0.000034		
Predicted MQL:	0.000112		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00315	.000	1
S1	.02000	.02096	.001	4.80	.35770	.004	1
S3	2.5000	2.6037	.104	4.15	44.649	.714	1
S4	5.0000	4.8235	-.176	-3.53	82.725	.656	1
S5	10.000	10.024	.024	.238	171.91	1.39	1
S2	.80000	.84803	.048	6.00	14.540	.065	1

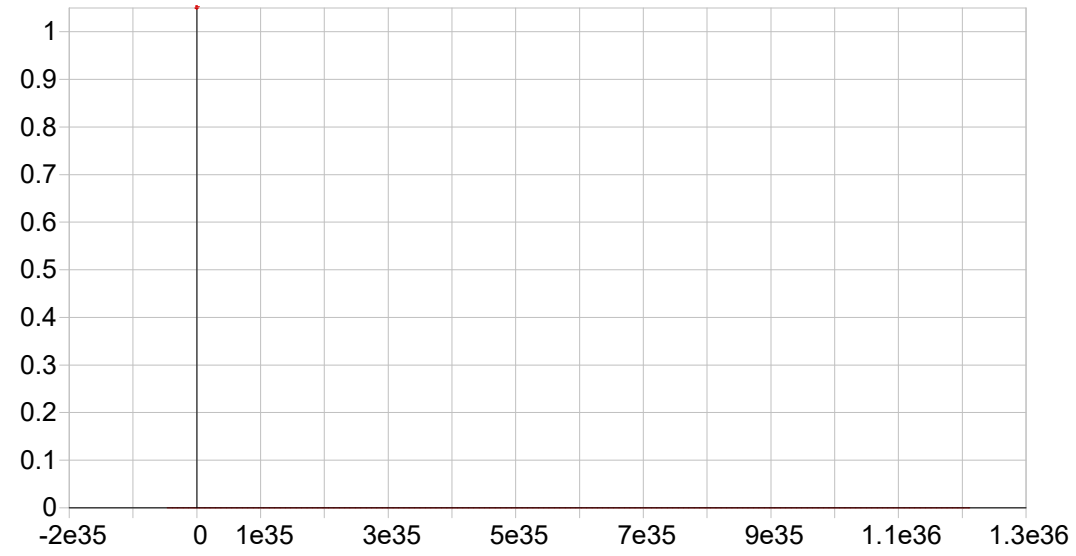
Reviewed By:
On:
Inst Id :P4
LB :LB130043



Ce 404.076 { 83}

Date of Fit:	3/26/2024 19:41:55	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:	0.002788				
Predicted MDL:	0.053515				
Predicted MQL:	0.178384				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



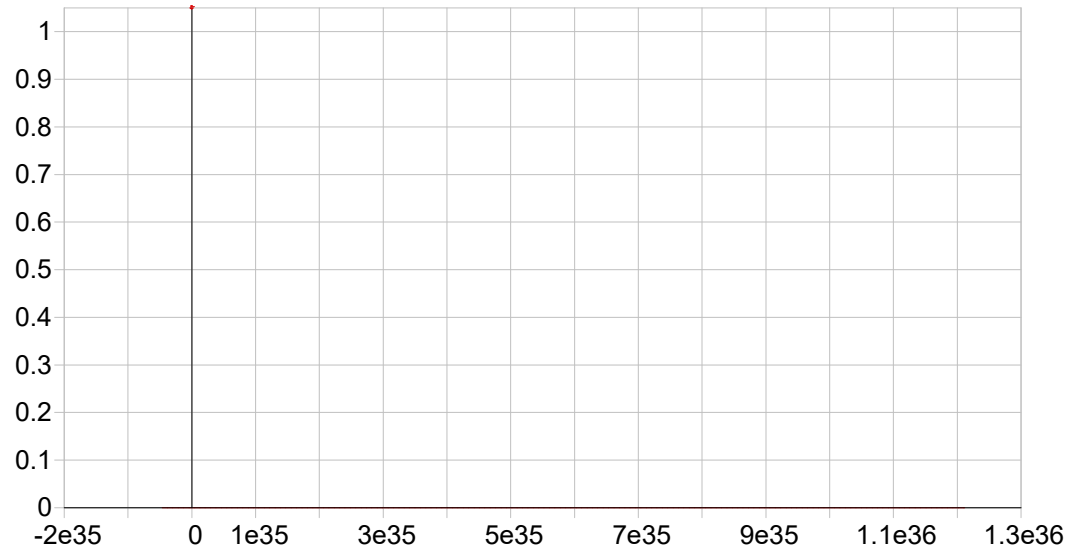
Y 224.306 {450}*

Date of Fit:	3/26/2024 19:41:55	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:
On:
Inst Id :P4
LB :LB130043

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

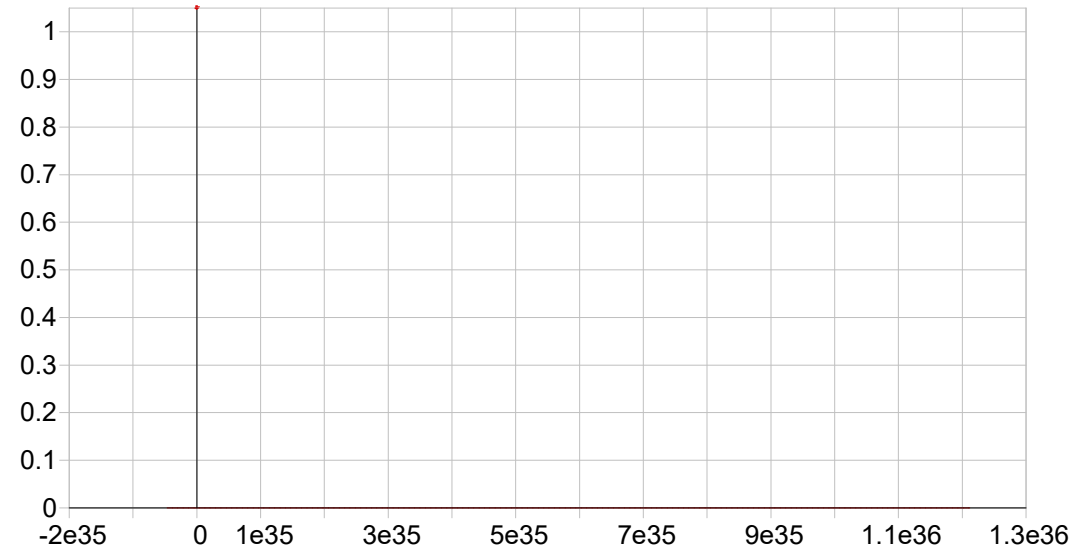


Y 360.073 { 94}*

Date of Fit:	<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

Reviewed By:
On:
Inst Id :P4
LB :LB130043

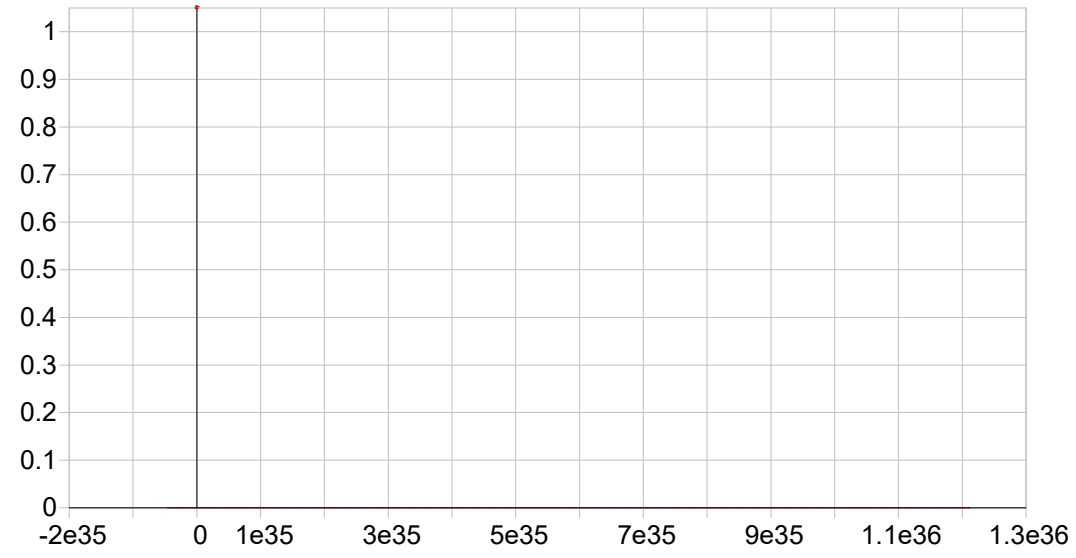


Y 371.030 { 91}*

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



Y 224.306 {150}*

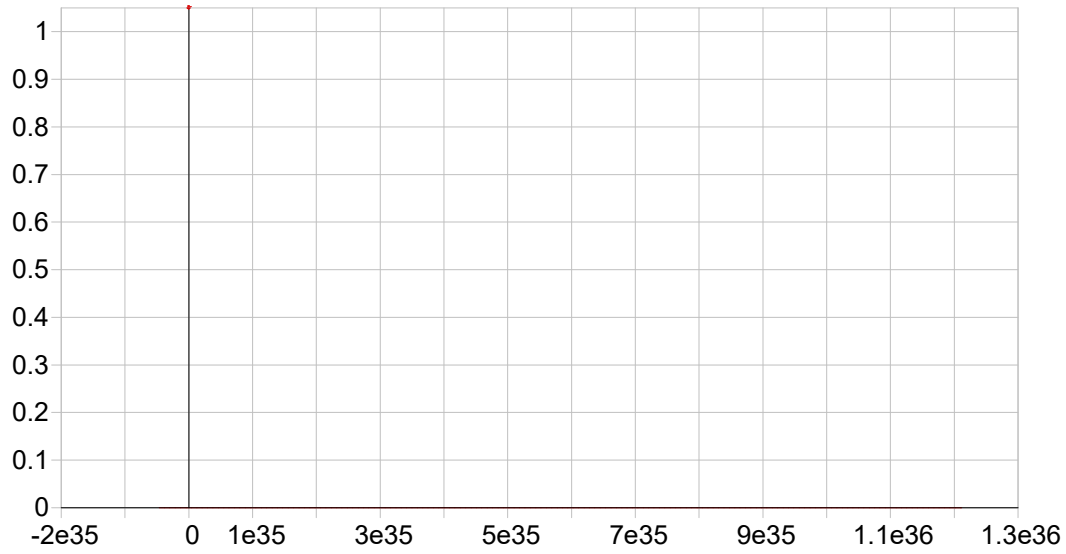
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:
On:
Inst Id :P4
LB :LB130043

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



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

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S0 Acquired: 3/26/2024 10:29:19 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00001	.00000	-.00000	-.00001	-.00001	-.00001	-.00000
Stddev	.00129	.00060	.00088	.00131	.00120	.00310	.00025	.00002
%RSD	56670.	7170.6	12e6	56034.	21373.	38588.	2636.0	5679.2
#1	.00143	.00066	.00085	.00116	.00132	-.00347	-.00026	.00001
#2	-.00108	-.00018	.00007	-.00143	-.00030	.00250	.00000	-.00002
#3	-.00036	-.00051	-.00091	.00026	-.00103	.00096	.00023	.00001

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00022	-.00000	-.00000	-.00001	-.00001	-.00000	-.00034
Stddev	.00002	.00151	.00004	.00005	.00023	.00326	.00024	.01330
%RSD	4533.1	691.48	1609.0	3318.4	3288.1	25932.	8093.8	3903.2
#1	.00001	-.00088	-.00001	-.00003	-.00028	.00292	.00022	.01114
#2	-.00002	-.00129	-.00004	.00006	.00012	.00057	-.00025	.00276
#3	.00001	.00151	.00004	-.00004	.00013	-.00353	.00003	-.01491

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00000	-.00004	-.00000	-.00001	.00001	-.00001	-.00006
Stddev	.00010	.00016	.01077	.00070	.00017	.02005	.00025	.00013
%RSD	4941.4	11269.	26507.	27691.	1306.8	372210.	2771.0	209.20
#1	-.00005	-.00018	.00513	-.00065	-.00018	-.00851	.00027	-.00002
#2	.00012	.00003	.00717	.00074	-.00002	-.01438	-.00022	.00004
#3	-.00007	.00014	-.01243	-.00010	.00016	.02291	-.00008	-.00021

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00000	-.00002	.00001	.00002	.00001	-.00000
Stddev	.00040	.00034	.00856	.00042	.00014	.00013	.00002
%RSD	13524.	31132.	51783.	2811.4	822.02	892.77	866.62
#1	.00034	-.00039	-.00593	-.00011	-.00007	-.00012	-.00001
#2	.00010	.00016	-.00392	.00048	-.00006	.00002	-.00002
#3	-.00044	.00023	.00980	-.00033	.00018	.00015	.00002

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S0 Acquired: 3/26/2024 10:29:19 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4066.6	90823.	13658.	3389.0	5786.3
Stddev	1.3	96.	120.	16.8	3.6
%RSD	.03287	.10600	.88009	.49691	.06212
#1	4065.3	90745.	13794.	3379.2	5784.4
#2	4066.8	90931.	13613.	3379.3	5784.0
#3	4067.9	90794.	13567.	3408.4	5790.4

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S1 Acquired: 3/26/2024 10:33:46 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02099	.04279	.01096	.02084	.05169	.10370	.10322	.00588	.00614
Stddev	.00106	.00082	.00025	.00072	.00235	.00388	.00138	.00008	.00013
%RSD	5.0443	1.9110	2.3040	3.4549	4.5550	3.7383	1.3359	1.3068	2.0919
#1	.02207	.04198	.01124	.02167	.04907	.10620	.10481	.00597	.00605
#2	.02094	.04361	.01075	.02054	.05241	.09923	.10245	.00585	.00608
#3	.01995	.04278	.01089	.02033	.05361	.10566	.10240	.00582	.00629

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0993	.01062	.02979	.02382	.10147	.02145	2.2326	.03926	.01027
Stddev	.0123	.00031	.00057	.00099	.00336	.00021	.0110	.00069	.00010
%RSD	.58564	2.9416	1.9129	4.1738	3.3094	.98179	.49187	1.7648	1.0187
#1	2.1129	.01029	.02946	.02340	.10450	.02149	2.2416	.03867	.01037
#2	2.0889	.01091	.02946	.02311	.10205	.02164	2.2204	.03909	.01016
#3	2.0960	.01065	.03044	.02496	.09786	.02123	2.2358	.04003	.01029

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9203	.04035	.04362	1.9039	.09883	.23771	.03998	.04043	.39593
Stddev	.0138	.00044	.00007	.0155	.00066	.00561	.00064	.00106	.00886
%RSD	.71693	1.0847	.16300	.81243	.66770	2.3590	1.6089	2.6244	2.2368
#1	1.9067	.04057	.04358	1.8861	.09957	.23491	.03944	.04166	.38573
#2	1.9199	.04065	.04358	1.9145	.09832	.23405	.03981	.03986	.40044
#3	1.9342	.03985	.04370	1.9109	.09858	.24416	.04069	.03978	.40163

Elem	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.00191	.00350	.00237	.02096
Stddev	.00008	.00026	.00003	.00023
%RSD	4.2452	7.3266	1.0689	1.0948
#1	.00200	.00370	.00236	.02121
#2	.00184	.00321	.00236	.02075
#3	.00190	.00359	.00240	.02092

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S1 Acquired: 3/26/2024 10:33:46 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4022.2	89832.	13860.	3333.9	5633.0
Stddev	77.7	335.	183.	6.1	100.9
%RSD	1.9318	.37259	1.3187	.18152	1.7909
#1	4054.9	89448.	13655.	3327.4	5679.1
#2	4078.2	89987.	14006.	3334.7	5702.6
#3	3933.5	90062.	13920.	3339.5	5517.3

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S2 Acquired: 3/26/2024 10:38:11 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.82583	.86388	.83573	.83216	.83128	1.6843	1.6947	.04227	.40817
Stddev	.00194	.03050	.00265	.00486	.00223	.0096	.0054	.00025	.00010
%RSD	.23483	3.5302	.31671	.58442	.26837	.56886	.32022	.59645	.02545
#1	.82431	.83081	.83876	.82733	.82876	1.6777	1.6889	.04240	.40808
#2	.82802	.86993	.83390	.83210	.83300	1.6953	1.6997	.04242	.40815
#3	.82517	.89090	.83453	.83706	.83208	1.6799	1.6956	.04198	.40829

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.2137	.18868	.41041	.21931	.89290	.42500	4.2291	.41340	.22430
Stddev	.0196	.01641	.00050	.00065	.06639	.00400	.0360	.00009	.01858
%RSD	.46571	8.6957	.12129	.29519	7.4357	.94147	.85075	.02140	8.2846
#1	4.1914	.20724	.41013	.21859	.96852	.42049	4.2018	.41338	.24539
#2	4.2215	.18267	.41012	.21985	.86603	.42638	4.2157	.41332	.21718
#3	4.2282	.17612	.41098	.21948	.84415	.42813	4.2699	.41349	.21032

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.3445	.41887	.47906	4.2707	.86638	.85728	.82804	.82565	.86078
Stddev	.3360	.00396	.04055	.3558	.00653	.00455	.00367	.00481	.07341
%RSD	7.7342	.94497	8.4637	8.3318	.75333	.53075	.44365	.58273	8.5282
#1	4.7306	.41438	.52491	4.6716	.87131	.85252	.82384	.82024	.94469
#2	4.1841	.42183	.46433	4.1481	.86886	.85774	.82961	.82945	.82922
#3	4.1186	.42041	.44793	3.9924	.85898	.86158	.83067	.82726	.80843

Elem	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	.86831	.77690	.88322	.84794
Stddev	.00710	.00170	.00345	.00387
%RSD	.81787	.21938	.39092	.45690
#1	.87600	.77504	.87938	.84358
#2	.86693	.77724	.88606	.85099
#3	.86200	.77840	.88421	.84924

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S2 Acquired: 3/26/2024 10:38:11 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3919.7	80297.	13504.	3035.7	5223.7
Stddev	7.4	6207.	24.	233.7	15.3
%RSD	.18888	7.7295	.17629	7.6967	.29371
#1	3912.1	73248.	13531.	2770.7	5206.6
#2	3920.0	82699.	13488.	3124.4	5228.3
#3	3926.9	84943.	13492.	3212.0	5236.2

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S3 Acquired: 3/26/2024 10:42:21 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6787**	**2.7434**	**2.7128**	**2.7134**	**2.6928**	**5.1656**	**5.2059**	**.13241**	**1.3356**
Stddev	.1509	.1565	.1559	.1460	.1500	.0364	.0318	.00087	.0742
%RSD	5.6340	5.7061	5.7454	5.3814	5.5684	.70421	.61044	.65634	5.5527
#1	2.5911	2.6641	2.6209	2.6315	2.6140	5.1236	5.1723	.13154	1.2924
#2	2.5921	2.6424	2.6247	2.6268	2.5987	5.1886	5.2098	.13240	1.2932
#3	2.8530	2.9237	2.8927	2.8820	2.8657	5.1844	5.2355	.13328	1.4212

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.047**	**.53315**	**1.3365**	**.69204**	**2.5820**	**1.3077**	**12.965**	**1.3443**	**.64795**
Stddev	.198	.00154	.0760	.03759	.0149	.0119	.165	.0760	.00098
%RSD	1.5159	.28861	5.6841	5.4323	.57650	.90692	1.2688	5.6503	.15147
#1	12.822	.53483	1.2931	.67067	2.5671	1.2942	12.781	1.3009	.64892
#2	13.127	.53282	1.2922	.67000	2.5820	1.3125	13.018	1.3001	.64797
#3	13.193	.53181	1.4242	.73545	2.5969	1.3164	13.097	1.4320	.64696

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.595**	**1.2967**	**1.3434**	**12.588**	**2.6900**	**2.7219**	**2.6902**	**2.5352**	**2.5212**
Stddev	.048	.0099	.0024	.026	.0182	.1501	.1539	.0153	.0150
%RSD	.37790	.76612	.17902	.20653	.67609	5.5146	5.7203	.60450	.59529
#1	12.607	1.2853	1.3432	12.572	2.6694	2.6362	2.5980	2.5177	2.5046
#2	12.636	1.3012	1.3459	12.618	2.6971	2.6343	2.6048	2.5464	2.5252
#3	12.543	1.3035	1.3411	12.575	2.7036	2.8952	2.8678	2.5415	2.5338

Elem	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	**2.8172**	**2.6083**	**2.6833**	**2.6036**
Stddev	.1565	.1447	.0048	.0417
%RSD	5.5565	5.5464	.17906	1.6007
#1	2.7254	2.5267	2.6778	2.5558
#2	2.7282	2.5228	2.6855	2.6224
#3	2.9979	2.7753	2.6866	2.6325

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S3 Acquired: 3/26/2024 10:42:21 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3659.1	82441.	13124.	3099.6	4721.9
Stddev	171.0	257.	73.	7.5	225.9
%RSD	4.6734	.31116	.55889	.24323	4.7839
#1	3757.2	82164.	13206.	3100.0	4853.4
#2	3758.5	82490.	13099.	3091.8	4851.2
#3	3461.7	82670.	13066.	3106.9	4461.1

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S4 Acquired: 3/26/2024 10:46:44 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8178**	**4.9096**	**4.7950**	**4.7409**	**4.8494**	**9.5455**	**9.5374**	**.23945**	**2.4052**
Stddev	.1644	.2123	.1847	.1585	.1697	.0551	.0243	.00181	.0930
%RSD	3.4120	4.3248	3.8523	3.3432	3.4997	.57694	.25488	.75748	3.8674
#1	4.9718	5.0913	4.9700	4.8888	5.0087	9.4940	9.5587	.23890	2.4905
#2	4.8369	4.9613	4.8132	4.7605	4.8686	9.5389	9.5109	.23797	2.4192
#3	4.6447	4.6762	4.6019	4.5736	4.6709	9.6036	9.5426	.24147	2.3060

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.002**	**.97700**	**2.4125**	**1.2233**	**4.7976**	**2.4032**	**23.904**	**2.4135**	**1.1966**
Stddev	.110	.00100	.0951	.0422	.0114	.0079	.087	.0942	.0006
%RSD	.45968	.10238	3.9425	3.4491	.23774	.33023	.36418	3.9031	.05022
#1	23.890	.97631	2.5023	1.2620	4.8021	2.3959	23.848	2.5017	1.1963
#2	24.006	.97655	2.4225	1.2296	4.8060	2.4020	23.860	2.4247	1.1973
#3	24.110	.97815	2.3128	1.1783	4.7846	2.4116	24.004	2.3142	1.1963

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.682**	**2.4026**	**2.4482**	**23.795**	**4.6899**	**4.9346**	**4.8478**	**4.7649**	**4.7316**
Stddev	.105	.0126	.0045	.088	.0370	.1767	.1945	.0114	.0247
%RSD	.44515	.52372	.18270	.37068	.78978	3.5805	4.0126	.23914	.52256
#1	23.628	2.3892	2.4529	23.759	4.6693	5.1005	5.0232	4.7527	4.7181
#2	23.803	2.4045	2.4476	23.896	4.6677	4.9547	4.8817	4.7667	4.7601
#3	23.614	2.4142	2.4440	23.731	4.7326	4.7488	4.6386	4.7753	4.7165

Elem	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	**4.8613**	**4.7018**	**4.8497**	**4.8237**
Stddev	.1804	.1865	.0516	.0383
%RSD	3.7110	3.9656	1.0648	.79430
#1	5.0324	4.8760	4.8002	4.7797
#2	4.8785	4.7243	4.8456	4.8499
#3	4.6729	4.5051	4.9032	4.8415

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S4 Acquired: 3/26/2024 10:46:44 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.9	80962.	12987.	3016.7	4633.3
Stddev	107.2	66.	65.	7.5	151.3
%RSD	2.9510	.08167	.50143	.24999	3.2646
#1	3534.3	80918.	13024.	3010.4	4496.7
#2	3614.7	80929.	13025.	3014.6	4607.5
#3	3746.6	81038.	12912.	3025.0	4795.8

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S5 Acquired: 3/26/2024 10:51:12 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9767**	**9.7804**	**9.9575**	**10.013**	**9.9248**	**20.201**	**20.159**	**.50099**	**5.0009**
Stddev	.0090	.1603	.0090	.025	.0078	.046	.166	.00223	.0053
%RSD	.09058	1.6390	.09073	.24524	.07878	.22789	.82546	.44421	.10534
#1	9.9691	9.9617	9.9538	10.036	9.9338	20.247	20.298	.50234	5.0045
#2	9.9743	9.6572	9.9509	9.9868	9.9201	20.199	19.974	.50221	4.9948
#3	9.9867	9.7223	9.9678	10.015	9.9205	20.155	20.204	.49842	5.0033

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.138**	**1.9606**	**4.9908**	**2.4368**	**10.026**	**5.0127**	**50.169**	**4.9795**	**2.5059**
Stddev	.094	.0046	.0048	.0009	.048	.0157	.312	.0014	.0024
%RSD	.18658	.23352	.09609	.03718	.47955	.31347	.62170	.02862	.09459
#1	50.059	1.9611	4.9929	2.4375	9.9802	5.0120	50.196	4.9796	2.5032
#2	50.241	1.9557	4.9853	2.4370	10.022	5.0288	50.466	4.9779	2.5066
#3	50.113	1.9648	4.9941	2.4357	10.076	4.9974	49.844	4.9808	2.5078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.958**	**5.0315**	**4.8757**	**50.942**	**10.055**	**9.7485**	**9.9340**	**10.174**	**10.190**
Stddev	.201	.0240	.0124	.241	.035	.0104	.0204	.037	.100
%RSD	.39438	.47661	.25404	.47358	.34613	.10678	.20487	.36815	.98320
#1	50.879	5.0503	4.8618	50.814	10.065	9.7605	9.9443	10.208	10.085
#2	50.808	5.0397	4.8800	50.792	10.084	9.7422	9.9105	10.180	10.201
#3	51.186	5.0045	4.8854	51.220	10.016	9.7427	9.9471	10.134	10.285

Elem	P_1774	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm
Avg	**9.7714**	**10.229**	**9.9015**	**10.024**
Stddev	.0168	.024	.0182	.081
%RSD	.17216	.23222	.18341	.80930
#1	9.7773	10.252	9.8824	10.117
#2	9.7524	10.205	9.9035	9.9814
#3	9.7845	10.229	9.9185	9.9727

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: S5 Acquired: 3/26/2024 10:51:12 Type: Cal
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3545.5**	**77673.**	**12493.**	**2887.0**	**4331.3**
Stddev	5.2	85.	54.	2.8	5.2
%RSD	.14675	.10926	.43238	.09568	.11903
#1	3543.8	77614.	12452.	2887.5	4325.9
#2	3541.3	77770.	12473.	2889.5	4331.8
#3	3551.3	77634.	12554.	2884.0	4336.1

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICV01 Acquired: 3/26/2024 11:09:52 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.049730**	**1.066633**	**1.016078**	**1.029182**	**1.042684**	**2.544026**
Stddev	.002390	.003768	.003753	.001948	.004213	.039770
%RSD	.2277150	.3532841	.3693640	.1892680	.4040240	1.563257
#1	1.049922	1.064199	1.012945	1.027193	1.041635	2.571224
#2	1.047249	1.070974	1.015051	1.029269	1.039095	2.498383
#3	1.052018	1.064727	1.020237	1.031086	1.047322	2.562471

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5159188**	**.5103667**	**.4990744**	**10.33035**	**.5298840**	**.4974156**
Stddev	.0066331	.0209480	.0011041	.24217	.0025889	.0009037
%RSD	1.285695	4.104499	.2212317	2.344270	.4885738	.1816716
#1	.5178291	.5333725	.4980671	10.53615	.5327784	.4966080
#2	.5085401	.4923932	.4989012	10.06350	.5290843	.4972472
#3	.5213872	.5053346	.5002548	10.39141	.5277894	.4983917

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5226199**	**9.736424**	**.5286682**	**5.754982**	**.5029165**	**.2570955**
Stddev	.0006749	.194211	.0101561	.136984	.0012284	.0008834
%RSD	.1291444	1.994682	1.921074	2.380268	.2442561	.3436124
#1	.5221224	9.512888	.5376659	5.900066	.5021881	.2562104
#2	.5223492	9.832649	.5176557	5.627873	.5022267	.2570990
#3	.5233882	9.863735	.5306831	5.737008	.5043348	.2579772

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.012621**	**.5108222**	**1.044283**	**9.453418**	F **.0153836**	F **-.000027**
Stddev	.292952	.0091790	.000805	.284131	.0012954	.000160
%RSD	3.250464	1.796914	.0770520	3.005589	8.420632	582.1584
#1	8.674940	.5175888	1.043365	9.128336	.0139201	-.000176
#2	9.198774	.5003739	1.044866	9.577594	.0158478	.000141
#3	9.164149	.5145039	1.044618	9.654322	.0163831	-.000048

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICV01 Acquired: 3/26/2024 11:09:52 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.001877	F .0015137	F -.022629	F -.000615	F -.003984	F .0004150
Stddev	.000018	.0004759	.005014	.000012	.000180	.0001911
%RSD	.9481492	31.43806	22.15777	1.979533	4.519402	46.04895
#1	-.001857	.0011814	-.026909	-.000629	-.003933	.0002482
#2	-.001890	.0013009	-.023865	-.000606	-.004184	.0006235
#3	-.001885	.0020589	-.017112	-.000611	-.003835	.0003733

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	F -.008310	zF *****
Stddev	.000181	-----
%RSD	2.173083	-----
#1	-.008103	z 2143.371
#2	-.008434	z 2109.812
#3	-.008393	z 2109.545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3896.681	86289.62	13456.32	3158.613	5401.904
Stddev	4.649	150.99	554.13	13.018	6.229
%RSD	.1193025	.1749819	4.117985	.4121523	.1153155
#1	3891.620	86153.92	12844.45	3172.635	5397.787
#2	3900.761	86452.27	13924.35	3156.293	5409.071
#3	3897.663	86262.67	13600.16	3146.910	5398.855

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LLICV01 Acquired: 3/26/2024 11:14:05 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206016	.0420277	.0101335	.0195993	.0527481	.1039245
Stddev	.0026066	.0013933	.0001957	.0026377	.0010652	.0081184
%RSD	12.65251	3.315274	1.930922	13.45811	2.019493	7.811797
#1	.0200959	.0434801	.0099126	.0225901	.0539748	.0949727
#2	.0234241	.0419009	.0102850	.0176052	.0522132	.1059908
#3	.0182849	.0407021	.0102029	.0186026	.0520563	.1108101

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1053438	.0062851	.0061298	2.219568	.0105526	.0295326
Stddev	.0013436	.0000542	.0000615	.033173	.0002196	.0001395
%RSD	1.275464	.8621801	1.002835	1.494587	2.080672	.4724197
#1	.1048922	.0062313	.0061824	2.199835	.0107976	.0296530
#2	.1042841	.0062844	.0060622	2.201001	.0103737	.0295651
#3	.1068550	.0063397	.0061447	2.257867	.0104865	.0293797

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240563	.1014750	.0221947	2.113351	.0396932	.0104940
Stddev	.0001136	.0018795	.0002509	.036559	.0001870	.0000753
%RSD	.4721738	1.852165	1.130267	1.729900	.4710755	.7173970
#1	.0239981	.0994333	.0221865	2.101588	.0394986	.0104366
#2	.0239835	.1018586	.0219481	2.084122	.0398715	.0105792
#3	.0241871	.1031330	.0224496	2.154344	.0397096	.0104661

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.808966	.0421497	.0449384	1.941908	.1053396	.2357054
Stddev	.010974	.0007005	.0002132	.012485	.0009641	.0002866
%RSD	.6066397	1.661885	.4744998	.6429207	.9152101	.1215727
#1	1.821427	.0415618	.0450721	1.953957	.1054503	.2359901
#2	1.804733	.0419627	.0446924	1.942738	.1043250	.2354170
#3	1.800740	.0429247	.0450505	1.929028	.1062436	.2357091

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LLICV01 Acquired: 3/26/2024 11:14:05 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0384072	.0430546	.3870997	F .0017393	F .0031609	F .0026144
Stddev	.0005543	.0011465	.0135194	.0001909	.0000542	.0002512
%RSD	1.443111	2.662819	3.492476	10.97682	1.713261	9.606482
#1	.0383512	.0418403	.3783656	.0016587	.0030996	.0024830
#2	.0378831	.0432051	.4026721	.0019573	.0031809	.0024561
#3	.0389874	.0441184	.3802615	.0016020	.0032022	.0029040

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0219258	z *****
Stddev	.0002640	-----
%RSD	1.203977	-----
#1	.0217635	z 2091.858
#2	.0217835	z 2119.105
#3	.0222304	z 2105.233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3951.738	87519.82	13130.00	3220.376	5544.422
Stddev	5.330	213.04	167.62	16.911	2.098
%RSD	.1348663	.2434198	1.276632	.5251350	.0378464
#1	3956.885	87411.61	13257.81	3207.051	5543.245
#2	3946.243	87765.25	13191.98	3239.401	5543.176
#3	3952.086	87382.61	12940.21	3214.675	5546.844

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICB01 Acquired: 3/26/2024 11:18:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005233**	**-.000208**	**-.000932**	**-.000036**	**.0002895**	**.0023087**	**.0001891**
Stddev	.0010003	.000465	.000622	.000535	.0003769	.0018879	.0002054
%RSD	191.1516	223.6616	66.79618	1504.994	130.1915	81.77393	108.5994
#1	.0015298	-.000509	-.000499	-.000441	-.000127	.0002053	.0002206
#2	.0005110	.000328	-.000651	.000570	.000607	.0038564	-.000030
#3	-.000471	-.000442	-.001645	-.000236	.000389	.0028645	.000377

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000002**	**-.000005**	**.0091569**	**.0000262**	**.0000518**	**.0000991**	**.0026585**
Stddev	.000045	.000049	.0077024	.0002402	.0001605	.0002419	.0039230
%RSD	2594.336	950.6055	84.11660	916.6435	309.8795	244.0584	147.5648
#1	.000021	-.000043	.0157634	-.000068	-.000092	-.000160	.0065085
#2	.000027	.000050	.0006968	-.000153	.000022	.000319	-.001334
#3	-.000053	-.000023	.0110104	.000299	.000225	.000138	.002801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000088**	**-.018049**	**-.000011**	**.0003420**	**-.000693**	**-.002393**	**.0005095**
Stddev	.000194	.015846	.000114	.0001668	.002282	.001717	.0002037
%RSD	220.5040	87.79592	995.9088	48.78372	329.2575	71.74941	39.98169
#1	.000077	.000249	.000029	.0002713	-.002001	-.000414	.0006798
#2	-.000302	-.027143	-.000140	.0002221	-.002021	-.003279	.0005649
#3	-.000039	-.027252	.000077	.0005325	.001942	-.003484	.0002838

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125796**	**.0005638**	**-.000054**	**-.000342**	**.0022306**	**-.007659**	**-.000319**
Stddev	.0086336	.0005084	.000098	.000502	.0006178	.003527	.000274
%RSD	68.63188	90.17758	181.8287	146.7858	27.69554	46.04648	85.92189
#1	.0027935	.0008033	-.000080	.000187	.0029428	-.004504	-.000198
#2	.0158255	-.000020	.000055	-.000401	.0018384	-.007007	-.000126
#3	.0191198	.000908	-.000137	-.000812	.0019107	-.011467	-.000633

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICB01 Acquired: 3/26/2024 11:18:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	-.000225	.0001331	-.000043	z *****	
Stddev	.000149	.0001025	.000020	-----	
%RSD	66.36301	76.95182	46.68603	-----	
#1	-.000053	.0000916	-.000061	z 2071.067	
#2	-.000319	.0002498	-.000021	z 2071.713	
#3	-.000304	.0000580	-.000045	z 2057.119	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3970.395	87427.71	13139.77	3176.257	5680.565
Stddev	5.331	2404.07	35.01	93.153	6.286
%RSD	.1342736	2.749783	.2664806	2.932791	.1106620
#1	3976.314	84657.66	13147.09	3068.758	5682.446
#2	3968.902	88969.83	13170.55	3226.769	5685.696
#3	3965.970	88655.64	13101.67	3233.244	5673.553

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CRI01 Acquired: 3/26/2024 11:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0224716**	**.0426104**	**.0107482**	**.0201681**	**.0556407**	**.0991935**
Stddev	.0022130	.0021657	.0005665	.0015299	.0035856	.0055137
%RSD	9.847763	5.082461	5.270416	7.585601	6.444188	5.558528
#1	.0216358	.0415722	.0102748	.0191702	.0527632	.1051989
#2	.0249807	.0450997	.0105940	.0219294	.0596575	.0980217
#3	.0207982	.0411594	.0113758	.0194047	.0545014	.0943599

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1045668**	**.0059957**	**.0062070**	**2.176145**	**.0103564**	**.0303825**
Stddev	.0008936	.0000625	.0003622	.011046	.0001724	.0018910
%RSD	.8546254	1.042605	5.835785	.5076114	1.664526	6.224029
#1	.1037317	.0059381	.0060244	2.163406	.0103310	.0293053
#2	.1044593	.0060621	.0066241	2.181968	.0105401	.0325660
#3	.1055093	.0059870	.0059723	2.183062	.0101981	.0292761

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0248604**	**.1053097**	**.0217713**	**2.084390**	**.0408993**	**.0103340**
Stddev	.0016395	.0034897	.0002494	.027670	.0023025	.0001008
%RSD	6.594799	3.313732	1.145395	1.327509	5.629581	.9752469
#1	.0238422	.1060274	.0216352	2.057091	.0395956	.0103573
#2	.0267517	.1083848	.0220591	2.112417	.0435577	.0102237
#3	.0239874	.1015170	.0216197	2.083660	.0395444	.0104212

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.843878**	**.0402172**	**.0441901**	**1.981264**	**.0999238**	**.2478157**
Stddev	.022880	.0009778	.0002451	.014429	.0004402	.0152172
%RSD	1.240879	2.431300	.5546255	.7282538	.4405461	6.140519
#1	1.821217	.0392412	.0442813	1.964613	.0999503	.2391790
#2	1.843446	.0402135	.0439125	1.990082	.1003501	.2653862
#3	1.866972	.0411968	.0443765	1.989096	.0994709	.2388820

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CRI01 Acquired: 3/26/2024 11:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0382699	.0424723	.3895064	F .0016465	F .0033134	F .0023851
Stddev	.0025194	.0005013	.0056879	.0002131	.0004038	.0001485
%RSD	6.583290	1.180222	1.460279	12.94308	12.18551	6.227377
#1	.0361268	.0426702	.3845041	.0015986	.0030212	.0022220
#2	.0410452	.0428443	.3883218	.0018795	.0037742	.0024209
#3	.0376376	.0419023	.3956933	.0014614	.0031450	.0025125

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0219271	z *****
Stddev	.0002074	-----
%RSD	.9458459	-----
#1	.0217049	z 2058.833
#2	.0219611	z 2045.884
#3	.0221155	z 2060.371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3823.777	87877.56	13607.59	3191.894	5436.365
Stddev	189.358	188.92	64.64	8.205	268.368
%RSD	4.952114	.2149818	.4750008	.2570604	4.936525
#1	3931.742	88086.77	13669.38	3199.886	5590.818
#2	3605.131	87826.49	13540.44	3183.491	5126.481
#3	3934.458	87719.43	13612.96	3192.303	5591.795

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICSADLX20 Acquired: 3/26/2024 13:07:42 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001519**	**.0012939**	**-.000533**	**-.000856**	**-.000475**	**11.76754**
Stddev	.003113	.0009375	.000566	.002226	.000690	.10160
%RSD	204.9169	72.45343	106.2703	260.1859	145.2517	.8633709
#1	-.000309	.0015260	-.000665	-.001771	-.000317	11.65834
#2	.000807	.0020935	-.001021	.001682	.000122	11.78501
#3	-.005056	.0002622	.000088	-.002478	-.001230	11.85927

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002133**	**.0000840**	**.0002203**	**12.07179**	**.0018613**	**.0000751**
Stddev	.000200	.0000143	.0000563	.06878	.0001720	.0001266
%RSD	9.372501	17.03308	25.54387	.5697729	9.242554	168.4208
#1	-.001918	.0000775	.0002128	11.99501	.0018970	.0000812
#2	-.002168	.0000742	.0001681	12.09259	.0016742	.0001986
#3	-.002314	.0001004	.0002799	12.12778	.0020127	-.000054

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004764**	**4.573471**	**.0008261**	F **10.06786**	**.0005139**	**.0013309**
Stddev	.0001190	.004369	.0001092	.08321	.0001867	.0001464
%RSD	24.98868	.0955259	13.22058	.8265341	36.33941	11.00217
#1	.0004013	4.570734	.0009365	9.97906	.0006444	.0015000
#2	.0004143	4.571170	.0008236	10.08049	.0005973	.0012487
#3	.0006137	4.578510	.0007181	10.14405	.0003000	.0012440

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0103550**	**.0001305**	**.0009567**	**-.001982**	**.0002431**	**.0001990**
Stddev	.0090257	.0006763	.0001630	.020581	.0003993	.0001320
%RSD	87.16272	518.0864	17.03812	1038.497	164.2804	66.32194
#1	-.000004	.0003918	.0007691	-.020177	.0003825	.0002399
#2	.014545	-.000637	.0010370	.020355	.0005539	.0003056
#3	.016524	.000637	.0010640	-.006123	-.000207	.0000514

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICSADLX20 Acquired: 3/26/2024 13:07:42 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002315	.0031612	-.002964	-.000147	-.000612	.0001686
Stddev	.000948	.0002183	.007179	.000236	.000110	.0000450
%RSD	40.93077	6.904265	242.1657	160.1081	18.04046	26.68298
#1	-.001895	.0031111	-.011238	-.000089	-.000734	.0001167
#2	-.001650	.0029724	.001606	.000054	-.000519	.0001963
#3	-.003400	.0034002	.000740	-.000407	-.000584	.0001927

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0004344	z *****
Stddev	.0000598	-----
%RSD	13.77181	-----
#1	.0003807	z 2041.967
#2	.0004989	z 2035.055
#3	.0004236	z 2044.267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.579	85314.89	13225.09	3013.306	5091.368
Stddev	215.821	113.13	57.49	14.002	313.703
%RSD	5.970854	.1326042	.4347397	.4646592	6.161475
#1	3740.563	85252.98	13260.07	3013.412	5273.808
#2	3737.798	85246.22	13256.46	2999.252	5271.159
#3	3365.375	85445.46	13158.73	3027.254	4729.138

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICSABDLX20 Acquired: 3/26/2024 13:12:07 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032901	.0056000	.0021672	.0024680	.0308049	12.41204	.0231964
Stddev	.0013581	.0018570	.0006733	.0022541	.0013271	.03307	.0005992
%RSD	41.27743	33.15994	31.06722	91.33174	4.308012	.2664128	2.583295
#1	.0041515	.0042476	.0029189	.0039035	.0294599	12.39266	.0238647
#2	.0017246	.0077172	.0019631	-.000130	.0308414	12.39322	.0227070
#3	.0039941	.0048351	.0016195	.003631	.0321133	12.45022	.0230176

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0246795	.0480323	12.76516	.0257569	.0237117	.0261764	4.794501
Stddev	.0001332	.0018365	.10035	.0003331	.0007182	.0010295	.002810
%RSD	.5397172	3.823372	.7861594	1.293332	3.028921	3.932909	.0586146
#1	.0246278	.0470107	12.65919	.0260681	.0233395	.0257381	4.793519
#2	.0245799	.0469338	12.77755	.0254055	.0232560	.0254387	4.797671
#3	.0248308	.0501524	12.85875	.0257970	.0245396	.0273526	4.792314

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268117	10.61665	.0483475	.0115466	.0026653	.0242570	.0502219
Stddev	.0003225	.06636	.0019643	.0001278	.0035017	.0008836	.0000548
%RSD	1.202788	.6250844	4.062888	1.106941	131.3851	3.642582	.1090166
#1	.0264587	10.54879	.0471242	.0116933	.0002039	.0233273	.0501741
#2	.0268854	10.61975	.0473051	.0114869	.0066741	.0250858	.0502816
#3	.0270909	10.68141	.0506133	.0114596	.0011177	.0243578	.0502099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049291	.0001985	-.000002	-.001558	.0025729	-.000681	-.000260
Stddev	.0249817	.0003100	.000049	.000675	.0003957	.004171	.000223
%RSD	506.8188	156.2301	2025.898	43.30081	15.37875	612.1888	85.87682
#1	-.020323	-.000106	-.000044	-.001558	.0024493	.003376	-.000518
#2	.029631	.000514	.000051	-.002232	.0030157	-.000463	-.000149
#3	.005479	.000188	-.000015	-.000883	.0022538	-.004957	-.000114

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: ICSABDLX20 Acquired: 3/26/2024 13:12:07 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	-.000617	.0002453	.0004721	z *****
Stddev	.000039	.0000647	.0000309	-----
%RSD	6.387544	26.39265	6.546971	-----
#1	-.000662	.0003021	.0004398	z 2082.019
#2	-.000592	.0002590	.0004749	z 2069.064
#3	-.000597	.0001748	.0005014	z 2092.006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3704.934	84965.14	13157.34	3017.208	5229.378
Stddev	125.237	45.45	36.47	16.032	172.205
%RSD	3.380280	.0534979	.2771720	.5313562	3.293031
#1	3785.124	84939.42	13190.08	3011.057	5337.552
#2	3769.057	85017.62	13163.90	3005.161	5319.785
#3	3560.620	84938.37	13118.04	3035.404	5030.798

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV01 Acquired: 3/26/2024 13:26:24 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.886622**	**4.556533**	**4.649970**	**4.781104**	**4.963242**	**9.623141**
Stddev	.009529	.065230	.006696	.008958	.006331	.020002
%RSD	.1950022	1.431579	.1439983	.1873626	.1275593	.2078570
#1	4.894171	4.490329	4.655296	4.786472	4.967344	9.617015
#2	4.875915	4.558526	4.642453	4.770763	4.955950	9.606917
#3	4.889779	4.620744	4.652161	4.786078	4.966431	9.645490

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.667993**	**.2363988**	**2.347005**	**24.72982**	**.9980397**	**2.365477**
Stddev	.073934	.0056218	.003423	.09877	.1812808	.005079
%RSD	.7647262	2.378084	.1458622	.3994162	18.16369	.2147100
#1	9.588475	.2329196	2.350954	24.73551	.8915372	2.371297
#2	9.680851	.2333924	2.344893	24.62832	.8952281	2.363195
#3	9.734655	.2428846	2.345167	24.82562	1.207354	2.361939

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.235254**	**5.424186**	**2.467479**	F **19.53173**	**2.415261**	**1.333986**
Stddev	.002284	.841972	.006999	.14332	.003896	.232408
%RSD	.1848915	15.52256	.2836425	.7337708	.1613030	17.42207
#1	1.237600	4.933249	2.469163	19.48509	2.419680	1.195304
#2	1.233038	4.942912	2.459792	19.41754	2.413783	1.204358
#3	1.235125	6.396396	2.473482	19.69256	2.412321	1.602297

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.90893**	**2.426233**	**2.627911**	F **27.72679**	**4.580983**	**5.006174**
Stddev	3.78352	.012155	.483882	4.36205	.105362	.011070
%RSD	15.82470	.5009703	18.41317	15.73227	2.299990	.2211279
#1	21.67246	2.414118	2.336450	25.11867	4.519788	5.015423
#2	21.77699	2.426154	2.360810	25.29912	4.520517	4.993908
#3	28.27734	2.438427	3.186472	32.76257	4.702644	5.009191

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV01 Acquired: 3/26/2024 13:26:24 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.334504	4.728902	5.243735	4.790913	4.571360	4.871371
Stddev	.003867	.010051	.894751	.009680	.003831	.038574
%RSD	.0892037	.2125520	17.06323	.2020480	.0838000	.7918503
#1	4.338529	4.729062	4.703028	4.802078	4.573449	4.913787
#2	4.330818	4.718771	4.751655	4.785780	4.566939	4.861937
#3	4.334164	4.738872	6.276523	4.784879	4.573693	4.838389

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.103802	z *****
Stddev	.032450	-----
%RSD	.6358008	-----
#1	5.073197	z 21966.25
#2	5.137826	z 21976.04
#3	5.100382	z 22765.15

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3440.290	72240.84	12775.76	2557.417	4492.371
Stddev	5.328	10240.98	19.98	363.442	5.882
%RSD	.1548704	14.17616	.1563587	14.21130	.1309299
#1	3434.610	78313.78	12753.38	2778.414	4485.731
#2	3445.178	77991.69	12782.15	2755.885	4494.456
#3	3441.082	60417.03	12791.77	2137.952	4496.927

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB01 Acquired: 3/26/2024 13:30:52 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000357**	**.0013512**	**-.000686**	**.0013360**	**.0008250**	**.0043243**	**-.001611**
Stddev	.001341	.0015137	.000093	.0039375	.0006977	.0050083	.000607
%RSD	376.1352	112.0280	13.53287	294.7238	84.57045	115.8191	37.67261
#1	-.001834	.0030316	-.000676	-.000917	.0000296	-.000764	-.002245
#2	-.000019	.0000946	-.000783	-.000958	.0011118	.009248	-.001035
#3	.000784	.0009273	-.000598	.005883	.0013338	.004489	-.001554

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000031**	**.0000446**	**.0022073**	**-.000042**	**.0000786**	**.0001390**	**.0037671**
Stddev	.000037	.0000554	.0019182	.000092	.0000916	.0003510	.0019503
%RSD	119.4504	124.4316	86.90243	219.5352	116.5572	252.5107	51.77236
#1	-.000067	.0000531	.0035623	.000064	-.000027	-.000261	.0057874
#2	.000007	-.000015	.0030470	-.000092	.000123	.000397	.0018953
#3	-.000033	.000095	.0000124	-.000098	.000139	.000281	.0036185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000785**	**.0041310**	**.0000244**	**.0005083**	**.0269065**	**-.001393**	**.0006224**
Stddev	.0002154	.0219919	.0003576	.0000833	.0065229	.000424	.0002284
%RSD	274.2782	532.3552	1463.886	16.39222	24.24267	30.41388	36.70220
#1	.0002328	.0272819	.0004143	.0004990	.0207680	-.001756	.0006104
#2	-.000168	-.016482	-.000053	.0004300	.0261961	-.001497	.0004002
#3	.000170	.001593	-.000288	.0005959	.0337555	-.000927	.0008565

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0339712**	**.0040014**	**.0004469**	**.0000169**	**.0025101**	**-.002066**	**-.000193**
Stddev	.0157330	.0005814	.0003269	.0006637	.0011739	.002034	.000390
%RSD	46.31287	14.53115	73.14572	3915.304	46.76685	98.46202	202.1576
#1	.0479272	.0046446	.0007045	.0004593	.0038535	-.004375	-.000099
#2	.0169209	.0035131	.0005571	.0003377	.0016820	-.001280	-.000622
#3	.0370655	.0038465	.0000792	-.000746	.0019948	-.000542	.000141

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB01 Acquired: 3/26/2024 13:30:52 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0002944	.0003043	.0002638	z *****	
Stddev	.0003664	.0000857	.0000349	-----	
%RSD	124.4438	28.16771	13.22543	-----	
#1	.0001621	.0003640	.0002798	z 1960.335	
#2	.0007085	.0003428	.0002878	z 1957.510	
#3	.0000126	.0002061	.0002238	z 1976.243	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3727.696	85050.41	12895.01	3011.169	5399.617
Stddev	6.962	247.12	75.00	9.255	7.147
%RSD	.1867565	.2905623	.5816127	.3073600	.1323662
#1	3723.169	85084.26	12808.77	3020.019	5395.921
#2	3735.712	84788.10	12931.22	3001.556	5407.855
#3	3724.206	85278.86	12945.02	3011.932	5395.074

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1797-01 Acquired: 3/26/2024 13:43:42 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009007	.0013811	.0115863	-.001456	.0017780	.6537922	.0607168
Stddev	.0009437	.0006740	.0005546	.000885	.0014278	.0045771	.0002193
%RSD	104.7794	48.80259	4.786440	60.75862	80.30098	.7000781	.3611458
#1	-.000173	.0006674	.0118216	-.000436	.0015623	.6561976	.0604669
#2	.001598	.0014689	.0109529	-.001914	.0004704	.6566649	.0608064
#3	.001277	.0020068	.0119845	-.002018	.0033014	.6485139	.0608771

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002166	.0003749	46.07037	.0017302	.0026056	.0129291	8.384143
Stddev	.0000458	.0000892	.18722	.0001205	.0000158	.0002956	.003785
%RSD	21.15332	23.79876	.4063822	6.964678	.6078338	2.285976	.0451496
#1	.0002483	.0004745	45.90440	.0017966	.0026239	.0132582	8.380159
#2	.0001641	.0003022	46.27332	.0015911	.0025963	.0128428	8.387692
#3	.0002374	.0003481	46.03338	.0018030	.0025967	.0126863	8.384579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2309274	2.891930	.0060608	.0012181	34.63693	.0024182	.3534695
Stddev	.0012346	.019075	.0002014	.0001947	.13026	.0012958	.0005687
%RSD	.5346061	.6596060	3.322653	15.98582	.3760765	53.58344	.1608806
#1	.2297349	2.872991	.0062139	.0013487	34.61778	.0039060	.3529545
#2	.2322001	2.911139	.0058327	.0013112	34.51730	.0018124	.3533742
#3	.2308471	2.891658	.0061357	.0009943	34.77570	.0015363	.3540798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.889293	.0361188	.0049981	-.003627	.0287686	4.745087	.0512133
Stddev	.016122	.0003878	.0001212	.000824	.0004702	.029541	.0008436
%RSD	.4145189	1.073644	2.425356	22.72662	1.634454	.6225650	1.647175
#1	3.882945	.0361102	.0051378	-.002870	.0289595	4.777013	.0521117
#2	3.877312	.0357353	.0049206	-.003506	.0282330	4.718720	.0504381
#3	3.907623	.0365108	.0049359	-.004505	.0291134	4.739527	.0510901

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1797-01 Acquired: 3/26/2024 13:43:42 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.6311859	.0018071	.1751436	z *****
Stddev	.0108943	.0000282	.0003892	-----
%RSD	1.726004	1.559888	.2222229	-----
#1	.6425206	.0018079	.1747154	z 2227.043
#2	.6207932	.0018349	.1754760	z 2251.413
#3	.6302437	.0017785	.1752393	z 2230.600

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3736.178	84663.49	13612.05	3043.354	5110.069
Stddev	49.864	281.48	55.90	14.900	67.102
%RSD	1.334633	.3324691	.4106929	.4895888	1.313131
#1	3690.333	84738.14	13674.76	3040.628	5045.010
#2	3789.269	84900.12	13567.44	3059.429	5179.042
#3	3728.932	84352.21	13593.93	3030.005	5106.154

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1797-02 Acquired: 3/26/2024 13:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001277**	**-.000198**	**.0099454**	**-.000453**	**.0018559**	**.5410727**	**.0616237**
Stddev	.001702	.000612	.0006415	.001153	.0008429	.0070109	.0001518
%RSD	133.2238	309.4706	6.450525	254.7119	45.41812	1.295738	.2463084
#1	.000688	-.000642	.0104427	.000760	.0019027	.5378715	.0617629
#2	-.002282	.000500	.0092213	-.000583	.0026744	.5362338	.0616464
#3	-.002238	-.000451	.0101723	-.001535	.0009905	.5491128	.0614619

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001631**	**.0003398**	**48.99397**	**.0030023**	**.0024891**	**.0120401**	**8.383531**
Stddev	.0000692	.0000511	.21951	.0001028	.0001165	.0001724	.008843
%RSD	42.46125	15.04238	.4480397	3.425491	4.680850	1.431924	.1054857
#1	.0000945	.0003494	48.75815	.0029085	.0025764	.0119856	8.373899
#2	.0001617	.0002846	49.03140	.0029861	.0023568	.0122332	8.385412
#3	.0002330	.0003855	49.19237	.0031123	.0025341	.0119015	8.391283

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2433057**	**2.893139**	**.0074359**	**.0012207**	**37.00070**	**.0009580**	**.3417413**
Stddev	.0013078	.010277	.0001890	.0000511	.02141	.0004684	.0002523
%RSD	.5375327	.3552052	2.541977	4.187354	.0578663	48.88922	.0738272
#1	.2417998	2.899483	.0074345	.0012306	37.01458	.0004201	.3414892
#2	.2439613	2.881283	.0072476	.0012661	36.97604	.0011787	.3419938
#3	.2441562	2.898652	.0076257	.0011653	37.01147	.0012753	.3417409

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.084708**	**.0376951**	**.0054410**	**-.003721**	**.0243324**	**4.783714**	**.0479260**
Stddev	.015908	.0003415	.0001284	.000599	.0013333	.070369	.0003564
%RSD	.3894634	.9058924	2.359972	16.08711	5.479601	1.471022	.7436752
#1	4.096267	.0380853	.0055374	-.004020	.0236418	4.741495	.0482785
#2	4.066564	.0375492	.0054903	-.004112	.0234859	4.744698	.0479336
#3	4.091293	.0374508	.0052952	-.003032	.0258693	4.864949	.0475658

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1797-02 Acquired: 3/26/2024 13:48:04 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.6995527	.0019412	.1869164	z *****
Stddev	.0051326	.0000453	.0008864	-----
%RSD	.7336975	2.333951	.4741978	-----
#1	.7052099	.0019920	.1859175	z 2209.240
#2	.6951940	.0019265	.1872231	z 2217.741
#3	.6982543	.0019050	.1876087	z 2234.218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3607.261	82678.40	13095.62	2961.675	4936.133
Stddev	31.514	180.64	67.87	2.827	40.226
%RSD	.8736337	.2184858	.5182409	.0954441	.8149393
#1	3570.877	82663.00	13155.16	2958.941	4889.827
#2	3624.936	82866.24	13109.97	2961.497	4962.445
#3	3625.971	82505.95	13021.72	2964.586	4956.127

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1845-01 Acquired: 3/26/2024 13:52:25 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0679922	-.016871	.2367523	-.025817	.0072714	116.0723	.5815763
Stddev	.0025153	.001878	.0033389	.002742	.0018872	.3426	.0024977
%RSD	3.699326	11.12889	1.410299	10.61943	25.95295	.2951989	.4294746
#1	.0708964	-.017408	.2394284	-.026920	.0090289	115.6779	.5787305
#2	.0665676	-.018422	.2330107	-.027836	.0052770	116.2424	.5825931
#3	.0665126	-.014784	.2378178	-.022696	.0075084	116.2965	.5834053

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093738	.0164291	873.2900	.2730263	.0623770	.1772394	199.0086
Stddev	.0000658	.0003864	3.8649	.0008978	.0006172	.0019292	.9044
%RSD	.7020301	2.352109	.4425656	.3288251	.9894206	1.088495	.4544314
#1	.0094342	.0168578	870.6147	.2739684	.0630895	.1793753	197.9899
#2	.0093836	.0163219	871.5342	.2729300	.0620333	.1767196	199.3191
#3	.0093036	.0161076	877.7211	.2721806	.0620082	.1756234	199.7168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.894237	48.35800	.1690192	.0185686	98.59735	.4399835	.4783361
Stddev	.003825	.20729	.0014811	.0001089	.96500	.0003938	.0015661
%RSD	.1321632	.4286596	.8762669	.5865649	.9787307	.0895092	.3274143
#1	2.896190	48.56501	.1707191	.0184477	97.55201	.4402480	.4774516
#2	2.896691	48.15043	.1680065	.0186592	98.78583	.4401716	.4774123
#3	2.889830	48.35855	.1683322	.0185988	99.45421	.4395309	.4801444

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	63.63247	.6005350	.0054191	.0060136	2.666831	1.778410	.7730539
Stddev	.48123	.0045741	.0000163	.0016755	.009630	.020130	.0095496
%RSD	.7562669	.7616678	.3010887	27.86126	.3611151	1.131891	1.235314
#1	63.07711	.5952690	.0054378	.0044582	2.655878	1.755389	.7840121
#2	63.89405	.6028154	.0054110	.0077876	2.670644	1.787140	.7686397
#3	63.92626	.6035206	.0054083	.0057949	2.673971	1.792701	.7665099

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1845-01 Acquired: 3/26/2024 13:52:25 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	**3.294547**	**.0430401**	**5.549197**	z *****
Stddev	.030953	.0002766	.018155	-----
%RSD	.9395069	.6426046	.3271628	-----
#1	3.330259	.0428110	5.570030	z 4775.878
#2	3.275444	.0433473	5.536756	z 4817.050
#3	3.277938	.0429619	5.540805	z 4781.606

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3386.830**	**77235.30**	**13735.22**	**2731.995**	**3849.932**
Stddev	25.108	101.13	72.93	12.654	27.048
%RSD	.7413402	.1309378	.5309763	.4631904	.7025520
#1	3358.076	77261.85	13651.71	2729.901	3818.724
#2	3397.995	77320.52	13767.56	2745.566	3864.483
#3	3404.419	77123.55	13786.38	2720.519	3866.590

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1832-01DLX10 Acquired: 3/26/2024 13:56:54 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195078	-.000810	.1285121	-.000735	.0032611	13.05815	.1724452
Stddev	.0029371	.000773	.0002769	.000470	.0008517	.02948	.0002024
%RSD	15.05575	95.32738	.2154945	63.92020	26.11736	.2257516	.1173853
#1	.0161906	-.001638	.1284007	-.001173	.0036493	13.05593	.1725699
#2	.0205555	-.000109	.1288275	-.000793	.0022844	13.08868	.1722117
#3	.0217773	-.000684	.1283083	-.000239	.0038495	13.02984	.1725541

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013796	.0017792	19.27802	.0250924	.0129002	.0695761	32.32072
Stddev	.0000511	.0000743	.03779	.0011048	.0003068	.0008222	.93648
%RSD	3.705097	4.177834	.1960146	4.403049	2.378292	1.181683	2.897467
#1	.0013529	.0017423	19.24187	.0263673	.0127786	.0687961	33.40207
#2	.0013474	.0018647	19.27493	.0244147	.0132492	.0694973	31.77739
#3	.0014386	.0017305	19.31726	.0244953	.0126729	.0704348	31.78270

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6510766	10.15658	.0324400	.0033055	2.098386	.0680010	.1765148
Stddev	.0019581	.04525	.0003314	.0000612	.073695	.0012327	.0069264
%RSD	.3007423	.4455016	1.021664	1.851768	3.511993	1.812795	3.923983
#1	.6488841	10.13833	.0320647	.0033546	2.183481	.0692063	.1842674
#2	.6516946	10.12331	.0326926	.0032369	2.055460	.0680541	.1743408
#3	.6526511	10.20811	.0325627	.0033249	2.056218	.0667426	.1709362

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.618336	.0496436	.0014391	.0040021	.4263227	1.345162	.0606270
Stddev	.043976	.0030935	.0001932	.0006449	.0026302	.040320	.0006530
%RSD	2.717348	6.231418	13.42191	16.11364	.6169506	2.997440	1.077151
#1	1.667899	.0530871	.0013822	.0033311	.4233242	1.391439	.0601783
#2	1.603123	.0470996	.0012808	.0040579	.4282400	1.326443	.0603265
#3	1.583987	.0487440	.0016543	.0046172	.4274039	1.317603	.0613762

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1832-01DLX10 Acquired: 3/26/2024 13:56:54 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1157512	.0028263	.0182234	z *****
Stddev	.0002465	.0000526	.0009272	-----
%RSD	.2129169	1.862599	5.087794	-----
#1	.1156680	.0027784	.0171546	z 2331.041
#2	.1160285	.0028177	.0187034	z 2321.176
#3	.1155571	.0028827	.0188121	z 2320.508

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3791.163	82115.13	13255.92	2894.890	5230.500
Stddev	9.657	2826.90	52.58	84.144	6.935
%RSD	.2547124	3.442601	.3966227	2.906640	.1325890
#1	3780.322	78862.03	13197.78	2799.613	5224.952
#2	3794.322	83508.61	13269.87	2926.035	5228.274
#3	3798.844	83974.76	13300.12	2959.020	5238.275

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1844-01 Acquired: 3/26/2024 14:01:13 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000729**	**.0003006**	**.0009074**	**.0019008**	**.0018690**	**.0280525**	**-.001827**
Stddev	.001155	.0008536	.0003825	.0004794	.0004409	.0061347	.000222
%RSD	158.4384	283.9968	42.15165	25.22014	23.58727	21.86846	12.13096
#1	-.002058	-.000547	.0011928	.0017441	.0023147	.0348539	-.001599
#2	-.000166	.000289	.0004728	.0015194	.0014331	.0263662	-.001841
#3	.000037	.001160	.0010565	.0024390	.0018592	.0229373	-.002042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000757**	**.0000584**	**.4761818**	**.0009039**	**.0003245**	**.0047268**	**.0440380**
Stddev	.0000438	.0000352	.0025140	.0002440	.0001126	.0001829	.0037200
%RSD	57.83611	60.34406	.5279589	26.99026	34.69574	3.869881	8.447301
#1	.0000802	.0000177	.4752068	.0009895	.0002686	.0048743	.0483070
#2	.0001170	.0000801	.4790373	.0006287	.0004541	.0045221	.0423158
#3	.0000298	.0000773	.4743014	.0010935	.0002508	.0047838	.0414911

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032540**	**.0785605**	**.0013861**	**.0009408**	**.2561047**	**-.001558**	**.0291483**
Stddev	.0000788	.0057796	.0002888	.0000875	.0001190	.000439	.0003225
%RSD	2.420975	7.356951	20.83595	9.297617	.0464719	28.16642	1.106426
#1	.0031785	.0734883	.0017192	.0009545	.2562017	-.001166	.0295128
#2	.0032479	.0773403	.0012063	.0008473	.2559719	-.002032	.0290319
#3	.0033357	.0848528	.0012328	.0010206	.2561404	-.001476	.0289001

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8059937**	**-.003078**	**.0000490**	**.0021107**	**.0035422**	**.0531678**	**.0013424**
Stddev	.0265994	.000421	.0001241	.0004525	.0002967	.0083546	.0002738
%RSD	3.300196	13.69249	253.2190	21.43643	8.375668	15.71366	20.39724
#1	.7803178	-.003423	-.000076	.0016626	.0036347	.0624083	.0016254
#2	.8042342	-.003203	.000052	.0025674	.0037817	.0461477	.0010788
#3	.8334291	-.002608	.000172	.0021020	.0032103	.0509474	.0013229

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1844-01 Acquired: 3/26/2024 14:01:13 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0459294	.0008791	.0013582	z *****
Stddev	.0002778	.0000711	.0000352	-----
%RSD	.6048954	8.082207	2.594894	-----
#1	.0461408	.0008044	.0013261	z 1869.616
#2	.0456147	.0008872	.0013525	z 1898.467
#3	.0460326	.0009458	.0013959	z 1880.895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.054	85693.23	13119.44	2965.883	5505.009
Stddev	1.273	232.85	21.94	12.279	3.673
%RSD	.0341408	.2717262	.1672043	.4139917	.0667228
#1	3731.502	85945.79	13111.94	2976.175	5501.056
#2	3729.108	85487.08	13144.14	2969.181	5508.316
#3	3729.553	85646.83	13102.24	2952.292	5505.655

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1844-03 Acquired: 3/26/2024 14:05:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015711	.0009813	.0083415	-.000434	.0015993	.4895037	.1284648
Stddev	.0010263	.0007368	.0005568	.002410	.0002265	.0044179	.0007218
%RSD	65.32595	75.08760	6.675273	554.6397	14.16237	.9025302	.5618667
#1	.0012383	.0018318	.0089261	.002348	.0015329	.4905264	.1276567
#2	.0007525	.0005375	.0078174	-.001872	.0014135	.4846641	.1286919
#3	.0027225	.0005745	.0082811	-.001779	.0018516	.4933205	.1290457

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001820	.0033427	7.196940	.6708375	.0124097	.5430789	5.793606
Stddev	.0000310	.0000840	.042025	.0050489	.0000306	.0007246	.023967
%RSD	17.01598	2.514168	.5839242	.7526208	.2469078	.1334245	.4136733
#1	.0001490	.0033318	7.148480	.6746732	.0123949	.5431581	5.802106
#2	.0002105	.0034317	7.218974	.6651174	.0123892	.5423180	5.766548
#3	.0001866	.0032647	7.223365	.6727218	.0124449	.5437606	5.812164

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0994917	.9893976	.4386869	.0029314	17.86302	.0024158	1.177549
Stddev	.0003228	.0060386	.0007891	.0000488	.08400	.0004071	.005124
%RSD	.3244732	.6103351	.1798821	1.665502	.4702538	16.85140	.4351568
#1	.0991277	.9824409	.4390910	.0029453	17.86482	.0019641	1.172710
#2	.0996045	.9924652	.4377776	.0028771	17.77814	.0027543	1.177020
#3	.0997431	.9932867	.4391921	.0029717	17.94611	.0025289	1.182917

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.995574	.0096971	.0748974	.0086114	.0375890	.3584018	.0089835
Stddev	.009667	.0003458	.0002473	.0005852	.0001291	.0110443	.0001883
%RSD	.4844451	3.565660	.3301488	6.796133	.3433849	3.081526	2.096502
#1	2.005919	.0100629	.0751803	.0091490	.0377045	.3623565	.0092006
#2	1.994033	.0093756	.0747224	.0079880	.0374497	.3459246	.0088851
#3	1.986770	.0096530	.0747894	.0086971	.0376130	.3669242	.0088647

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1844-03 Acquired: 3/26/2024 14:05:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.4116284	.0016777	.1096894	z *****	
Stddev	.0009512	.0000979	.0006260	-----	
%RSD	.2310951	5.838420	.5707216	-----	
#1	.4119205	.0015777	.1090116	z 1986.721	
#2	.4123993	.0017735	.1098106	z 1936.934	
#3	.4105653	.0016818	.1102459	z 1959.679	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3769.731	85299.04	13633.85	3031.139	5372.488
Stddev	11.010	343.51	93.13	27.586	8.429
%RSD	.2920514	.4027170	.6830959	.9100933	.1568833
#1	3781.191	85557.70	13741.39	3062.934	5380.139
#2	3768.769	85430.15	13580.98	3013.553	5373.872
#3	3759.235	84909.28	13579.19	3016.932	5363.453

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1843-01 Acquired: 3/26/2024 14:09:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000037**	**-.000530**	**.0011823**	**.0005513**	**.0027460**	**.0396598**	**-.002260**
Stddev	.002165	.000845	.0012332	.0009287	.0006584	.0017989	.000290
%RSD	5827.639	159.6361	104.3036	168.4489	23.97776	4.535880	12.84108
#1	.001769	-.001499	.0016523	.0003962	.0021075	.0376133	-.001937
#2	-.002437	-.000144	.0021114	.0015478	.0027079	.0403746	-.002499
#3	.000557	.000054	-.000217	-.000290	.0034227	.0409914	-.002343

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000542**	**.0000555**	**.5020884**	**.0012324**	**.0001357**	**.0016522**	**.0745251**
Stddev	.0000083	.0000322	.0071342	.0001259	.0000616	.0002780	.0018533
%RSD	15.25367	58.08552	1.420900	10.21736	45.41700	16.82346	2.486824
#1	.0000542	.0000917	.4939288	.0012129	.0001946	.0013483	.0766563
#2	.0000625	.0000448	.5051876	.0011174	.0001408	.0018937	.0732914
#3	.0000460	.0000300	.5071489	.0013670	.0000717	.0017144	.0736277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038798**	**.0449096**	**.0012464**	**.0005816**	**.2425821**	**-.002150**	**.0296512**
Stddev	.0001159	.0042702	.0000211	.0000248	.0088769	.000229	.0001859
%RSD	2.986748	9.508365	1.696724	4.268138	3.659330	10.63405	.6268893
#1	.0037729	.0400122	.0012220	.0005868	.2525983	-.002382	.0297961
#2	.0038637	.0468624	.0012588	.0006034	.2394596	-.002141	.0294416
#3	.0040029	.0478542	.0012585	.0005546	.2356883	-.001925	.0297158

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9229862**	**-.003810**	**.0001239**	**.0021115**	**.0042807**	**.0416939**	**.0011413**
Stddev	.0088586	.000191	.0001156	.0009368	.0008867	.0111872	.0001378
%RSD	.9597800	5.018999	93.32319	44.36820	20.71515	26.83182	12.07053
#1	.9325393	-.003919	.0000038	.0026978	.0032689	.0541180	.0012172
#2	.9150427	-.003589	.0001334	.0010310	.0049229	.0385456	.0009823
#3	.9213767	-.003922	.0002345	.0026056	.0046502	.0324182	.0012245

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1843-01 Acquired: 3/26/2024 14:09:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0926913	.0007030	.0009818	z *****
Stddev	.0009881	.0000944	.0000245	-----
%RSD	1.065959	13.43332	2.496767	-----
#1	.0915828	.0006755	.0009924	z 1832.534
#2	.0934793	.0006254	.0009538	z 1838.650
#3	.0930119	.0008081	.0009993	z 1866.134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3718.202	83409.75	13026.23	2884.598	5507.940
Stddev	16.433	247.18	86.37	19.325	28.570
%RSD	.4419618	.2963414	.6630116	.6699221	.5187113
#1	3728.929	83487.90	13098.48	2869.388	5529.796
#2	3699.284	83132.95	13049.63	2878.063	5475.611
#3	3726.394	83608.41	12930.57	2906.343	5518.414

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1820-01DL2X10 Acquired: 3/26/2024 14:14:27 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000419**	**-.000483**	**.0105368**	**.0006264**	**.0017460**	**1.160454**	**.0504132**
Stddev	.000303	.001142	.0017544	.0049738	.0002548	.004604	.0003008
%RSD	72.28168	236.5886	16.65040	794.0734	14.59360	.3967333	.5966337
#1	-.000619	.000202	.0116619	.0057968	.0017630	1.156118	.0500737
#2	-.000566	-.001800	.0114333	.0002064	.0019919	1.165286	.0505193
#3	-.000071	.000150	.0085153	-.004124	.0014831	1.159958	.0506465

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002111**	**.0003564**	**35.08761**	**.0008371**	**.0013683**	**.0101587**	**13.34036**
Stddev	.0000385	.0001081	.06276	.0002448	.0000760	.0001654	.04220
%RSD	18.22069	30.33456	.1788529	29.24493	5.552793	1.628392	.3163564
#1	.0002526	.0003852	35.05896	.0007977	.0012902	.0102338	13.29246
#2	.0001766	.0002368	35.15958	.0006144	.0014420	.0102734	13.37208
#3	.0002041	.0004472	35.04429	.0010993	.0013728	.0099691	13.35652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1209891**	**2.426043**	**.0044365**	**.0015572**	**188.5590**	**.0039797**	**.0218844**
Stddev	.0006168	.015729	.0000674	.0001807	1.2024	.0001367	.0001679
%RSD	.5097596	.6483406	1.519199	11.60214	.6377016	3.436019	.7671415
#1	.1208793	2.411825	.0044827	.0013568	187.3963	.0040837	.0219719
#2	.1216534	2.442939	.0044676	.0017075	189.7976	.0040306	.0216909
#3	.1204346	2.423366	.0043592	.0016075	188.4830	.0038248	.0219906

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.104010**	**.0260095**	**.0013109**	**-.003489**	**.0504321**	**2.768225**	**.0073506**
Stddev	.033280	.0002559	.0000944	.000405	.0006522	.031173	.0002756
%RSD	1.072164	.9839481	7.204261	11.59201	1.293166	1.126096	3.749832
#1	3.087610	.0259960	.0013968	-.003149	.0497676	2.737747	.0071873
#2	3.082113	.0262720	.0012098	-.003382	.0510712	2.766881	.0076688
#3	3.142307	.0257607	.0013261	-.003937	.0504576	2.800049	.0071957

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1820-01DL2X10 Acquired: 3/26/2024 14:14:27 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1675186	.0011779	.1658604	z *****
Stddev	.0006108	.0001698	.0005430	-----
%RSD	.3646091	14.41290	.3273566	-----
#1	.1681678	.0011879	.1654099	z 2143.436
#2	.1674328	.0013425	.1657080	z 2138.789
#3	.1669553	.0010034	.1664632	z 2138.590

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3470.213	77581.50	12854.68	2761.239	4605.960
Stddev	22.887	157.68	68.72	3.653	24.288
%RSD	.6595184	.2032383	.5346140	.1322844	.5273227
#1	3444.356	77474.33	12793.79	2758.291	4578.287
#2	3487.870	77507.61	12841.06	2760.100	4623.743
#3	3478.413	77762.55	12929.19	2765.325	4615.850

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1830-02DLX10 Acquired: 3/26/2024 14:19:00 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054294	-.002050	.0339841	-.002537	.0012176	12.40821	.0533732
Stddev	.0015629	.000248	.0006135	.001519	.0007636	.04757	.0002955
%RSD	28.78581	12.10834	1.805364	59.89439	62.71193	.3833933	.5537158
#1	.0072151	-.002303	.0335624	-.001520	.0020928	12.43239	.0536626
#2	.0047626	-.001806	.0346879	-.004283	.0008724	12.43883	.0533852
#3	.0043105	-.002042	.0337018	-.001807	.0006876	12.35340	.0530718

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008657	.0014058	4.130906	.0114607	.0159787	.0692341	28.58621
Stddev	.0000516	.0000193	.021765	.0002748	.0001560	.0003460	.12753
%RSD	5.955593	1.373679	.5268751	2.398099	.9763045	.4997876	.4461180
#1	.0008344	.0013873	4.134209	.0111456	.0158413	.0689919	28.68633
#2	.0009252	.0014041	4.150830	.0116508	.0161482	.0690800	28.62968
#3	.0008375	.0014258	4.107678	.0115859	.0159464	.0696304	28.44263

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7459942	3.739311	.0213772	.0028775	.8116982	.0549954	.1262879
Stddev	.0037222	.032712	.0000940	.0001394	.0076765	.0008284	.0005435
%RSD	.4989653	.8748224	.4395440	4.844890	.9457340	1.506266	.4303627
#1	.7467803	3.725513	.0214347	.0028152	.8113524	.0542581	.1257997
#2	.7492606	3.776661	.0214280	.0030372	.8195417	.0558918	.1261905
#3	.7419417	3.715758	.0212687	.0027801	.8042004	.0548364	.1268735

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.344896	.0324040	.0004613	.0016911	.4431640	.8592192	.0676639
Stddev	.004793	.0010219	.0002452	.0001633	.0003353	.0070068	.0005009
%RSD	.3564055	3.153508	53.16372	9.653570	.0756678	.8154784	.7402691
#1	1.339940	.0335789	.0002020	.0015030	.4429972	.8547639	.0675869
#2	1.345240	.0319113	.0004923	.0017963	.4429448	.8672956	.0681988
#3	1.349508	.0317219	.0006896	.0017738	.4435500	.8555982	.0672060

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1830-02DLX10 Acquired: 3/26/2024 14:19:00 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0359112	.0016410	-.012168	z *****
Stddev	.0003296	.0001974	.000066	-----
%RSD	.9179031	12.02661	.5463591	-----
#1	.0359136	.0014688	-.012224	z 2262.604
#2	.0355804	.0018564	-.012184	z 2289.703
#3	.0362397	.0015979	-.012095	z 2290.204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.865	85883.18	13072.20	3023.280	5319.218
Stddev	16.917	115.06	37.01	3.802	15.714
%RSD	.4444945	.1339722	.2831057	.1257681	.2954158
#1	3822.066	85921.42	13106.63	3020.167	5334.375
#2	3788.313	85974.25	13033.06	3027.518	5303.001
#3	3807.216	85753.87	13076.89	3022.153	5320.279

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1830-04DLX10 Acquired: 3/26/2024 14:23:23 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201974	-.001467	.1283892	-.001335	.0020421	13.57290	.1718698
Stddev	.0015925	.001440	.0013858	.002596	.0002605	.05936	.0003421
%RSD	7.884469	98.21626	1.079345	194.4535	12.75412	.4373274	.1990280
#1	.0212172	-.003118	.1286785	-.004243	.0020319	13.58558	.1714983
#2	.0210126	-.000811	.1296075	-.000508	.0017869	13.62489	.1721718
#3	.0183624	-.000471	.1268816	.000747	.0023075	13.50822	.1719395

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013522	.0018049	18.80669	.0241546	.0128323	.0693422	30.96539
Stddev	.0000378	.0000485	.03743	.0001393	.0000791	.0003932	.16198
%RSD	2.799337	2.686025	.1990459	.5768259	.6161544	.5670196	.5231046
#1	.0013252	.0017883	18.76595	.0241080	.0127854	.0692545	31.01617
#2	.0013955	.0017668	18.81455	.0243112	.0129236	.0690002	31.09589
#3	.0013359	.0018594	18.83957	.0240445	.0127881	.0697718	30.78410

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6359767	9.929327	.0317470	.0032571	1.995713	.0679120	.1617949
Stddev	.0004432	.056431	.0004813	.0000415	.023138	.0022065	.0010623
%RSD	.0696841	.5683226	1.516142	1.274713	1.159372	3.249025	.6565742
#1	.6355928	9.930862	.0320422	.0032339	1.991436	.0699250	.1609126
#2	.6364617	9.984975	.0320073	.0033050	2.020691	.0682579	.1629741
#3	.6358756	9.872145	.0311916	.0032323	1.975012	.0655529	.1614981

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630295	.0452629	.0012720	.0027360	.4867740	3.759237	.0610859
Stddev	.013455	.0007475	.0000628	.0008843	.0023767	.045262	.0002837
%RSD	.8252942	1.651492	4.941323	32.32165	.4882547	1.204017	.4644995
#1	1.623045	.0456357	.0013430	.0026680	.4843942	3.778249	.0607589
#2	1.622019	.0457506	.0012494	.0036524	.4867803	3.791892	.0612664
#3	1.645820	.0444022	.0012235	.0018877	.4891476	3.707570	.0612325

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1830-04DLX10 Acquired: 3/26/2024 14:23:23 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.1160719	.0026528	.0190974	z *****
Stddev	.0001030	.0000438	.0001793	-----
%RSD	.0887551	1.652002	.9387961	-----
#1	.1161891	.0026103	.0189170	z 2330.644
#2	.1159954	.0026502	.0192756	z 2317.079
#3	.1160314	.0026978	.0190995	z 2307.454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3703.870	83809.91	13217.05	2954.320	5112.842
Stddev	1.277	212.93	49.10	13.340	8.235
%RSD	.0344649	.2540629	.3715238	.4515379	.1610703
#1	3704.635	83710.91	13235.64	2960.651	5109.717
#2	3704.579	83664.50	13254.14	2938.993	5106.627
#3	3702.396	84054.32	13161.36	2963.315	5122.183

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV02 Acquired: 3/26/2024 15:07:00 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.992409**	**4.698150**	**4.718494**	**4.897824**	**5.099206**	**9.561367**
Stddev	.291046	.146599	.286154	.272946	.306224	.060391
%RSD	5.829780	3.120350	6.064527	5.572811	6.005332	.6316126
#1	4.792334	4.709624	4.514518	4.721963	4.885059	9.495942
#2	5.326296	4.838675	5.045603	5.212260	5.449958	9.573181
#3	4.858598	4.546151	4.595359	4.759251	4.962601	9.614977

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.725075**	**.2408350**	**2.369150**	**25.27195**	**.9848699**	**2.393645**
Stddev	.122218	.0003097	.145533	.07181	.0011691	.148877
%RSD	1.256734	.1285975	6.142849	.2841630	.1187011	6.219684
#1	9.593941	.2405757	2.266109	25.19035	.9850435	2.286353
#2	9.835810	.2411779	2.535636	25.32557	.9859424	2.563612
#3	9.745474	.2407515	2.305707	25.29991	.9836237	2.330969

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.264436**	**4.723019**	**2.476168**	**24.09068**	**2.446770**	**1.187543**
Stddev	.078247	.018121	.008897	.04227	.151156	.002133
%RSD	6.188252	.3836803	.3592899	.1754484	6.177782	.1796013
#1	1.209391	4.702186	2.465916	24.04349	2.338128	1.188888
#2	1.354008	4.731740	2.480726	24.10351	2.619395	1.188657
#3	1.229911	4.735131	2.481862	24.12505	2.382786	1.185084

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.60131**	**2.379350**	**2.312216**	**24.60864**	**4.648182**	**5.115230**
Stddev	.05983	.012233	.006889	.08086	.006294	.302613
%RSD	.2535018	.5141394	.2979543	.3285941	.1354149	5.915915
#1	23.58410	2.365506	2.314034	24.53671	4.642003	4.907489
#2	23.55197	2.383842	2.318015	24.59306	4.654586	5.462426
#3	23.66785	2.388702	2.304600	24.69616	4.647956	4.975776

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV02 Acquired: 3/26/2024 15:07:00 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.338114	4.652432	4.501025	4.764886	4.636185	4.844732
Stddev	.258403	.024235	.026372	.308109	.261593	.018262
%RSD	5.956565	.5209042	.5859196	6.466243	5.642421	.3769422
#1	4.159498	4.626355	4.476382	4.519370	4.455114	4.851799
#2	4.634410	4.656677	4.497855	5.110630	4.936103	4.823993
#3	4.220433	4.674263	4.528840	4.664659	4.517339	4.858404

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.194099	z *****
Stddev	.015108	-----
%RSD	.2908723	-----
#1	5.176931	z 21557.97
#2	5.199998	z 21665.07
#3	5.205368	z 21672.98

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3272.222	77719.64	12137.65	2665.230	4315.303
Stddev	165.181	153.35	14.05	10.806	221.772
%RSD	5.047991	.1973122	.1157469	.4054601	5.139194
#1	3392.491	77544.09	12123.33	2653.112	4477.507
#2	3083.883	77827.51	12138.21	2668.714	4062.591
#3	3340.293	77787.32	12151.41	2673.866	4405.811

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB02 Acquired: 3/26/2024 15:26:54 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001118**	**.0001379**	**-.000365**	**-.000645**	**.0004590**	**.0006325**	**-.003104**
Stddev	.000610	.0002593	.000876	.002103	.0003449	.0049168	.000792
%RSD	54.52630	187.9538	239.7279	325.8572	75.13275	777.4044	25.52537
#1	-.000929	.0003949	-.000429	-.003074	.0004737	.0043338	-.002289
#2	-.001800	-.000124	-.001208	.000535	.0001070	.0025100	-.003872
#3	-.000626	.000143	.000541	.000602	.0007963	-.004946	-.003152

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**.0000679**	**.0115164**	**-.000059**	**.0001192**	**.0000937**	**.0031569**
Stddev	.000024	.0000361	.0049554	.000133	.0001853	.0005375	.0024232
%RSD	130.8690	53.19647	43.02877	225.3033	155.4131	573.9709	76.75821
#1	-.000034	.0000563	.0072614	.000068	.0002402	-.000381	.0046700
#2	.000009	.0001084	.0103308	-.000048	.0002116	-.000016	.0044386
#3	-.000030	.0000390	.0169570	-.000197	-.000094	.000677	.0003620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000753**	**.0009276**	**.0000043**	**.0003551**	**.0657779**	**-.002163**	**.0009215**
Stddev	.0001144	.0116942	.0001461	.0000973	.0045650	.000385	.0000627
%RSD	152.0080	1260.721	3399.781	27.39450	6.939968	17.78997	6.802088
#1	-.000051	-.011413	-.000068	.0002925	.0710490	-.002058	.0009938
#2	.000104	.011846	-.000091	.0003056	.0631659	-.001841	.0008877
#3	.000173	.002349	.000172	.0004672	.0631188	-.002589	.0008830

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117268**	**-.001113**	**.0003498**	**-.000559**	**.0094121**	**.0048515**	**.0000155**
Stddev	.0040335	.000388	.0001788	.000350	.0006328	.0051696	.0001797
%RSD	34.39517	34.89506	51.11110	62.56980	6.723353	106.5565	1159.626
#1	.0096363	-.001055	.0005315	-.000838	.0090978	.0021533	.0001077
#2	.0163764	-.000757	.0003437	-.000673	.0101406	.0015892	.0001303
#3	.0091678	-.001527	.0001741	-.000167	.0089981	.0108119	-.000192

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB02 Acquired: 3/26/2024 15:26:54 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0001954	.0001162	.0001129	z *****
Stddev	.0001897	.0000865	.0000272	-----
%RSD	97.08847	74.40518	24.11977	-----
#1	.0000494	.0001561	.0001089	z 1865.504
#2	.0001270	.0001756	.0000879	z 1870.341
#3	.0004097	.0000170	.0001420	z 1875.839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.005	85537.82	12436.86	2871.617	5421.614
Stddev	3.245	372.44	19.36	16.760	6.605
%RSD	.0882035	.4354148	.1556769	.5836335	.1218276
#1	3676.816	85289.53	12437.99	2867.120	5416.561
#2	3682.733	85357.87	12455.63	2857.565	5419.193
#3	3677.464	85966.07	12416.96	2890.166	5429.088

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04 Acquired: 3/26/2024 15:31:22 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001000**	**-.003987**	**.0171112**	**-.001554**	**.0089872**	**.5878005**
Stddev	.003655	.001308	.0014251	.002066	.0010458	.0078432
%RSD	365.5878	32.79977	8.328375	132.9868	11.63598	1.334332
#1	-.003182	-.004448	.0174358	-.001412	.0082134	.5939696
#2	-.002597	-.002511	.0183460	-.003687	.0101769	.5904581
#3	-.003584	-.005002	.0155519	.000438	.0085713	.5789738

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1977191**	**.0000020**	**.0002658**	**110.3398**	**.0058690**	**.0124996**
Stddev	.0010215	.0000367	.0000762	.6275	.0003494	.0002487
%RSD	.5166401	1882.181	28.68053	.5687420	5.953061	1.989512
#1	.1965435	-.000022	.0003536	109.6419	.0054716	.0123748
#2	.1982236	-.000016	.0002167	110.5199	.0060077	.0123380
#3	.1983902	.000044	.0002271	110.8576	.0061278	.0127860

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059946**	**3.077252**	**4.481401**	**22.52866**	**.0176338**	**.0015804**
Stddev	.0005132	.014976	.021922	.21468	.0002172	.0001289
%RSD	8.560455	.4866702	.4891812	.9529409	1.231718	8.154256
#1	.0058449	3.072238	4.456493	22.28083	.0173833	.0015158
#2	.0055729	3.065426	4.489947	22.64757	.0177481	.0017288
#3	.0065659	3.094091	4.497763	22.65758	.0177699	.0014966

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**469.4098**	**.0003882**	**.1069856**	**8.646315**	**.4823610**	**.0129072**
Stddev	5.2938	.0008535	.0005237	.086403	.0010924	.0005903
%RSD	1.127759	219.8784	.4894810	.9993081	.2264716	4.573750
#1	472.5695	-.000036	.1065701	8.546799	.4824126	.0127587
#2	463.2982	.001371	.1075738	8.689911	.4834266	.0124054
#3	472.3618	-.000170	.1068128	8.702235	.4812436	.0135577

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04 Acquired: 3/26/2024 15:31:22 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492578	.0334908	F 13.20220	.0117002	4.213141	.0073220
Stddev	.0004344	.0004865	.10522	.0001888	.071731	.0004870
%RSD	.8818628	1.452657	.7969877	1.613582	1.702547	6.650712
#1	.0493463	.0331474	13.08448	.0114870	4.168446	.0068057
#2	.0487859	.0340475	13.23504	.0117676	4.175098	.0073873
#3	.0496411	.0332775	13.28709	.0118461	4.295880	.0077730

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.5639029	z *****
Stddev	.0021170	-----
%RSD	.3754251	-----
#1	.5614862	z 2166.001
#2	.5654298	z 2187.857
#3	.5647927	z 2171.762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3082.507	70344.47	11793.32	2393.286	4035.925
Stddev	63.711	119.64	29.98	13.865	76.014
%RSD	2.066842	.1700725	.2541940	.5793119	1.883446
#1	3116.808	70228.91	11761.77	2377.954	4076.660
#2	3121.717	70336.68	11796.75	2396.962	4082.889
#3	3008.995	70467.81	11821.43	2404.942	3948.224

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1831-01DLX10 Acquired: 3/26/2024 15:35:50 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057894	.0007824	.0285249	-.003444	.0017528	15.69547	.0840120
Stddev	.0027321	.0005837	.0006876	.001682	.0003971	.81311	.0046877
%RSD	47.19182	74.61147	2.410460	48.83102	22.65344	5.180512	5.579797
#1	.0046775	.0001090	.0291381	-.003695	.0022031	15.19590	.0810927
#2	.0037885	.0011456	.0286549	-.001651	.0016026	15.25681	.0815240
#3	.0089021	.0010924	.0277815	-.004986	.0014528	16.63371	.0894191

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011145	.0009877	40.70872	.0172702	.0111544	.0487598	29.52600
Stddev	.0000023	.0001189	2.31343	.0000831	.0002658	.0015124	.34971
%RSD	.2100542	12.03493	5.682875	.4809614	2.382967	3.101643	1.184403
#1	.0011171	.0009293	39.24637	.0172774	.0111358	.0483330	29.30978
#2	.0011126	.0011245	39.50389	.0171837	.0114290	.0504397	29.33877
#3	.0011137	.0009093	43.37589	.0173494	.0108983	.0475067	29.92946

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5639349	16.38011	.0202622	.0030247	1.081362	.0451051	.0692516
Stddev	.0307584	.92199	.0004118	.0001992	.017483	.0035364	.0004541
%RSD	5.454248	5.628705	2.032434	6.584857	1.616779	7.840283	.6557725
#1	.5449070	15.82552	.0201000	.0029068	1.076600	.0422749	.0690065
#2	.5474772	15.87040	.0207304	.0032547	1.100733	.0439710	.0697756
#3	.5994207	17.44442	.0199562	.0029127	1.066753	.0490694	.0689726

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009107	.0344626	.0003812	-.000614	.3193626	.8649128	.0800699
Stddev	.011060	.0020201	.0002599	.000490	.0168889	.0047021	.0026603
%RSD	1.096006	5.861664	68.19740	79.78238	5.288314	.5436498	3.322510
#1	1.018818	.0356846	.0000874	-.000063	.3078147	.8638035	.0788033
#2	.997068	.0355722	.0005814	-.000778	.3115270	.8608646	.0831269
#3	1.011434	.0321309	.0004747	-.001000	.3387461	.8700704	.0782796

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1831-01DLX10 Acquired: 3/26/2024 15:35:50 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0155180	.0029019	.0358451	z *****
Stddev	.0008309	.0002875	.0031612	-----
%RSD	5.354273	9.907179	8.818983	-----
#1	.0154644	.0028166	.0338407	z 2463.817
#2	.0163744	.0026666	.0342053	z 2463.839
#3	.0147153	.0032224	.0394892	z 2454.606

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.166	85125.97	12814.52	2908.660	5022.611
Stddev	85.020	158.23	562.62	4.551	116.558
%RSD	2.340107	.1858774	4.390473	.1564726	2.320666
#1	3685.519	85306.38	13175.71	2909.441	5082.461
#2	3535.067	85060.81	13101.58	2903.769	4888.287
#3	3678.911	85010.73	12166.28	2912.771	5097.086

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01 Acquired: 3/26/2024 15:40:12 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0792723	-.020089	.3166673	-.033253	.0136121	145.5443	.6978967
Stddev	.0022555	.001021	.0020505	.001585	.0011456	1.1736	.0026358
%RSD	2.845205	5.082750	.6475231	4.765604	8.416183	.8063744	.3776778
#1	.0818751	-.019307	.3188274	-.032166	.0125326	146.8990	.6968766
#2	.0780476	-.019716	.3164269	-.035071	.0148140	144.8336	.6959233
#3	.0778940	-.021244	.3147476	-.032521	.0134896	144.9004	.7008901

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110374	.0281304	130.1248	.1850351	.2091473	.4047022	320.3739
Stddev	.0000907	.0001196	.4909	.0011702	.0006522	.0004827	2.1133
%RSD	.8216528	.4251081	.3772643	.6324163	.3118407	.1192617	.6596242
#1	.0111164	.0281103	130.6281	.1863177	.2094546	.4041947	322.7702
#2	.0110576	.0282588	130.0991	.1840257	.2095892	.4051554	319.5749
#3	.0109384	.0280222	129.6472	.1847620	.2083983	.4047565	318.7766

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.619901	67.40499	.3381004	.0298643	4.314930	.6681733	.7335532
Stddev	.012757	.40770	.0010396	.0002012	.033176	.0007519	.0019426
%RSD	.2269897	.6048582	.3074727	.6735472	.7688696	.1125297	.2648189
#1	5.631144	67.60367	.3389839	.0300525	4.292367	.6685903	.7318199
#2	5.622521	67.67526	.3383624	.0296523	4.299399	.6686243	.7356529
#3	5.606037	66.93603	.3369549	.0298880	4.353022	.6673053	.7331867

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.14411	.4465696	.0020051	.0275723	7.112045	4.701308	1.037906
Stddev	.10866	.0056638	.0003280	.0012385	.002635	.011878	.002805
%RSD	.7175329	1.268291	16.35976	4.491647	.0370554	.2526451	.2702707
#1	15.07071	.4524618	.0017248	.0267615	7.112471	4.688662	1.035781
#2	15.09268	.4411659	.0023659	.0269575	7.114441	4.703034	1.041085
#3	15.26894	.4460813	.0019245	.0289979	7.109222	4.712228	1.036851

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01 Acquired: 3/26/2024 15:40:12 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5804010	.0256693	.0742627	z *****
Stddev	.0032483	.0000973	.0022090	-----
%RSD	.5596620	.3792376	2.974555	-----
#1	.5807965	.0256619	.0722481	z 8101.436
#2	.5834335	.0255759	.0739152	z 8062.379
#3	.5769731	.0257702	.0766248	z 8042.767

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4078.030	96028.21	15884.56	3206.708	4350.578
Stddev	7.366	225.27	77.70	21.787	5.739
%RSD	.1806263	.2345913	.4891491	.6794067	.1319160
#1	4086.534	96218.92	15829.64	3228.124	4354.936
#2	4073.934	96086.06	15850.58	3207.430	4344.075
#3	4073.623	95779.65	15973.46	3184.569	4352.721

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01DLX10 Acquired: 3/26/2024 15:44:36 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057952	-.000308	.0126205	-.002777	.0009060	9.342313	.0132474
Stddev	.0020796	.002156	.0003620	.000351	.0005046	.011377	.0003970
%RSD	35.88454	700.5992	2.868017	12.63844	55.69685	.1217792	2.996723
#1	.0073088	-.001787	.0124776	-.003074	.0014480	9.342847	.0128014
#2	.0034240	-.001303	.0123518	-.002390	.0004496	9.330678	.0133788
#3	.0066530	.002167	.0130321	-.002868	.0008205	9.353413	.0135621

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009479	.0004392	8.434654	.0223154	.0102358	.0349029	19.05865
Stddev	.0000339	.0000657	.055149	.0002002	.0001175	.0002243	.07288
%RSD	3.571550	14.95082	.6538394	.8969451	1.148309	.6427297	.3824101
#1	.0009126	.0004819	8.382217	.0223768	.0103283	.0350340	19.05792
#2	.0009800	.0003636	8.429581	.0224777	.0101035	.0346439	19.13190
#3	.0009512	.0004721	8.492164	.0220918	.0102757	.0350309	18.98614

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3996899	7.722819	.0227406	.0020704	.1809858	.0358332	.0595075
Stddev	.0018537	.050631	.0002374	.0000836	.0101093	.0007081	.0002818
%RSD	.4637932	.6556072	1.043827	4.037844	5.585674	1.976037	.4735343
#1	.3984883	7.710636	.0228673	.0020090	.1879200	.0357905	.0592744
#2	.3987566	7.679392	.0224667	.0021656	.1856511	.0351474	.0598207
#3	.4018248	7.778431	.0228877	.0020365	.1693864	.0365616	.0594276

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.681637	.0222142	-.000106	.0000346	.4476294	.7494028	.0409442
Stddev	.009972	.0006954	.000260	.0006889	.0013413	.0061355	.0003131
%RSD	.5929956	3.130407	246.0293	1991.483	.2996470	.8187204	.7646074
#1	1.672948	.0227540	.000060	.0007058	.4484029	.7563955	.0410331
#2	1.692525	.0224591	-.000405	-.000671	.4484046	.7468923	.0405964
#3	1.679438	.0214295	.000029	.000069	.4460806	.7449207	.0412033

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01DLX10 Acquired: 3/26/2024 15:44:36 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0064463	.0028820	.0012682	z *****
Stddev	.0002220	.0002008	.0000548	-----
%RSD	3.444418	6.968395	4.324183	-----
#1	.0064133	.0026566	.0012855	z 2200.884
#2	.0062426	.0030420	.0012069	z 2205.726
#3	.0066830	.0029473	.0013124	z 2196.592

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3664.831	85395.83	13365.00	2863.441	5236.205
Stddev	28.990	251.20	71.50	5.150	38.900
%RSD	.7910388	.2941546	.5350097	.1798478	.7429047
#1	3671.930	85314.18	13427.09	2859.824	5242.422
#2	3689.613	85195.63	13381.08	2861.162	5271.622
#3	3632.951	85677.70	13286.82	2869.337	5194.571

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1842-01 Acquired: 3/26/2024 15:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406872	-.017327	.1406248	-.022619	.0077693	63.04307	.3527972
Stddev	.0024033	.000205	.0012537	.002675	.0024718	.14675	.0013649
%RSD	5.906897	1.180725	.8914906	11.82610	31.81501	.2327849	.3868803
#1	.0379933	-.017168	.1419860	-.023223	.0058929	63.11225	.3525444
#2	.0414571	-.017558	.1395174	-.019693	.0068449	62.87451	.3515763
#3	.0426113	-.017255	.1403711	-.024940	.0105700	63.14245	.3542708

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072484	.0180324	46.53592	.0788443	.0841829	.1977865	224.5911
Stddev	.0000496	.0004637	.12376	.0018207	.0002861	.0017410	4.9022
%RSD	.6845394	2.571460	.2659475	2.309273	.3398131	.8802302	2.182716
#1	.0072131	.0185222	46.66428	.0768906	.0842214	.1996161	218.9645
#2	.0073051	.0179748	46.52616	.0804938	.0844479	.1975932	227.9408
#3	.0072270	.0176002	46.41733	.0791487	.0838796	.1961503	226.8679

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.623110	23.66743	.1292072	.0198578	3.778506	.2492977	.5012941
Stddev	.006426	.10549	.0002086	.0002692	.098292	.0000628	.0128948
%RSD	.2449848	.4457364	.1614636	1.355381	2.601336	.0251923	2.572312
#1	2.630518	23.78642	.1293384	.0195688	3.665222	.2493688	.4864972
#2	2.619037	23.63052	.1293166	.0201014	3.829114	.2492748	.5101300
#3	2.619774	23.58535	.1289666	.0199030	3.841181	.2492496	.5072551

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.043189	.2557438	.0058576	.0155190	3.278662	1.326395	.7336794
Stddev	.174577	.0188189	.0000681	.0006893	.007278	.028835	.0080483
%RSD	2.478665	7.358485	1.163022	4.441447	.2219863	2.173966	1.096984
#1	6.841685	.2340179	.0059232	.0155578	3.280686	1.293377	.7402888
#2	7.139029	.2669780	.0058624	.0148111	3.270586	1.339185	.7360326
#3	7.148853	.2662356	.0057872	.0161880	3.284714	1.346623	.7247167

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1842-01 Acquired: 3/26/2024 15:48:58 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0626871	.0093870	-.126254	z *****
Stddev	.0007423	.0000992	.004965	-----
%RSD	1.184110	1.056820	3.932193	-----
#1	.0635200	.0094301	-.120603	z 6569.753
#2	.0624462	.0092736	-.129912	z 6595.399
#3	.0620953	.0094574	-.128248	z 6588.847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4277.982	102207.2	16040.56	3406.097	4681.820
Stddev	9.661	2362.4	64.14	62.571	12.681
%RSD	.2258265	2.311425	.3998395	1.837036	.2708494
#1	4266.883	104896.5	15985.45	3477.933	4671.146
#2	4284.505	100466.3	16025.26	3363.477	4678.476
#3	4282.557	101259.0	16110.96	3376.882	4695.837

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1842-03 Acquired: 3/26/2024 15:53:12 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0831904	-.008666	3.300384	-.019201	.0208621	117.6139	1.122265
Stddev	.0008264	.002040	.011988	.002218	.0007422	.3270	.005790
%RSD	.9933972	23.54292	.3632274	11.54995	3.557745	.2780051	.5159579
#1	.0830842	-.006314	3.307296	-.019680	.0204845	117.2384	1.117166
#2	.0840648	-.009729	3.307314	-.016782	.0217172	117.7675	1.121069
#3	.0824223	-.009955	3.286542	-.021139	.0203846	117.8358	1.128560

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074568	.0666198	61.68859	.2328851	.1198247	1.053531	243.3545
Stddev	.0001006	.0002291	.30414	.0005773	.0005617	.001751	.4471
%RSD	1.349560	.3438323	.4930260	.2478998	.4687718	.1662363	.1837120
#1	.0074370	.0667895	61.49539	.2331315	.1202930	1.053968	242.8594
#2	.0075659	.0667106	62.03918	.2332983	.1199792	1.055022	243.7286
#3	.0073676	.0663592	61.53122	.2322254	.1192019	1.051602	243.4756

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.740297	39.60458	.5106430	.0250676	12.19725	.4422987	4.849341
Stddev	.012226	.35153	.0021615	.0001436	.09470	.0023565	.001539
%RSD	.4461619	.8875909	.4232923	.5729683	.7764056	.5327842	.0317403
#1	2.729023	39.38208	.5118436	.0249073	12.13562	.4398974	4.847567
#2	2.753293	40.00984	.5119377	.0251108	12.14983	.4423911	4.850320
#3	2.738577	39.42183	.5081477	.0251847	12.30629	.4446077	4.850137

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.14668	.3469144	.0206327	.1507399	5.962734	1.578185	.8691982
Stddev	.21201	.0022120	.0005211	.0009612	.015713	.018959	.0104841
%RSD	.7809769	.6376254	2.525707	.6376726	.2635120	1.201340	1.206174
#1	27.03384	.3476531	.0200310	.1509877	5.944651	1.582083	.8793797
#2	27.01496	.3444275	.0209289	.1496790	5.973059	1.557580	.8697791
#3	27.39125	.3486624	.0209383	.1515530	5.970491	1.594892	.8584358

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1842-03 Acquired: 3/26/2024 15:53:12 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.6374596	.0154781	.0033534	z *****
Stddev	.0011953	.0001814	.0011772	-----
%RSD	.1875039	1.172201	35.10471	-----
#1	.6379602	.0152794	.0025557	z 6412.370
#2	.6383232	.0155196	.0027990	z 6416.517
#3	.6360954	.0156351	.0047054	z 6427.926

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3887.702	92216.38	15187.07	3077.157	4446.513
Stddev	8.991	213.19	96.94	6.016	9.691
%RSD	.2312757	.2311852	.6383013	.1954941	.2179443
#1	3896.224	92460.30	15246.19	3080.910	4449.217
#2	3878.305	92065.65	15075.19	3080.341	4435.758
#3	3888.576	92123.18	15239.82	3070.218	4454.565

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LR-1 Acquired: 3/26/2024 15:57:23 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196810	-.045429	-.006349	-.083264	.0076171	1842.439
Stddev	.0065981	.002327	.008262	.007879	.0090151	71.662
%RSD	33.52522	5.123249	130.1314	9.462454	118.3527	3.889530
#1	.0272551	-.047756	-.001980	-.078132	-.002387	1908.242
#2	.0166072	-.043101	-.001189	-.079325	.010128	1852.988
#3	.0151806	-.045432	-.015878	-.092336	.015111	1766.087

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036857	.0070161	.1138393	F 1568.867	-.062341	.0496929
Stddev	.0003395	.0001993	.0029671	50.925	.002063	.0004672
%RSD	9.212604	2.841108	2.606398	3.245980	3.309399	.9401292
#1	.0040110	.0072081	.1126430	1606.950	-.063195	.0500104
#2	.0037124	.0070302	.1116571	1588.628	-.063841	.0491565
#3	.0033335	.0068101	.1172178	1511.023	-.059989	.0499119

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249466	911.3703	.0056123	F 1303.769	.0630644	.0728792
Stddev	.0100645	25.5743	.0002927	52.350	.0009690	.0017035
%RSD	40.34398	2.806142	5.216171	4.015273	1.536449	2.337465
#1	.0194214	927.8795	.0059304	1341.734	.0629210	.0739553
#2	.0188550	924.3202	.0055521	1325.523	.0621751	.0737671
#3	.0365634	881.9112	.0053543	1244.049	.0640971	.0709151

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1645.693	.0204758	.1389802	F 1475.730	^ *****	.0016058
Stddev	59.202	.0011975	.0049790	40.945	-----	.0006879
%RSD	3.597361	5.848594	3.582490	2.774557	-----	42.83827
#1	1696.800	.0193242	.1415101	1514.571	^ -----	.0021909
#2	1659.457	.0217145	.1421862	1479.655	^ -----	.0008480
#3	1580.822	.0203886	.1332442	1432.963	^ -----	.0017784

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LR-1 Acquired: 3/26/2024 15:57:23 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136725	-.022842	-.914287	.0055292	-.163191	.0509214
Stddev	.0023233	.000986	.030219	.0012999	.006279	.0010519
%RSD	16.99220	4.314633	3.305214	23.51007	3.847580	2.065633
#1	.0128238	-.023763	-.910839	.0040897	-.166668	.0514613
#2	.0118929	-.022962	-.946082	.0066173	-.166964	.0515936
#3	.0163008	-.021802	-.885939	.0058806	-.155943	.0497092

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	-.899561	z *****
Stddev	.025229	-----
%RSD	2.804572	-----
#1	-.915807	z 4654.978
#2	-.912380	z 4658.107
#3	-.870497	z 4642.197

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2234.339	54372.87	10500.71	1733.485	2537.936
Stddev	4.693	1306.31	273.38	42.928	8.527
%RSD	.2100492	2.402510	2.603430	2.476426	.3359759
#1	2233.325	53430.36	10287.98	1704.339	2535.982
#2	2239.457	53824.21	10405.10	1713.334	2547.270
#3	2230.237	55864.03	10809.05	1782.781	2530.556

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LR-2 Acquired: 3/26/2024 16:02:24 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003879**	**-.034256**	kF **24.32218**	k **-.023613**	**-.022055**	k **.2363886**
Stddev	.002362	.002159	.06529	.002074	.000611	.0207096
%RSD	60.88407	6.301559	.2684570	8.783109	2.770042	8.760833
#1	-.001273	-.034280	k 24.39436	k -.021767	-.021354	k .2575648
#2	-.005877	-.032085	k 24.30493	k -.023215	-.022337	k .2354215
#3	-.004487	-.036402	k 24.26724	k -.025857	-.022475	k .2161794

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	**.0003400**	**-.005247**	**.4203593**	**.0125314**	**-.002735**
Stddev	-----	.0000215	.000112	.0151678	.0003883	.000244
%RSD	-----	6.317252	2.130874	3.608299	3.098626	8.902751
#1	^ -----	.0003351	-.005375	.4301627	.0124220	-.002650
#2	^ -----	.0003213	-.005192	.4280268	.0122095	-.003010
#3	^ -----	.0003635	-.005173	.4028885	.0129627	-.002546

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **243.6984**	**.1979246**	**44.19911**	**.0311809**	F **44.67863**	**.0060684**
Stddev	1.0080	.0122482	.25124	.0058530	.15317	.0000681
%RSD	.4136321	6.188334	.5684282	18.77099	.3428341	1.121351
#1	k 244.5068	.2087926	44.02701	.0351126	44.84668	.0061239
#2	k 244.0195	.2003285	44.08290	.0339756	44.64238	.0059925
#3	k 242.5690	.1846526	44.48742	.0244544	44.54684	.0060887

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9180299**	**-.011724**	kF **20.34308**	**1.166833**	**-.001230**	**-.000688**
Stddev	.0192297	.000918	.29612	.083999	.000485	.000194
%RSD	2.094672	7.833301	1.455623	7.198894	39.45413	28.19661
#1	.9338843	-.012029	k 20.13358	1.231284	-.001030	-.000587
#2	.9235659	-.012451	k 20.21381	1.197380	-.001783	-.000565
#3	.8966394	-.010692	k 20.68186	1.071835	-.000876	-.000911

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: LR-2 Acquired: 3/26/2024 16:02:24 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000399	-.012728	.0154005	k -.035481	-.193553	.0025873
Stddev	.001240	.000350	.0174182	.000560	.000928	.0002494
%RSD	311.1004	2.752273	113.1016	1.577980	.4794188	9.640372
#1	-.001225	-.012366	.0081233	k -.036020	-.192799	.0023659
#2	-.000999	-.013065	.0028010	k -.035520	-.193271	.0025384
#3	.001027	-.012755	.0352773	k -.034902	-.194589	.0028575

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0013441	z *****
Stddev	.0000342	-----
%RSD	2.541486	-----
#1	.0013148	z 2018.009
#2	.0013359	z 2026.847
#3	.0013816	z 2054.193

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3390.644	81228.94	12558.02	2637.795	4913.954
Stddev	8.515	1105.93	19.82	29.182	13.561
%RSD	.2511278	1.361492	.1578012	1.106300	.2759747
#1	3386.239	81842.43	12552.52	2651.558	4904.383
#2	3385.233	81892.14	12580.00	2657.551	4908.008
#3	3400.458	79952.25	12541.53	2604.277	4929.473

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159696BL Acquired: 3/26/2024 16:16:10 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000649**	**-.000201**	**-.000326**	**.0000278**	**-.000576**	**.0036731**	**-.003732**
Stddev	.000993	.001394	.000490	.0006379	.001309	.0021140	.000123
%RSD	153.1008	692.6554	150.4382	2295.120	227.2883	57.55319	3.301230
#1	-.001761	-.001432	-.000184	.0007424	.000904	.0054329	-.003614
#2	.000151	.001313	.000078	-.000175	-.001585	.0013282	-.003860
#3	-.000336	-.000484	-.000871	-.000484	-.001047	.0042583	-.003722

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000017**	**.0000181**	**.0039229**	**-.000074**	**-.000084**	**-.000026**	**.0008974**
Stddev	.000049	.0000194	.0072316	.000207	.000127	.000206	.0009294
%RSD	289.4104	107.4225	184.3461	281.3623	151.8521	789.3945	103.5653
#1	.000034	.0000368	-.004147	-.000189	-.000135	.000151	.0003891
#2	-.000022	.0000194	.006097	-.000197	-.000178	-.000253	.0003330
#3	-.000063	-.000002	.009818	.000165	.000061	.000023	.0019701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**-.003242**	**.0000858**	**.0003881**	**.0389363**	**-.001648**	**.0002942**
Stddev	.000089	.008521	.0000693	.0003874	.0079126	.000601	.0002257
%RSD	645.9723	262.8084	80.76209	99.81634	20.32197	36.46194	76.70825
#1	-.000059	.006457	.0001587	.0006884	.0454035	-.001207	.0005527
#2	.000089	-.009524	.0000778	.0005252	.0412920	-.001406	.0001940
#3	-.000072	-.006661	.0000208	-.000049	.0301133	-.002333	.0001360

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0421386**	**-.005557**	**.0000247**	**-.000593**	**.0109994**	**-.002691**	**-.000054**
Stddev	.0124416	.000356	.0001934	.000196	.0002036	.001605	.000228
%RSD	29.52545	6.413406	781.8859	33.08325	1.851233	59.66151	421.4913
#1	.0429898	-.005181	-.000117	-.000668	.0111355	-.002303	-.000266
#2	.0292932	-.005600	-.000054	-.000371	.0107653	-.004454	-.000085
#3	.0541327	-.005890	.000245	-.000741	.0110972	-.001314	.000188

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159696BL Acquired: 3/26/2024 16:16:10 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0000430	-.000125	-.000063	z *****
Stddev	.0000837	.000017	.000019	-----
%RSD	194.7323	13.59797	30.33946	-----
#1	.0001326	-.000130	-.000072	z 1866.501
#2	-.000033	-.000107	-.000075	z 1848.176
#3	.000030	-.000140	-.000041	z 1847.015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3690.589	85855.58	12771.40	2851.892	5487.503
Stddev	8.652	187.08	39.51	6.475	9.893
%RSD	.2344230	.2179062	.3093780	.2270502	.1802854
#1	3699.637	85678.02	12815.56	2850.982	5491.992
#2	3689.731	85837.81	12759.28	2845.919	5494.355
#3	3682.398	86050.92	12739.38	2858.773	5476.161

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159696BS Acquired: 3/26/2024 16:20:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7621170	1.856007	.8850845	1.819388	.7691036	1.869099
Stddev	.0031302	.000785	.0023004	.005469	.0030899	.003882
%RSD	.4107291	.0422885	.2599054	.3005763	.4017521	.2077098
#1	.7634162	1.856265	.8873645	1.813095	.7688388	1.870714
#2	.7585463	1.855126	.8827643	1.822084	.7723174	1.871914
#3	.7643884	1.856631	.8851248	1.822986	.7661546	1.864670

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1883771	.1908487	.1709112	1.065493	.3344617	.1725600
Stddev	.0005946	.0008831	.0005007	.006630	.0017042	.0005318
%RSD	.3156511	.4627452	.2929555	.6222114	.5095468	.3081623
#1	.1878175	.1899737	.1714884	1.058684	.3324942	.1730689
#2	.1883125	.1908327	.1705939	1.065866	.3354820	.1726030
#3	.1890014	.1917398	.1706513	1.071928	.3354087	.1720080

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2911912	2.638427	.2008540	F 1.525290	.4415105	.0676788
Stddev	.0002316	.014840	.0003052	.022565	.0009113	.0003478
%RSD	.0795285	.5624387	.1519548	1.479375	.2064138	.5138846
#1	.2913440	2.643893	.2006258	1.499258	.4425083	.0673652
#2	.2909247	2.649758	.2007355	1.539258	.4407221	.0680529
#3	.2913048	2.621629	.2012007	1.537355	.4413012	.0676184

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.217928	.2764947	.1885719	8.691200	.2725702	.4146098
Stddev	.011142	.0010920	.0009314	.043035	.0010238	.0006153
%RSD	.5023650	.3949291	.4939458	.4951503	.3756258	.1484062
#1	2.213277	.2768341	.1891619	8.666214	.2718131	.4144607
#2	2.230642	.2773767	.1890557	8.740892	.2721624	.4152859
#3	2.209865	.2752734	.1874981	8.666494	.2737351	.4140827

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159696BS Acquired: 3/26/2024 16:20:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5667340	.1932067	.7620172	F .5044344	F .0006395	F .0177803
Stddev	.0015378	.0012379	.0023478	.0031283	.0002746	.0001394
%RSD	.2713390	.6407337	.3081072	.6201551	42.93221	.7839888
#1	.5678229	.1920130	.7631067	.5074738	.0009500	.0176632
#2	.5674042	.1931226	.7636223	.5046050	.0005398	.0179345
#3	.5649749	.1944846	.7593225	.5012243	.0004287	.0177433

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.2014614	z *****
Stddev	.0008596	-----
%RSD	.4267028	-----
#1	.2005159	z 10565.83
#2	.2016725	z 10605.26
#3	.2021959	z 10642.55

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3616.933	84632.42	12343.18	2822.450	5241.592
Stddev	.836	260.52	30.01	21.730	6.849
%RSD	.0231170	.3078299	.2431241	.7699086	.1306729
#1	3616.473	84549.37	12355.31	2800.878	5234.989
#2	3617.899	84423.55	12365.23	2822.135	5248.664
#3	3616.428	84924.35	12309.01	2844.335	5241.122

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV03 Acquired: 3/26/2024 16:36:10 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.987905**	**4.740801**	**4.723446**	**4.954207**	**5.165470**	**9.391543**
Stddev	.333211	.270615	.323080	.336422	.343243	.031362
%RSD	6.680374	5.708216	6.839915	6.790628	6.644958	.3339438
#1	5.372650	5.053259	5.096507	5.342657	5.561803	9.355520
#2	4.792688	4.581364	4.536718	4.763063	4.964836	9.412780
#3	4.798378	4.587782	4.537115	4.756900	4.969770	9.406327

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.903924**	**.2465851**	**2.336286**	**25.73936**	**.9569382**	**2.385884**
Stddev	.047294	.0006863	.160482	.04776	.0028743	.167133
%RSD	.4775246	.2783053	6.869124	.1855567	.3003652	7.005083
#1	9.900302	.2471841	2.521585	25.69259	.9539050	2.578851
#2	9.858545	.2467347	2.241958	25.78805	.9572880	2.286948
#3	9.952924	.2458363	2.245315	25.73742	.9596216	2.291851

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.275628**	**4.658913**	**2.471543**	**25.18580**	**2.424900**	**1.187757**
Stddev	.088730	.007924	.003080	.08902	.168779	.000831
%RSD	6.955801	.1700759	.1246310	.3534481	6.960254	.0699466
#1	1.378084	4.650830	2.469013	25.16357	2.619765	1.187521
#2	1.224234	4.659240	2.474973	25.28383	2.324797	1.188680
#3	1.224565	4.666668	2.470644	25.11001	2.330138	1.187069

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.65666**	**2.340740**	**2.342761**	**24.21369**	**4.751447**	**5.115408**
Stddev	.18972	.007276	.003654	.17944	.024591	.348169
%RSD	.8019540	.3108244	.1559570	.7410645	.5175396	6.806276
#1	23.44050	2.345820	2.345757	24.01295	4.763571	5.517367
#2	23.73393	2.343995	2.343834	24.26959	4.767620	4.907882
#3	23.79554	2.332405	2.338690	24.35853	4.723148	4.920973

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV03 Acquired: 3/26/2024 16:36:10 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.422321	4.595732	F 4.293153	4.554531	4.611204	4.659219
Stddev	.299845	.009905	.071396	.327919	.313320	.082716
%RSD	6.780257	.2155286	1.663009	7.199836	6.794753	1.775310
#1	4.768551	4.584413	4.220546	4.932849	4.972970	4.736758
#2	4.248532	4.602810	4.295640	4.351675	4.426686	4.668749
#3	4.249880	4.599974	4.363273	4.379070	4.433955	4.572152

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.259531	z *****
Stddev	.036986	-----
%RSD	.7032200	-----
#1	5.301776	z 21243.67
#2	5.232979	z 21236.15
#3	5.243839	z 21265.01

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3185.540	77462.18	11848.54	2572.859	4246.527
Stddev	188.201	100.57	51.47	7.036	253.406
%RSD	5.907975	.1298248	.4343837	.2734777	5.967369
#1	2968.279	77354.25	11801.11	2564.942	3953.982
#2	3298.382	77553.26	11841.24	2575.236	4398.047
#3	3289.959	77479.03	11903.27	2578.399	4387.552

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB03 Acquired: 3/26/2024 16:40:35 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001237**	**.0011147**	**-.000562**	**.0008225**	**.0007399**	**.0051344**	**-.004375**
Stddev	.001396	.0012118	.000362	.0025544	.0009317	.0027358	.000193
%RSD	112.9104	108.7134	64.45951	310.5688	125.9115	53.28370	4.414924
#1	-.002737	.0021311	-.000370	-.000506	-.000332	.0078660	-.004327
#2	.000024	-.000226	-.000980	.003767	.001196	.0051429	-.004587
#3	-.000997	.001439	-.000336	-.000794	.001356	.0023944	-.004210

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**.0000668**	**.0155505**	**.0001189**	**.0000584**	**-.000052**	**.0031296**
Stddev	.000034	.0000667	.0018844	.0001060	.0001095	.000406	.0032221
%RSD	76.66101	99.80165	12.11822	89.18814	187.3829	783.0958	102.9568
#1	-.000050	.0001217	.0150897	.0000980	-.000002	.000280	.0028691
#2	-.000075	-.000007	.0176226	.0002338	-.000008	.000069	.0000456
#3	-.000008	.000086	.0139392	.0000248	.000185	-.000504	.0064741

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001526**	**-.006918**	**.0001781**	**.0003604**	**.0705942**	**-.002320**	**.0012165**
Stddev	.0001435	.023752	.0001382	.0000999	.0038419	.000546	.0000285
%RSD	94.06502	343.3339	77.60364	27.71300	5.442193	23.51840	2.340836
#1	.0002616	-.000936	.0001594	.0003776	.0663689	-.002382	.0011869
#2	.0002063	.013271	.0003247	.0002531	.0715364	-.002832	.0012187
#3	-.000010	-.033089	.0000502	.0004506	.0738774	-.001746	.0012438

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0714372**	**.0029896**	**.0004881**	**-.000569**	**.0138291**	**-.003426**	**.0004887**
Stddev	.0087069	.0004684	.0002249	.000624	.0002547	.003031	.0002363
%RSD	12.18822	15.66723	46.07948	109.6674	1.841577	88.48780	48.36395
#1	.0808475	.0035243	.0007461	-.000020	.0137574	-.005944	.0006015
#2	.0636668	.0027926	.0003840	-.001248	.0141120	-.000061	.0002171
#3	.0697974	.0026519	.0003341	-.000440	.0136181	-.004272	.0006475

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB03 Acquired: 3/26/2024 16:40:35 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0002047	.0002359	.0001935	z *****	
Stddev	.0002294	.0000630	.0000315	-----	
%RSD	112.0294	26.69572	16.28757	-----	
#1	.0004410	.0003066	.0002253	z 1816.019	
#2	-.000017	.0002155	.0001930	z 1839.912	
#3	.000190	.0001857	.0001623	z 1815.584	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.171	85224.63	12128.47	2784.605	5386.154
Stddev	2.135	99.04	48.41	11.448	1.491
%RSD	.0590673	.1162092	.3991440	.4111277	.0276838
#1	3614.925	85122.21	12079.67	2771.682	5384.741
#2	3615.826	85231.80	12176.48	2793.476	5386.009
#3	3611.761	85319.90	12129.27	2788.657	5387.713

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159759BL Acquired: 3/26/2024 16:45:03 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002788**	**.0009718**	**-.001054**	**.0005423**	**-.000092**	**-.001269**	**-.003960**
Stddev	.0009156	.0017061	.000194	.0012998	.001142	.003417	.000257
%RSD	328.3654	175.5486	18.44207	239.6868	1237.201	269.2921	6.491188
#1	.0013023	-.000060	-.000831	.0005667	.000083	-.004660	-.003740
#2	-.000462	.002941	-.001191	-.000770	.000953	.002174	-.003896
#3	-.000003	.000034	-.001140	.001830	-.001312	-.001321	-.004242

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000014**	**-.000011**	**.0056482**	**-.000168**	**-.000098**	**.0001804**	**-.001919**
Stddev	.000027	.000035	.0050399	.000125	.000090	.0000847	.002727
%RSD	187.7810	322.9434	89.22898	74.06778	92.23221	46.94277	142.1008
#1	.000009	.000014	.0032419	-.000108	-.000201	.0000841	.000814
#2	-.000009	.000005	.0114402	-.000085	-.000045	.0002431	-.004640
#3	-.000044	-.000050	.0022626	-.000311	-.000047	.0002142	-.001931

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000141**	**-.002222**	**.0000529**	**.0004204**	**.0344639**	**-.001230**	**.0000106**
Stddev	.000109	.010746	.0000702	.0000345	.0044183	.001268	.0001828
%RSD	77.01925	483.6245	132.8723	8.216202	12.81996	103.0528	1722.935
#1	-.000024	.004546	-.000010	.0003810	.0382227	.000126	.0000312
#2	-.000238	.003401	.000129	.0004456	.0295971	-.002386	.0001822
#3	-.000162	-.014613	.000040	.0004345	.0355719	-.001430	-.000182

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0321820**	**-.000890**	**-.000006**	**-.001184**	**.0134128**	**-.006162**	**.0000786**
Stddev	.0258013	.000218	.000067	.000377	.0011853	.007056	.0001363
%RSD	80.17297	24.47234	1182.194	31.80414	8.837134	114.5073	173.3325
#1	.0178504	-.000640	.000061	-.001574	.0129292	-.006968	.0000797
#2	.0167279	-.000992	-.000005	-.000822	.0147635	-.012780	-.000058
#3	.0619676	-.001038	-.000073	-.001156	.0125458	.001263	.000214

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159759BL Acquired: 3/26/2024 16:45:03 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	-.000168	-.000229	-.000065	z *****
Stddev	.000200	.000016	.000025	-----
%RSD	119.3606	7.169238	38.63494	-----
#1	-.000093	-.000210	-.000083	z 1852.933
#2	-.000395	-.000237	-.000036	z 1856.778
#3	-.000016	-.000239	-.000075	z 1846.583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3676.432	86576.75	12218.54	2854.462	5470.430
Stddev	9.963	226.86	42.11	11.191	10.169
%RSD	.2710068	.2620353	.3446193	.3920475	.1858819
#1	3683.617	86602.50	12262.44	2845.148	5481.018
#2	3680.620	86338.11	12178.49	2851.361	5469.529
#3	3665.058	86789.63	12214.70	2866.876	5460.741

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159759BS Acquired: 3/26/2024 16:49:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7632861**	**1.862840**	**.8864471**	**1.818117**	**.7569119**	**1.904431**	**.1923267**
Stddev	.0026180	.017421	.0033604	.004811	.0020958	.003009	.0011895
%RSD	.3429923	.9351983	.3790902	.2646109	.2768861	.1579869	.6184581
#1	.7607784	1.847632	.8836588	1.812771	.7586052	1.905757	.1910013
#2	.7630779	1.859040	.8855042	1.819481	.7545680	1.906548	.1933012
#3	.7660020	1.881848	.8901782	1.822099	.7575626	1.900987	.1926776

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1984072**	**.1692264**	**1.084600**	**.3339684**	**.1727986**	**.2921764**	**2.606734**
Stddev	.0007392	.0002903	.006365	.0010725	.0000282	.0009998	.002842
%RSD	.3725825	.1715520	.5868733	.3211387	.0163510	.3421977	.1090111
#1	.1979899	.1689648	1.077478	.3351885	.1727663	.2922094	2.604309
#2	.1992607	.1691756	1.089733	.3331745	.1728186	.2911605	2.606032
#3	.1979710	.1695387	1.086589	.3335421	.1728109	.2931593	2.609861

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2037890**	**1.584891**	**.4404137**	**.0684832**	**2.250299**	**.2788387**	**.1961300**
Stddev	.0008385	.024528	.0014883	.0002028	.015906	.0004719	.0007094
%RSD	.4114291	1.547636	.3379414	.2961923	.7068588	.1692274	.3617032
#1	.2036405	1.612762	.4387154	.0687174	2.260160	.2783128	.1954204
#2	.2046918	1.575319	.4410345	.0683702	2.231949	.2792252	.1968392
#3	.2030348	1.566592	.4414911	.0683621	2.258788	.2789779	.1961304

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.666787**	**.2877392**	**.4056172**	**.5563457**	**.1947808**	**.7276402**	**.4892706**
Stddev	.062869	.0008611	.0008023	.0008396	.0003941	.0088916	.0024455
%RSD	.7253999	.2992737	.1978076	.1509193	.2023214	1.221972	.4998310
#1	8.602206	.2885062	.4058934	.5559163	.1946953	.7180185	.4920651
#2	8.670363	.2868077	.4047133	.5558076	.1952106	.7293481	.4882247
#3	8.727791	.2879037	.4062450	.5573132	.1944365	.7355538	.4875219

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159759BS Acquired: 3/26/2024 16:49:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0009067	.0182989	.2047058	z *****
Stddev	.0001419	.0000323	.0007668	-----
%RSD	15.64494	.1763805	.3745867	-----
#1	.0010444	.0182952	.2038833	z 10712.17
#2	.0007610	.0182687	.2054009	z 10700.69
#3	.0009145	.0183329	.2048333	z 10717.96

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3652.536	85539.30	12152.60	2818.308	5335.346
Stddev	6.662	137.46	47.03	12.804	5.229
%RSD	.1823862	.1607033	.3870137	.4543272	.0980079
#1	3646.087	85494.45	12158.12	2832.941	5333.138
#2	3659.392	85429.87	12103.05	2809.156	5341.317
#3	3652.130	85693.59	12196.62	2812.829	5331.583

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159637BL Acquired: 3/26/2024 16:53:41 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001620**	**-.001254**	**.0006506**	**-.000716**	**.0011386**	**.0018247**	**-.004562**
Stddev	.001594	.000167	.0008048	.001893	.0012091	.0043993	.000192
%RSD	98.41948	13.28142	123.7156	264.4396	106.1917	241.1028	4.208642
#1	-.003016	-.001439	.0004932	-.002569	.0001283	.0068502	-.004415
#2	-.001961	-.001207	-.000064	-.000793	.0008093	-.001330	-.004493
#3	.000118	-.001116	.001523	.001214	.0024783	-.000047	-.004779

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000041**	**-.000031**	**.0068027**	**-.000119**	**-.000026**	**-.000180**	**.0031887**
Stddev	.0000124	.000042	.0076978	.000099	.000093	.000281	.0041908
%RSD	305.5847	136.6152	113.1584	82.83172	363.3136	156.1831	131.4256
#1	.0000149	-.000016	-.002058	-.000017	-.000040	-.000408	.0005978
#2	-.000010	-.000079	.010627	-.000214	.000074	-.000267	.0080237
#3	.000007	.000002	.011840	-.000126	-.000111	.000134	.0009447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001320**	**-.003992**	**-.000044**	**.0003195**	**.0319784**	**-.000678**	**.0006821**
Stddev	.0002893	.007206	.000223	.0001121	.0085000	.000558	.0001962
%RSD	219.1531	180.5047	501.6223	35.10335	26.58055	82.28652	28.76592
#1	-.000181	-.008890	-.000288	.0002064	.0328488	-.000047	.0008997
#2	.000389	-.007369	.000150	.0003213	.0400098	-.001105	.0005186
#3	.000188	.004282	.000004	.0004307	.0230767	-.000882	.0006281

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0363273**	**-.002465**	**.0000686**	**-.001097**	**.0157182**	**.0008908**	**.0000634**
Stddev	.0168984	.000765	.0001910	.000570	.0010523	.0059324	.0001912
%RSD	46.51713	31.03105	278.5178	51.94656	6.694711	666.0014	301.4672
#1	.0193584	-.002838	.0001682	-.000769	.0169300	.0043142	-.000123
#2	.0364691	-.002972	.0001892	-.001755	.0150353	-.005959	.000259
#3	.0531544	-.001585	-.000152	-.000767	.0151892	.004318	.000055

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159637BL Acquired: 3/26/2024 16:53:41 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0000638	-.000182	-.000061	z *****
Stddev	.0003616	.000158	.000013	-----
%RSD	566.7549	86.75974	21.66092	-----
#1	.0000339	-.000008	-.000046	z 1856.044
#2	.0004395	-.000221	-.000066	z 1856.472
#3	-.000282	-.000316	-.000070	z 1851.844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3660.775	85487.82	12124.93	2816.951	5457.096
Stddev	113.618	315.02	38.42	10.720	166.776
%RSD	3.103656	.3685026	.3168278	.3805580	3.056133
#1	3530.707	85393.63	12103.25	2806.911	5266.228
#2	3740.664	85839.20	12169.28	2828.242	5574.698
#3	3710.956	85230.63	12102.25	2815.700	5530.361

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159637BS Acquired: 3/26/2024 16:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7837672**	**1.883576**	**.9211245**	**1.870535**	**.7461818**	**1.954974**	**.2002178**
Stddev	.0051280	.028851	.0013628	.002231	.0030907	.006082	.0005235
%RSD	.6542766	1.531702	.1479443	.1192477	.4141975	.3111072	.2614598
#1	.7889333	1.911810	.9226202	1.871186	.7468752	1.950714	.2008024
#2	.7836901	1.854146	.9199533	1.872368	.7428033	1.961939	.2000587
#3	.7786782	1.884773	.9208001	1.868051	.7488668	1.952268	.1997923

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2056117**	**.1763069**	**1.140207**	**.3459002**	**.1790481**	**.3008303**	**2.720547**
Stddev	.0008699	.0002230	.003220	.0012246	.0000623	.0005461	.018717
%RSD	.4230834	.1264788	.2824261	.3540271	.0347972	.1815305	.6879810
#1	.2063383	.1763323	1.137146	.3450112	.1789763	.3011010	2.727642
#2	.2046478	.1760723	1.139910	.3472970	.1790880	.3011883	2.734679
#3	.2058491	.1765161	1.143566	.3453924	.1790799	.3002018	2.699320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2115916**	**1.674102**	**.4558610**	**.0712229**	**2.318087**	**.2889649**	**.1993030**
Stddev	.0004053	.016098	.0008126	.0001453	.014709	.0022237	.0006082
%RSD	.1915470	.9615878	.1782641	.2039611	.6345310	.7695449	.3051364
#1	.2120442	1.692514	.4550942	.0710837	2.318127	.2909832	.1999606
#2	.2112623	1.662681	.4557759	.0713735	2.332775	.2865811	.1991874
#3	.2114682	1.667112	.4567128	.0712114	2.303357	.2893303	.1987609

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.049824**	**.2946948**	**.4018841**	**.5592448**	**.1959646**	**.7324105**	**.5123415**
Stddev	.019105	.0005188	.0001813	.0008131	.0006402	.0067722	.0024853
%RSD	.2111136	.1760624	.0451201	.1453941	.3266752	.9246440	.4850811
#1	9.046452	.2943380	.4019994	.5592367	.1961249	.7397440	.5151448
#2	9.070391	.2944564	.4019779	.5600620	.1952595	.7310947	.5104084
#3	9.032629	.2952900	.4016751	.5584358	.1965093	.7263927	.5114712

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: PB159637BS Acquired: 3/26/2024 16:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0004740	.0183817	.2125056	z *****
Stddev	.0002558	.0001846	.0003030	-----
%RSD	53.95932	1.004475	.1425753	-----
#1	.0001819	.0185840	.2127709	z 10793.28
#2	.0005823	.0183390	.2121754	z 10817.08
#3	.0006577	.0182223	.2125703	z 10882.00

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.539	84185.25	12022.32	2777.432	5253.608
Stddev	5.359	317.42	27.62	6.050	8.549
%RSD	.1482327	.3770535	.2297591	.2178378	.1627324
#1	3609.530	84017.68	11991.82	2773.571	5248.108
#2	3619.824	83986.73	12045.64	2774.321	5263.457
#3	3617.263	84551.34	12029.49	2784.405	5249.257

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01DUP Acquired: 3/26/2024 17:02:20 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0832596	-.023398	.3238934	-.030248	.0137048	147.0924	.7121074
Stddev	.0029875	.002020	.0021586	.003766	.0014586	.7353	.0014558
%RSD	3.588135	8.632101	.6664582	12.45212	10.64337	.4998713	.2044416
#1	.0862476	-.025094	.3234624	-.032198	.0122775	146.5621	.7105507
#2	.0802727	-.023935	.3219828	-.032639	.0136441	146.7834	.7123364
#3	.0832583	-.021164	.3262350	-.025906	.0151929	147.9318	.7134352

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117141	.0271137	135.3327	.1818838	.2111962	.4221136	312.1235
Stddev	.0001194	.0000696	.1515	.0012551	.0009659	.0012318	1.4729
%RSD	1.018841	.2566012	.1119221	.6900629	.4573635	.2918205	.4718988
#1	.0116804	.0271613	135.1680	.1827044	.2121358	.4233307	313.8020
#2	.0116152	.0271460	135.4659	.1804390	.2102059	.4208676	311.0468
#3	.0118467	.0270339	135.3642	.1825080	.2112470	.4221424	311.5217

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.721446	70.79517	.3399454	.0272464	4.081285	.6643688	.7399430
Stddev	.012709	.31129	.0012011	.0001203	.004950	.0036885	.0013774
%RSD	.2221367	.4397077	.3533284	.4415305	.1212777	.5551924	.1861543
#1	5.708824	70.52845	.3408547	.0273517	4.083390	.6608579	.7398545
#2	5.721272	70.71985	.3385838	.0271153	4.084835	.6640362	.7413626
#3	5.734241	71.13721	.3403977	.0272721	4.075631	.6682124	.7386120

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.47192	.3781520	.0021385	.0277117	7.133409	5.435569	1.019509
Stddev	.03713	.0105399	.0002100	.0003485	.018832	.040852	.007648
%RSD	.2565813	2.787207	9.820694	1.257587	.2640030	.7515710	.7501691
#1	14.48365	.3900260	.0023808	.0274876	7.116069	5.394811	1.025795
#2	14.50177	.3745269	.0020263	.0281132	7.130714	5.476514	1.010994
#3	14.43034	.3699031	.0020085	.0275344	7.153443	5.435383	1.021738

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01DUP Acquired: 3/26/2024 17:02:20 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5903885	.0251746	.0872804	z *****
Stddev	.0039811	.0000677	.0022804	-----
%RSD	.6743193	.2689054	2.612671	-----
#1	.5947500	.0251079	.0846472	z 8006.264
#2	.5869499	.0251725	.0885991	z 7962.785
#3	.5894657	.0252433	.0885947	z 7983.556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4008.271	94994.38	15067.57	3108.991	4280.050
Stddev	12.689	143.17	112.74	20.243	11.914
%RSD	.3165790	.1507170	.7482007	.6511117	.2783570
#1	3994.622	95153.99	15173.03	3125.459	4267.452
#2	4019.711	94951.88	15080.93	3086.391	4291.136
#3	4010.480	94877.27	14948.75	3115.122	4281.562

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01LX5 Acquired: 3/26/2024 17:06:43 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184791**	**-.001781**	**.0626053**	**-.006854**	**.0027768**	**32.58205**	**.1614503**
Stddev	.0018909	.002120	.0013573	.005259	.0007971	.23687	.0017853
%RSD	10.23252	119.0566	2.168050	76.73219	28.70381	.7269804	1.105813
#1	.0192981	-.003680	.0621939	-.001223	.0027427	32.30880	.1593918
#2	.0198224	.000506	.0641208	-.007701	.0019974	32.72899	.1625765
#3	.0163168	-.002168	.0615013	-.011638	.0035904	32.70837	.1623826

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028553**	**.0022073**	**32.03237**	**.0480578**	**.0400005**	**.0999707**	**78.93674**
Stddev	.0000885	.0006541	.22596	.0052036	.0003355	.0024235	6.24503
%RSD	3.100011	29.63177	.7053969	10.82783	.8387746	2.424174	7.911431
#1	.0029547	.0014571	31.77241	.0540651	.0403199	.0972085	86.14508
#2	.0027849	.0026582	32.14309	.0451599	.0400308	.1017401	75.50632
#3	.0028263	.0025066	32.18162	.0449482	.0396509	.1009636	75.15881

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.370749**	**16.32176**	**.0661789**	**.0070332**	**.9539195**	**.1564362**	**.1821691**
Stddev	.012298	.11173	.0003372	.0003376	.0809937	.0024469	.0181096
%RSD	.8971395	.6845467	.5094785	4.799742	8.490625	1.564153	9.941089
#1	1.356550	16.19370	.0664805	.0073722	1.047421	.1542236	.2030621
#2	1.377967	16.37224	.0662413	.0070304	.908945	.1590642	.1724769
#3	1.377731	16.39934	.0658149	.0066970	.905393	.1560206	.1709682

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.317014**	**.1081560**	**.0004543**	**.0031238**	**1.614754**	**1.168090**	**.1846867**
Stddev	.264644	.0232361	.0001522	.0001195	.015383	.095105	.0018050
%RSD	7.978370	21.48390	33.50796	3.825212	.9526344	8.141945	.9773010
#1	3.622555	.1349694	.0005869	.0029882	1.596996	1.277787	.1858896
#2	3.168693	.0955852	.0004879	.0032138	1.623319	1.117713	.1855593
#3	3.159794	.0939134	.0002881	.0031692	1.623949	1.108771	.1826113

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01LX5 Acquired: 3/26/2024 17:06:43 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0974278	.0053834	.0135707	z *****	
Stddev	.0013671	.0000961	.0069038	-----	
%RSD	1.403242	1.785546	50.87246	-----	
#1	.0959836	.0053184	.0056050	z 3301.873	
#2	.0987021	.0054938	.0172841	z 3243.526	
#3	.0975977	.0053381	.0178230	z 3245.644	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.895	81311.00	13155.41	2682.251	4952.322
Stddev	16.155	6669.79	38.53	214.998	26.461
%RSD	.4390104	8.202817	.2929097	8.015565	.5343241
#1	3669.117	73616.02	13196.19	2434.369	4935.332
#2	3672.097	84881.55	13119.61	2794.364	4938.824
#3	3698.470	85435.42	13150.44	2818.019	4982.810

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01MS Acquired: 3/26/2024 17:11:04 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7353380	1.803586	1.211481	1.556777	.6730877	145.8370	.8619050
Stddev	.0016653	.022233	.002634	.005687	.0018945	3.7354	.0225410
%RSD	.2264708	1.232689	.2174571	.3653110	.2814561	2.561349	2.615251
#1	.7345817	1.820431	1.213899	1.552359	.6722845	143.1436	.8445602
#2	.7341849	1.778386	1.208673	1.554778	.6717272	144.2661	.8537707
#3	.7372472	1.811940	1.211869	1.563193	.6752515	150.1013	.8873841

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1698536	.2016682	134.4546	.4356070	.3806778	.6368753	315.2774
Stddev	.0029664	.0004589	2.8950	.0089719	.0007650	.0023568	3.3048
%RSD	1.746415	.2275715	2.153171	2.059625	.2009571	.3700545	1.048220
#1	.1686722	.2011385	132.3714	.4459544	.3798058	.6341587	319.0770
#2	.1676599	.2019481	133.2320	.4299941	.3809919	.6380943	313.0706
#3	.1732286	.2019179	137.7603	.4308726	.3812359	.6383729	313.6847

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.806766	71.46010	.7739886	.0884285	6.141091	.8765267	.9002340
Stddev	.139960	1.53898	.0008419	.0011697	.032262	.0205328	.0111520
%RSD	2.410287	2.153624	.1087795	1.322796	.5253529	2.342516	1.238788
#1	5.707114	70.45048	.7730291	.0897133	6.169253	.8625547	.9130714
#2	5.746407	70.69844	.7746037	.0874253	6.105891	.8669241	.8929398
#3	5.966778	73.23139	.7743330	.0881470	6.148129	.9001014	.8946907

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.59066	.6320303	.3245521	.6172468	7.174441	5.560246	1.524793
Stddev	.16286	.0181284	.0009255	.0027896	.193380	.038002	.002195
%RSD	.7209115	2.868279	.2851487	.4519481	2.695397	.6834518	.1439763
#1	22.75028	.6511169	.3241312	.6150157	7.031564	5.586486	1.525785
#2	22.42474	.6299311	.3239119	.6163502	7.097267	5.516667	1.522277
#3	22.59696	.6150429	.3256132	.6203745	7.394490	5.577583	1.526318

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01MS Acquired: 3/26/2024 17:11:04 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5673281	.0401004	.2466195	z *****
Stddev	.0021126	.0011512	.0164179	-----
%RSD	.3723846	2.870783	6.657179	-----
#1	.5657399	.0392492	.2320333	z 15271.56
#2	.5665186	.0396418	.2434255	z 15197.52
#3	.5697258	.0414103	.2643997	z 15198.06

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4014.449	93205.81	14997.26	3033.828	4320.163
Stddev	10.561	1140.26	283.67	29.635	10.451
%RSD	.2630793	1.223374	1.891471	.9768208	.2419065
#1	4021.288	91889.20	15181.69	2999.624	4326.473
#2	4019.773	93854.12	15139.47	3051.828	4325.916
#3	4002.285	93874.10	14670.61	3050.032	4308.100

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01MSD Acquired: 3/26/2024 17:15:20 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7292180**	**1.721894**	**1.200263**	**1.532858**	**.6577421**	**142.9866**	**.8391259**
Stddev	.0015363	.063190	.013644	.012219	.0072213	1.9587	.0094247
%RSD	.2106746	3.669822	1.136763	.7971582	1.097886	1.369836	1.123161
#1	.7297174	1.781401	1.216018	1.546864	.6660730	145.0675	.8483676
#2	.7274942	1.655573	1.192419	1.527333	.6532694	141.1787	.8295282
#3	.7304425	1.728710	1.192353	1.524376	.6538840	142.7137	.8394819

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1661306**	**.1987492**	**131.9947**	**.4328099**	**.3790126**	**.6385039**	**311.4148**
Stddev	.0016037	.0035162	2.0359	.0169765	.0044031	.0100985	10.0672
%RSD	.9652968	1.769147	1.542425	3.922397	1.161716	1.581590	3.232729
#1	.1678752	.2026989	133.8892	.4164353	.3840968	.6498051	301.0620
#2	.1647207	.1959599	129.8420	.4503303	.3764608	.6303647	321.1697
#3	.1657961	.1975889	132.2529	.4316641	.3764802	.6353419	312.0128

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.687840**	**70.45765**	**.7686660**	**.0867743**	**6.052913**	**.8493957**	**.8935367**
Stddev	.086355	1.35445	.0078854	.0028315	.225620	.0123122	.0370831
%RSD	1.518233	1.922365	1.025856	3.263106	3.727457	1.449522	4.150151
#1	5.771752	71.62878	.7777553	.0838897	5.835490	.8589599	.8549071
#2	5.599234	68.97437	.7636551	.0895496	6.285921	.8355040	.9288506
#3	5.692533	70.76979	.7645875	.0868837	6.037329	.8537231	.8968525

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.13025**	**.6096437**	**.3167910**	**.6051512**	**7.001346**	**5.036455**	**1.524668**
Stddev	.80162	.0461638	.0035647	.0071221	.091945	.168191	.015500
%RSD	3.622268	7.572265	1.125248	1.176905	1.313243	3.339462	1.016637
#1	21.34632	.5615628	.3208997	.6133750	7.096618	4.889532	1.542554
#2	22.94845	.6536158	.3145225	.6010193	6.913136	5.219908	1.516275
#3	22.09599	.6137525	.3149508	.6010593	6.994285	4.999923	1.515173

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-01MSD Acquired: 3/26/2024 17:15:20 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.5715090	.0391539	.2349028	z *****
Stddev	.0113132	.0002981	.0162597	-----
%RSD	1.979535	.7614330	6.921874	-----
#1	.5836897	.0394479	.2512532	z 15269.24
#2	.5613306	.0388518	.2187354	z 15403.38
#3	.5695068	.0391619	.2347198	z 15309.20

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3982.470	94112.59	15070.64	3069.474	4287.873
Stddev	26.248	3118.34	239.46	109.158	37.737
%RSD	.6590942	3.313411	1.588891	3.556232	.8800894
#1	3952.184	97172.00	14830.75	3180.166	4244.367
#2	3998.633	90938.49	15309.66	2961.919	4311.761
#3	3996.594	94227.29	15071.54	3066.335	4307.490

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-010A Acquired: 3/26/2024 17:19:34 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7591482**	**1.780589**	**1.249560**	**1.604749**	**.6908979**	**145.8466**	**.8654887**
Stddev	.0039435	.061341	.000145	.003120	.0051930	.8851	.0039603
%RSD	.5194701	3.444989	.0116213	.1944332	.7516344	.6068674	.4575856
#1	.7561184	1.845548	1.249682	1.608336	.6923610	146.2842	.8671110
#2	.7577193	1.772564	1.249399	1.603247	.6851303	146.4277	.8683803
#3	.7636071	1.723656	1.249598	1.602664	.6952025	144.8280	.8609748

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1795690**	**.2077789**	**134.8604**	**.4438820**	**.3895238**	**.6582506**	**304.4686**
Stddev	.0007050	.0004878	.4414	.0031300	.0010786	.0011446	2.2218
%RSD	.3926149	.2347708	.3273006	.7051521	.2768963	.1738860	.7297211
#1	.1799243	.2072925	134.6935	.4474956	.3886697	.6569585	307.0323
#2	.1800257	.2077761	135.3609	.4421361	.3891657	.6586560	303.2704
#3	.1787571	.2082681	134.5268	.4420144	.3907358	.6591374	303.1032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.800554**	**73.61747**	**.7932291**	**.0871387**	**6.048080**	**.8709357**	**.9033891**
Stddev	.021950	.52926	.0016921	.0009903	.055666	.0019018	.0118780
%RSD	.3784145	.7189347	.2133159	1.136410	.9203947	.2183568	1.314830
#1	5.802435	73.47871	.7914165	.0882755	6.112307	.8728796	.9170165
#2	5.821502	74.20229	.7935036	.0866769	6.013738	.8708484	.8952313
#3	5.777723	73.17141	.7947671	.0864638	6.018197	.8690791	.8979194

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.99453**	**.5780234**	**.3310808**	**.6394778**	**7.139314**	**5.595257**	**1.561096**
Stddev	.15338	.0087055	.0013015	.0009095	.041956	.063156	.001769
%RSD	.6973497	1.506080	.3930980	.1422302	.5876700	1.128739	.1133288
#1	22.16745	.5880245	.3321391	.6401034	7.160249	5.667768	1.559541
#2	21.94123	.5721454	.3296276	.6384344	7.166683	5.552269	1.563021
#3	21.87492	.5739004	.3314756	.6398955	7.091011	5.565735	1.560727

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1847-010A Acquired: 3/26/2024 17:19:34 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.5771450	.0403786	.2571695	z *****	
Stddev	.0007758	.0002086	.0027619	-----	
%RSD	.1344181	.5165374	1.073952	-----	
#1	.5780255	.0403366	.2555594	z 15609.43	
#2	.5768477	.0406049	.2603586	z 15561.50	
#3	.5765619	.0401942	.2555904	z 15540.99	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3965.353	93994.78	14568.59	3052.658	4263.737
Stddev	4.998	661.54	61.06	29.150	6.466
%RSD	.1260292	.7038081	.4190902	.9548949	.1516537
#1	3968.272	93231.02	14581.94	3019.154	4271.200
#2	3968.203	94364.64	14501.97	3072.204	4259.828
#3	3959.582	94388.68	14621.87	3066.615	4260.182

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV04 Acquired: 3/26/2024 17:23:47 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.728030**	F **4.362130**	**4.522782**	**4.674343**	**4.897471**	**9.551196**
Stddev	.001898	.064472	.008486	.014689	.011704	.041231
%RSD	.0401359	1.477999	.1876292	.3142490	.2389717	.4316876
#1	4.728609	4.287852	4.523847	4.663001	4.886795	9.504098
#2	4.729571	4.394942	4.530685	4.669092	4.895634	9.580774
#3	4.725910	4.403596	4.513814	4.690936	4.909985	9.568716

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.979816**	**.2588911**	F **2.220841**	**26.48366**	**.9683920**	**2.279864**
Stddev	.073982	.0009660	.005186	.08295	.0043566	.003990
%RSD	.7413126	.3731392	.2335320	.3132031	.4498752	.1750020
#1	9.958451	.2592030	2.220678	26.40196	.9662400	2.279962
#2	10.06213	.2596627	2.226107	26.56780	.9734059	2.283804
#3	9.91887	.2578077	2.215738	26.48121	.9655303	2.275826

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.217511**	**4.627570**	**2.511738**	**26.67072**	**2.306848**	**1.206001**
Stddev	.000687	.017970	.007021	.15214	.003774	.002346
%RSD	.0564021	.3883277	.2795375	.5704312	.1636074	.1945630
#1	1.217108	4.611630	2.503940	26.49695	2.308313	1.205400
#2	1.217121	4.647045	2.517558	26.77997	2.309671	1.208589
#3	1.218304	4.624035	2.513716	26.73523	2.302561	1.204013

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.64075**	**2.349527**	**2.417254**	**23.90415**	**4.978536**	**4.856380**
Stddev	.16674	.015632	.004860	.05340	.031918	.003656
%RSD	.7053061	.6653139	.2010623	.2233791	.6411195	.0752915
#1	23.48485	2.331981	2.416958	23.87319	4.989746	4.852447
#2	23.62087	2.354632	2.422255	23.87345	5.003336	4.857017
#3	23.81654	2.361968	2.412548	23.96581	4.942525	4.859676

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV04 Acquired: 3/26/2024 17:23:47 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.281421	4.655654	F 4.237903	F 4.391581	F 4.379938	4.696616
Stddev	.006150	.012586	.051826	.016096	.012217	.034620
%RSD	.1436429	.2703293	1.222911	.3665276	.2789371	.7371220
#1	4.274940	4.642167	4.199631	4.400484	4.366825	4.656719
#2	4.287175	4.657711	4.217197	4.401259	4.391000	4.718735
#3	4.282147	4.667085	4.296881	4.373000	4.381989	4.714393

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.301687	z *****
Stddev	.063176	-----
%RSD	1.191627	-----
#1	5.371988	z 21210.82
#2	5.249669	z 21344.59
#3	5.283403	z 21268.80

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.580	77159.87	11460.28	2553.113	4453.259
Stddev	7.403	284.34	74.99	11.567	13.347
%RSD	.2221526	.3685137	.6543606	.4530662	.2997224
#1	3324.592	76834.50	11386.44	2539.850	4441.553
#2	3333.936	77284.42	11458.02	2561.114	4450.430
#3	3339.212	77360.68	11536.37	2558.375	4467.794

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB04 Acquired: 3/26/2024 17:28:13 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001871**	**.0005382**	**.0000357**	**.0007290**	**.0011217**	**-.000654**	**-.003202**
Stddev	.002441	.0009894	.0009688	.0018384	.0007973	.002631	.000093
%RSD	130.4187	183.8355	2715.603	252.1740	71.07870	402.3687	2.915654
#1	.000880	.0016196	.0011525	.0024545	.0011620	-.003102	-.003219
#2	-.002718	.0003166	-.000467	-.001205	.0018980	-.000987	-.003101
#3	-.003776	-.000322	-.000578	.000937	.0003050	.002128	-.003285

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000449**	**.0000283**	**.0139852**	**-.000146**	**.0000265**	**.0002999**	**.0152511**
Stddev	.0000196	.0000503	.0026484	.000114	.0001280	.0001233	.0037356
%RSD	43.54361	177.7282	18.93703	78.22506	483.5177	41.13317	24.49411
#1	.0000609	.0000187	.0161498	-.000016	.0001710	.0003863	.0173625
#2	.0000231	.0000826	.0110321	-.000194	-.000019	.0003547	.0174528
#3	.0000508	-.000017	.0147736	-.000228	-.000072	.0001586	.0109379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004579**	**.0118453**	**-.000072**	**.0002796**	**.0362473**	**-.001291**	**.0003720**
Stddev	.0000554	.0069836	.000235	.0000048	.0066490	.000597	.0000650
%RSD	12.10620	58.95617	327.7565	1.729674	18.34343	46.22091	17.48606
#1	.0004720	.0099722	.000083	.0002746	.0430221	-.001427	.0002993
#2	.0005051	.0195745	-.000342	.0002843	.0297318	-.000638	.0004246
#3	.0003969	.0059894	.000044	.0002800	.0359879	-.001808	.0003920

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0476918**	**.0032032**	**.0005301**	**-.000900**	**.0188546**	**-.002497**	**.0004933**
Stddev	.0046330	.0000834	.0002138	.000677	.0001239	.008534	.0002814
%RSD	9.714539	2.602462	40.32380	75.22427	.6570800	341.7747	57.03417
#1	.0424459	.0031491	.0004024	-.001212	.0188411	.005051	.0008167
#2	.0512230	.0031613	.0007769	-.000123	.0187380	-.000785	.0003590
#3	.0494066	.0032992	.0004111	-.001364	.0189846	-.011758	.0003044

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB04 Acquired: 3/26/2024 17:28:13 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0004504	.0000765	.0003741	z *****	
Stddev	.0002031	.0000939	.0000258	-----	
%RSD	45.09698	122.8173	6.905510	-----	
#1	.0006689	.0000117	.0003648	z 1840.559	
#2	.0004152	.0000335	.0004034	z 1853.135	
#3	.0002672	.0001841	.0003543	z 1830.908	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3766.828	87588.04	12151.06	2850.804	5617.437
Stddev	76.290	154.46	45.40	11.330	112.827
%RSD	2.025305	.1763526	.3736385	.3974394	2.008522
#1	3751.907	87414.97	12103.09	2840.961	5583.398
#2	3699.102	87711.92	12156.71	2863.190	5525.548
#3	3849.476	87637.24	12193.37	2848.261	5743.365

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04DUP Acquired: 3/26/2024 17:32:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003741**	**-.003855**	**.0173064**	**-.001979**	**.0027893**	**.4883324**
Stddev	.001327	.001757	.0012469	.002051	.0015700	.0023184
%RSD	35.47079	45.58727	7.204701	103.6195	56.28401	.4747598
#1	-.005220	-.002689	.0187045	-.003323	.0044491	.4879525
#2	-.002656	-.003000	.0169054	-.002996	.0013282	.4862273
#3	-.003346	-.005877	.0163094	.000381	.0025907	.4908172

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2021552**	**.0000093**	**.0001746**	**115.3931**	**.0049090**	**.0124687**
Stddev	.0014758	.0000053	.0001184	.8761	.0001671	.0000842
%RSD	.7300588	57.71072	67.79500	.7592355	3.403624	.6754607
#1	.2004902	.0000120	.0001464	114.4182	.0050545	.0123760
#2	.2026733	.0000031	.0003046	115.6464	.0049459	.0124897
#3	.2033022	.0000126	.0000730	116.1146	.0047265	.0125404

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064364**	**2.934636**	**4.555282**	**24.41567**	**.0156771**	**.0008305**
Stddev	.0002549	.007812	.032543	.29763	.0004839	.0000770
%RSD	3.960418	.2662082	.7144090	1.219010	3.086840	9.269857
#1	.0067234	2.931542	4.520969	24.08337	.0161327	.0008532
#2	.0063495	2.928845	4.559172	24.50587	.0151691	.0007447
#3	.0062364	2.943522	4.585705	24.65776	.0157295	.0008936

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**459.3156**	**.0004820**	**.1043785**	**8.271669**	**.5211236**	**.0127849**
Stddev	4.0654	.0023159	.0004988	.061710	.0029021	.0001044
%RSD	.8851073	480.5243	.4778716	.7460445	.5568844	.8162276
#1	455.9009	.0007941	.1046096	8.203500	.5180612	.0128154
#2	463.8127	-.001974	.1047197	8.287782	.5214764	.0126687
#3	458.2332	.002626	.1038060	8.323723	.5238331	.0128707

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04DUP Acquired: 3/26/2024 17:32:40 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0501544**	**.0364936**	F **12.15154**	**.0074112**	**4.190913**	**.0072445**
Stddev	.0008542	.0010426	.04827	.0004294	.018846	.0005278
%RSD	1.703153	2.856915	.3971944	5.793579	.4496869	7.285136
#1	.0510039	.0353789	12.09970	.0079045	4.169689	.0066555
#2	.0492956	.0374447	12.15975	.0071217	4.197364	.0074034
#3	.0501637	.0366571	12.19518	.0072073	4.205687	.0076745

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.5719709**	z *****
Stddev	.0035151	-----
%RSD	.6145546	-----
#1	.5679561	z 2148.440
#2	.5734620	z 2143.456
#3	.5744947	z 2170.494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3100.946**	**71449.74**	**11221.62**	**2348.555**	**4084.335**
Stddev	4.632	245.48	19.31	11.492	.762
%RSD	.1493787	.3435732	.1720542	.4893197	.0186578
#1	3099.901	71185.22	11241.95	2337.731	4085.190
#2	3096.926	71493.78	11219.36	2347.318	4083.727
#3	3106.011	71670.22	11203.54	2360.615	4084.088

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04LX5 Acquired: 3/26/2024 17:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001945**	**-.000521**	**.0026945**	**.0011153**	**.0023256**	**.1094947**	**.0383355**
Stddev	.000743	.001451	.0009201	.0006228	.0002742	.0043318	.0005902
%RSD	38.19544	278.6551	34.14785	55.84335	11.79046	3.956136	1.539707
#1	-.001146	-.001345	.0021665	.0006195	.0023480	.1102944	.0377570
#2	-.002074	-.001372	.0037570	.0018144	.0025879	.1133708	.0383126
#3	-.002616	.001155	.0021601	.0009121	.0020409	.1048188	.0389369

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000645**	**.0000605**	**24.01155**	**.0005889**	**.0026306**	**.0013537**	**.5717555**
Stddev	.0000245	.0000851	.19943	.0000962	.0001365	.0005151	.0061816
%RSD	38.05017	140.7727	.8305507	16.33125	5.187222	38.05142	1.081164
#1	.0000395	-.000006	23.79035	.0006360	.0025952	.0010553	.5729838
#2	.0000653	.000030	24.06668	.0004783	.0025153	.0019485	.5650520
#3	.0000886	.000157	24.17761	.0006524	.0027812	.0010573	.5772308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9565011**	**5.106794**	**.0034587**	**.0005109**	**90.05776**	**.0003361**	**.0215899**
Stddev	.0052189	.056408	.0001426	.0001653	.42995	.0012068	.0002387
%RSD	.5456281	1.104575	4.123549	32.34556	.4774200	359.0106	1.105472
#1	.9506979	5.047579	.0035131	.0005303	89.63777	.0017205	.0218617
#2	.9579956	5.112907	.0035661	.0006656	90.03849	-.000218	.0214147
#3	.9608098	5.159898	.0032969	.0003368	90.49703	-.000494	.0214933

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.531900**	**.1072630**	**.0027418**	**.0092973**	**.0216744**	**2.298593**	**.0022460**
Stddev	.022707	.0009976	.0001314	.0001440	.0008572	.010135	.0002463
%RSD	1.482276	.9300792	4.794032	1.548548	3.955090	.4409190	10.96465
#1	1.505753	.1061686	.0026295	.0094561	.0211188	2.286937	.0022542
#2	1.546663	.1081216	.0028864	.0092605	.0226617	2.303518	.0024881
#3	1.543284	.1074988	.0027096	.0091753	.0212428	2.305324	.0019958

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04LX5 Acquired: 3/26/2024 17:37:09 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.7731559	.0010486	.1149020	z *****
Stddev	.0028041	.0002269	.0010551	-----
%RSD	.3626756	21.63352	.9182551	-----
#1	.7726371	.0009824	.1136966	z 2011.466
#2	.7761831	.0008623	.1153512	z 2010.898
#3	.7706474	.0013013	.1156581	z 1981.854

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3453.456	79567.81	11579.43	2646.198	4786.749
Stddev	14.993	37.95	63.85	13.414	4.127
%RSD	.4341338	.0476893	.5514038	.5069172	.0862128
#1	3450.253	79607.68	11653.09	2651.093	4787.381
#2	3469.791	79563.61	11545.27	2656.477	4790.523
#3	3440.324	79532.15	11539.93	2631.024	4782.342

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04MS Acquired: 3/26/2024 17:41:33 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8319620**	**1.794640**	**.9492738**	**1.972151**	**.8174991**	**2.512694**
Stddev	.0038663	.011906	.0023336	.009619	.0034600	.012852
%RSD	.4647256	.6634451	.2458321	.4877255	.4232402	.5114802
#1	.8304732	1.781807	.9511747	1.961994	.8156679	2.499320
#2	.8363514	1.805328	.9466693	1.981121	.8214898	2.513813
#3	.8290614	1.796785	.9499773	1.973337	.8153396	2.524951

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4093069**	**.2135079**	**.1880139**	**118.6403**	**.3558729**	**.1996372**
Stddev	.0010208	.0031868	.0004953	1.0493	.0110544	.0004837
%RSD	.2494010	1.492589	.2634510	.8844479	3.106266	.2422993
#1	.4082498	.2115397	.1884352	117.5383	.3543179	.1998907
#2	.4093838	.2117994	.1874682	118.7552	.3456784	.1990794
#3	.4102871	.2171846	.1881381	119.6274	.3676225	.1999414

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2906658**	**5.906280**	**4.830740**	**26.68811**	**.4879181**	**.0795627**
Stddev	.0007596	.137246	.038653	.40467	.0004451	.0024145
%RSD	.2613131	2.323726	.8001385	1.516282	.0912318	3.034705
#1	.2898522	5.858260	4.790089	26.22972	.4883273	.0790886
#2	.2907889	5.799497	4.835109	26.83876	.4874442	.0774205
#3	.2913563	6.061084	4.867023	26.99584	.4879828	.0821791

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**468.8153**	**.2904683**	**.3181730**	**18.93718**	**.8289791**	**.4198181**
Stddev	12.8713	.0015503	.0104511	.44272	.0088998	.0006558
%RSD	2.745493	.5337369	3.284709	2.337856	1.073584	.1562203
#1	465.4085	.2911781	.3189717	18.85878	.8235910	.4193716
#2	457.9901	.2886901	.3073455	18.53889	.8240947	.4205711
#3	483.0473	.2915367	.3282018	19.41386	.8392515	.4195117

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04MS Acquired: 3/26/2024 17:41:33 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6696537	.2286529	F 13.15753	.6644316	4.064115	.0266549
Stddev	.0019180	.0003934	.35053	.0040850	.007114	.0004499
%RSD	.2864132	.1720460	2.664128	.6148133	.1750529	1.688017
#1	.6715672	.2284750	13.07328	.6653101	4.072099	.0262152
#2	.6677313	.2283800	12.85679	.6599788	4.061799	.0266350
#3	.6696628	.2291039	13.54250	.6680059	4.058447	.0271144

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.7901159	z *****
Stddev	.0020366	-----
%RSD	.2577641	-----
#1	.7883225	z 9506.929
#2	.7896951	z 9505.229
#3	.7923301	z 9618.971

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3189.932	70394.59	11009.55	2346.193	4157.182
Stddev	9.860	1663.74	60.51	54.223	11.913
%RSD	.3091041	2.363448	.5496532	2.311124	.2865591
#1	3180.765	70439.63	11033.10	2329.105	4143.427
#2	3188.666	72035.36	11054.74	2406.902	4164.079
#3	3200.363	68708.79	10940.80	2302.572	4164.042

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04MSD Acquired: 3/26/2024 17:45:50 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8066452**	**1.725162**	**.9221467**	**1.917559**	**.8020800**	**2.401629**
Stddev	.0018057	.037617	.0054836	.009527	.0013915	.006529
%RSD	.2238582	2.180469	.5946512	.4968073	.1734892	.2718473
#1	.8067495	1.755256	.9209875	1.926943	.8036100	2.406385
#2	.8083965	1.737240	.9281171	1.917836	.8008899	2.404316
#3	.8047895	1.682990	.9173353	1.907896	.8017402	2.394185

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3961263**	**.2008440**	**.1832357**	**114.8674**	**.3380324**	**.1943630**
Stddev	.0009440	.0009200	.0009733	.2271	.0003609	.0006863
%RSD	.2383045	.4580572	.5311890	.1977396	.1067703	.3531053
#1	.3953034	.2018874	.1831195	114.6204	.3378825	.1946136
#2	.3959188	.2001496	.1842618	114.9143	.3384442	.1948887
#3	.3971568	.2004949	.1823256	115.0674	.3377707	.1935866

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2826486**	**5.733802**	**4.684645**	**25.87793**	**.4744425**	**.0762048**
Stddev	.0004736	.056902	.008650	.15534	.0022600	.0006191
%RSD	.1675741	.9923963	.1846506	.6002910	.4763428	.8123810
#1	.2826097	5.675409	4.674790	25.72189	.4746070	.0762868
#2	.2831405	5.789085	4.688165	25.87933	.4766156	.0767787
#3	.2821957	5.736913	4.690981	26.03257	.4721047	.0755488

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**455.5506**	**.2789736**	**.3061733**	**18.48909**	**.7936963**	**.4108263**
Stddev	4.8686	.0016493	.0014095	.13416	.0064112	.0015747
%RSD	1.068734	.5912213	.4603722	.7256030	.8077660	.3832987
#1	449.9454	.2772365	.3077995	18.33429	.8006448	.4123324
#2	457.9789	.2791658	.3054196	18.56150	.7880102	.4109556
#3	458.7274	.2805184	.3053009	18.57149	.7924339	.4091910

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04MSD Acquired: 3/26/2024 17:45:50 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6568540**	**.2183631**	F **12.86320**	**.6489520**	**4.027311**	**.0256659**
Stddev	.0033241	.0019180	.12409	.0018051	.021952	.0005338
%RSD	.5060611	.8783292	.9646928	.2781488	.5450831	2.079709
#1	.6566224	.2190201	12.72077	.6477639	4.039023	.0251224
#2	.6602879	.2162031	12.94795	.6510292	4.040924	.0256861
#3	.6536519	.2198663	12.92088	.6480630	4.001987	.0261893

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	**.7660226**	z *****
Stddev	.0022536	-----
%RSD	.2941953	-----
#1	.7651803	z 9359.218
#2	.7643115	z 9351.615
#3	.7685761	z 9371.593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.147**	**72583.35**	**11477.63**	**2418.981**	**4202.208**
Stddev	12.566	293.04	66.18	18.585	20.239
%RSD	.3897407	.4037265	.5765677	.7682943	.4816180
#1	3211.574	72549.61	11402.45	2402.050	4187.778
#2	3224.161	72308.64	11503.37	2416.026	4193.504
#3	3236.706	72891.79	11527.07	2438.866	4225.343

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04A Acquired: 3/26/2024 17:50:08 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8242552**	**1.765979**	**.9458890**	**1.940711**	**.8075871**	**2.403530**
Stddev	.0007821	.019832	.0020055	.009282	.0037973	.021902
%RSD	.0948825	1.123003	.2120175	.4782747	.4702010	.9112565
#1	.8251415	1.786848	.9451610	1.948356	.8073006	2.381641
#2	.8239622	1.763709	.9481568	1.943393	.8115195	2.403504
#3	.8236620	1.747380	.9443492	1.930383	.8039412	2.425445

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3960029**	**.2062886**	**.1869571**	**116.8195**	**.3427285**	**.1986743**
Stddev	.0023461	.0016487	.0003648	1.1723	.0026294	.0001900
%RSD	.5924346	.7992272	.1951209	1.003490	.7672014	.0956179
#1	.3939605	.2044815	.1872255	115.6768	.3396940	.1988292
#2	.3954828	.2066733	.1871041	116.7625	.3441571	.1984624
#3	.3985653	.2077109	.1865418	118.0193	.3443343	.1987314

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2882774**	**5.715482**	**4.746681**	**26.56931**	**.4856154**	**.0764078**
Stddev	.0007664	.042119	.044228	.43594	.0016249	.0002242
%RSD	.2658449	.7369286	.9317731	1.640753	.3345980	.2934302
#1	.2885293	5.676634	4.700905	26.10881	.4870129	.0761500
#2	.2888862	5.709564	4.749958	26.62350	.4860008	.0765572
#3	.2874168	5.760246	4.789180	26.97561	.4838325	.0765162

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**453.5910**	**.2795583**	**.3069813**	**18.27637**	**.8145507**	**.4154892**
Stddev	.8510	.0045285	.0011922	.08270	.0061172	.0011498
%RSD	.1876180	1.619867	.3883712	.4525135	.7509857	.2767435
#1	452.8450	.2744285	.3057119	18.21696	.8079523	.4164982
#2	454.5180	.2830012	.3071547	18.24132	.8156669	.4157322
#3	453.4101	.2812453	.3080774	18.37083	.8200329	.4142373

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1828-04A Acquired: 3/26/2024 17:50:08 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6697476	.2187246	F 12.81976	.6669898	4.138337	.0255346
Stddev	.0003855	.0016031	.09622	.0006930	.014379	.0003987
%RSD	.0575560	.7329370	.7505459	.1038963	.3474662	1.561245
#1	.6700536	.2171373	12.73211	.6677307	4.152465	.0251206
#2	.6698745	.2186934	12.80445	.6663575	4.138828	.0255674
#3	.6693147	.2203431	12.92271	.6668812	4.123719	.0259159

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.7679913	z *****
Stddev	.0037279	-----
%RSD	.4854162	-----
#1	.7653723	z 9349.091
#2	.7663423	z 9413.902
#3	.7722594	z 9360.267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3168.596	71775.66	11155.87	2412.291	4108.684
Stddev	9.525	135.91	67.14	6.705	14.287
%RSD	.3006117	.1893594	.6018605	.2779365	.3477160
#1	3158.343	71762.28	11206.92	2411.137	4094.714
#2	3170.275	71917.76	11180.88	2419.498	4108.072
#3	3177.170	71646.92	11079.82	2406.238	4123.267

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01DUPDLX10 Acquired: 3/26/2024 17:54:26 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058903	.0019587	.0123171	-.002123	.0013033	9.092092	.0148484
Stddev	.0012132	.0008808	.0005782	.000982	.0008053	.084404	.0004077
%RSD	20.59695	44.96884	4.694451	46.26790	61.78902	.9283211	2.745749
#1	.0046920	.0011767	.0128552	-.003251	.0003920	8.996893	.0147071
#2	.0058610	.0017865	.0123904	-.001663	.0019192	9.121610	.0153079
#3	.0071179	.0029128	.0117058	-.001455	.0015988	9.157772	.0145301

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010776	.0003123	8.711559	.0221925	.0101382	.0356961	17.65566
Stddev	.0001051	.0000803	.097058	.0006762	.0002444	.0002120	.04406
%RSD	9.751857	25.71851	1.114126	3.046818	2.410296	.5939112	.2495784
#1	.0010231	.0003148	8.600819	.0219222	.0100027	.0354711	17.65240
#2	.0011988	.0003914	8.752005	.0229620	.0104203	.0358921	17.61331
#3	.0010111	.0002308	8.781852	.0216933	.0099915	.0357252	17.70126

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3993199	8.613429	.0224736	.0016867	.2800478	.0347441	.0598691
Stddev	.0035353	.059079	.0001670	.0002393	.0115765	.0007734	.0002158
%RSD	.8853314	.6858988	.7429488	14.18501	4.133762	2.225853	.3605322
#1	.3952836	8.546384	.0225688	.0015670	.2677229	.0343811	.0596311
#2	.4008097	8.657867	.0225712	.0015309	.2817282	.0356322	.0599242
#3	.4018666	8.636035	.0222808	.0019622	.2906922	.0342191	.0600521

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.540530	.0164001	-.000098	-.000397	.4446935	.6661775	.0417964
Stddev	.013005	.0005416	.000190	.000356	.0059028	.0058421	.0000638
%RSD	.8442008	3.302586	194.0207	89.61532	1.327383	.8769568	.1527226
#1	1.549787	.0169287	.000104	-.000571	.4394932	.6728352	.0417606
#2	1.525661	.0158463	-.000273	-.000633	.4434778	.6619072	.0418701
#3	1.546141	.0164254	-.000124	.000012	.4511095	.6637902	.0417585

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01DUPDLX10 Acquired: 3/26/2024 17:54:26 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0067025	.0025195	.0018939	z *****
Stddev	.0000921	.0000817	.0001809	-----
%RSD	1.374691	3.241621	9.552581	-----
#1	.0067112	.0024329	.0016850	z 2289.495
#2	.0066064	.0025306	.0020019	z 2294.289
#3	.0067900	.0025951	.0019947	z 2271.568

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.062	86677.61	12377.29	2887.996	5264.627
Stddev	33.074	74.77	100.87	6.785	45.058
%RSD	.8897903	.0862678	.8149714	.2349509	.8558697
#1	3753.596	86655.24	12490.96	2887.091	5313.216
#2	3689.161	86616.58	12298.46	2895.189	5224.222
#3	3708.428	86761.02	12342.44	2881.709	5256.442

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01LDLX50 Acquired: 3/26/2024 17:58:49 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002331	.0016366	.0021981	-.001230	.0002229	1.818700	.0007073
Stddev	.0016220	.0012426	.0008187	.000621	.0010046	.009161	.0005876
%RSD	695.8035	75.92843	37.24662	50.52947	450.6847	.5037141	83.07210
#1	.0014194	.0018512	.0013976	-.000513	.0013139	1.808289	.0003598
#2	.0008952	.0027579	.0021629	-.001550	.0000185	1.822284	.0013857
#3	-.001615	.0003006	.0030339	-.001625	-.000664	1.825528	.0003764

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002077	.0000128	1.748464	.0039537	.0018651	.0070224	3.422749
Stddev	.0000349	.0000438	.008200	.0001440	.0000067	.0000493	.004650
%RSD	16.79421	342.4415	.4689659	3.642706	.3571333	.7026192	.1358542
#1	.0002310	-.000037	1.743690	.0040607	.0018595	.0069770	3.424096
#2	.0002245	.000045	1.743770	.0040104	.0018725	.0070154	3.417574
#3	.0001676	.000030	1.757932	.0037899	.0018633	.0070749	3.426577

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0802134	1.699292	.0041303	.0004289	.0985463	.0053731	.0116943
Stddev	.0001536	.020943	.0000174	.0000713	.0017780	.0006410	.0001677
%RSD	.1914472	1.232452	.4200712	16.62576	1.804196	11.93039	1.434115
#1	.0800371	1.675197	.0041246	.0003973	.1005734	.0046974	.0118126
#2	.0803177	1.709557	.0041164	.0003789	.0978147	.0054493	.0115024
#3	.0802854	1.713122	.0041497	.0005106	.0972509	.0059726	.0117680

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3237392	-.000195	-.000048	-.000848	.1039313	.1179111	.0076953
Stddev	.0201409	.000252	.000186	.000325	.0015702	.0022370	.0000983
%RSD	6.221338	129.6075	385.6331	38.35451	1.510779	1.897227	1.277247
#1	.3461609	-.000001	-.000027	-.000938	.1023508	.1159552	.0077750
#2	.3071798	-.000103	.000126	-.000488	.1039521	.1203503	.0077255
#3	.3178768	-.000480	-.000244	-.001119	.1054910	.1174279	.0075855

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01LDLX50 Acquired: 3/26/2024 17:58:49 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0011534	.0003496	.0004383	z *****
Stddev	.0002663	.0001336	.0000172	-----
%RSD	23.08641	38.20210	3.916670	-----
#1	.0014283	.0003381	.0004366	z 1989.215
#2	.0008967	.0004886	.0004221	z 1988.513
#3	.0011351	.0002222	.0004563	z 2005.279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.369	88495.21	12201.71	2933.414	5583.221
Stddev	5.257	173.58	63.12	2.193	5.781
%RSD	.1375730	.1961418	.5172841	.0747578	.1035482
#1	3826.203	88688.39	12270.42	2930.898	5589.623
#2	3822.132	88444.86	12188.40	2934.919	5581.659
#3	3815.772	88352.37	12146.31	2934.425	5578.381

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01MSDLX10 Acquired: 3/26/2024 18:03:14 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0841706	.1798659	.1039514	.1781628	.0764240	9.113411	.0337275
Stddev	.0016560	.0022923	.0012998	.0024623	.0005935	.010560	.0004980
%RSD	1.967481	1.274445	1.250424	1.382051	.7765891	.1158758	1.476695
#1	.0848795	.1824396	.1048059	.1801491	.0758405	9.110226	.0331702
#2	.0822781	.1780437	.1024556	.1754079	.0770270	9.104810	.0338830
#3	.0853542	.1791144	.1045929	.1789315	.0764044	9.125197	.0341292

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214180	.0175731	8.648402	.0550086	.0271367	.0629244	17.48471
Stddev	.0000196	.0000757	.011991	.0007758	.0002286	.0000774	.25356
%RSD	.0916297	.4309526	.1386520	1.410397	.8424739	.1230896	1.450160
#1	.0214377	.0176597	8.662229	.0553848	.0273590	.0628606	17.50404
#2	.0214178	.0175405	8.640855	.0541164	.0269022	.0630106	17.22204
#3	.0213984	.0175192	8.642123	.0555246	.0271490	.0629020	17.72805

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4123522	8.569984	.0658248	.0088012	.3979210	.0622455	.0756655
Stddev	.0003759	.014414	.0001691	.0002073	.0007069	.0012688	.0010860
%RSD	.0911590	.1681861	.2569139	2.355727	.1776574	2.038388	1.435214
#1	.4124282	8.569189	.0660073	.0086232	.3977194	.0618299	.0758062
#2	.4126844	8.584779	.0656734	.0087516	.3987068	.0636700	.0745161
#3	.4119442	8.555985	.0657936	.0090289	.3973368	.0612366	.0766743

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.281038	.0431916	.0405897	.0590853	.4551554	.7022893	.0916298
Stddev	.035629	.0005886	.0000857	.0007763	.0011832	.0125513	.0003994
%RSD	1.561982	1.362771	.2112228	1.313949	.2599599	1.787195	.4358851
#1	2.295952	.0436384	.0406823	.0597792	.4539903	.7111253	.0917738
#2	2.240375	.0425247	.0405131	.0592299	.4551199	.6879225	.0919373
#3	2.306787	.0434117	.0405737	.0582468	.4563559	.7078202	.0911784

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01MSDLX10 Acquired: 3/26/2024 18:03:14 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0057706	.0042430	.0221781	z *****	
Stddev	.0001171	.0000807	.0001572	-----	
%RSD	2.029515	1.902555	.7089325	-----	
#1	.0056928	.0042667	.0222112	z 3147.409	
#2	.0059053	.0043093	.0223161	z 3143.180	
#3	.0057138	.0041531	.0220069	z 3146.826	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.548	86265.29	12259.52	2869.385	5334.955
Stddev	6.884	1117.01	44.83	42.423	6.615
%RSD	.1831518	1.294859	.3656755	1.478453	.1239854
#1	3765.788	85948.19	12223.36	2858.928	5342.177
#2	3752.087	87506.56	12245.51	2916.059	5333.498
#3	3757.770	85341.10	12309.68	2833.170	5329.191

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01MSDDLX10 Acquired: 3/26/2024 18:07:38 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0816012	.1860862	.1033853	.1807842	.0758191	8.990345	.0328391
Stddev	.0014439	.0032956	.0012427	.0019677	.0002321	.216120	.0007456
%RSD	1.769457	1.771013	1.201965	1.088416	.3061195	2.403909	2.270404
#1	.0810773	.1849453	.1035044	.1805716	.0756949	8.802504	.0321153
#2	.0804924	.1898007	.1020874	.1789315	.0760868	8.941981	.0327973
#3	.0832340	.1835126	.1045641	.1828496	.0756755	9.226549	.0336047

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212137	.0176445	8.464794	.0556364	.0272621	.0636982	17.65922
Stddev	.0004449	.0000626	.218612	.0018568	.0000917	.0002514	.34153
%RSD	2.097106	.3548244	2.582603	3.337345	.3361763	.3946057	1.934004
#1	.0210080	.0176476	8.284711	.0577773	.0273317	.0639876	18.04442
#2	.0209090	.0177056	8.401639	.0546662	.0271583	.0635347	17.39340
#3	.0217243	.0175805	8.708031	.0544658	.0272964	.0635722	17.53985

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4047733	8.490435	.0662186	.0086094	.3922641	.0606932	.0771933
Stddev	.0111244	.223598	.0001616	.0000635	.0112607	.0016432	.0016454
%RSD	2.748308	2.633528	.2441032	.7370790	2.870687	2.707402	2.131480
#1	.3957047	8.304537	.0662895	.0086584	.3920485	.0609534	.0790610
#2	.4014290	8.428215	.0660336	.0086320	.4036310	.0589354	.0765611
#3	.4171863	8.738553	.0663326	.0085377	.3811128	.0621908	.0759578

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.290165	.0432803	.0406852	.0601783	.4470139	.7200253	.0915457
Stddev	.030363	.0012743	.0002065	.0005348	.0107009	.0139443	.0002321
%RSD	1.325800	2.944224	.5075969	.8886919	2.393870	1.936637	.2535811
#1	2.317555	.0447123	.0408023	.0600176	.4377239	.7353979	.0917767
#2	2.257516	.0428569	.0404468	.0597423	.4446032	.7164870	.0913124
#3	2.295423	.0422716	.0408067	.0607751	.4587145	.7081911	.0915480

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1829-01MSDDLX10 Acquired: 3/26/2024 18:07:38 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0057922	.0042173	.0212172	z *****	
Stddev	.0004206	.0001201	.0012021	-----	
%RSD	7.261542	2.848816	5.665540	-----	
#1	.0053101	.0040855	.0199758	z 3098.692	
#2	.0060843	.0042454	.0213002	z 3095.300	
#3	.0059823	.0043208	.0223756	z 3104.940	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3647.710	83204.17	12175.72	2752.592	5170.979
Stddev	2.768	1756.01	259.26	61.904	4.509
%RSD	.0758733	2.110481	2.129347	2.248920	.0871927
#1	3650.133	81178.50	12363.18	2681.219	5175.220
#2	3648.305	84294.97	12284.14	2791.663	5171.475
#3	3644.694	84139.03	11879.85	2784.894	5166.243

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV05 Acquired: 3/26/2024 18:12:02 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.786743**	**4.567676**	**4.637657**	**4.726125**	**4.913374**	**9.661678**
Stddev	.018872	.050500	.021351	.030494	.017663	.135623
%RSD	.3942618	1.105588	.4603899	.6452324	.3594888	1.403721
#1	4.805395	4.616301	4.662289	4.759449	4.933502	9.784856
#2	4.767658	4.515490	4.626245	4.699612	4.900461	9.516339
#3	4.787178	4.571237	4.624437	4.719315	4.906158	9.683837

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.09833**	**.2660892**	**2.280148**	**27.10161**	**.9863447**	**2.330424**
Stddev	.07097	.0034415	.012240	.25117	.0026320	.010932
%RSD	.7027567	1.293381	.5368211	.9267704	.2668390	.4691112
#1	10.17883	.2696220	2.294253	27.29387	.9876995	2.342908
#2	10.04480	.2627468	2.272315	26.81743	.9833114	2.322560
#3	10.07136	.2658989	2.273877	27.19354	.9880233	2.325804

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.230372**	**4.636638**	**2.558691**	F **27.80983**	**2.353293**	**1.217082**
Stddev	.006314	.003762	.029849	.19905	.010601	.000840
%RSD	.5131655	.0811436	1.166574	.7157627	.4504765	.0690297
#1	1.237202	4.632793	2.583496	27.96686	2.365519	1.217899
#2	1.224747	4.636808	2.525564	27.58596	2.346658	1.217127
#3	1.229168	4.640312	2.567011	27.87668	2.347702	1.216220

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.71329**	**2.396740**	**2.454080**	**23.77057**	**5.111345**	**4.899038**
Stddev	.01165	.028060	.004877	.03346	.057667	.025522
%RSD	.0491343	1.170768	.1987467	.1407542	1.128221	.5209637
#1	23.70126	2.424762	2.456388	23.78524	5.168623	4.928384
#2	23.72453	2.368642	2.448476	23.73228	5.053296	4.882022
#3	23.71408	2.396818	2.457374	23.79418	5.112116	4.886709

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV05 Acquired: 3/26/2024 18:12:02 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.429793	4.729582	F 4.268297	4.555341	4.520054	4.691600
Stddev	.020411	.054781	.020087	.032063	.029306	.073868
%RSD	.4607569	1.158271	.4706124	.7038653	.6483654	1.574465
#1	4.452533	4.780580	4.248821	4.591237	4.553417	4.736330
#2	4.413061	4.671673	4.267127	4.545250	4.498469	4.606339
#3	4.423783	4.736494	4.288944	4.529538	4.508276	4.732130

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.299073	z *****
Stddev	.097574	-----
%RSD	1.841341	-----
#1	5.390873	z 21740.10
#2	5.196603	z 21773.48
#3	5.309744	z 21796.66

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3403.601	78584.01	11502.83	2624.453	4499.919
Stddev	18.758	181.25	135.12	7.572	25.211
%RSD	.5511103	.2306457	1.174652	.2885149	.5602612
#1	3381.969	78410.19	11365.16	2626.267	4471.062
#2	3415.371	78569.95	11635.24	2616.139	4517.676
#3	3413.462	78771.88	11508.09	2630.953	4511.019

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB05 Acquired: 3/26/2024 18:16:29 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001032**	**.0001986**	**-.000011**	**.0001983**	**-.000194**	**.0012020**	**-.003193**
Stddev	.001718	.0003942	.000764	.0008913	.000779	.0063671	.000104
%RSD	166.4476	198.5341	6899.985	449.4481	401.0165	529.6905	3.245696
#1	.000879	.0000145	.000576	-.000299	-.000547	.0050649	-.003188
#2	-.002446	-.000070	.000265	.001227	-.000735	-.006147	-.003092
#3	-.001529	.000651	-.000874	-.000333	.000699	.004688	-.003299

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000177**	**.0000481**	**.0009013**	**-.000008**	**-.000037**	**-.000030**	**.0010451**
Stddev	.0000223	.0000572	.0020517	.000091	.000105	.000124	.0009830
%RSD	125.9805	119.0697	227.6521	1104.989	284.4898	415.9822	94.05456
#1	.0000255	.0000747	.0014577	-.000024	-.000135	-.000136	.0009768
#2	-.000007	.0000872	.0026174	.000090	.000074	.000106	.0020606
#3	.000035	-.000018	-.001371	-.000090	-.000050	-.000059	.0000981

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001891**	**-.002291**	**-.000155**	**.0002121**	**.0580348**	**-.001681**	**.0001831**
Stddev	.0001355	.005675	.000177	.0002305	.0061459	.000511	.0002779
%RSD	71.62581	247.6664	114.0636	108.6534	10.58996	30.39914	151.8263
#1	.0001106	-.007972	-.000180	.0002126	.0637074	-.002256	.0003149
#2	.0003456	.003378	.000033	.0004423	.0515056	-.001508	-.000136
#3	.0001112	-.002280	-.000319	-.000019	.0588914	-.001279	.000371

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0316382**	**.0029965**	**.0005043**	**-.000108**	**.0187572**	**-.001391**	**.0002169**
Stddev	.0182282	.0004971	.0000902	.000644	.0004310	.004620	.0000584
%RSD	57.61456	16.58938	17.88434	595.2888	2.297945	332.1624	26.92526
#1	.0517766	.0033204	.0005542	.000488	.0182631	.003572	.0001815
#2	.0268698	.0032449	.0004002	-.000792	.0190556	-.002176	.0002843
#3	.0162681	.0024241	.0005586	-.000020	.0189530	-.005568	.0001849

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB05 Acquired: 3/26/2024 18:16:29 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	.0002737	.0000197	.0001862	z *****
Stddev	.0001651	.0001528	.0000508	-----
%RSD	60.30956	775.6230	27.29242	-----
#1	.0001962	.0000315	.0002334	z 1877.616
#2	.0004633	-.000139	.0001927	z 1881.733
#3	.0001616	.000166	.0001324	z 1865.228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3706.651	87092.71	12102.85	2859.216	5464.387
Stddev	12.697	111.58	81.17	9.865	19.250
%RSD	.3425408	.1281191	.6706665	.3450244	.3522897
#1	3697.126	87085.15	12193.36	2859.663	5451.446
#2	3701.762	87207.89	12078.67	2868.850	5455.206
#3	3721.066	86985.11	12036.52	2849.135	5486.509

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04DLX10 Acquired: 3/26/2024 18:20:57 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001459**	**.0016133**	**.0001548**	**.0022986**	**.0005958**	**1.894889**
Stddev	.001289	.0013056	.0019964	.0021408	.0005266	.009705
%RSD	88.31077	80.92389	1289.663	93.13370	88.38565	.5121888
#1	-.002800	.0008398	-.001846	.0046334	-.000011	1.905845
#2	-.000229	.0031207	.000164	.0004280	.000866	1.891454
#3	-.001349	.0008795	.002146	.0018344	.000932	1.887368

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002672**	**-.000043**	**.0000134**	**1.287192**	**.0159128**	**.0000149**
Stddev	.000149	.000062	.0000527	.003730	.0000264	.0000602
%RSD	5.578215	144.6149	394.0143	.2897731	.1656353	404.4153
#1	-.002724	.000023	-.000043	1.290426	.0158829	.0000678
#2	-.002504	-.000051	.000061	1.288038	.0159326	-.000051
#3	-.002788	-.000101	.000022	1.283111	.0159229	.000027

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018008**	**.0361413**	**.0010950**	**.2109598**	**.0073826**	**.0000617**
Stddev	.0001526	.0021141	.0001123	.0081279	.0001937	.0000678
%RSD	8.474838	5.849461	10.25418	3.852795	2.624283	110.0129
#1	.0019731	.0360875	.0012173	.2017078	.0072136	.0000762
#2	.0016824	.0340547	.0009965	.2169506	.0075940	.0001211
#3	.0017471	.0382818	.0010712	.2142210	.0073401	-.000012

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**166.0273**	**-.001411**	**.0134883**	**16.11560**	**.5070718**	**.0020529**
Stddev	2.3363	.000400	.0003298	.23924	.0034606	.0001884
%RSD	1.407156	28.34809	2.445395	1.484542	.6824615	9.176253
#1	165.4693	-.001852	.0131289	15.89104	.5079148	.0019967
#2	168.5921	-.001071	.0135589	16.36722	.5032676	.0022629
#3	164.0206	-.001309	.0137771	16.08854	.5100330	.0018989

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04DLX10 Acquired: 3/26/2024 18:20:57 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001080	.0184231	.0377142	.0021819	F 10.47505	.0000475
Stddev	.000410	.0005217	.0085910	.0003849	.05087	.0001764
%RSD	37.94282	2.831766	22.77933	17.64012	.4856707	371.3898
#1	-.001534	.0182493	.0332255	.0018948	10.52461	-.000156
#2	-.000969	.0190095	.0476198	.0026193	10.42296	.000148
#3	-.000737	.0180105	.0322973	.0020317	10.47758	.000151

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0049595	z *****
Stddev	.0000459	-----
%RSD	.9251939	-----
#1	.0049190	z 1925.475
#2	.0050093	z 1925.767
#3	.0049502	z 1938.465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3489.619	78838.55	11682.93	2691.277	4731.250
Stddev	12.941	817.57	31.76	32.497	12.439
%RSD	.3708500	1.037015	.2718917	1.207481	.2629037
#1	3479.199	79695.78	11683.26	2718.312	4718.830
#2	3485.552	78067.47	11714.53	2655.224	4731.212
#3	3504.105	78752.41	11651.00	2700.295	4743.708

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04DUPDLX10 Acquired: 3/26/2024 18:25:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001603**	**.0010951**	**-.000866**	**.0012159**	**.0003511**	**1.877012**
Stddev	.002150	.0019455	.000389	.0017869	.0010547	.003284
%RSD	134.1082	177.6495	44.96061	146.9555	300.4276	.1749597
#1	.000506	.0011546	-.000416	.0000198	-.000181	1.875573
#2	-.003792	.0030102	-.001097	.0003580	-.000331	1.874694
#3	-.001523	-.000879	-.001083	.0032700	.001566	1.880770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001783**	**-.000038**	**-.000023**	**1.298112**	**.0158419**	**-.000051**
Stddev	.000366	.000032	.000029	.003109	.0001036	.000042
%RSD	20.53098	86.33783	124.7386	.2395355	.6538468	83.13802
#1	-.001505	-.000072	-.000056	1.298485	.0157458	-.000084
#2	-.002197	-.000033	-.000010	1.294833	.0158282	-.000003
#3	-.001645	-.000008	-.000003	1.301018	.0159516	-.000064

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020140**	**.0413902**	**.0012735**	**.1984478**	**.0072815**	**-.000005**
Stddev	.0002703	.0026069	.0001370	.0151263	.0002597	.000109
%RSD	13.42005	6.298464	10.75518	7.622321	3.566852	1980.534
#1	.0019798	.0424847	.0011210	.2151294	.0071811	-.000087
#2	.0017624	.0384144	.0013860	.1945900	.0070869	.000118
#3	.0022997	.0432714	.0013135	.1856239	.0075764	-.000048

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**163.6307**	**-.001384**	**.0138070**	**15.91687**	**.5044535**	**.0018999**
Stddev	1.8333	.001116	.0001908	.11743	.0017095	.0002941
%RSD	1.120384	80.62509	1.381686	.7377868	.3388876	15.47844
#1	162.0064	-.000806	.0135867	15.79226	.5064217	.0015836
#2	163.2672	-.002671	.0139181	15.93287	.5036003	.0021651
#3	165.6186	-.000676	.0139161	16.02548	.5033385	.0019511

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04DUPDLX10 Acquired: 3/26/2024 18:25:30 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000196	.0188473	.0264531	.0023616	F 10.52861	.0000615
Stddev	.0004035	.0007702	.0080601	.0000975	.01076	.0001764
%RSD	2062.958	4.086559	30.46950	4.127117	.1021587	286.8484
#1	.0002144	.0188604	.0179099	.0024719	10.53807	.0000244
#2	.0002887	.0180707	.0339225	.0023261	10.51691	-.000093
#3	-.000444	.0196110	.0275269	.0022869	10.53083	.000253

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0049414	z *****
Stddev	.0000745	-----
%RSD	1.507556	-----
#1	.0049156	z 1936.893
#2	.0050253	z 1941.177
#3	.0048832	z 1934.932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3525.488	79731.19	11819.57	2709.720	4770.028
Stddev	17.824	122.97	63.66	4.651	13.409
%RSD	.5055623	.1542367	.5385760	.1716374	.2811174
#1	3529.354	79589.97	11746.06	2708.189	4771.999
#2	3541.061	79788.94	11856.30	2706.028	4782.343
#3	3506.048	79814.65	11856.34	2714.943	4755.743

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04LDLX50 Acquired: 3/26/2024 18:30:03 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002138**	**.0006999**	**.0001120**	**-.000930**	**-.000632**	**.3788858**	**-.002534**
Stddev	.000717	.0015135	.0005465	.001146	.000527	.0048722	.000281
%RSD	33.55611	216.2589	487.9439	123.1427	83.44946	1.285923	11.08279
#1	-.001500	-.001019	-.000501	.000320	-.001240	.3740405	-.002419
#2	-.002914	.001831	.000547	-.001929	-.000309	.3788325	-.002329
#3	-.001999	.001288	.000290	-.001181	-.000346	.3837844	-.002854

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000030**	**.0000046**	**.2758194**	**.0029249**	**-.000061**	**.0004451**	**.0150044**
Stddev	.000007	.0000344	.0071815	.0001822	.000020	.0002465	.0011096
%RSD	24.55770	740.0118	2.603703	6.229179	33.72259	55.38007	7.395210
#1	-.000022	.0000419	.2809225	.0028126	-.000073	.0002994	.0160063
#2	-.000034	-.000002	.2676072	.0028269	-.000072	.0003061	.0138118
#3	-.000036	-.000026	.2789286	.0031351	-.000037	.0007297	.0151950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002910**	**.0379166**	**.0012766**	**.0002684**	**31.44951**	**-.001961**	**.0026070**
Stddev	.0001633	.0100350	.0001377	.0000637	.22886	.000319	.0002045
%RSD	56.09664	26.46598	10.78929	23.72013	.7276992	16.25323	7.843352
#1	.0003040	.0432251	.0011531	.0002133	31.44433	-.002204	.0024812
#2	.0001217	.0441823	.0012517	.0003381	31.22328	-.001600	.0024968
#3	.0004474	.0263424	.0014252	.0002537	31.68091	-.002078	.0028429

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.012306**	**.0968324**	**.0004530**	**-.000684**	**.0178385**	**.0105643**	**.0005421**
Stddev	.023315	.0006047	.0001096	.000120	.0003641	.0057423	.0004990
%RSD	.7739821	.6245040	24.19369	17.57995	2.041058	54.35577	92.03860
#1	2.996522	.0962149	.0003400	-.000791	.0178486	.0121667	.0005263
#2	3.001311	.0974234	.0005589	-.000708	.0181974	.0041910	.0010488
#3	3.039085	.0968589	.0004602	-.000554	.0174695	.0153352	.0000512

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04LDLX50 Acquired: 3/26/2024 18:30:03 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040
Units	ppm	ppm	ppm	Cts/S
Avg	1.939052	-.000146	.0009057	z *****
Stddev	.002574	.000103	.0000343	-----
%RSD	.1327639	70.82085	3.784120	-----
#1	1.936471	-.000035	.0009283	z 1913.353
#2	1.941620	-.000165	.0009225	z 1903.913
#3	1.939065	-.000239	.0008663	z 1931.856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.430	84135.00	12072.87	2826.487	5216.715
Stddev	4.161	132.84	62.39	15.422	8.111
%RSD	.1132396	.1578909	.5167625	.5456289	.1554814
#1	3672.142	84017.64	12136.92	2835.997	5215.935
#2	3671.915	84279.22	12012.29	2808.693	5209.023
#3	3679.233	84108.13	12069.41	2834.770	5225.188

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04MSDLX10 Acquired: 3/26/2024 18:34:29 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0706708**	**.1681262**	**.0835868**	**.1733375**	**.0727624**	**2.023957**
Stddev	.0028794	.0014647	.0004417	.0023394	.0019371	.012466
%RSD	4.074441	.8711878	.5283886	1.349628	2.662248	.6159415
#1	.0739871	.1685632	.0835008	.1756885	.0748617	2.014464
#2	.0692198	.1693227	.0840651	.1710099	.0723811	2.019331
#3	.0688055	.1664928	.0831944	.1733142	.0710442	2.038074

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0158133**	**.0194284**	**.0170096**	**1.361357**	**.0455587**	**.0168757**
Stddev	.0004164	.0002059	.0001655	.009325	.0014244	.0001140
%RSD	2.633507	1.059908	.9729458	.6849858	3.126401	.6752515
#1	.0153813	.0192860	.0172007	1.350714	.0453527	.0169838
#2	.0158463	.0193347	.0169117	1.365263	.0442485	.0167567
#3	.0162123	.0196645	.0169165	1.368094	.0470748	.0168866

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0277107**	**.2756759**	**.0197936**	**.3403560**	**.0473197**	**.0068091**
Stddev	.0006649	.0054506	.0001438	.0202087	.0002473	.0003797
%RSD	2.399471	1.977181	.7266620	5.937527	.5226053	5.576970
#1	.0282436	.2764599	.0196276	.3254845	.0474999	.0066772
#2	.0269656	.2698758	.0198769	.3322187	.0474214	.0065128
#3	.0279228	.2806921	.0198764	.3633649	.0470378	.0072372

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**160.4974**	**.0258569**	**.0330836**	**16.33193**	**.5340530**	**.0387189**
Stddev	4.5282	.0015833	.0014041	.44509	.0061321	.0001701
%RSD	2.821378	6.123099	4.244068	2.725267	1.148227	.4392734
#1	158.7623	.0254180	.0329674	16.17900	.5288100	.0388753
#2	157.0932	.0276133	.0317412	15.98347	.5325532	.0385378
#3	165.6366	.0245395	.0345422	16.83332	.5407959	.0387435

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04MSDLX10 Acquired: 3/26/2024 18:34:29 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565327	.0343846	.1095390	.0557131	F 10.25038	.0016684
Stddev	.0007165	.0011631	.0051419	.0002146	.05266	.0000451
%RSD	1.267488	3.382618	4.694133	.3852614	.5137170	2.704350
#1	.0567485	.0336300	.1050260	.0557992	10.31042	.0016626
#2	.0571165	.0337997	.1084542	.0558712	10.22870	.0016264
#3	.0557330	.0357241	.1151367	.0554687	10.21202	.0017161

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0233122	z *****
Stddev	.0001404	-----
%RSD	.6020657	-----
#1	.0231835	z 2670.560
#2	.0232913	z 2682.519
#3	.0234619	z 2714.942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3545.438	78199.59	11435.58	2682.590	4782.404
Stddev	17.150	2046.99	61.32	62.508	25.493
%RSD	.4837145	2.617653	.5361855	2.330136	.5330534
#1	3525.900	78801.24	11501.02	2695.385	4753.011
#2	3558.001	79878.32	11426.29	2737.711	4798.488
#3	3552.413	75919.19	11379.45	2614.675	4795.712

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04MSDDLX10 Acquired: 3/26/2024 18:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0740995**	**.1671679**	**.0880853**	**.1788784**	**.0749898**	**2.067136**
Stddev	.0007586	.0062759	.0015451	.0051268	.0011335	.024160
%RSD	1.023766	3.754246	1.754148	2.866059	1.511554	1.168771
#1	.0736383	.1618696	.0871081	.1771389	.0751890	2.039242
#2	.0736852	.1655354	.0872811	.1748478	.0737699	2.081481
#3	.0749751	.1740988	.0898667	.1846486	.0760105	2.080685

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0158239**	**.0198778**	**.0175545**	**1.389404**	**.0458386**	**.0173226**
Stddev	.0006984	.0001542	.0002719	.013394	.0002881	.0004053
%RSD	4.413230	.7756734	1.548833	.9640291	.6285311	2.339953
#1	.0150546	.0198593	.0173610	1.379745	.0458198	.0170310
#2	.0159994	.0200404	.0174371	1.404695	.0455604	.0171513
#3	.0164177	.0197337	.0178653	1.383774	.0461357	.0177854

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0288485**	**.2773708**	**.0200655**	**.3696562**	**.0494749**	**.0068691**
Stddev	.0002037	.0045836	.0001943	.0150772	.0005176	.0002046
%RSD	.7061920	1.652530	.9684329	4.078713	1.046164	2.978089
#1	.0287770	.2720784	.0199853	.3724666	.0490387	.0069109
#2	.0286902	.2799710	.0202871	.3831306	.0493392	.0066469
#3	.0290784	.2800631	.0199242	.3533716	.0500468	.0070496

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**163.9823**	**.0250805**	**.0334407**	**16.66038**	**.5466498**	**.0403127**
Stddev	.5858	.0013833	.0001099	.23564	.0069222	.0007485
%RSD	.3572084	5.515406	.3287119	1.414370	1.266305	1.856828
#1	163.6698	.0235728	.0335637	16.50160	.5460846	.0398217
#2	163.6191	.0253773	.0334063	16.54842	.5538372	.0399421
#3	164.6581	.0262912	.0333521	16.93113	.5400274	.0411742

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04MSDDLX10 Acquired: 3/26/2024 18:39:01 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0588485	.0355359	.1171269	.0584611	F 10.64055	.0018118
Stddev	.0008022	.0001997	.0056787	.0007593	.17458	.0000300
%RSD	1.363203	.5618494	4.848333	1.298843	1.640683	1.654882
#1	.0581662	.0356783	.1112763	.0580693	10.48721	.0018409
#2	.0586470	.0353077	.1226165	.0579776	10.60391	.0018135
#3	.0597323	.0356218	.1174881	.0593362	10.83055	.0017810

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0238154	z *****
Stddev	.0002005	-----
%RSD	.8417670	-----
#1	.0236090	z 2658.423
#2	.0238280	z 2673.085
#3	.0240093	z 2684.111

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3542.277	80192.32	11686.78	2726.046	4780.792
Stddev	50.463	248.37	82.44	15.744	57.823
%RSD	1.424582	.3097190	.7054433	.5775556	1.209493
#1	3573.631	80230.77	11665.63	2710.637	4817.766
#2	3569.135	80419.22	11616.97	2742.106	4810.453
#3	3484.065	79926.96	11777.74	2725.396	4714.157

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04ADLX10 Acquired: 3/26/2024 18:43:34 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0791666**	**.1798776**	**.0905543**	**.1918219**	**.0771561**	**2.407905**
Stddev	.0026392	.0006884	.0012673	.0017660	.0014965	.432917
%RSD	3.333750	.3827081	1.399489	.9206547	1.939631	17.97901
#1	.0788297	.1798073	.0895038	.1906221	.0767363	2.124225
#2	.0767119	.1792271	.0919618	.1909938	.0788177	2.906202
#3	.0819580	.1805985	.0901973	.1938498	.0759142	2.193287

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0187809**	**.0217403**	**.0182181**	**1.618920**	**.0486640**	**.0180626**
Stddev	.0038990	.0032637	.0000491	.282459	.0003800	.0000303
%RSD	20.76046	15.01210	.2695564	17.44737	.7807845	.1677796
#1	.0166089	.0197823	.0182458	1.427112	.0485935	.0180659
#2	.0232822	.0255079	.0182472	1.943275	.0490743	.0180911
#3	.0164517	.0199307	.0181614	1.486371	.0483242	.0180308

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0300079**	**.3123868**	**.0233865**	**.4425082**	**.0514334**	**.0071589**
Stddev	.0004057	.0072871	.0039944	.0942218	.0000245	.0001086
%RSD	1.351998	2.332722	17.08011	21.29266	.0475761	1.516244
#1	.0295450	.3059660	.0209094	.3767743	.0514198	.0072520
#2	.0303017	.3203070	.0279946	.5504553	.0514616	.0071851
#3	.0301769	.3108875	.0212556	.4002951	.0514187	.0070397

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.3484**	**.0300916**	**.0355681**	**18.30298**	**.6016552**	**.0424105**
Stddev	2.6864	.0042061	.0001831	.39204	.0920794	.0000875
%RSD	1.523369	13.97780	.5147795	2.141938	15.30434	.2062212
#1	174.5379	.0280165	.0353927	17.90503	.5452719	.0424167
#2	175.0723	.0349320	.0355536	18.68883	.7079128	.0423201
#3	179.4351	.0273262	.0357580	18.31508	.5517808	.0424947

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: P1714-04ADLX10 Acquired: 3/26/2024 18:43:34 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0616453	.0376706	.1209544	.0594236	F 11.06616	.0021136
Stddev	.0002421	.0038622	.0058290	.0002226	.01930	.0005065
%RSD	.3927701	10.25258	4.819198	.3746371	.1743749	23.96510
#1	.0619104	.0353065	.1261074	.0593563	11.04637	.0018475
#2	.0614358	.0421275	.1221279	.0592423	11.08492	.0026978
#3	.0615898	.0355777	.1146279	.0596720	11.06718	.0017957

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	.0279267	z *****
Stddev	.0050190	-----
%RSD	17.97219	-----
#1	.0245765	z 2685.270
#2	.0336973	z 2702.326
#3	.0255064	z 2695.697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3471.591	78606.34	11065.21	2670.494	4698.692
Stddev	1.659	227.72	1542.25	8.417	1.052
%RSD	.0477769	.2896923	13.93786	.3151725	.0223864
#1	3470.973	78362.86	12007.99	2670.441	4698.607
#2	3470.330	78814.06	9285.42	2678.937	4697.685
#3	3473.470	78642.09	11902.22	2662.104	4699.783

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV06 Acquired: 3/26/2024 18:48:07 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.670086**	**4.583036**	**4.574489**	**4.610314**	**4.794309**	**9.747156**
Stddev	.004396	.033885	.016701	.008235	.014666	.295682
%RSD	.0941214	.7393508	.3650979	.1786219	.3058941	3.033519
#1	4.670619	4.554157	4.556693	4.612695	4.786332	10.08765
#2	4.665449	4.620337	4.589822	4.601151	4.785361	9.55510
#3	4.674191	4.574612	4.576952	4.617096	4.811234	9.59871

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.22902**	**.2697918**	**2.250428**	**27.32595**	**.9850267**	**2.296176**
Stddev	.23255	.0067829	.007031	.72852	.0040135	.005712
%RSD	2.273390	2.514129	.3124071	2.666045	.4074541	.2487437
#1	10.47679	.2776031	2.243498	28.16360	.9875515	2.289882
#2	10.19477	.2663817	2.257555	26.84002	.9871300	2.301028
#3	10.01550	.2653906	2.250232	26.97424	.9803987	2.297619

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.201536**	**4.621941**	**2.576748**	F **28.39269**	**2.314633**	**1.212963**
Stddev	.003872	.011966	.072301	.72611	.003584	.003734
%RSD	.3222814	.2589052	2.805892	2.557379	.1548471	.3078741
#1	1.198852	4.633605	2.659960	29.23096	2.311163	1.214540
#2	1.199781	4.622524	2.529287	27.95907	2.318321	1.215651
#3	1.205975	4.609694	2.540998	27.98804	2.314413	1.208699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.81463**	**2.412620**	**2.452679**	**23.69181**	**5.181188**	**4.804632**
Stddev	.05790	.063693	.011459	.03959	.141373	.008147
%RSD	.2431305	2.640004	.4672156	.1670952	2.728574	.1695695
#1	23.87764	2.486146	2.465910	23.73337	5.343830	4.798770
#2	23.76376	2.374331	2.445971	23.65454	5.111985	4.801190
#3	23.80249	2.377383	2.446154	23.68752	5.087748	4.813935

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCV06 Acquired: 3/26/2024 18:48:07 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.404445	4.769958	F 4.257745	F 4.480710	F 4.442832	4.701598
Stddev	.019915	.137972	.013887	.006541	.013701	.114530
%RSD	.4521462	2.892525	.3261534	.1459869	.3083780	2.435970
#1	4.383128	4.928994	4.241710	4.474126	4.430655	4.829922
#2	4.422572	4.682266	4.265800	4.487208	4.457667	4.665127
#3	4.407636	4.698613	4.265725	4.480796	4.440175	4.609746

Elem	Sr4077	Ce4040
Units	ppm	Cts/S
Avg	5.256180	z *****
Stddev	.065386	-----
%RSD	1.243989	-----
#1	5.326277	z 21879.47
#2	5.196838	z 21915.74
#3	5.245424	z 21887.64

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3529.769	79785.53	11557.64	2673.012	4647.970
Stddev	9.596	165.48	310.27	4.694	3.653
%RSD	.2718494	.2074117	2.684545	.1755926	.0785962
#1	3525.404	79649.15	11199.54	2669.063	4648.217
#2	3540.772	79737.80	11727.18	2678.201	4651.493
#3	3523.133	79969.63	11746.20	2671.772	4644.199

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB06 Acquired: 3/26/2024 18:52:35 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001079**	**.0018392**	**-.000326**	**.0009400**	**.0013202**	**-.002186**	**-.001892**
Stddev	.000849	.0016896	.001151	.0016730	.0007818	.008023	.000574
%RSD	78.70938	91.86829	352.5293	177.9787	59.22346	366.9220	30.32003
#1	-.000143	.0026894	.000878	.0028650	.0022229	-.006794	-.002086
#2	-.001802	.0029348	-.000442	.0001186	.0008580	-.006842	-.002344
#3	-.001292	-.000107	-.001415	-.000164	.0008796	.007077	-.001247

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000071**	**.0000652**	**.0065057**	**-.000074**	**.0000018**	**.0001811**	**.0008025**
Stddev	.0000309	.0000760	.0026962	.000209	.0000377	.0000749	.0020666
%RSD	436.4679	116.4699	41.44346	281.3922	2108.381	41.35135	257.5078
#1	.0000160	.0000693	.0095748	-.000305	-.000024	.0002438	.0015670
#2	.0000325	-.000013	.0045185	.000103	-.000016	.0002014	.0023780
#3	-.000027	.000139	.0054237	-.000021	.000045	.0000982	-.001537

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002308**	**-.022451**	**-.000164**	**.0002814**	**.0655892**	**-.000597**	**.0001511**
Stddev	.0000170	.006908	.000070	.0001089	.0050759	.000807	.0002736
%RSD	7.381683	30.77052	42.84104	38.70261	7.738926	135.1965	181.0640
#1	.0002112	-.015342	-.000231	.0002286	.0701007	-.000001	.0002988
#2	.0002417	-.022873	-.000171	.0002091	.0665738	-.001516	.0003191
#3	.0002396	-.029139	-.000091	.0004067	.0600931	-.000275	-.000165

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0347984**	**.0030471**	**.0004241**	**-.000588**	**.0186202**	**.0009441**	**.0001745**
Stddev	.0039588	.0004213	.0003620	.000202	.0006903	.0029359	.0000776
%RSD	11.37644	13.82629	85.33927	34.35443	3.707417	310.9793	44.46898
#1	.0393158	.0035300	.0008399	-.000767	.0184957	-.000384	.0002631
#2	.0319338	.0027548	.0002534	-.000627	.0193643	.004309	.0001420
#3	.0331456	.0028565	.0001791	-.000369	.0180006	-.001093	.0001184

Reviewed By:
On:
Inst Id :P4
LB :LB130043

Sample Name: CCB06 Acquired: 3/26/2024 18:52:35 Type: Unk
Method: NON EPA-6010-200.7(v2207) Mode: CONC Corr. Factor: 1.000000
User: Bin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077	Ce4040	
Units	ppm	ppm	ppm	Cts/S	
Avg	.0003908	.0000983	.0002515	z *****	
Stddev	.0001966	.0001929	.0000663	-----	
%RSD	50.29752	196.1432	26.35759	-----	
#1	.0006092	.0003155	.0003280	z 1894.160	
#2	.0002281	-.000053	.0002146	z 1900.664	
#3	.0003352	.000033	.0002118	z 1896.991	

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3807.259	88585.66	12329.96	2930.443	5636.880
Stddev	51.571	318.34	89.46	17.073	68.801
%RSD	1.354551	.3593617	.7255702	.5825991	1.220551
#1	3747.711	88834.94	12270.13	2936.013	5557.791
#2	3837.411	88694.99	12432.80	2944.036	5682.927
#3	3836.655	88227.06	12286.93	2911.281	5669.923

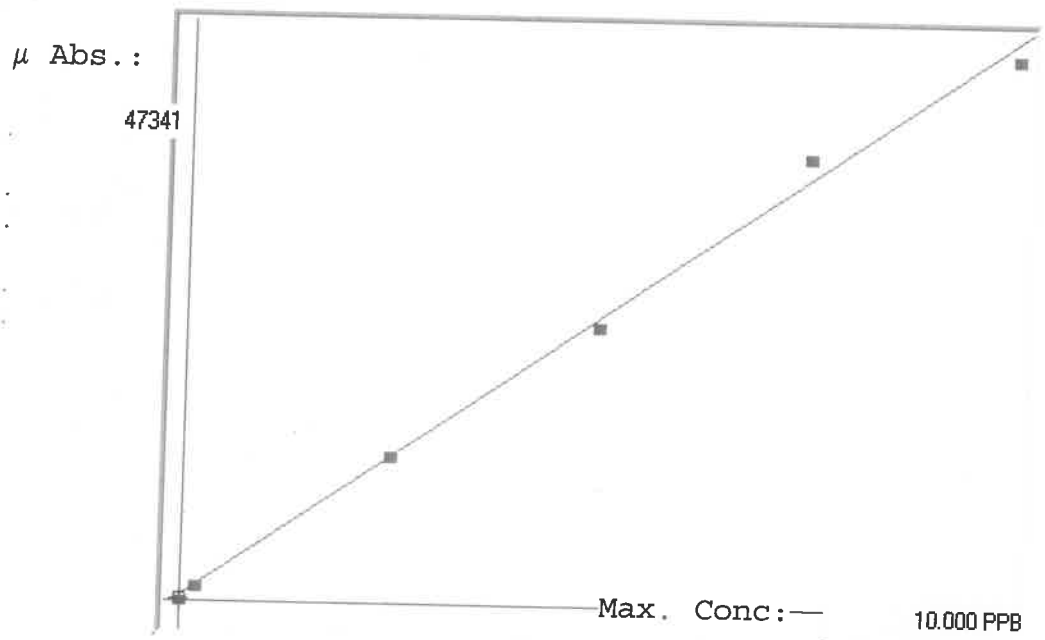
Reviewed By:mohan
On:3/20/2024 3:30:16 AM
Inst Id :CV1
LB :LB129940

LB129940

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.0704e-004

C= -9.8766e-002

Rho= 0.9982320

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.036	-0.036	304	0.000	304	0				—
0.2	0.200	0.203	0.003	1457	0.0 %	1457					2
2.5	2.500	2.517	0.017	12635	0.0 %	12635					1
5.0	5.000	4.883	-0.117	24061	0.0 %	24061					-2
7.5	7.500	7.930	0.430	38779	0.0 %	38779					6
10.0	10.000	9.703	-0.297	47341	0.0 %	47341					-3

Reviewed By:mohan
On:3/20/2024 3:30:16 AM
Inst Id :CV1
LB :LB129940

LB129940 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 19 Mar 2024 12:05:31

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	304	-	0.00000	7470A	PPB	19 Mar 2024 12:17:45	S	Std
0.2 - 1	50-2	1457	-	0.20000	7470A	PPB	19 Mar 2024 12:20:02	S	Std
2.5 - 1	52.5	12635	-	2.50000	7470A	PPB	19 Mar 2024 12:22:19	S	Std
5.0 - 1	55	24061	-	5.00000	7470A	PPB	19 Mar 2024 12:24:36	S	Std
7.5 - 1	57.5	38779	-	7.50000	7470A	PPB	19 Mar 2024 12:26:55	S	Std
10.0 - 1	510	47341	-	10.00000	7470A	PPB	19 Mar 2024 12:31:58	S	Std
ICV53 - 1	ICV53	18235	3.6766	-	7470A	PPB	19 Mar 2024 12:37:36	U	SMPL
ICB53 - 1	ICB53	599	0.0253	-	7470A	PPB	19 Mar 2024 12:39:50	U	SMPL
CCV81 - 1	CCV81	23322	4.7299	-	7470A	PPB	19 Mar 2024 12:42:08	U	SMPL
CCB81 - 1	CCB81	583	0.0219	-	7470A	PPB	19 Mar 2024 12:44:23	U	SMPL
CRA - 1	CRA	1428	0.1969	-	7470A	PPB	19 Mar 2024 12:46:41	U	SMPL
HighStd - 1	HighStd	47727	9.7827	-	7470A	PPB	19 Mar 2024 12:48:55	U	SMPL
ChkStd - 1	ChkStd	33014	6.7365	-	7470A	PPB	19 Mar 2024 12:51:11	U	SMPL
PB159624BL - 1	PBW	653	0.0364	-	7470A	PPB	19 Mar 2024 12:56:07	U	SMPL
PB159624BS - 1	LCSW	18042	3.6367	-	7470A	PPB	19 Mar 2024 12:58:22	U	SMPL
P1746-05 - 1	SB-01-COMP	134	-0.0710	-	7470A	PPB	19 Mar 2024 13:00:39	U	SMPL
P1746-07 - 1	SB-02-COMP	271	-0.0427	-	7470A	PPB	19 Mar 2024 13:02:58	U	SMPL
P1746-10 - 1	SB-03-COMP	250	-0.0470	-	7470A	PPB	19 Mar 2024 13:05:14	U	SMPL
P1746-14 - 1	SB-04-COMP	212	-0.0549	-	7470A	PPB	19 Mar 2024 13:07:31	U	SMPL
P1746-18 - 1	SB-05-COMP	283	-0.0402	-	7470A	PPB	19 Mar 2024 13:09:46	U	SMPL
CCV82 - 1	CCV82	25896	5.2628	-	7470A	PPB	19 Mar 2024 13:12:02	U	SMPL
CCB82 - 1	CCB82	601	0.0257	-	7470A	PPB	19 Mar 2024 13:14:17	U	SMPL
P1746-20 - 1	SB-06-COMP	224	-0.0524	-	7470A	PPB	19 Mar 2024 13:16:35	U	SMPL
P1771-02 - 1	COMP-1	272	-0.0425	-	7470A	PPB	19 Mar 2024 13:18:50	U	SMPL
P1771-04 - 1	COMP-2	217	-0.0538	-	7470A	PPB	19 Mar 2024 13:21:05	U	SMPL
P1771-06 - 1	COMP-3	243	-0.0485	-	7470A	PPB	19 Mar 2024 13:23:21	U	SMPL
P1771-08 - 1	COMP-4	315	-0.0335	-	7470A	PPB	19 Mar 2024 13:25:37	U	SMPL
P1771-08DUP - 1	COMP-4DUP	463	-0.0029	-	7470A	PPB	19 Mar 2024 13:27:53	U	SMPL
P1771-08MS - 1	COMP-4MS	21621	4.3777	-	7470A	PPB	19 Mar 2024 13:32:56	U	SMPL
P1771-08MSD - 1	COMP-4MSD	21593	4.3719	-	7470A	PPB	19 Mar 2024 13:35:12	U	SMPL
PB159659BL - 1	PBW	171	-0.0634	-	7470A	PPB	19 Mar 2024 13:37:31	U	SMPL
PB159659BS - 1	LCSW	18008	3.6296	-	7470A	PPB	19 Mar 2024 13:39:50	U	SMPL
CCV83 - 1	CCV83	27002	5.4918	-	7470A	PPB	19 Mar 2024 13:42:05	U	SMPL
CCB83 - 1	CCB83	490	0.0027	-	7470A	PPB	19 Mar 2024 13:44:23	U	SMPL
P1747-01 - 1	MW-01	248	-0.0474	-	7470A	PPB	19 Mar 2024 13:46:42	U	SMPL
P1747-02 - 1	MW-01-DUP	307	-0.0352	-	7470A	PPB	19 Mar 2024 13:48:58	U	SMPL
P1747-04 - 1	MW-02	400	-0.0159	-	7470A	PPB	19 Mar 2024 13:51:13	U	SMPL
P1747-05 - 1	MW-04	431	-0.0095	-	7470A	PPB	19 Mar 2024 13:53:29	U	SMPL
P1747-07 - 1	MW-01	223	-0.0526	-	7470A	PPB	19 Mar 2024 13:55:45	U	SMPL
P1747-08 - 1	MW-01-DUP	333	-0.0298	-	7470A	PPB	19 Mar 2024 13:58:01	U	SMPL
P1747-09 - 1	MW-02	252	-0.0466	-	7470A	PPB	19 Mar 2024 14:00:17	U	SMPL
P1747-10 - 1	MW-04	361	-0.0240	-	7470A	PPB	19 Mar 2024 14:02:34	U	SMPL
P1769-01 - 1	MW-2	1853	0.2849	-	7470A	PPB	19 Mar 2024 14:04:51	U	SMPL
P1769-02 - 1	MW-1	391	-0.0178	-	7470A	PPB	19 Mar 2024 14:07:06	U	SMPL
CCV84 - 1	CCV84	26131	5.3114	-	7470A	PPB	19 Mar 2024 14:09:23	U	SMPL
CCB84 - 1	CCB84	437	-0.0083	-	7470A	PPB	19 Mar 2024 14:11:39	U	SMPL
P1769-03 - 1	FB-3-14-24	246	-0.0478	-	7470A	PPB	19 Mar 2024 14:13:57	U	SMPL
P1772-06 - 1	1350	1780	0.2698	-	7470A	PPB	19 Mar 2024 14:16:13	U	SMPL
P1772-08 - 1	1346	2004	0.3161	-	7470A	PPB	19 Mar 2024 14:23:00	U	SMPL
P1772-08DUP - 1	1346DUP	2226	0.3621	-	7470A	PPB	19 Mar 2024 14:27:53	U	SMPL
P1772-08MS - 1	1346MS	19131	3.8621	-	7470A	PPB	19 Mar 2024 14:32:49	U	SMPL
P1772-08MSD - 1	1346MSD	18440	3.7191	-	7470A	PPB	19 Mar 2024 14:35:04	U	SMPL
CCV85 - 1	CCV85	25254	5.1299	-	7470A	PPB	19 Mar 2024 14:40:07	U	SMPL
CCB85 - 1	CCB85	840	0.0751	-	7470A	PPB	19 Mar 2024 14:42:23	U	SMPL
PB159589TB - 1	PB159589TB	389	-0.0182	-	7470A	PPB	19 Mar 2024 14:44:43	U	SMPL
P1771-08LX5 - 1		42	-0.0901	-	7470A	PPB	19 Mar 2024 14:47:37	U	SMPL
P1771-08A - 1		21197	4.2899	-	7470A	PPB	19 Mar 2024 14:49:52	U	SMPL
P1772-08LX5 - 1		621	0.0298	-	7470A	PPB	19 Mar 2024 14:52:08	U	SMPL
P1772-08A - 1		22422	4.5435	-	7470A	PPB	19 Mar 2024 14:54:26	U	SMPL
CCV86 - 1	CCV86	26097	5.3044	-	7470A	PPB	19 Mar 2024 14:57:22	U	SMPL
CCB86 - 1	CCB86	733	0.0530	-	7470A	PPB	19 Mar 2024 14:59:37	U	SMPL

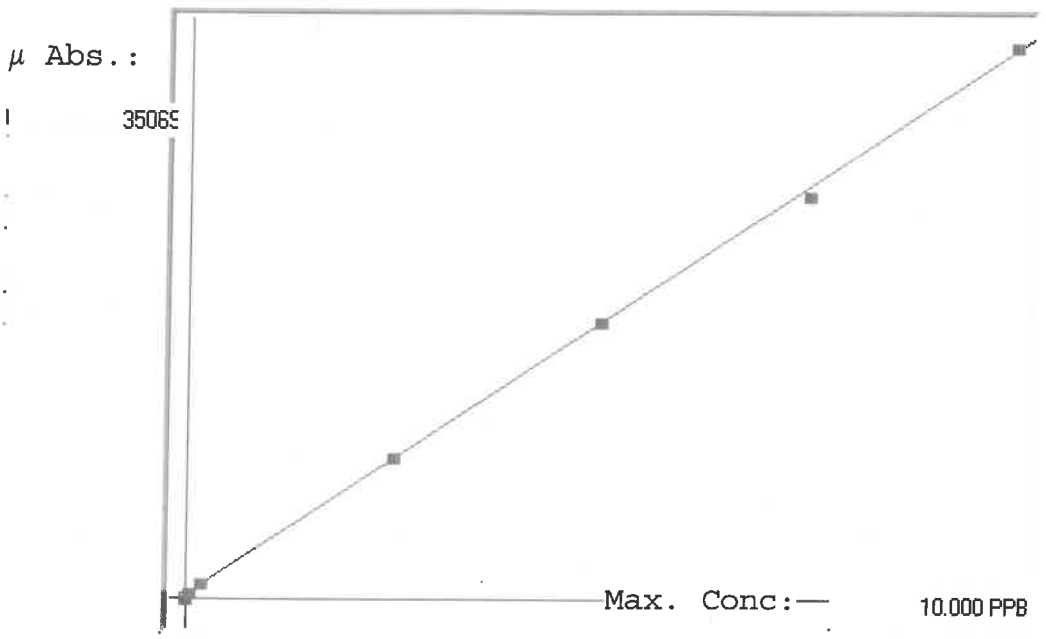
Reviewed By:
On:
Inst Id :CV1
LB :LB129958

LB129958

245.1

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.8909e-004

C= -7.1137e-002

Rho= 0.9998553

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.036	-0.036	121	0.000	121					0
0.05	0.050	0.050	-0.000	418	0.0 %	418	0				10
0.2	0.200	0.219	0.019	1004	0.0 %	1004					2
2.5	2.500	2.547	0.047	9056	0.0 %	9056					1
5.0	5.000	5.038	0.038	17673	0.0 %	17673					-2
7.5	7.500	7.365	-0.135	25724	0.0 %	25724					1
10.0	10.000	10.067	0.067	35069	0.0 %	35069					

Reviewed By:
On:
Inst Id :CV1
LB :LB129958

LB129958 INSTRUMENT ID : CV1

Method: 245.1 Operator: Admin Date of Analysis: 20 Mar 2024 13:46:37

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	121	-	0.0000	245.1	PPB	20 Mar 2024 13:55:56	S	Std
0.05 - 1	50.05	418	-	0.0500	245.1	PPB	20 Mar 2024 13:58:13	S	Std
0.2 - 1	50.2	1004	-	0.2000	245.1	PPB	20 Mar 2024 14:00:30	S	Std
2.5 - 1	52.5	9056	-	2.5000	245.1	PPB	20 Mar 2024 14:04:36	S	Std
5.0 - 1	55	17673	-	5.0000	245.1	PPB	20 Mar 2024 14:06:53	S	Std
7.5 - 1	57.5	25724	-	7.5000	245.1	PPB	20 Mar 2024 14:09:10	S	Std
10.0 - 1	510	35069	-	10.0000	245.1	PPB	20 Mar 2024 14:16:55	S	Std
ICV55 - 1	ICV55	13641	3.8724		245.1	PPB	20 Mar 2024 14:24:23	U	SMPL
ICB55 - 1	ICB55	35	-0.0610		245.1	PPB	20 Mar 2024 14:26:38	U	SMPL
CCV89 - 1	CCV89	17579	5.0108		245.1	PPB	20 Mar 2024 14:33:17	U	SMPL
CCB89 - 1	CCB89	61	-0.0535		245.1	PPB	20 Mar 2024 14:35:32	U	SMPL
CRA - 1	CRA	397	0.0436		245.1	PPB	20 Mar 2024 14:39:45	U	SMPL
HighStd - 1	HighStd	34423	9.8803		245.1	PPB	20 Mar 2024 14:42:00	U	SMPL
ChkStd - 1	ChkStd	23420	6.6994		245.1	PPB	20 Mar 2024 14:44:15	U	SMPL
PB159691BL - 1	PBW	58	-0.0544		245.1	PPB	20 Mar 2024 14:52:27	U	SMPL
PB159691BS - 1	LCSW	12370	3.5049		245.1	PPB	20 Mar 2024 14:59:02	U	SMPL
P1187-10 - 1		445	0.0575		245.1	PPB	20 Mar 2024 15:10:11	U	SMPL
P1187-10RE - 1		682	0.1260		245.1	PPB	20 Mar 2024 15:12:27	U	SMPL
P1187-12 - 1	MDL-WATER-06-QT1-2024	441	0.0564		245.1	PPB	20 Mar 2024 15:16:55	U	SMPL
P1747-03 - 1	MW-01	2898	0.7667		245.1	PPB	20 Mar 2024 15:19:52	U	SMPL
P1788-01 - 1	PEZOMETER-200	15276	4.3450		245.1	PPB	20 Mar 2024 15:22:07	U	SMPL
CCV90 - 1	CCV90	16262	4.6301		245.1	PPB	20 Mar 2024 15:24:24	U	SMPL
CCB90 - 1	CCB90	120	-0.0364		245.1	PPB	20 Mar 2024 15:26:42	U	SMPL
P1788-02 - 1	PEZOMETER-206	7868	2.2034		245.1	PPB	20 Mar 2024 15:29:00	U	SMPL
P1788-02DUP - 1	PEZOMETER-206DUP	7748	2.1687		245.1	PPB	20 Mar 2024 15:31:16	U	SMPL
P1788-02MS - 1	PEZOMETER-206MS	22758	6.5080		245.1	PPB	20 Mar 2024 15:35:32	U	SMPL
P1788-02MSD - 1	PEZOMETER-206MSD	21116	6.0333		245.1	PPB	20 Mar 2024 15:37:48	U	SMPL
P1788-02LX5 - 1		1773	0.4414		245.1	PPB	20 Mar 2024 15:40:44	U	SMPL
P1788-02A - 1		18372	5.2401		245.1	PPB	20 Mar 2024 15:43:00	U	SMPL
CCV91 - 1	CCV91	16228	4.6202		245.1	PPB	20 Mar 2024 15:47:57	U	SMPL
CCB91 - 1	CCB91	41	-0.0593		245.1	PPB	20 Mar 2024 15:50:13	U	SMPL

CHEMTECH

Water Metals Preparation Sheet

PB159517

SOP ID : M200.7-Trace Elements-22

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M4909

Hood ID : #3

Block ID: 1. HOT BLOCK #4 2. N/A

Temp : 1. 96°C 2. N/A

Start Digest Date: 03/14/2024 **Time :** 11:07 **Temp :** 96 °C

End Digest Date: 03/14/2024 **Time :** 14:04 **Temp :** 96 °C

Digestion tube ID: M5586

Block thermometer ID: MET-DIG.#4

Dig Technician Signature: AI

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M5643
LFS-2	0.25	M5649
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP78706
1:1 HCL	0.50	MP79051
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/14/24 14:19	AI Dig. Lab	
	Preparation Group	Analysis Group

CHEMTECH

Water Metals Preparation Sheet

PB159517

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P1675-02	SPRING-2024	<2	50	25	Colorless	Colorless	Cloudy	Cloudy	N/A	4-1
P1723-02	EFF-WW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P1747-03	MW-01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
P1747-03DUP	MW-01DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
P1747-03MS	MW-01MS	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	5
P1747-03MSD	MW-01MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	6
PB159517BL	PBW517	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
PB159517BS	LCS517	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	8

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB159517 **WorkList ID :** 178478 **Department :** Digestion **Date :** 03-14-2024 10:46:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P1747-03	MW-01	Water	METALS-NYCD	1:1 HNO3 to pH < 2	LIRO01	I31	03/13/2024	200.7
P1675-02	SPRING-2024	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ELEG01	H21	03/06/2024	200.7
P1723-02	EFF-WW	Water	Metals Group3	1:1 HNO3 to pH < 2	ARDM01	I23	03/08/2024	200.7

Date/Time 3/14/24 10:54
Raw Sample Received by: Alobig, Lab
Raw Sample Relinquished by: CR SM

Date/Time 3/14/24 11:22
Raw Sample Received by: CR SM
Raw Sample Relinquished by: Alobig, Lab

CHEMTECH

Water Metals Preparation Sheet

PB159541

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M4909

Hood ID : #3

Block ID: 1. HOT BLOCK#4 2. N/A

Temp : 1. 96°C 2. N/A

Start Digest Date: 03/14/2024 **Time :** 11:07 **Temp :** 96 °C

End Digest Date: 03/14/2024 **Time :** 15:06 **Temp :** 96 °C

Digestion tube ID: M5586

Block thermometer ID: MET-DIG.#4

Dig Technician Signature: AJ

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M5643
LFS-2	0.25	M5649
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M5830
1:1 HCL	5.00	MP79051
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/14/24 15:24	AJ Big, Lab	[illegible] Lab
	Preparation Group	Analysis Group

CHEMTECH

Water Metals Preparation Sheet

PB159541

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P1714-04	WATER-TREATMENT-DISCHARGE	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4-9
P1714-04DUP	WATER-TREATMENT-DISCHARGEDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
P1714-04MS	WATER-TREATMENT-DISCHARGEMS	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	11
P1714-04MSD	WATER-TREATMENT-DISCHARGEMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	12
P1734-06	COMP-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	13
P1747-01	MW-01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	14
P1747-02	MW-01-DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
P1747-04	MW-02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
P1747-05	MW-04	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
P1747-07	MW-01	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	18
P1747-08	MW-01-DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	19
P1747-09	MW-02	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	20
P1747-10	MW-04	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	21
P1749-01	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22
P1749-02	MW-2A	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
P1749-03	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
P1749-04	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	25
PB159541BL	PBW541	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	26
PB159541BS	LCS541	<2	50	25	Colorless	Colorless	Clear	Clear	M5643,M5649	27

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB159541 **WorkList ID :** 178518 **Department :** Digestion **Date :** 03-14-2024 10:36:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P1747-01	MW-01	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	LIRO01	I31	03/12/2024	6010D
P1747-02	MW-01-DUP	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	LIRO01		03/12/2024	6010D
P1747-04	MW-02	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	LIRO01	I31	03/12/2024	6010D
P1747-05	MW-04	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	LIRO01	I31	03/12/2024	6010D
P1747-07	MW-01	Water	Dissolved ICP-TAL Metals	Cool 4 deg C	LIRO01	I21	03/12/2024	6010D
P1747-08	MW-01-DUP	Water	Dissolved ICP-TAL Metals	Cool 4 deg C	LIRO01	I21	03/12/2024	6010D
P1747-09	MW-02	Water	Dissolved ICP-TAL Metals	Cool 4 deg C	LIRO01	I21	03/12/2024	6010D
P1747-10	MW-04	Water	Dissolved ICP-TAL Metals	Cool 4 deg C	LIRO01	I21	03/12/2024	6010D
P1749-01	MW-1	Water	Metals Group4	1:1 HNO3 to pH < 2	H2MA01	I21	03/12/2024	6010D
P1749-02	MW-2A	Water	Metals Group4	1:1 HNO3 to pH < 2	H2MA01	I21	03/12/2024	6010D
P1749-03	MW-2	Water	Metals Group4	1:1 HNO3 to pH < 2	H2MA01	I21	03/12/2024	6010D
P1749-04	MW-4	Water	Metals Group4	1:1 HNO3 to pH < 2	H2MA01	I21	03/12/2024	6010D
P1734-06	COMP-2	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	I31	03/12/2024	6010D
P1714-04	WATER-TREATMENT-DISCHA	Water	Metals Group4	1:1 HNO3 to pH < 2	VERI01	I22	03/07/2024	6010D

Date/Time 3/14/24 10:48
Raw Sample Received by: A/D Lg. Lab
Raw Sample Relinquished by: CR SM

Date/Time 3/14/24 11:20
Raw Sample Received by: CR SM
Raw Sample Relinquished by: A/D Lg Lab

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129894

Review By	jaswal	Review On	3/19/2024 2:53:55 AM
Supervise By	mohan	Supervise On	3/19/2024 3:35:54 AM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/14/24 12:06		Bin	OK
2	S1	S1	CAL2	03/14/24 12:11		Bin	OK
3	S2	S2	CAL3	03/14/24 12:15		Bin	OK
4	S3	S3	CAL4	03/14/24 12:19		Bin	OK
5	S4	S4	CAL5	03/14/24 12:23		Bin	OK
6	S5	S5	CAL6	03/14/24 12:28		Bin	OK
7	ICV01	ICV01	ICV	03/14/24 12:40		Bin	OK
8	LLICV01	LLICV01	LLICV	03/14/24 12:46		Bin	OK
9	ICB01	ICB01	ICB	03/14/24 12:51		Bin	OK
10	CRI01	CRI01	CRDL	03/14/24 12:56		Bin	OK
11	ICSA01	ICSA01	ICSA	03/14/24 13:00		Bin	OK
12	ICSAB01	ICSAB01	ICSAB	03/14/24 13:04		Bin	OK
13	ICSADL	ICSADL	ICSA	03/14/24 13:09		Bin	OK
14	ICSABDL	ICSABDL	ICSAB	03/14/24 13:13		Bin	OK
15	CCV01	CCV01	CCV	03/14/24 13:18		Bin	OK
16	CCB01	CCB01	CCB	03/14/24 13:22		Bin	OK
17	PB159570BL	PB159570BL	MB	03/14/24 13:31		Bin	OK
18	PB159570BS	PB159570BS	LCS	03/14/24 13:35		Bin	OK
19	P1726-01	M6-CONCRETE	SAM	03/14/24 13:40		Bin	OK
20	P1733-01	WC-1	SAM	03/14/24 13:44		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129894

Review By	jaswal	Review On	3/19/2024 2:53:55 AM
Supervise By	mohan	Supervise On	3/19/2024 3:35:54 AM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

21	P1733-05	WC-2	SAM	03/14/24 13:48		Bin	OK
22	P1733-05DUP	WC-2DUP	DUP	03/14/24 13:53		Bin	OK
23	P1733-05L	WC-2L	SD	03/14/24 13:57		Bin	OK
24	P1733-05MS	WC-2MS	MS	03/14/24 14:01		Bin	OK
25	P1733-05MSD	WC-2MSD	MSD	03/14/24 14:05		Bin	OK
26	P1733-05A	WC-2A	PS	03/14/24 14:09		Bin	OK
27	CCV02	CCV02	CCV	03/14/24 14:14		Bin	OK
28	CCB02	CCB02	CCB	03/14/24 14:18		Bin	OK
29	P1733-09	WC-3	SAM	03/14/24 14:22		Bin	OK
30	P1744-01	RT-3488	SAM	03/14/24 14:27		Bin	OK
31	PB159541BL	PB159541BL	MB	03/14/24 14:31		Bin	OK
32	PB159541BS	PB159541BS	LCS	03/14/24 14:35		Bin	OK
33	P1714-04	WATER-TREATMENT	SAM	03/14/24 14:47	Not Use	Bin	Not Ok
34	P1714-04DUP	WATER-TREATMENT	DUP	03/14/24 14:51	Not Use	Bin	Not Ok
35	P1714-04L	WATER-TREATMENT	SD	03/14/24 14:56	Not Use	Bin	Not Ok
36	P1714-04MS	WATER-TREATMENT	MS	03/14/24 15:00	Not Use	Bin	Not Ok
37	P1714-04MSD	WATER-TREATMENT	MSD	03/14/24 15:05	Not Use	Bin	Not Ok
38	P1714-04A	WATER-TREATMENT	PS	03/14/24 15:09	Not Use	Bin	Not Ok
39	CCV03	CCV03	CCV	03/14/24 15:27		Bin	OK
40	CCB03	CCB03	CCB	03/14/24 15:32		Bin	OK
41	P1734-06	COMP-2	SAM	03/14/24 15:50		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129894

Review By	jaswal	Review On	3/19/2024 2:53:55 AM
Supervise By	mohan	Supervise On	3/19/2024 3:35:54 AM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

42	P1725-01	RT-3860	SAM	03/14/24 15:55		Bin	OK
43	LR1	LR1	HIGH STD	03/14/24 15:59		Bin	OK
44	LR2	LR2	HIGH STD	03/14/24 16:10		Bin	OK
45	CCV04	CCV04	CCV	03/14/24 16:45		Bin	OK
46	CCB04	CCB04	CCB	03/14/24 16:56		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129934

Review By	mohan	Review On	3/27/2024 4:28:31 PM
Supervise By	Kareem	Supervise On	3/27/2024 4:32:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/18/24 16:53		Bin	OK
2	S1	S1	CAL2	03/18/24 16:58		Bin	OK
3	S2	S2	CAL3	03/18/24 17:02		Bin	OK
4	S3	S3	CAL4	03/18/24 17:06		Bin	OK
5	S4	S4	CAL5	03/18/24 17:11		Bin	OK
6	S5	S5	CAL6	03/18/24 17:15		Bin	OK
7	ICV01	ICV01	ICV	03/18/24 17:48	ICV Fail for Co,Fe,Ni (95-105) (200.7)	Bin	OK
8	LLICV01	LLICV01	LLICV	03/18/24 17:54		Bin	OK
9	ICB01	ICB01	ICB	03/18/24 17:58		Bin	OK
10	CRI01	CRI01	CRDL	03/18/24 18:03		Bin	OK
11	ICSA01	ICSA01	ICSA	03/18/24 18:07		Bin	OK
12	ICSAB01	ICSAB01	ICSAB	03/18/24 18:21		Bin	OK
13	ICSADL	ICSADL	ICSA	03/18/24 18:25		Bin	OK
14	ICSABDL	ICSABDL	ICSAB	03/18/24 18:29		Bin	OK
15	CCV01	CCV01	CCV	03/18/24 18:34		Bin	OK
16	CCB01	CCB01	CCB	03/18/24 18:38		Bin	OK
17	PB159517BL	PB159517BL	MB	03/18/24 18:51		Bin	OK
18	PB159517BS	PB159517BS	LCS	03/18/24 18:55		Bin	OK
19	P1675-02	SPRING-2024	SAM	03/18/24 18:59	ICV Fail For Ni	Bin	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129934

Review By	mohan	Review On	3/27/2024 4:28:31 PM
Supervise By	Kareem	Supervise On	3/27/2024 4:32:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

20	P1723-02	EFF-WW	SAM	03/18/24 19:04	ICV Fail For Ni	Bin	Not Ok
21	P1747-03DUP	MW-01DUP	DUP	03/18/24 19:21	ICV Fail For Ni	Bin	Not Ok
22	P1747-03	MW-01	SAM	03/18/24 19:26	ICV Fail For Ni	Bin	Not Ok
23	P1747-03L	MW-01L	SD	03/18/24 19:30	ICV Fail For Ni	Bin	Not Ok
24	P1747-03MS	MW-01MS	MS	03/18/24 19:35	ICV Fail For Ni	Bin	Not Ok
25	P1747-03MSD	MW-01MSD	MSD	03/18/24 19:39	ICV Fail For Ni	Bin	Not Ok
26	P1747-03A	MW-01A	PS	03/18/24 19:43	ICV Fail For Ni	Bin	Not Ok
27	CCV02	CCV02	CCV	03/18/24 19:48		Bin	OK
28	CCB02	CCB02	CCB	03/18/24 19:52		Bin	OK
29	PB159617BL	PB159617BL	MB	03/18/24 19:56		Bin	OK
30	PB159617BS	PB159617BS	LCS	03/18/24 20:01		Bin	OK
31	P1764-10	COMP-1	SAM	03/18/24 20:05		Bin	OK
32	P1764-10DUP	COMP-1DUP	DUP	03/18/24 20:09		Bin	OK
33	P1764-10L	COMP-1L	SD	03/18/24 20:13		Bin	OK
34	P1764-10MS	COMP-1MS	MS	03/18/24 20:18		Bin	OK
35	P1764-10MSD	COMP-1MSD	MSD	03/18/24 20:22		Bin	OK
36	P1764-10A	COMP-1A	PS	03/18/24 20:26		Bin	OK
37	P1764-11	COMP-2	SAM	03/18/24 20:30		Bin	OK
38	P1767-01	NB-07-031424	SAM	03/18/24 20:34		Bin	OK
39	CCV03	CCV03	CCV	03/18/24 21:09		Bin	OK
40	CCB03	CCB03	CCB	03/18/24 21:13		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129934

Review By	mohan	Review On	3/27/2024 4:28:31 PM
Supervise By	Kareem	Supervise On	3/27/2024 4:32:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

41	P1772-01	1151	SAM	03/18/24 21:17		Bin	OK
42	P1772-02	1276	SAM	03/18/24 21:22		Bin	OK
43	P1774-01	TP3	SAM	03/18/24 21:26		Bin	OK
44	P1774-02	TP9	SAM	03/18/24 21:30		Bin	OK
45	LR1	LR1	HIGH STD	03/18/24 21:35		Bin	OK
46	LR2	LR2	HIGH STD	03/18/24 21:45	Need To Confirm For Bed Injection	Bin	OK
47	P1747-01	MW-01	SAM	03/18/24 21:51		Bin	OK
48	P1747-02	MW-01-DUP	SAM	03/18/24 21:55		Bin	OK
49	P1747-04	MW-02	SAM	03/18/24 22:00		Bin	OK
50	P1747-05	TWP-04	SAM	03/18/24 22:04		Bin	OK
51	CCV04	CCV04	CCV	03/18/24 22:27		Bin	OK
52	CCB04	CCB04	CCB	03/18/24 22:31		Bin	OK
53	P1747-07	MW-01	SAM	03/18/24 22:36	Need to Confirm	Bin	OK
54	P1747-08	MW-01-DUP	SAM	03/18/24 22:40		Bin	OK
55	P1747-09	MW-02	SAM	03/18/24 22:44	Need to Confirm	Bin	OK
56	P1747-10	TWP-04	SAM	03/18/24 22:49	Need to Confirm	Bin	OK
57	P1749-01	MW-1	SAM	03/18/24 22:53		Bin	OK
58	P1749-02	MW-2A	SAM	03/18/24 22:58		Bin	OK
59	P1749-03	MW-2	SAM	03/18/24 23:02		Bin	OK
60	P1749-04	MW-4	SAM	03/18/24 23:07		Bin	OK
61	PB159591BL	PB159591BL	MB	03/18/24 23:11		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129934

Review By	mohan	Review On	3/27/2024 4:28:31 PM
Supervise By	Kareem	Supervise On	3/27/2024 4:32:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

62	PB159591BS	PB159591BS	LCS	03/18/24 23:16		Bin	OK
63	CCV05	CCV05	CCV	03/18/24 23:20		Bin	OK
64	CCB05	CCB05	CCB	03/18/24 23:24		Bin	OK
65	P1746-01	SB-01-0-2.0	SAM	03/18/24 23:42		Bin	OK
66	P1746-02	SB-01-4.0-6.0	SAM	03/18/24 23:47		Bin	OK
67	P1746-03	SB-01-4.0-6.0-DUP	SAM	03/18/24 23:51		Bin	OK
68	P1746-04RE	SB-01-7.0-9.5RE	SAM	03/18/24 23:56	Not Required	Bin	Not Ok
69	P1746-06	SB-02-0-2.0	SAM	03/19/24		Bin	OK
70	P1746-08	SB-03-0-2.0	SAM	03/19/24 00:05		Bin	OK
71	P1746-09	SB-03-2.0-3.0	SAM	03/19/24 00:09		Bin	OK
72	P1746-11	SB-04-0-2.0	SAM	03/19/24 00:14		Bin	OK
73	P1746-12	SB-04-2.0-4.0	SAM	03/19/24 00:18		Bin	OK
74	P1746-13	SB-04-4.0-6.0	SAM	03/19/24 00:22		Bin	OK
75	CCV06	CCV06	CCV	03/19/24 00:42		Bin	OK
76	CCB06	CCB06	CCB	03/19/24 00:51		Bin	OK
77	P1746-15	SB-05-0-2.0	SAM	03/19/24 00:56		Bin	OK
78	P1746-16	SB-05-0-2.0-DUP	SAM	03/19/24 01:00		Bin	OK
79	P1746-17	SB-05-2.0-4.5	SAM	03/19/24 01:04		Bin	OK
80	P1746-19	SB-06-0-2.0	SAM	03/19/24 01:09		Bin	OK
81	P1746-19DUP	SB-06-0-2.0DUP	DUP	03/19/24 01:13		Bin	OK
82	P1746-19L	SB-06-0-2.0L	SD	03/19/24 01:17		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129934

Review By	mohan	Review On	3/27/2024 4:28:31 PM
Supervise By	Kareem	Supervise On	3/27/2024 4:32:26 PM

STD. NAME	STD REF.#
ICAL Standard	MP79389,MP79360,MP79397,MP79396,MP79395,MP79394
ICV Standard	MP79393
CCV Standard	MP79398
ICSA Standard	MP79404,MP79405
CRI Standard	MP79360
LCS Standard	
Chk Standard	MP79404,MP79402

83	P1746-19MS	SB-06-0-2.0MS	MS	03/19/24 01:36		Bin	OK
84	P1746-19MSD	SB-06-0-2.0MSD	MSD	03/19/24 01:40		Bin	OK
85	P1746-19A	SB-06-0-2.0A	PS	03/19/24 01:44		Bin	OK
86	P1746-04	SB-01-7.0-9.5	SAM	03/19/24 01:48		Bin	OK
87	CCV07	CCV07	CCV	03/19/24 01:53		Bin	OK
88	CCB07	CCB07	CCB	03/19/24 01:57		Bin	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB129940

Review By	jaswal	Review On	3/19/2024 10:54:26 PM
Supervise By	mohan	Supervise On	3/20/2024 3:30:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP79805,MP79806,MP79807,MP79808,MP79809,MP79810
ICV Standard	MP79811
CCV Standard	MP79813
ICSA Standard	
CRI Standard	MP79816
LCS Standard	
Chk Standard	MP79812,MP79814,MP79817,MP79836

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/19/24 12:17		mohan	OK
2	S0.2	S0.2	CAL2	03/19/24 12:20		mohan	OK
3	S2.5	S2.5	CAL3	03/19/24 12:22		mohan	OK
4	S5	S5	CAL4	03/19/24 12:24		mohan	OK
5	S7.5	S7.5	CAL5	03/19/24 12:26		mohan	OK
6	S10	S10	CAL6	03/19/24 12:31		mohan	OK
7	ICV53	ICV53	ICV	03/19/24 12:37		mohan	OK
8	ICB53	ICB53	ICB	03/19/24 12:39		mohan	OK
9	CCV81	CCV81	CCV	03/19/24 12:42		mohan	OK
10	CCB81	CCB81	CCB	03/19/24 12:44		mohan	OK
11	CRA	CRA	CRDL	03/19/24 12:46		mohan	OK
12	HighStd	HighStd	HIGH STD	03/19/24 12:48		mohan	OK
13	ChkStd	ChkStd	SAM	03/19/24 12:51		mohan	OK
14	PB159624BL	PB159624BL	MB	03/19/24 12:56		mohan	OK
15	PB159624BS	PB159624BS	LCS	03/19/24 12:58		mohan	OK
16	P1746-05	SB-01-COMP	SAM	03/19/24 13:00		mohan	OK
17	P1746-07	SB-02-COMP	SAM	03/19/24 13:02		mohan	OK
18	P1746-10	SB-03-COMP	SAM	03/19/24 13:05		mohan	OK
19	P1746-14	SB-04-COMP	SAM	03/19/24 13:07		mohan	OK
20	P1746-18	SB-05-COMP	SAM	03/19/24 13:09		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB129940

Review By	jaswal	Review On	3/19/2024 10:54:26 PM
Supervise By	mohan	Supervise On	3/20/2024 3:30:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP79805,MP79806,MP79807,MP79808,MP79809,MP79810
ICV Standard	MP79811
CCV Standard	MP79813
ICSA Standard	
CRI Standard	MP79816
LCS Standard	
Chk Standard	MP79812,MP79814,MP79817,MP79836

21	CCV82	CCV82	CCV	03/19/24 13:12		mohan	OK
22	CCB82	CCB82	CCB	03/19/24 13:14		mohan	OK
23	P1746-20	SB-06-COMP	SAM	03/19/24 13:16		mohan	OK
24	P1771-02	COMP-1	SAM	03/19/24 13:18		mohan	OK
25	P1771-04	COMP-2	SAM	03/19/24 13:21		mohan	OK
26	P1771-06	COMP-3	SAM	03/19/24 13:23		mohan	OK
27	P1771-08	COMP-4	SAM	03/19/24 13:25		mohan	OK
28	P1771-08DUP	COMP-4DUP	DUP	03/19/24 13:27		mohan	OK
29	P1771-08MS	COMP-4MS	MS	03/19/24 13:32		mohan	OK
30	P1771-08MSD	COMP-4MSD	MSD	03/19/24 13:35		mohan	OK
31	PB159659BL	PB159659BL	MB	03/19/24 13:37		mohan	OK
32	PB159659BS	PB159659BS	LCS	03/19/24 13:39		mohan	OK
33	CCV83	CCV83	CCV	03/19/24 13:42		mohan	OK
34	CCB83	CCB83	CCB	03/19/24 13:44		mohan	OK
35	P1747-01	MW-01	SAM	03/19/24 13:46		mohan	OK
36	P1747-02	MW-01-DUP	SAM	03/19/24 13:48		mohan	OK
37	P1747-04	MW-02	SAM	03/19/24 13:51		mohan	OK
38	P1747-05	TWP-04	SAM	03/19/24 13:53		mohan	OK
39	P1747-07	MW-01	SAM	03/19/24 13:55		mohan	OK
40	P1747-08	MW-01-DUP	SAM	03/19/24 13:58		mohan	OK
41	P1747-09	MW-02	SAM	03/19/24 14:00		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB129940

Review By	jaswal	Review On	3/19/2024 10:54:26 PM
Supervise By	mohan	Supervise On	3/20/2024 3:30:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP79805,MP79806,MP79807,MP79808,MP79809,MP79810
ICV Standard	MP79811
CCV Standard	MP79813
ICSA Standard	
CRI Standard	MP79816
LCS Standard	
Chk Standard	MP79812,MP79814,MP79817,MP79836

42	P1747-10	TWP-04	SAM	03/19/24 14:02		mohan	OK
43	P1769-01	MW-2	SAM	03/19/24 14:04		mohan	OK
44	P1769-02	MW-1	SAM	03/19/24 14:07		mohan	OK
45	CCV84	CCV84	CCV	03/19/24 14:09		mohan	OK
46	CCB84	CCB84	CCB	03/19/24 14:11		mohan	OK
47	P1769-03	FB-3-14-24	SAM	03/19/24 14:13		mohan	OK
48	P1772-06	1350	SAM	03/19/24 14:16		mohan	OK
49	P1772-08	1346	SAM	03/19/24 14:23		mohan	OK
50	P1772-08DUP	1346DUP	DUP	03/19/24 14:27		mohan	OK
51	P1772-08MS	1346MS	MS	03/19/24 14:32		mohan	OK
52	P1772-08MSD	1346MSD	MSD	03/19/24 14:35		mohan	OK
53	CCV85	CCV85	CCV	03/19/24 14:40		mohan	OK
54	CCB85	CCB85	CCB	03/19/24 14:42		mohan	OK
55	PB159589TB	PB159589TB	MB	03/19/24 14:44		mohan	OK
56	P1771-08L	COMP-4L	SD	03/19/24 14:47		mohan	OK
57	P1771-08A	COMP-4A	PS	03/19/24 14:49		mohan	OK
58	P1772-08L	1346L	SD	03/19/24 14:52		mohan	OK
59	P1772-08A	1346A	PS	03/19/24 14:54		mohan	OK
60	CCV86	CCV86	CCV	03/19/24 14:57		mohan	OK
61	CCB86	CCB86	CCB	03/19/24 14:59		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB129958

Review By	jaswal	Review On	3/20/2024 10:21:07 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP79853,MP79854,MP79855,MP79856,MP79857,MP79858,MP79859
ICV Standard	MP79860
CCV Standard	MP79862
ICSA Standard	
CRI Standard	MP79816
LCS Standard	
Chk Standard	MP79861,MP79863,MP79865,MP79850

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/20/24 13:55		mohan	OK
2	S0.05	S0.05	CAL2	03/20/24 13:58		mohan	OK
3	S0.2	S0.2	CAL3	03/20/24 14:00		mohan	OK
4	S2.5	S2.5	CAL4	03/20/24 14:04		mohan	OK
5	S5	S5	CAL5	03/20/24 14:06		mohan	OK
6	S7.5	S7.5	CAL6	03/20/24 14:09		mohan	OK
7	S10	S10	CAL7	03/20/24 14:16		mohan	OK
8	ICV55	ICV55	ICV	03/20/24 14:24		mohan	OK
9	ICB55	ICB55	ICB	03/20/24 14:26		mohan	OK
10	CCV89	CCV89	CCV	03/20/24 14:33		mohan	OK
11	CCB89	CCB89	CCB	03/20/24 14:35		mohan	OK
12	CRA	CRA	CRDL	03/20/24 14:39		mohan	OK
13	HighStd	HighStd	HIGH STD	03/20/24 14:42		mohan	OK
14	ChkStd	ChkStd	SAM	03/20/24 14:44		mohan	OK
15	PB159691BL	PB159691BL	MB	03/20/24 14:52		mohan	OK
16	PB159691BS	PB159691BS	LCS	03/20/24 14:59		mohan	OK
17	P1187-10	LOD-MDL-WATER-04	SAM	03/20/24 15:10		mohan	OK
18	P1187-10RE	LOD-MDL-WATER-04	SAM	03/20/24 15:12		mohan	OK
19	P1187-12	MDL-WATER-06-QT1	SAM	03/20/24 15:16		mohan	OK
20	P1747-03	MW-01	SAM	03/20/24 15:19		mohan	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB129958

Review By	jaswal	Review On	3/20/2024 10:21:07 PM
Supervise By		Supervise On	

STD. NAME	STD REF.#
ICAL Standard	MP79853,MP79854,MP79855,MP79856,MP79857,MP79858,MP79859
ICV Standard	MP79860
CCV Standard	MP79862
ICSA Standard	
CRI Standard	MP79816
LCS Standard	
Chk Standard	MP79861,MP79863,MP79865,MP79850

21	P1788-01	PEZOMETER-200	SAM	03/20/24 15:22		mohan	OK
22	CCV90	CCV90	CCV	03/20/24 15:24		mohan	OK
23	CCB90	CCB90	CCB	03/20/24 15:26		mohan	OK
24	P1788-02	PEZOMETER-206	SAM	03/20/24 15:29		mohan	OK
25	P1788-02DUP	PEZOMETER-206DU	DUP	03/20/24 15:31		mohan	OK
26	P1788-02MS	PEZOMETER-206MS	MS	03/20/24 15:35		mohan	OK
27	P1788-02MSD	PEZOMETER-206MS	MSD	03/20/24 15:37		mohan	OK
28	P1788-02L	PEZOMETER-206L	SD	03/20/24 15:40		mohan	OK
29	P1788-02A	PEZOMETER-206A	PS	03/20/24 15:43		mohan	OK
30	CCV91	CCV91	CCV	03/20/24 15:47		mohan	OK
31	CCB91	CCB91	CCB	03/20/24 15:50		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/21/24 10:56		Bin	OK
2	S1	S1	CAL2	03/21/24 11:01		Bin	OK
3	S2	S2	CAL3	03/21/24 11:05		Bin	OK
4	S3	S3	CAL4	03/21/24 11:09		Bin	OK
5	S4	S4	CAL5	03/21/24 11:15		Bin	OK
6	S5	S5	CAL6	03/21/24 11:19		Bin	OK
7	ICV01	ICV01	ICV	03/21/24 11:59	ICV Fail for Be,Co,Fe,Mn,S,Tl (95-105) (200.7) & S (90 - 110) (6010D)	Bin	OK
8	LLICV01	LLICV01	LLICV	03/21/24 12:03	LLICV Fail For Cu,S	Bin	OK
9	ICB01	ICB01	ICB	03/21/24 12:07		Bin	OK
10	CRI01	CRI01	CRDL	03/21/24 12:12		Bin	OK
11	ICSA01	ICSA01	ICSA	03/21/24 12:16		Bin	OK
12	ICSAB01	ICSAB01	ICSAB	03/21/24 12:21		Bin	OK
13	ICSADL	ICSADL	ICSA	03/21/24 12:25		Bin	OK
14	ICSABDL	ICSABDL	ICSAB	03/21/24 12:29		Bin	OK
15	CCV01	CCV01	CCV	03/21/24 12:34		Bin	OK
16	CCB01	CCB01	CCB	03/21/24 12:38		Bin	OK
17	P1675-02	SPRING-2024	SAM	03/21/24 12:43		Bin	OK
18	P1792-01	72-11977	SAM	03/21/24 12:47		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	P1793-02	MS	MS	03/21/24 12:52		Bin	OK
20	P1792-01DL	72-11977DL	SAM	03/21/24 13:03	Not Required	Bin	Not Ok
21	P1792-01DL2	72-11977DL2	SAM	03/21/24 13:08	Not Required	Bin	Not Ok
22	P1772-06DL	1350DL	SAM	03/21/24 13:12		Bin	OK
23	P1772-08DL	1346DL	SAM	03/21/24 13:16		Bin	OK
24	P1772-06DL2	1350DL2	SAM	03/21/24 13:21	Not Required	Bin	Not Ok
25	P1772-06DL3	1350DL	SAM	03/21/24 13:25	Not Required	Bin	Not Ok
26	PB159589TB	PB159589TB	MB	03/21/24 13:30		Bin	OK
27	CCV02	CCV02	CCV	03/21/24 13:34		Bin	OK
28	CCB02	CCB02	CCB	03/21/24 13:39		Bin	OK
29	P1747-03	MW-01	SAM	03/21/24 13:43		Bin	OK
30	P1747-03DUP	MW-01DUP	DUP	03/21/24 13:48		Bin	OK
31	P1747-03L	MW-01L	SD	03/21/24 13:52		Bin	OK
32	P1747-03MS	MW-01MS	MS	03/21/24 13:56		Bin	OK
33	P1747-03MSD	MW-01MSD	MSD	03/21/24 14:00		Bin	OK
34	P1747-03A	MW-01A	PS	03/21/24 14:04		Bin	OK
35	P1714-04	WATER-TREATMENT	SAM	03/21/24 14:09		Bin	OK
36	P1714-04DUP	WATER-TREATMENT	DUP	03/21/24 14:13	K,Na High	Bin	Dilution
37	P1714-04L	WATER-TREATMENT	SD	03/21/24 14:18	Na High	Bin	Dilution
38	CCV03	CCV03	CCV	03/21/24 14:27		Bin	OK
39	CCB03	CCB03	CCB	03/21/24 14:31		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

40	P1714-04MSD	WATER-TREATMENT	MSD	03/21/24 14:39	K,Na High	Bin	Dilution
41	P1714-04A	WATER-TREATMENT	PS	03/21/24 14:43		Bin	OK
42	PB159618BL	PB159618BL	MB	03/21/24 14:47		Bin	OK
43	PB159618BS	PB159618BS	LCS	03/21/24 14:54		Bin	OK
44	P1786-01	TP-15	SAM	03/21/24 14:58	ICV Fail For S	Bin	Not Ok
45	P1786-01DUP	TP-15DUP	DUP	03/21/24 15:02	ICV Fail For S	Bin	Not Ok
46	P1786-01L	TP-15L	SD	03/21/24 15:06	ICV Fail For S	Bin	Not Ok
47	CCV04	CCV04	CCV	03/21/24 15:23		Bin	OK
48	CCB04	CCB04	CCB	03/21/24 15:28		Bin	OK
49	P1791-01	SU-04-03182024	SAM	03/21/24 15:32		Bin	OK
50	P1801-01	OR-03-031924	SAM	03/21/24 15:37		Bin	OK
51	P1803-01	TRENCH-PIT	SAM	03/21/24 15:41		Bin	OK
52	P1804-01	JC-03-03192024-A	SAM	03/21/24 15:45		Bin	OK
53	P1804-03	JC-03-03192024-B	SAM	03/21/24 15:49		Bin	OK
54	P1714-04MS	WATER-TREATMENT	MS	03/21/24 15:53	K,Na High	Bin	Dilution
55	PB159641BL	PB159641BL	MB	03/21/24 15:58	CCV Fail For S	Bin	Not Ok
56	P1800-01	1394	SAM	03/21/24 16:07		Bin	OK
57	PB159641BS	PB159641BS	LCS	03/21/24 16:15	CCV Fail For S	Bin	Not Ok
58	P1816-01	PL-01-032024	SAM	03/21/24 16:19		Bin	OK
59	CCV05	CCV05	CCV	03/21/24 16:29	CCV Fail For S	Bin	OK
60	CCB05	CCB05	CCB	03/21/24 16:33		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

61	LR1	LR1	HIGH STD	03/21/24 16:59		Bin	OK
62	LR2	LR2	HIGH STD	03/21/24 17:06		Bin	OK
63	P1816-01MS	PL-01-032024MS	MS	03/21/24 17:11		Bin	OK
64	P1816-01MSD	PL-01-032024MSD	MSD	03/21/24 17:16		Bin	OK
65	P1816-01A	PL-01-032024A	PS	03/21/24 17:20		Bin	OK
66	P1803-02	TRENCH-PIT	SAM	03/21/24 17:24		Bin	OK
67	P1807-01DL	3461DL	SAM	03/21/24 17:29		Bin	OK
68	P1807-02	3443	SAM	03/21/24 17:33		Bin	OK
69	P1807-03	3436-37	SAM	03/21/24 17:38		Bin	OK
70	P1807-04	3450-59	SAM	03/21/24 17:42		Bin	OK
71	CCV06	CCV06	CCV	03/21/24 17:52		Bin	OK
72	CCB06	CCB06	CCB	03/21/24 17:57		Bin	OK
73	P1807-05DL	3462DL	SAM	03/21/24 18:11		Bin	OK
74	P1807-05DUPDL	3462DUPDL	DUP	03/21/24 18:16		Bin	OK
75	P1807-05LDL	3462LDL	SD	03/21/24 18:20		Bin	OK
76	P1807-05MSDL	3462MSDL	MS	03/21/24 18:25		Bin	OK
77	P1807-05MSDDL	3462MSDDL	MSD	03/21/24 18:29		Bin	OK
78	P1807-05ADL	3462ADL	PS	03/21/24 18:43		Bin	OK
79	P1816-01DUP	PL-01-032024DUP	DUP	03/21/24 18:48		Bin	OK
80	P1816-01L	PL-01-032024L	SD	03/21/24 18:52		Bin	OK
81	CCV07	CCV07	CCV	03/21/24 18:56	CCV Fail For S	Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

82	CCB07	CCB07	CCB	03/21/24 19:01		Bin	OK
83	P1814-01RE	TP-6RE	SAM	03/21/24 19:20	Not Required	Bin	Not Ok
84	P1815-01	OK-01-032024	SAM	03/21/24 19:24		Bin	OK
85	P1817-01	B-148-SB01	SAM	03/21/24 19:29		Bin	OK
86	P1817-02	B-148-SB03	SAM	03/21/24 19:33		Bin	OK
87	P1817-03	B-148-SB02	SAM	03/21/24 19:37		Bin	OK
88	P1821-01	72-12002	SAM	03/21/24 19:41		Bin	OK
89	P1786-02	TP-22	SAM	03/21/24 19:46		Bin	OK
90	P1616-01	196-BAY-AVENUE	SAM	03/21/24 19:50	CCV Fail For S	Bin	Not Ok
91	P1616-03	146-BAY-AVENUE	SAM	03/21/24 19:54	CCV Fail For S	Bin	Not Ok
92	P1792-01RE	72-11977RE	SAM	03/21/24 19:58	Not Required	Bin	Not Ok
93	CCV08	CCV08	CCV	03/21/24 20:03		Bin	OK
94	CCB08	CCB08	CCB	03/21/24 20:07		Bin	OK
95	P1793-02RE	OILY-DEBRIS-DRUM	MS	03/21/24 20:12	Not Required	Bin	Not Ok
96	P1810-01	342	SAM	03/21/24 20:16		Bin	OK
97	PB159695BL	PB159695BL	MB	03/21/24 20:21		Bin	OK
98	PB159695BS	PB159695BS	LCS	03/21/24 20:25		Bin	OK
99	PB159714BL	PB159714BL	MB	03/21/24 20:29		Bin	OK
100	PB159714BS	PB159714BS	LCS	03/21/24 20:34		Bin	OK
101	PB159676TB	PB159676TB	MB	03/21/24 20:38		Bin	OK
102	P1798-01	S-1	SAM	03/21/24 20:43		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

103	P1798-02	S-2	SAM	03/21/24 20:47		Bin	OK
104	P1798-03	S-3	SAM	03/21/24 20:52		Bin	OK
105	CCV09	CCV09	CCV	03/21/24 21:03		Bin	OK
106	CCB09	CCB09	CCB	03/21/24 21:08		Bin	OK
107	P1798-04	S-4	SAM	03/21/24 21:12		Bin	OK
108	P1798-05	S-5	SAM	03/21/24 21:17		Bin	OK
109	P1798-06RE	S-6RE	SAM	03/21/24 21:21	Not Required	Bin	Not Ok
110	P1798-07	S-7	SAM	03/21/24 21:26		Bin	OK
111	P1798-08	S-8	SAM	03/21/24 21:30		Bin	OK
112	P1798-09	S-9	SAM	03/21/24 21:35		Bin	OK
113	P1798-10	S-10	SAM	03/21/24 21:39		Bin	OK
114	P1798-11	S-11	SAM	03/21/24 21:44		Bin	OK
115	P1798-12	S-12	SAM	03/21/24 21:48		Bin	OK
116	P1798-13	S-13	SAM	03/21/24 21:53		Bin	OK
117	CCV10	CCV10	CCV	03/21/24 21:58		Bin	OK
118	CCB10	CCB10	CCB	03/21/24 22:02		Bin	OK
119	P1798-14	S-14	SAM	03/21/24 22:07		Bin	OK
120	P1798-15	S-15	SAM	03/21/24 22:11		Bin	OK
121	PB159715BL	PB159715BL	MB	03/21/24 22:16		Bin	OK
122	PB159715BS	PB159715BS	LCS	03/21/24 22:20		Bin	OK
123	PB159640BL	PB159640BL	MB	03/21/24 22:24		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

124	PB159640BS	PB159640BS	LCS	03/21/24 22:29		Bin	OK
125	P1784-01	MW-5B	SAM	03/21/24 22:33		Bin	OK
126	P1784-01DUP	MW-5BDUP	DUP	03/21/24 22:37		Bin	OK
127	P1784-01L	MW-5BL	SD	03/21/24 22:42		Bin	OK
128	P1784-01MS	MW-5BMS	MS	03/21/24 22:46		Bin	OK
129	CCV11	CCV11	CCV	03/21/24 22:51		Bin	OK
130	CCB11	CCB11	CCB	03/21/24 22:55		Bin	OK
131	P1784-01MSD	MW-5BMSD	MSD	03/21/24 23:00		Bin	OK
132	P1784-01A	MW-5BA	PS	03/21/24 23:04		Bin	OK
133	P1784-02	MW-7	SAM	03/21/24 23:08		Bin	OK
134	P1784-03	MW-3	SAM	03/21/24 23:13		Bin	OK
135	P1814-01	TP-6	SAM	03/21/24 23:17		Bin	OK
136	P1786-01MS	TP-15MS	MS	03/21/24 23:22	ICV Fail For S	Bin	Not Ok
137	P1786-01MSD	TP-15MSD	MSD	03/21/24 23:26	ICV Fail For S	Bin	Not Ok
138	P1786-01A	TP-15A	PS	03/21/24 23:30	ICV Fail For S	Bin	Not Ok
139	P1798-06	S-6	SAM	03/21/24 23:34		Bin	OK
140	PB159689TB	PB159689TB	MB	03/21/24 23:39		Bin	OK
141	CCV12	CCV12	CCV	03/21/24 23:43		Bin	OK
142	CCB12	CCB12	CCB	03/21/24 23:51		Bin	OK
143	P1827-01	72-11933	SAM	03/21/24 23:55		Bin	OK
144	P1827-01DL	72-11933DL	SAM	03/22/24	Not Required	Bin	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB129987

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

145	PB159637BL	PB159637BL	MB	03/22/24 00:10	ICV Fail For Fe	Bin	Not Ok
146	PB159637BS	PB159637BS	LCS	03/22/24 00:14	ICV Fail For Fe	Bin	Not Ok
147	P1788-01	PEZOMETER-200	SAM	03/22/24 00:18		Bin	OK
148	P1788-02	PEZOMETER-206	SAM	03/22/24 00:23		Bin	OK
149	CCV13	CCV13	CCV	03/22/24 00:37		Bin	OK
150	CCB13	CCB13	CCB	03/22/24 00:41		Bin	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB130043

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/26/24 10:29		Bin	OK
2	S1	S1	CAL2	03/26/24 10:33		Bin	OK
3	S2	S2	CAL3	03/26/24 10:38		Bin	OK
4	S3	S3	CAL4	03/26/24 10:42		Bin	OK
5	S4	S4	CAL5	03/26/24 10:46		Bin	OK
6	S5	S5	CAL6	03/26/24 10:51		Bin	OK
7	ICV01	ICV01	ICV	03/26/24 11:09	ICV Fail for Mo,Ni,Na,Tl (95-105) (200.7) & Mo (90-110) (6010D)	Bin	OK
8	LLICV01	LLICV01	LLICV	03/26/24 11:14		Bin	OK
9	ICB01	ICB01	ICB	03/26/24 11:18		Bin	OK
10	CRI01	CRI01	CRDL	03/26/24 11:22		Bin	OK
11	ICSA01	ICSA01	ICSA	03/26/24 12:56		Bin	OK
12	ICSAB01	ICSAB01	ICSAB	03/26/24 13:03		Bin	OK
13	ICSADL	ICSADL	ICSA	03/26/24 13:07		Bin	OK
14	ICSABDL	ICSABDL	ICSAB	03/26/24 13:12		Bin	OK
15	CCV01	CCV01	CCV	03/26/24 13:26	CCV Fail For Mg,K	Bin	OK
16	CCB01	CCB01	CCB	03/26/24 13:30		Bin	OK
17	P1797-01	001-WILLETS-PT-BL	SAM	03/26/24 13:43		Bin	OK
18	P1797-02	002-35TH-AVE(MAR)	SAM	03/26/24 13:48		Bin	OK
19	P1845-01	BELL-CON	SAM	03/26/24 13:52		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

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Review By	Review On
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STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

20	P1832-01DL	600581536DL	SAM	03/26/24 13:56	10X For Fe	Bin	Confirms
21	P1844-01	BURL-OIL	SAM	03/26/24 14:01		Bin	OK
22	P1844-03	BURL-OILY-DEBRIS	SAM	03/26/24 14:05		Bin	OK
23	P1843-01	FREEDOM-OIL	SAM	03/26/24 14:09		Bin	OK
24	P1820-01DL2	WASTE-WATERDL2	SAM	03/26/24 14:14	10X For Fe	Bin	Confirms
25	P1830-02DL	VNJ-206DL	SAM	03/26/24 14:19	10X For Fe	Bin	Confirms
26	P1830-04DL	VNJ-226DL	SAM	03/26/24 14:23	10X For Fe	Bin	Confirms
27	CCV02	CCV02	CCV	03/26/24 15:07		Bin	OK
28	CCB02	CCB02	CCB	03/26/24 15:26		Bin	OK
29	P1828-04	TRE-1290	SAM	03/26/24 15:31		Bin	OK
30	P1831-01DL	CL-01-032124DL	SAM	03/26/24 15:35	10X For Ca,Fe,Mg	Bin	Confirms
31	P1847-01	SU-02-032224	SAM	03/26/24 15:40		Bin	OK
32	P1829-01DL	TR-05-031224DL	SAM	03/26/24 15:44	10X For Ca,Fe,Mg	Bin	Confirms
33	P1842-01	EO-01-03222024-A	SAM	03/26/24 15:48		Bin	OK
34	P1842-03	EO-01-03222024-B	SAM	03/26/24 15:53		Bin	OK
35	LR-1	LR-1	HIGH STD	03/26/24 15:57		Bin	OK
36	LR-2	LR-2	HIGH STD	03/26/24 16:02		Bin	OK
37	PB159696BL	PB159696BL	MB	03/26/24 16:16		Bin	OK
38	PB159696BS	PB159696BS	LCS	03/26/24 16:20		Bin	OK
39	CCV03	CCV03	CCV	03/26/24 16:36		Bin	OK
40	CCB03	CCB03	CCB	03/26/24 16:40		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB130043

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

41	PB159759BL	PB159759BL	MB	03/26/24 16:45		Bin	OK
42	PB159759BS	PB159759BS	LCS	03/26/24 16:49		Bin	OK
43	PB159637BL	PB159637BL	MB	03/26/24 16:53	CCV Fail For Cd	Bin	Not Ok
44	PB159637BS	PB159637BS	LCS	03/26/24 16:58	CCV Fail For Cd	Bin	Not Ok
45	P1847-01DUP	SU-02-032224DUP	DUP	03/26/24 17:02		Bin	OK
46	P1847-01L	SU-02-032224L	SD	03/26/24 17:06		Bin	OK
47	P1847-01MS	SU-02-032224MS	MS	03/26/24 17:11		Bin	OK
48	P1847-01MSD	SU-02-032224MSD	MSD	03/26/24 17:15		Bin	OK
49	P1847-01A	SU-02-032224A	PS	03/26/24 17:19		Bin	OK
50	CCV04	CCV04	CCV	03/26/24 17:23	CCV Fail For Cd,Tl	Bin	OK
51	CCB04	CCB04	CCB	03/26/24 17:28		Bin	OK
52	P1828-04DUP	TRE-1290DUP	DUP	03/26/24 17:32		Bin	OK
53	P1828-04L	TRE-1290L	SD	03/26/24 17:37		Bin	OK
54	P1828-04MS	TRE-1290MS	MS	03/26/24 17:41		Bin	OK
55	P1828-04MSD	TRE-1290MSD	MSD	03/26/24 17:45		Bin	OK
56	P1828-04A	TRE-1290A	PS	03/26/24 17:50		Bin	OK
57	P1829-01DUPDL	TR-05-031224DUPDL	DUP	03/26/24 17:54	10X For Ca,Fe,Mg	Bin	Confirms
58	P1829-01LDL	TR-05-031224LDL	SD	03/26/24 17:58	50X For Fe	Bin	Confirms
59	P1829-01MSDL	TR-05-031224MSDL	MS	03/26/24 18:03	10X For Ca,Fe,Mg	Bin	Confirms
60	P1829-01MSDDL	TR-05-031224MSDDL	MSD	03/26/24 18:07	10X For Ca,Fe,Mg	Bin	Confirms
61	CCV05	CCV05	CCV	03/26/24 18:12		Bin	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB130043

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

62	CCB05	CCB05	CCB	03/26/24 18:16		Bin	OK
63	P1714-04DL	WATER-TREATMENT	SAM	03/26/24 18:20	Not Use	Bin	Not Ok
64	P1714-04DUPDL	WATER-TREATMENT	DUP	03/26/24 18:25	10X For Na	Bin	Confirms
65	P1714-04LDL	WATER-TREATMENT	SD	03/26/24 18:30	50X For Na	Bin	Confirms
66	P1714-04MSDL	WATER-TREATMENT	MS	03/26/24 18:34	10X For Na	Bin	Confirms
67	P1714-04MSDDL	WATER-TREATMENT	MSD	03/26/24 18:39	10X For Na	Bin	Confirms
68	P1714-04ADL	WATER-TREATMENT	PS	03/26/24 18:43	Not Use	Bin	Not Ok
69	CCV06	CCV06	CCV	03/26/24 18:48	CCV Fail For Mg	Bin	OK
70	CCB06	CCB06	CCB	03/26/24 18:52		Bin	OK

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Prep Standard - Chemical Standard Summary

Order ID : P1747

Test : Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL,METALS-NYCD

Prepbatch ID : PB159517,PB159541,PB159659,PB159691,

Sequence ID/Qc Batch ID: LB129894,LB129894,LB129934,LB129934,LB129934,LB129934,LB129934,LB129934,LB129940,LB12

Standard ID :
MP78706,MP79051,MP79358,MP79359,MP79360,MP79389,MP79393,MP79394,MP79395,MP79396,MP79397,MP79398,
MP79401,MP79402,MP79404,MP79405,MP79455,MP79456,MP79457,MP79458,MP79804,MP79805,MP79806,MP79807,
MP79808,MP79809,MP79810,MP79811,MP79812,MP79813,MP79814,MP79816,MP79817,MP79830,MP79836,MP79850,
MP79852,MP79853,MP79854,MP79855,MP79856,MP79857,MP79858,MP79859,MP79860,MP79861,MP79862,MP79863,
MP79865,

Chemical ID :
M4251,M4399,M4465,M4589,M4877,M4880,M4881,M4882,M4883,M4884,M4885,M4888,M4889,M4891,M4901,M4916,M4
939,M4960,M4961,M5019,M5020,M5062,M5100,M5129,M5184,M5192,M5200,M5218,M5222,M5224,M5227,M5228,M5288
,M5294,M5298,M5387,M5395,M5429,M5496,M5498,M5518,M5521,M5531,M5613,M5643,M5649,M5658,M5735,M5748,M5
762,M5776,M5789,M5792,M5798,M5799,M5800,M5801,M5821,M5830,W2606,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP78706	12/20/2023	06/12/2024	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 12/20/2023

FROM 1250.00000ml of M5735 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP79051	01/19/2024	07/19/2024	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 01/19/2024

FROM 1250.00000ml of M5762 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP79358	02/09/2024	03/02/2024	Bin He	None	None	Sarabjit Jaswal 02/12/2024

FROM 125.00000ml of M5762 + 2350.00000ml of W2606 + 25.00000ml of M5789 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP79359	02/09/2024	03/10/2024	Bin He	None	None	Sarabjit Jaswal 02/12/2024

FROM 0.03000ml of M4877 + 0.03000ml of M5798 + 0.05000ml of M4885 + 0.05000ml of M5298 + 0.05000ml of M5496 + 0.05000ml of M5658 + 0.06000ml of M4881 + 0.10000ml of M4880 + 0.10000ml of M4883 + 0.10000ml of M4939 + 0.10000ml of M5184 + 0.10000ml of M5228 + 0.10000ml of M5521 + 0.10000ml of M5801 + 0.15000ml of M5800 + 0.20000ml of M4888 + 0.20000ml of M4889 + 0.20000ml of M4891 + 0.20000ml of M5227 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.25000ml of M5224 + 0.50000ml of M4901 + 0.50000ml of M5387 + 1.00000ml of M5192 + 1.00000ml of M5200 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5518 + 2.00000ml of M4882 + 2.00000ml of M4884 + 87.38000ml of MP79358 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP79360	02/09/2024	03/18/2024	Bin He	None	None	Sarabjit Jaswal 02/12/2024

FROM 196.00000ml of MP79358 + 4.00000ml of MP79359 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP79389	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 125.00000ml of M5792 + 1969.00000ml of W2606 + 20.00000ml of M5789 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP79393	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 0.02500ml of M5019 + 0.02500ml of M5020 + 0.02500ml of M5429 + 0.25000ml of M5218 + 0.25000ml of M5228 + 10.00000ml of M5294 + 89.77500ml of MP79389 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP79394	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 5.00000ml of M4589 + 5.00000ml of M4880 + 5.00000ml of M4882 + 5.00000ml of M4939 + 5.00000ml of M5100 + 5.00000ml of M5224 + 5.00000ml of M5228 + 5.00000ml of M5395 + 460.00000ml of MP79389 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP79395	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 16.00000ml of MP79394 + 184.00000ml of MP79389 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP79396	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 100.00000ml of MP79389 + 100.00000ml of MP79394 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP79397	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 16.00000ml of MP79394 + 184.00000ml of MP79389 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP79398	02/12/2024	03/18/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 100.00000ml of MP79389 + 100.00000ml of MP79394 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP79401	02/12/2024	03/25/2024	Bin He	None	None	Sarabjit Jaswal 02/14/2024

FROM 125.00000ml of M5792 + 2350.00000ml of W2606 + 25.00000ml of M5789 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP79402	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 200.00000ml of M5789 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP79404	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 1.00000ml of M4961 + 10.00000ml of M4960 + 1969.00000ml of W2606 + 20.00000ml of M5789 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP79405	02/12/2024	03/25/2024	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 02/14/2024

FROM 10.00000ml of M5129 + 10.00000ml of M5222 + 80.00000ml of MP79401 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP79455	02/14/2024	07/30/2024	Mohan Bera	None	None	Sarabjit Jaswal 02/14/2024

FROM 1600.00000ml of M5613 + 800.00000ml of M5789 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP79456	02/14/2024	08/14/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 02/14/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP79457	02/14/2024	08/14/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 02/14/2024

FROM 100.00000ml of M4465 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP79458	02/14/2024	08/14/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 02/14/2024

FROM 2000.00000ml of W2606 + 240.00000gram of M4251 + 240.00000gram of M4399 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP79804	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 1.00000ml of M5821 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP79805	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP79806	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 247.30000ml of W2606 + 0.20000ml of MP79804 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP79807	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 245.00000ml of W2606 + 2.50000ml of MP79804 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP79808	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 242.50000ml of W2606 + 5.00000ml of MP79804 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP79809	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 240.00000ml of W2606 + 7.50000ml of MP79804 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP79810	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 237.50000ml of W2606 + 10.00000ml of MP79804 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP79811	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5531 + 2.50000ml of M5821 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP79812	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP79813	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 485.00000ml of W2606 + 5.00000ml of M5821 + 10.00000ml of MP79804 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP79814	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 495.00000ml of W2606 + 5.00000ml of M5821 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP79816	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 247.30000ml of W2606 + 0.20000ml of MP79804 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP79817	03/15/2024	03/16/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/15/2024

FROM 2.50000ml of M5821 + 240.50000ml of W2606 + 7.00000ml of MP79804 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP79830	03/19/2024	03/20/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/19/2024

FROM 1.00000ml of M5821 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP79836	03/19/2024	03/20/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/19/2024

FROM 2.50000ml of M5821 + 237.50000ml of W2606 + 10.00000ml of MP79830 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP79850	03/20/2024	03/21/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 03/20/2024

FROM 450.00000ml of W2606 + 50.00000gram of M5776 + 50.00000ml of M5792 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP79852	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 1.00000ml of M5821 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP79853	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2750	Hg 0.05ppb	MP79854	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 247.45000ml of W2606 + 0.05000ml of MP79852 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP79855	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 247.30000ml of W2606 + 0.20000ml of MP79852 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP79856	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 245.00000ml of W2606 + 2.50000ml of MP79852 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP79857	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 242.50000ml of W2606 + 5.00000ml of MP79852 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP79858	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 240.00000ml of W2606 + 7.50000ml of MP79852 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP79859	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 237.50000ml of W2606 + 10.00000ml of MP79852 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP79860	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5531 + 2.50000ml of M5821 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP79861	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP79862	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 485.00000ml of W2606 + 5.00000ml of M5821 + 10.00000ml of MP79852 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP79863	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 495.00000ml of W2606 + 5.00000ml of M5821 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP79865	03/20/2024	03/21/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/20/2024

FROM 2.50000ml of M5821 + 240.50000ml of W2606 + 7.00000ml of MP79852 = Final Quantity: 250.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	12/19/2018 / mohan	12/05/2018 / mohan	M4251

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000187425	08/16/2024	08/16/2019 / RICHARD	07/08/2019 / RICHARD	M4399

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 /	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	R2-MEB694243	06/29/2024	07/13/2020 / bin	07/02/2020 / bin	M4589

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	031921	03/19/2024	08/06/2021 / jaswal	08/06/2021 / jaswal	M4901

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	030221	03/10/2024	09/23/2021 / bin	09/22/2021 / bin	M4939

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58139 / Y, 10000 PPM, 500 ml	052521	05/25/2024	10/09/2021 / jaswal	01/25/2019 / jaswal	M4961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	03/04/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	04/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	R2-MEB689870	03/14/2024	03/14/2022 / bin	04/29/2020 / bin	M5100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	04/28/2024	10/28/2023 /	04/20/2021 / bin	M5129

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	07/01/2024	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	04/28/2024	10/28/2023 /	04/20/2021 / bin	M5222

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5228

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	01/01/2025	12/13/2023 / bin	02/20/2020 / bin	M5294

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	01/30/2024 / bin	09/19/2022 / bin	M5395

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	06/30/2024	10/31/2023 /	03/30/2023 / mohan	M5531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000265056	11/05/2025	07/13/2023 / mohan	07/07/2023 / mohan	M5613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/17/2024	08/18/2023 / bin	04/16/2023 / bin	M5643

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	T2-MEB715594	02/17/2027	12/11/2023 / bin	04/16/2023 / bin	M5649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	06/12/2024	12/19/2023 / jaswal	06/26/2023 / Al-Terek	M5735

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000281827	03/29/2026	12/29/2023 /	12/01/2023 / Al-Terek	M5762

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	0000281938	07/06/2026	06/26/2023 / mohan	07/18/2023 / mohan	M5776

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	07/30/2024	02/08/2024 / Al-Terek	06/26/2023 / Al-Terek	M5789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	08/05/2024	02/05/2024 / Al-Terek	02/24/2022 / Al-Terek	M5792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	02/09/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	08/16/2024	02/16/2024 / Al-Terek	06/26/2023 / Al-Terek	M5821

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22A2562001	09/08/2024	03/11/2024 / Al-Terek	01/12/2022 / Al-Terek	M5830

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5613
2B

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000265056
Manufactured Date: 2020/05/12
Retest Date: 2025/05/11
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	< 1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	< 1.0
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

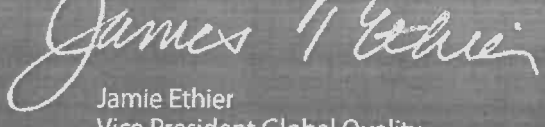
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000265056

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	3.3
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	< 0.2
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	17.8
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	1.5
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	R2-MEB689870
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.24 µg/mL**	**Calcium, Ca**	**5 000 ± 20 µg/mL**
Chromium, Cr	**200.0 ± 1.2 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 1.9 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 18 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**500.0 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.1 µg/mL**

Density: 1.116 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	EDTA	928	928
Co	ICP Assay	traceable to 3113	M2-CO661665
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 14, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 14, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

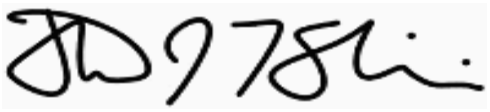
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5776-83
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

M4251
JB

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

IM4399

Supplied – 07.08.19

Material No.: 3624-05
Batch No.: 0000187425
Manufactured Date: 2017/08/03
Retest Date: 2024/08/01

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	99.8
pH of 5% Solution at 25°C	5.0 - 9.0	5.8
ACS - Insoluble Matter	<= 0.005 %	0.003
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.003
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.002
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	< 0.005

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

RS 08.16.19

ISO
Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.
3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

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CERTIFICATE OF ANALYSIS

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	R2-MEB694243
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.031 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

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k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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u_{bb} = bottle to bottle homogeneity standard uncertainty

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u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 29, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 29, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

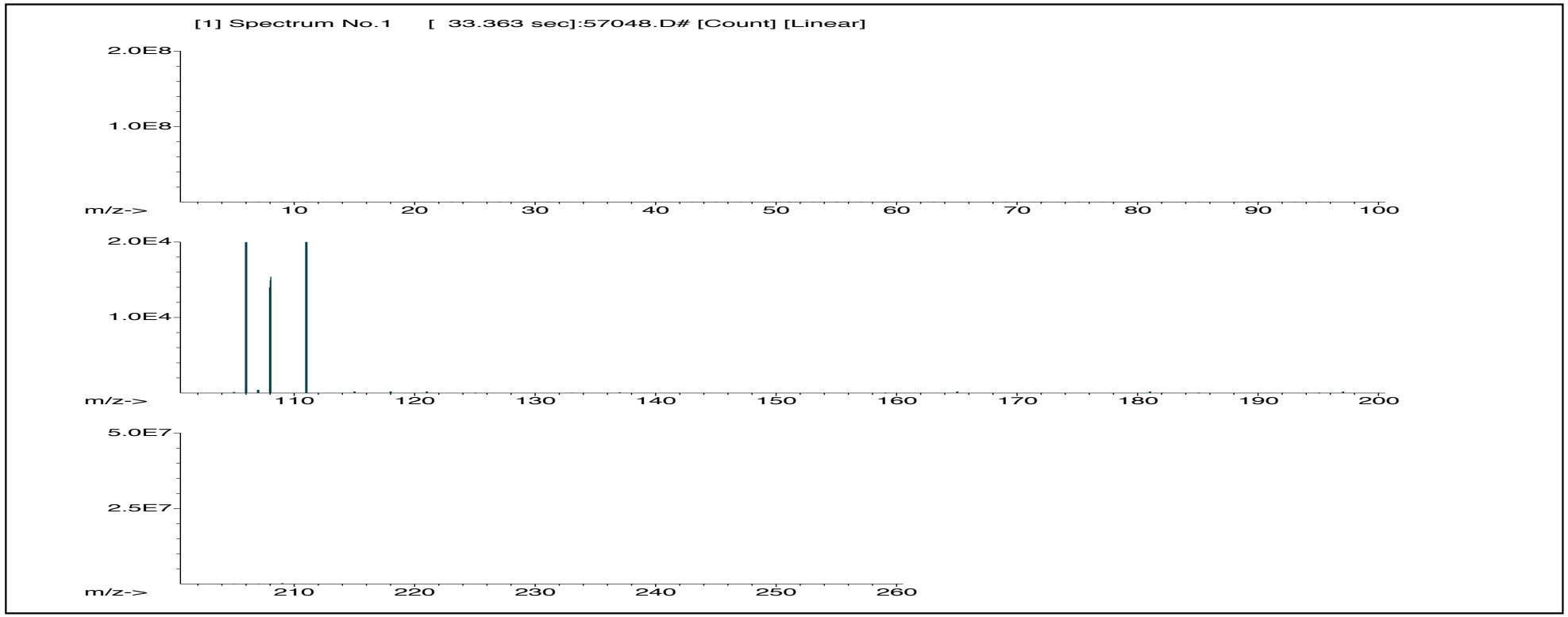
Giovanni Esposito

Formulated By: Giovanni Esposito 072821

Pedro Rentas

Reviewed By: Pedro L. Rentas 072821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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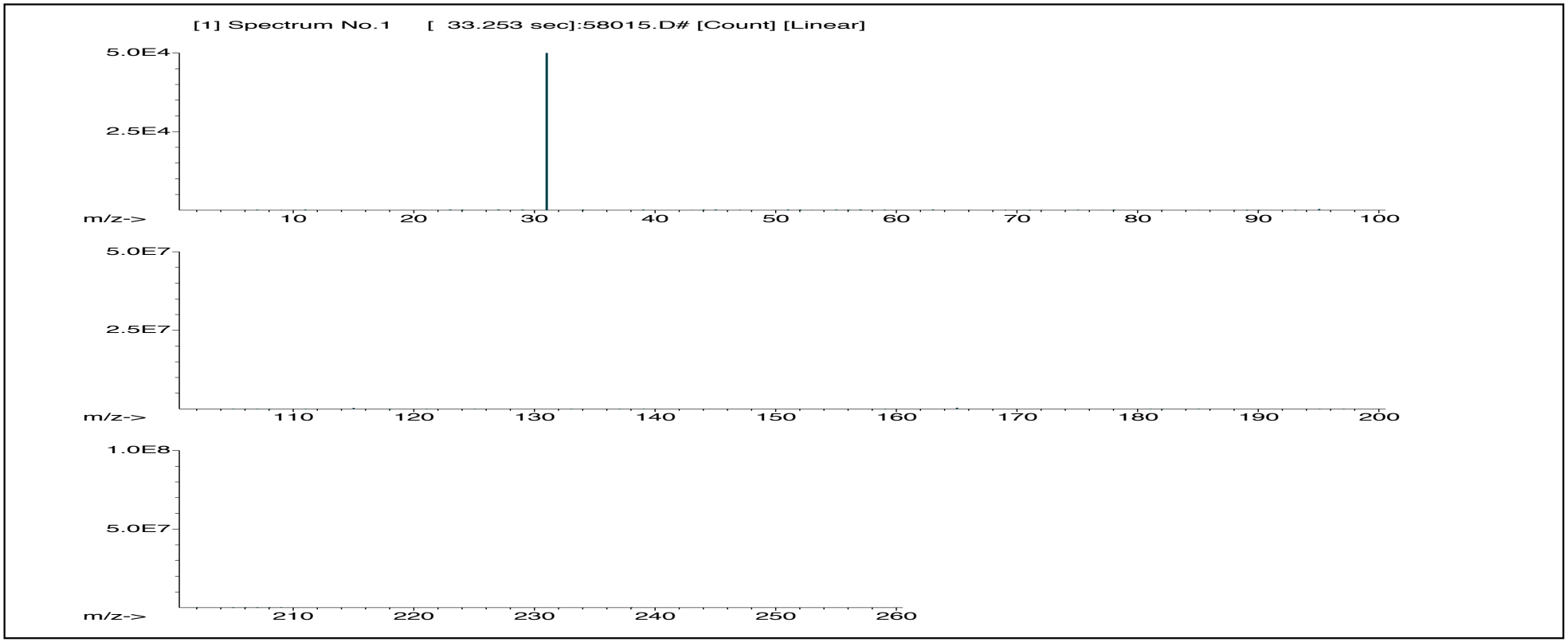
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry 051121
Reviewed By:	Pedro L. Rentas 051121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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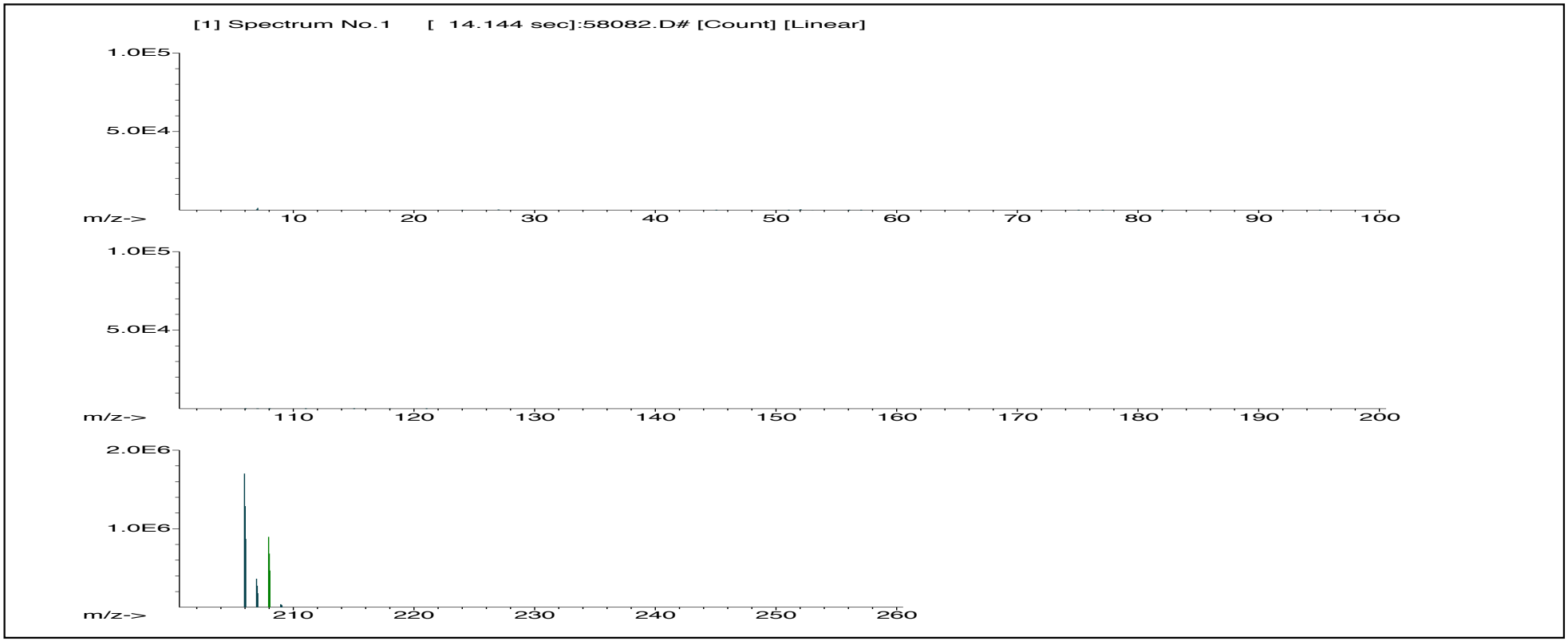
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	062224		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry 062221
Reviewed By:	Pedro L. Rentas 062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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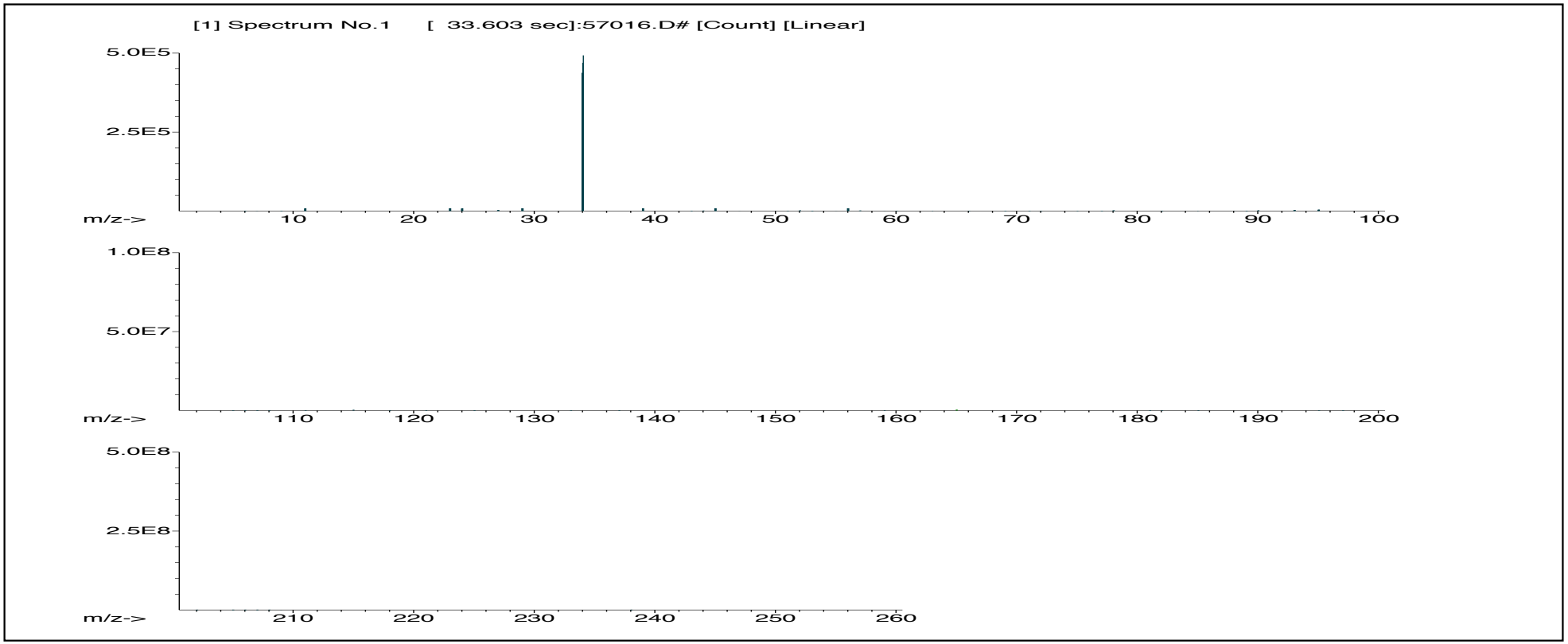
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

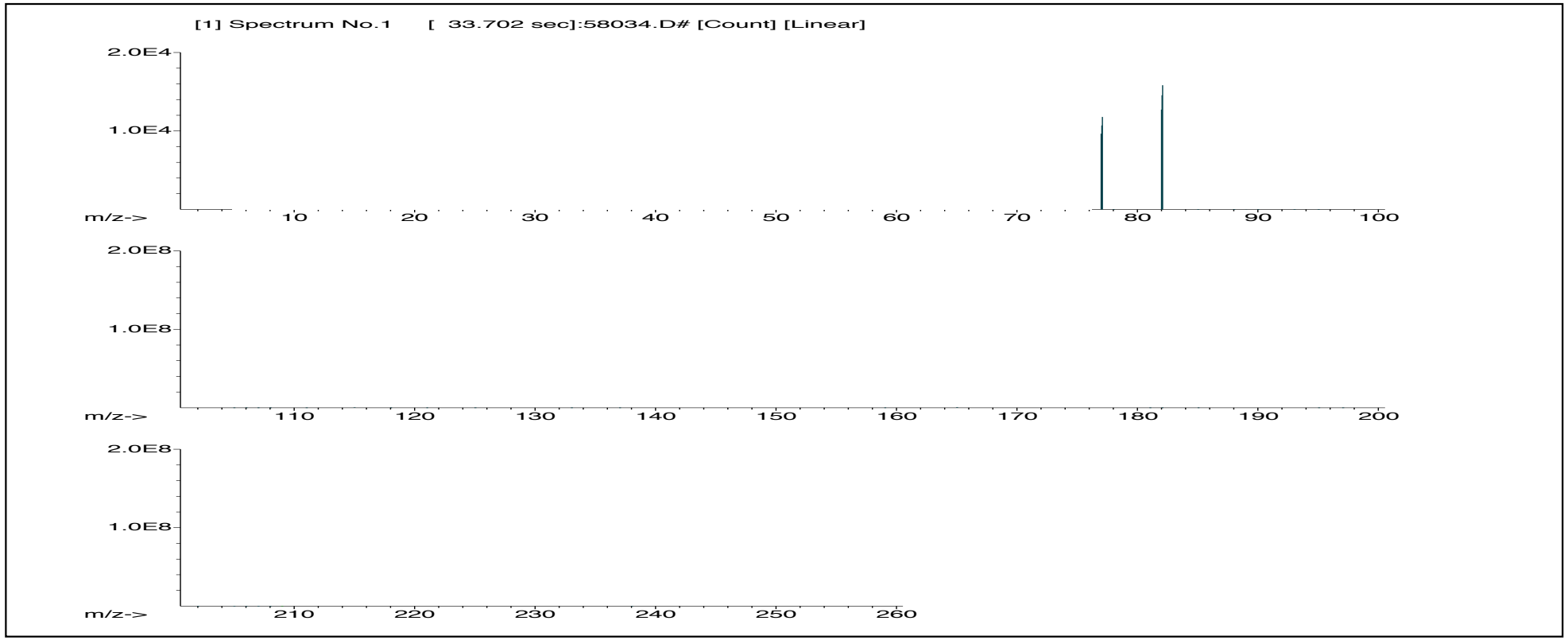
Giovanni Esposito

Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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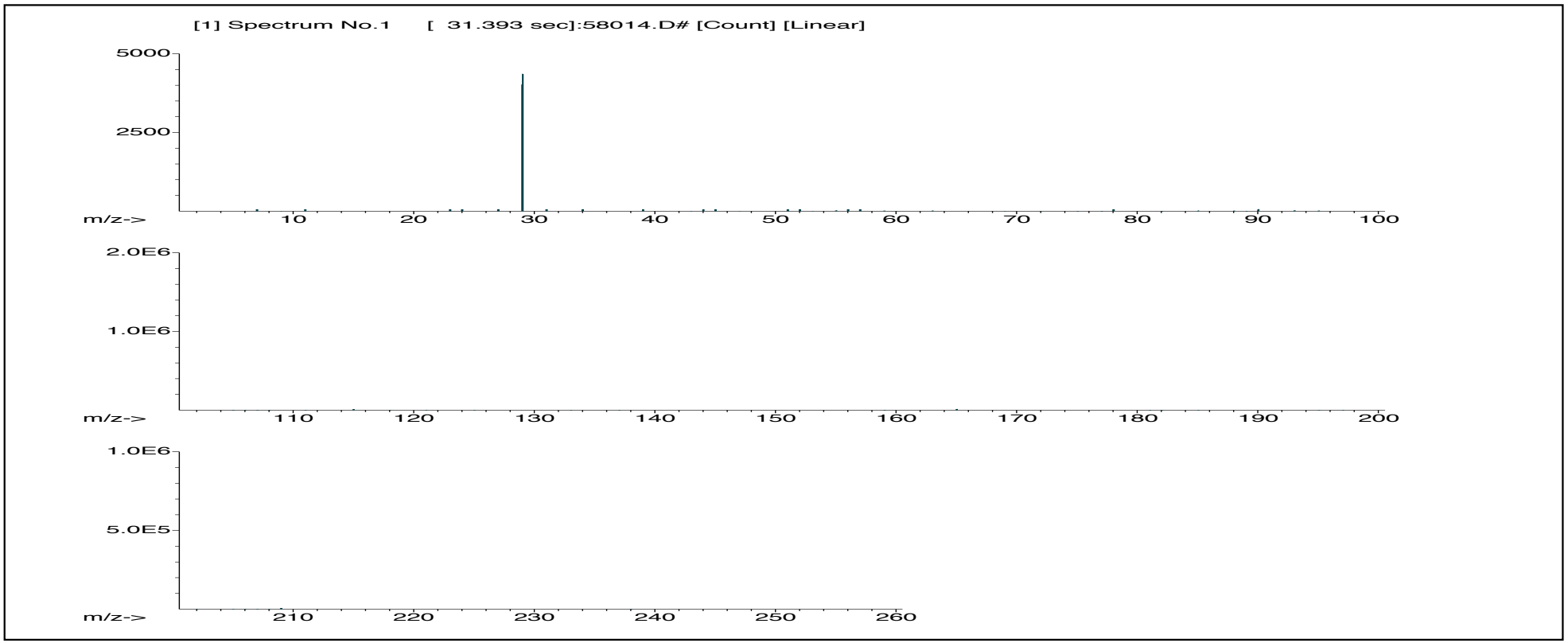
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

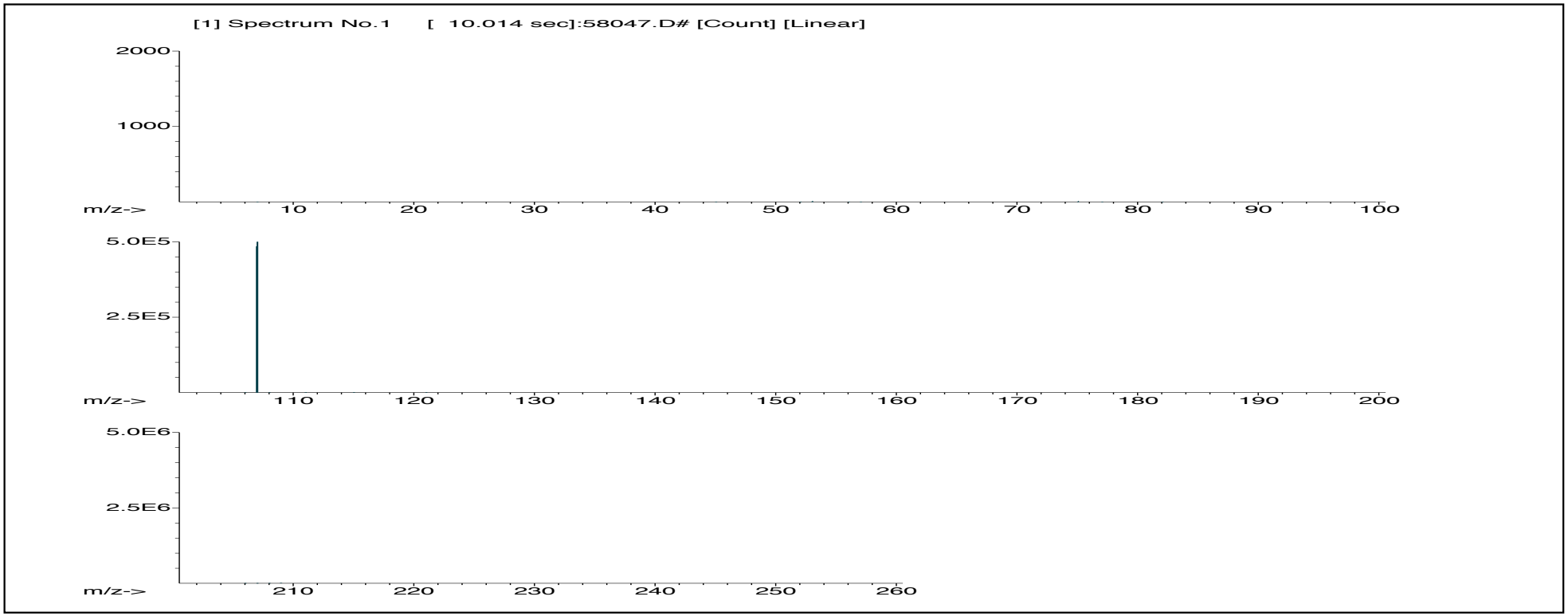
Giovanni Esposito

Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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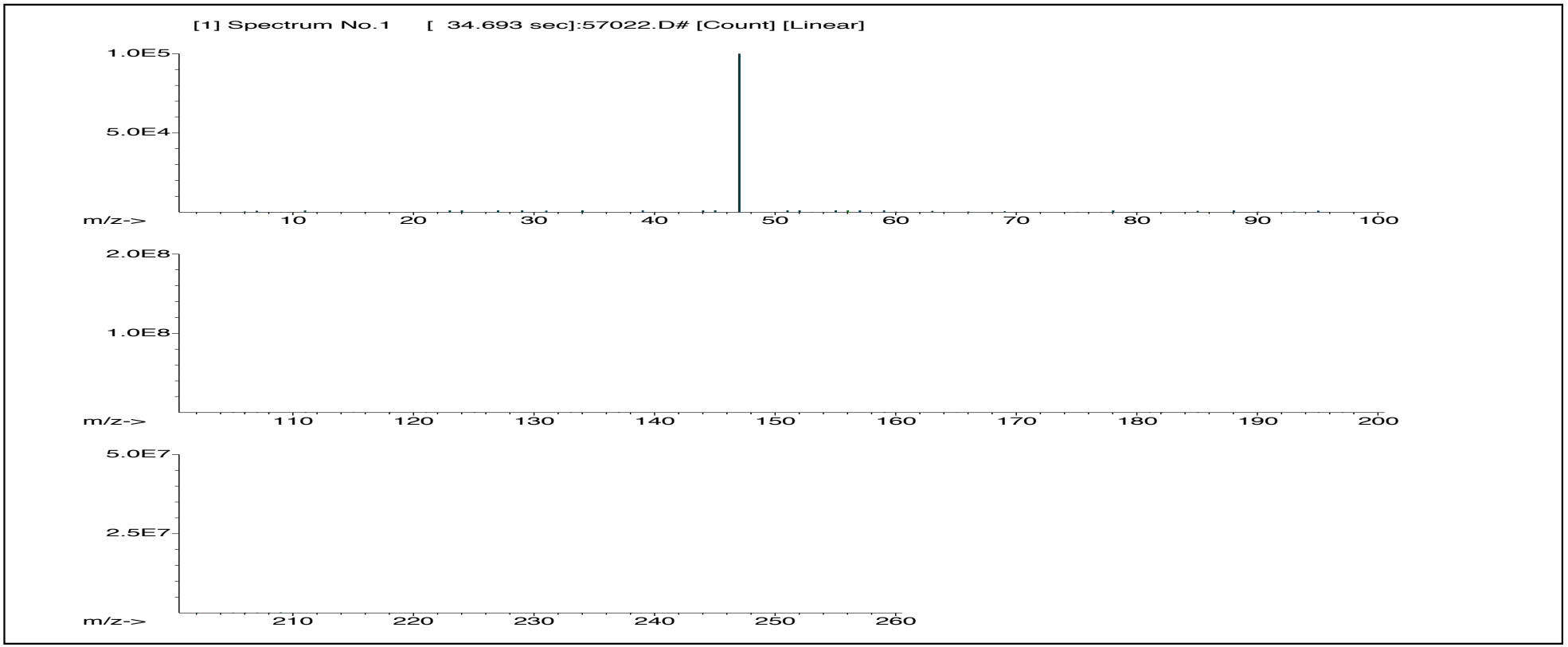
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	070724		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

	Part	Lot	Dilution	Initial	Uncertainty	Nominal	Initial	**Final**	Expanded Uncertainty	**SDS Information** (Solvent Safety Info. On Attached pg.)			NIST
Compound	Number	Number	Factor	Vol. (mL)	Pipette	Conc. (µg/mL)	Conc. (µg/mL)	**Conc. (µg/mL)**	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	073024		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

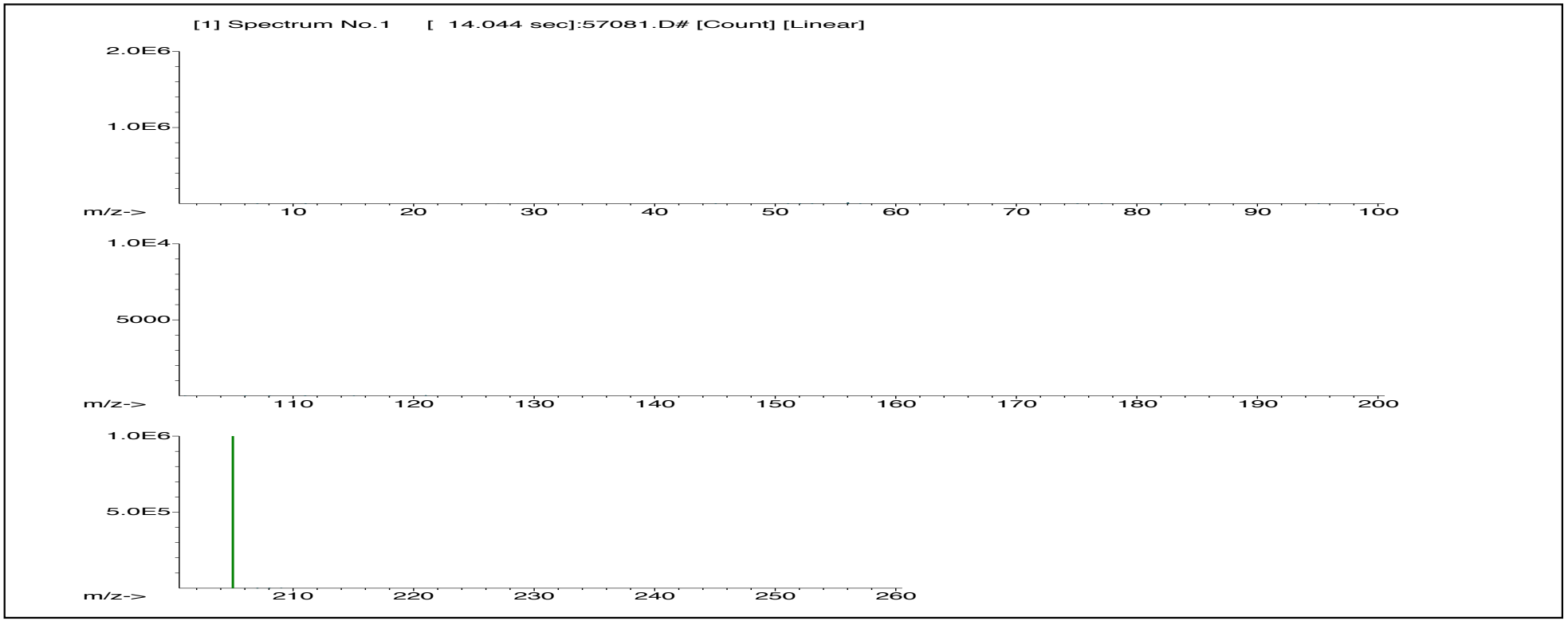
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58030**	20370011	Nitric Acid	
Lot Number:	**031921**			
Description:	**Zinc (Zn)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	031924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

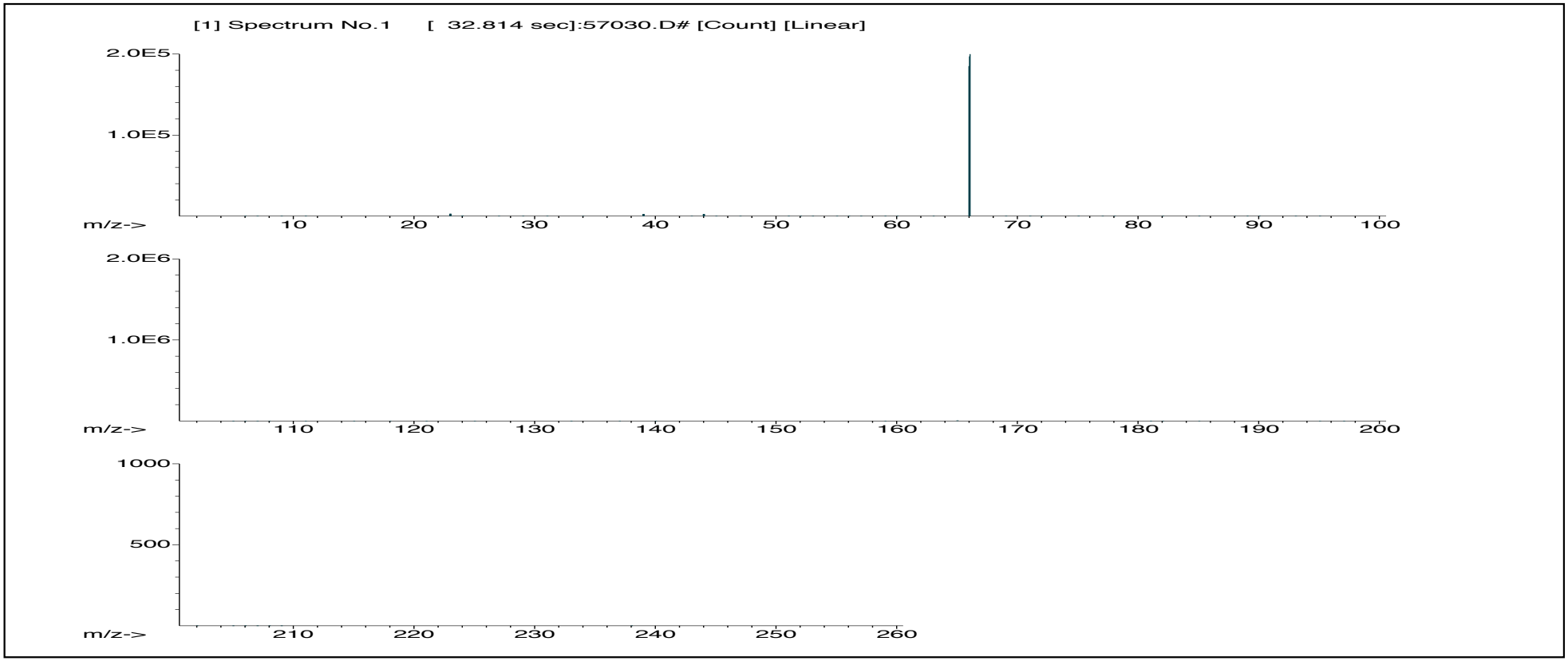
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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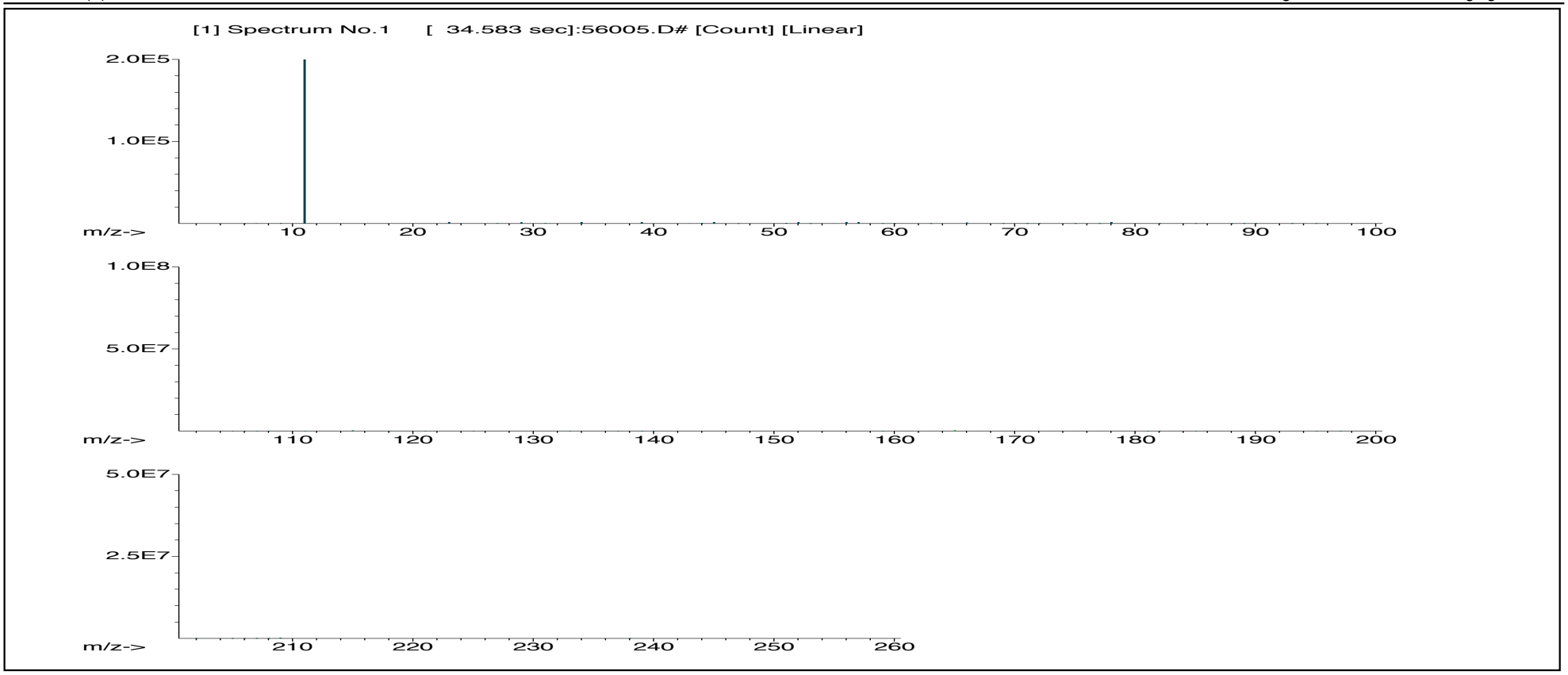
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57005**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**031921**		
Description:	**Boron (B)**		
		2.0%	40.0 (mL) Ammonium hydroxide
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058 Flask Uncertainty	

Formulated By:	Giovanni Esposito 031921
Reviewed By:	Pedro L. Rentas 031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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Certified Reference Material CRM M4939

R: 09/22/21 (RL)

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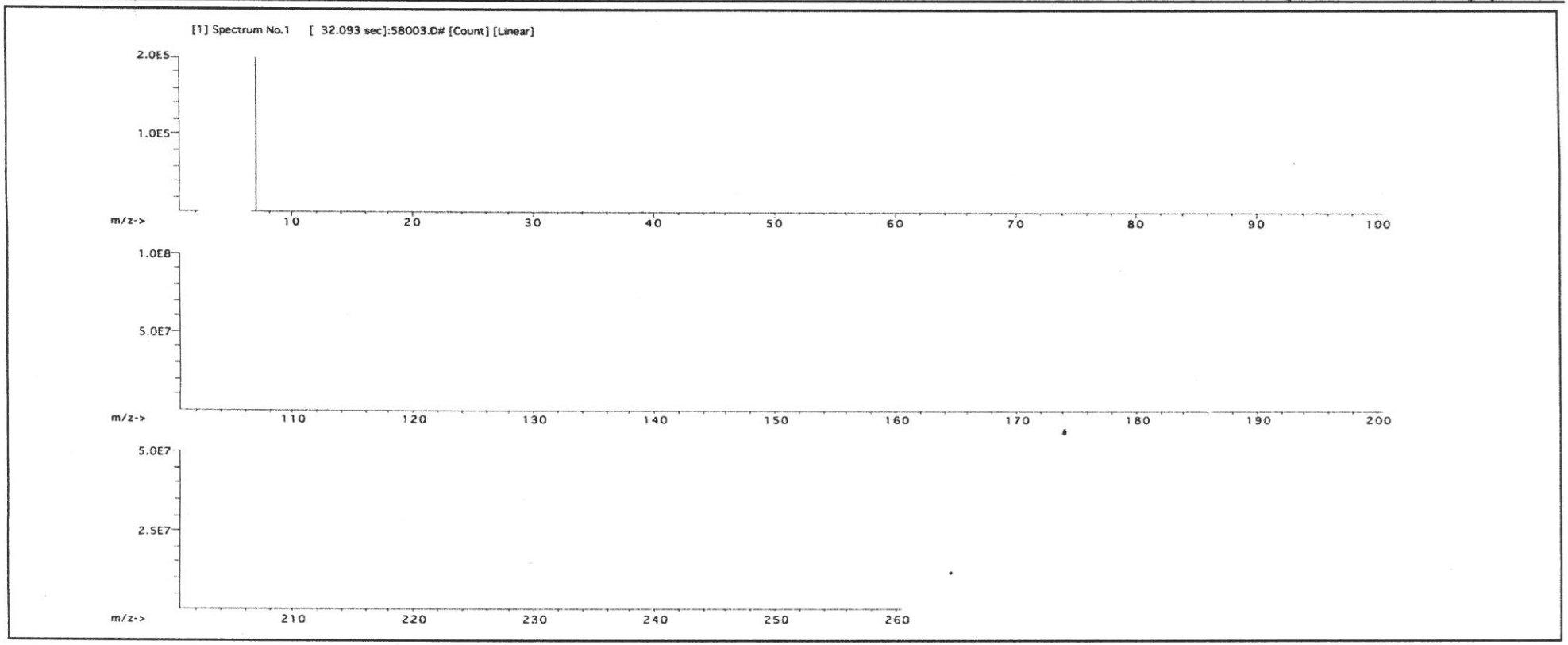
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57003**	19410105	Nitric Acid	
Lot Number:	**030221**			
Description:	**Lithium (Li)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	010320	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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Certified Reference Material CRM

M4960 R: 10/08/21 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58149
Lot Number: 100721
Description: Indium (In)

Expiration Date: 100724
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

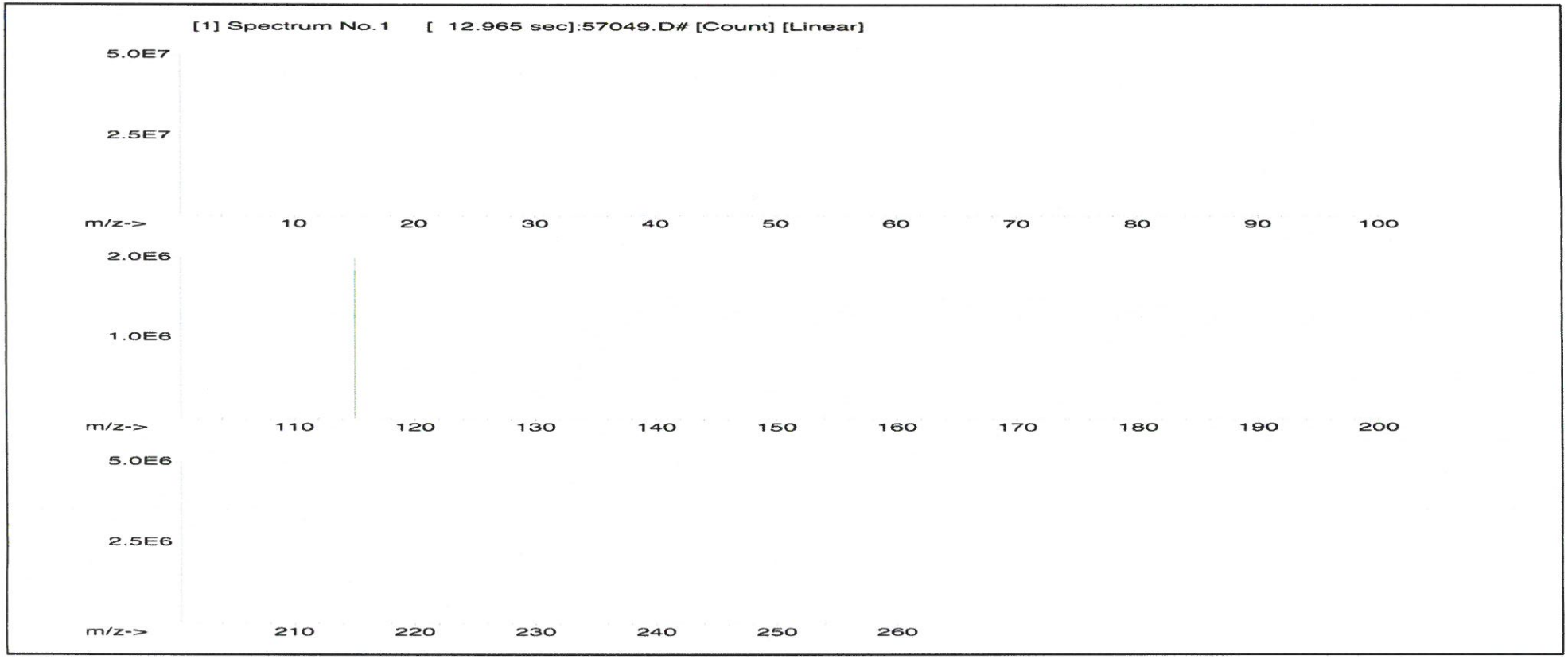
Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

	Lot #		
Solvent:	20370011	Nitric Acid	
5%	25.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	T	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M4961 R: 10/08/21 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58139
Lot Number: 052521
Description: Yttrium (Y)

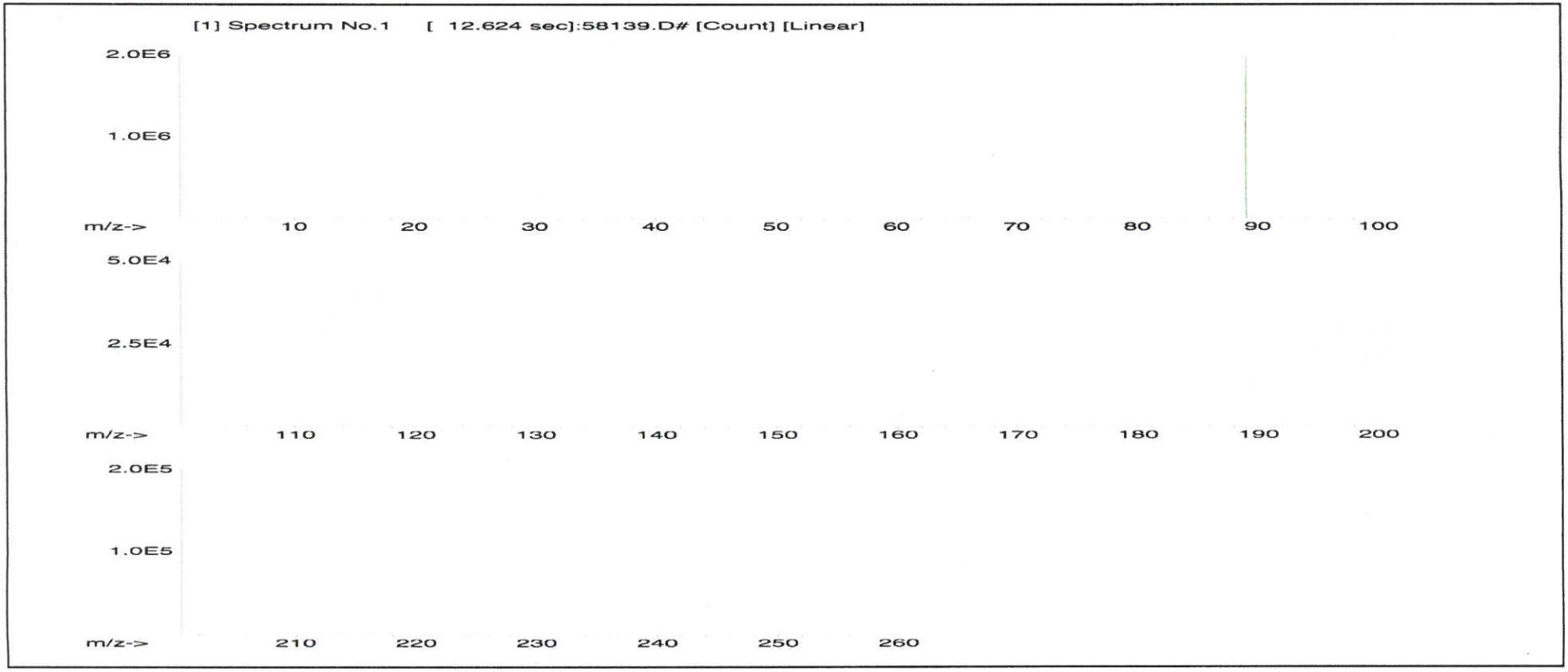
Expiration Date: 052524
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

Formulated By: Lawrence Barry 052521

Reviewed By: Pedro L. Rentas 052521

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Yttrium (III) Oxide (Y)	IN087	YV012015B1	10000	99.999	0.10	77.9	25.6744	25.6745	**10000.0**	**20.0**	1314-36-9	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	T
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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IN 5019 R: 12/09/21 (BH)

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CERTIFIED WEIGHT REPORT:

Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060

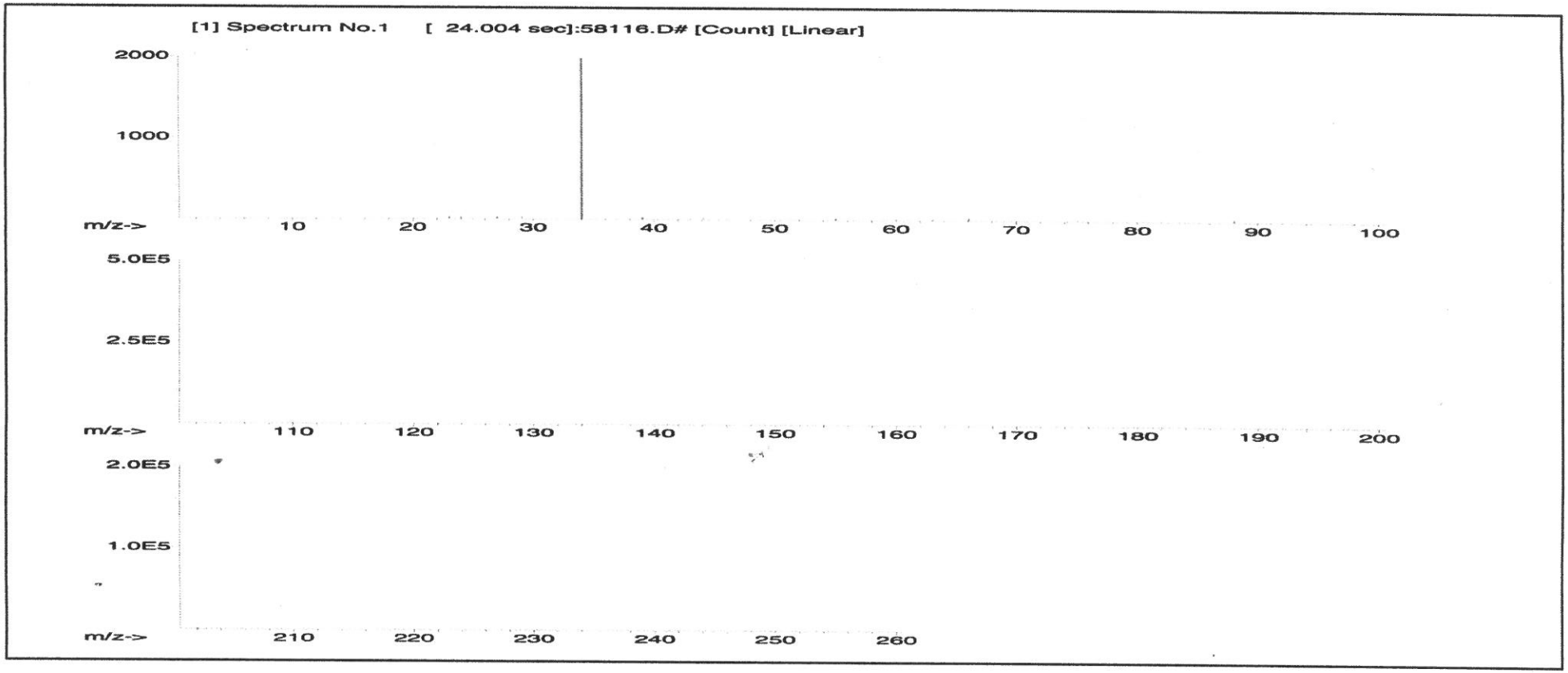
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

5E-05 Balance Uncertainty

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5020

R: 12/09/21

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CERTIFIED WEIGHT REPORT:

Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

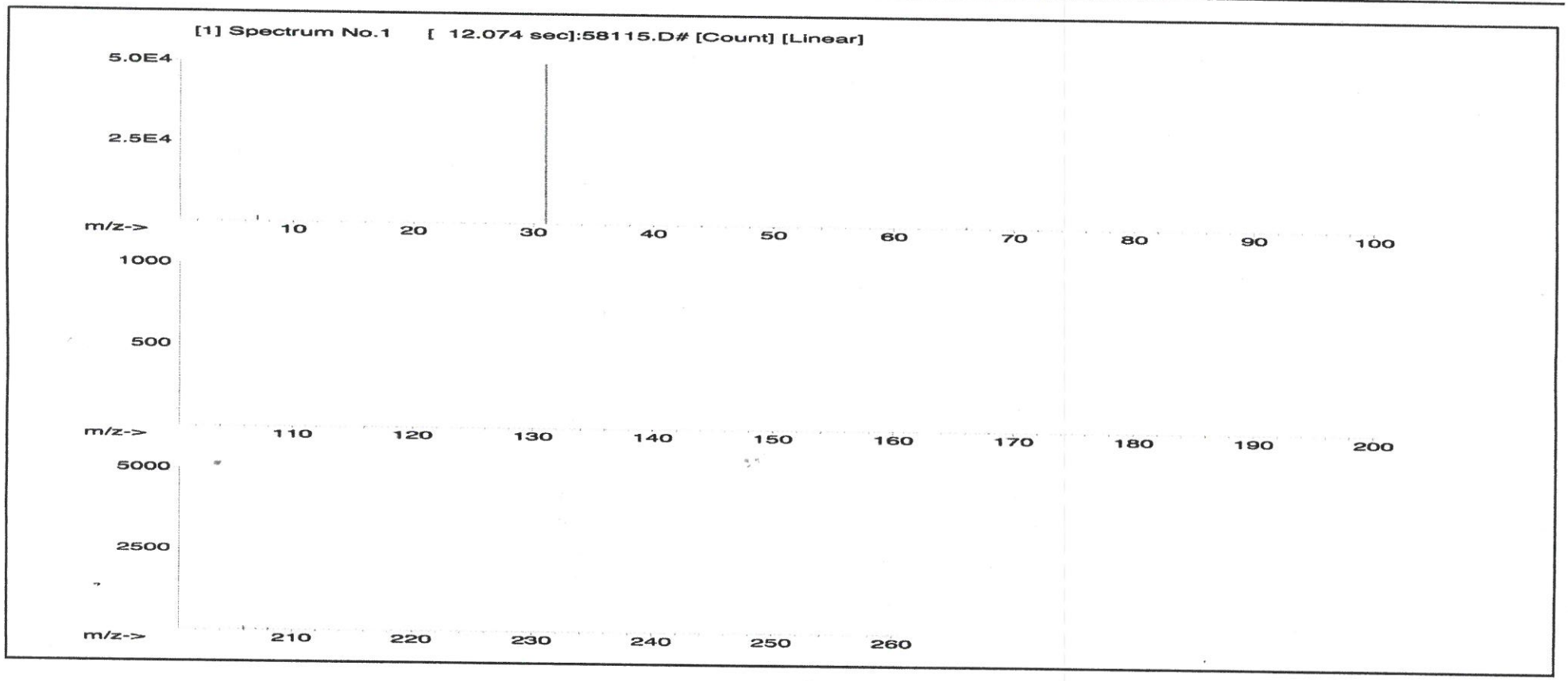
Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
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Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 6/2/22

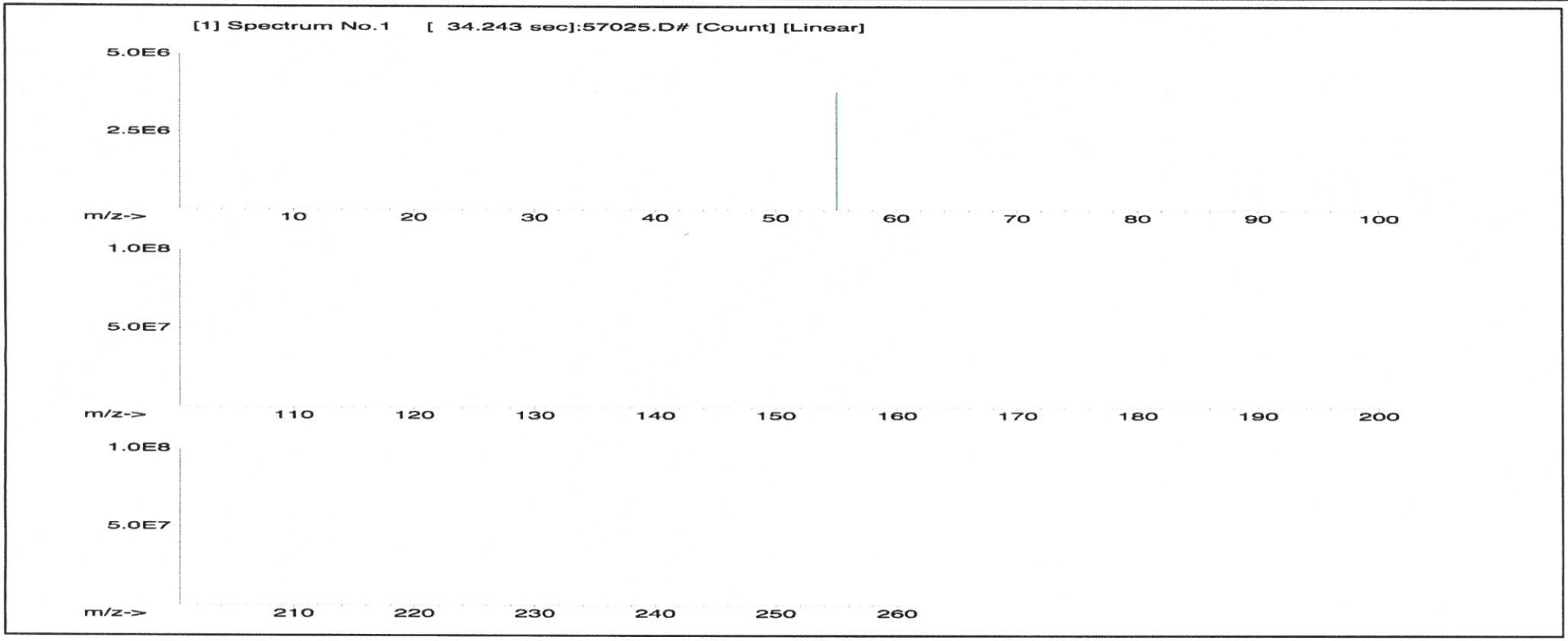
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:	
Part Number:	**58025**	20510011	Nitric Acid	
Lot Number:	**060122**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	060125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

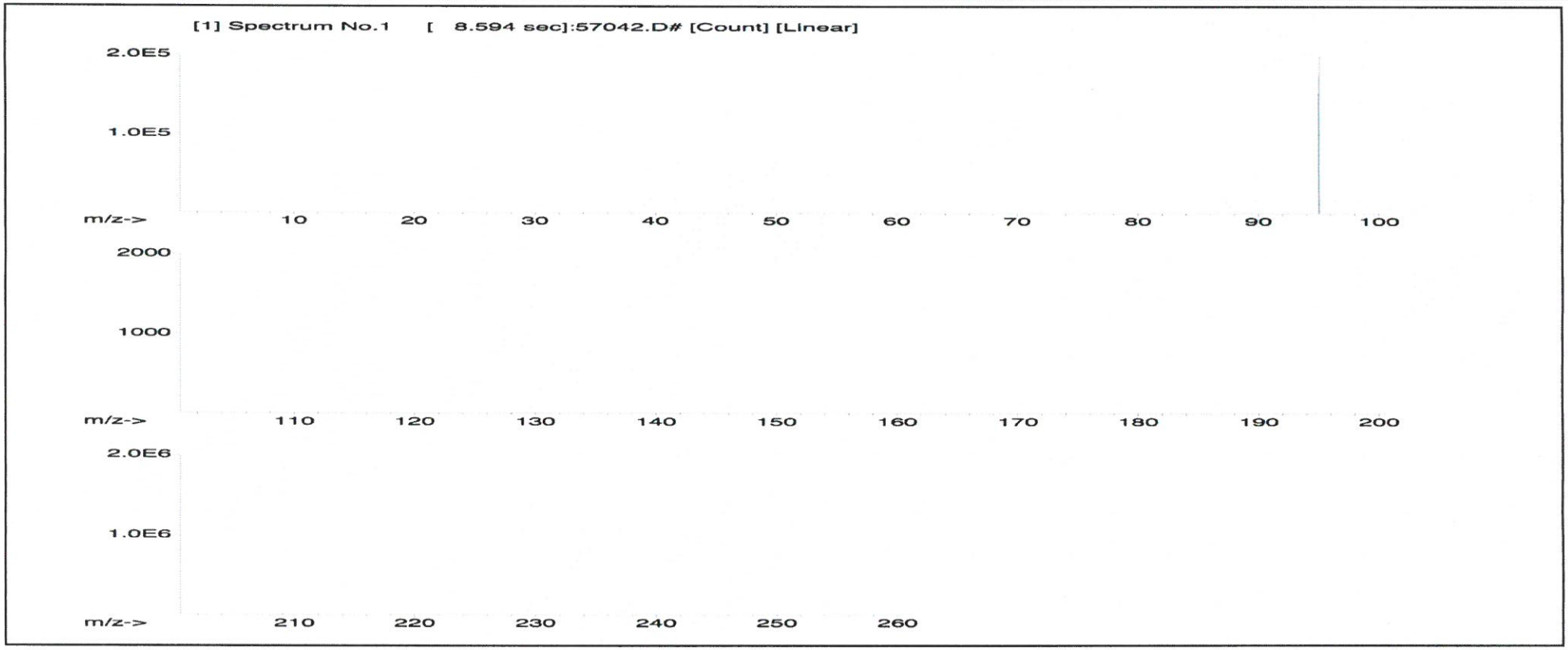
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	Lot #	Solvent:	
	MKBQ8597V	Ammonium hydroxide	
	0.5%	15.0 (mL)	Ammonium hydroxide

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M 5700 R: 10/05/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

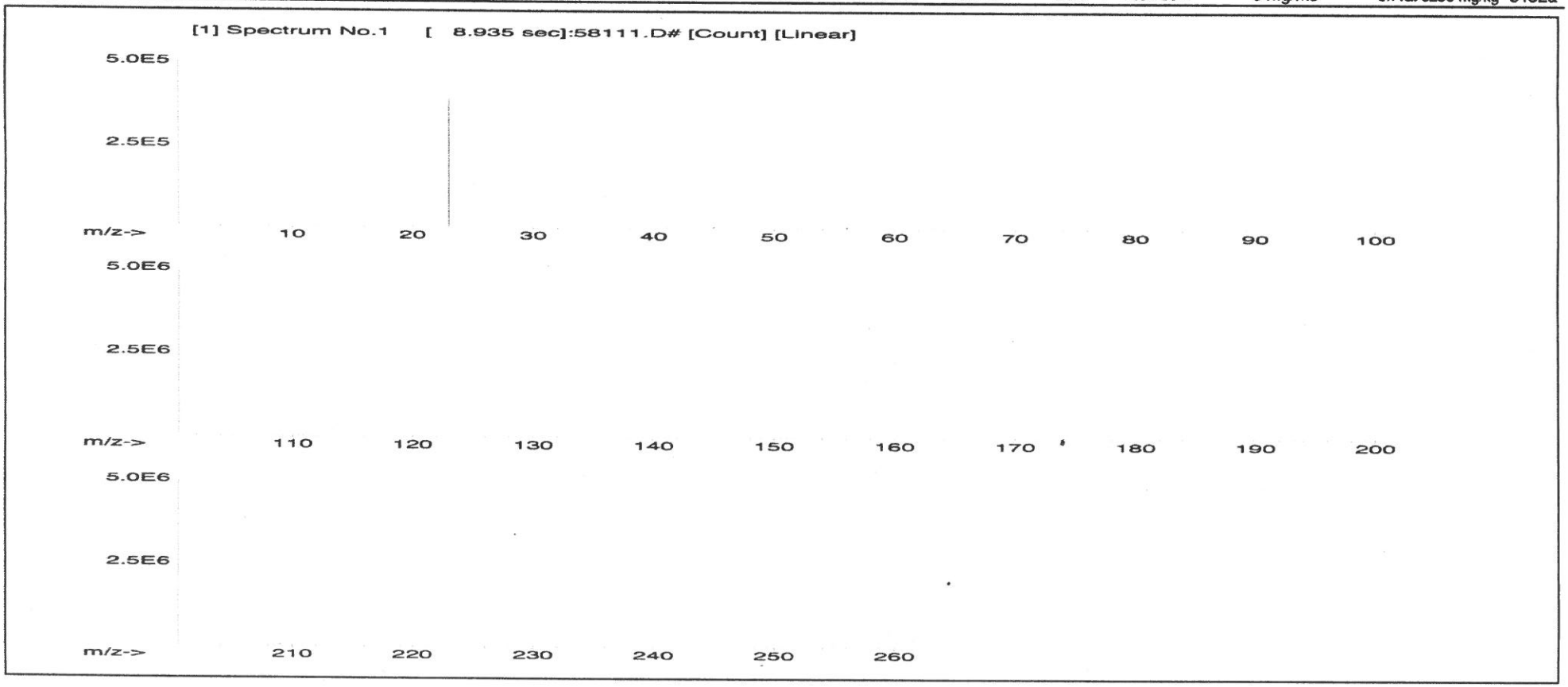
Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

Lot #		
Solvent: 20370011		Nitric Acid
2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty
	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092121
Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	20370011	Nitric Acid	
Lot Number:	**101521**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	101524			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty	

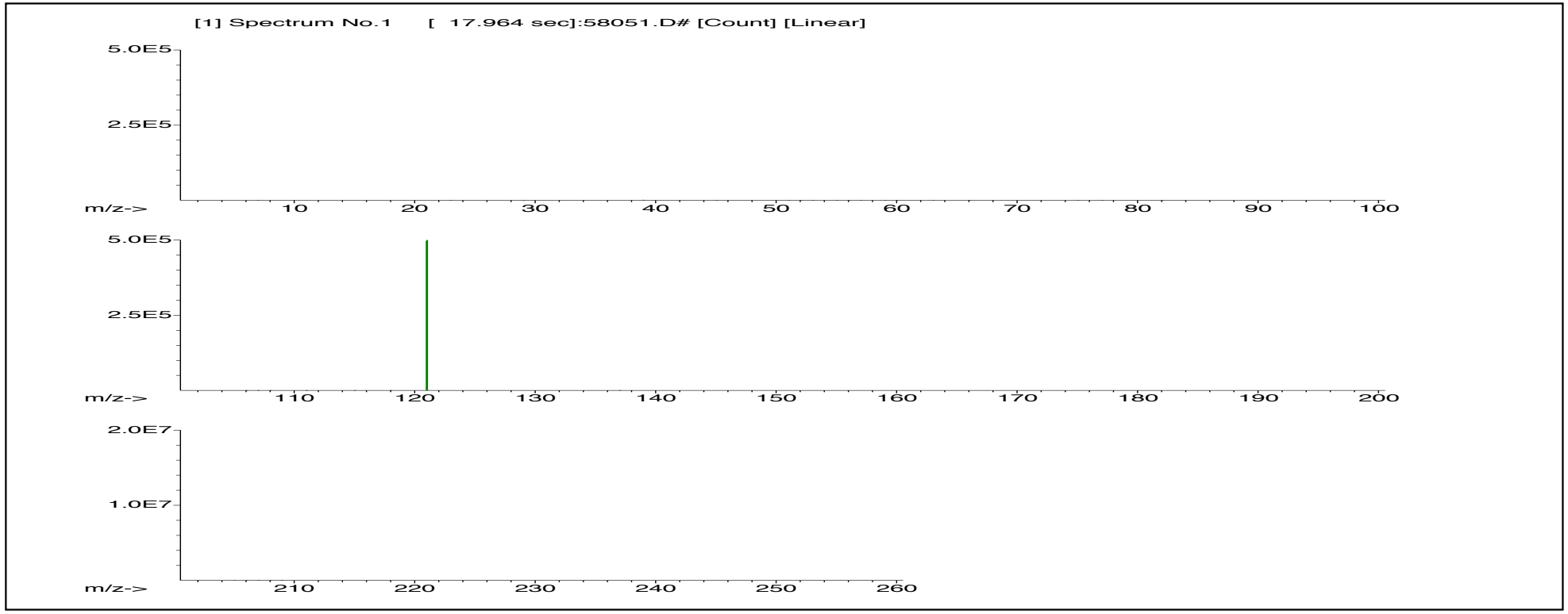
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

											SDS Information			
		Part	Lot	Dilution	Initial	Uncertainty	Nominal	Initial	**Final**	Expanded Uncertainty	(Solvent Safety Info. On Attached pg.)			NIST
	Compound	Number	Number	Factor	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	**Conc. (µg/mL)**	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM
1.	Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5227 R: 10/18/2021

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	20370011	Nitric Acid	
Lot Number:	**100121**			
Description:	**Vanadium (V)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	100124			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty	

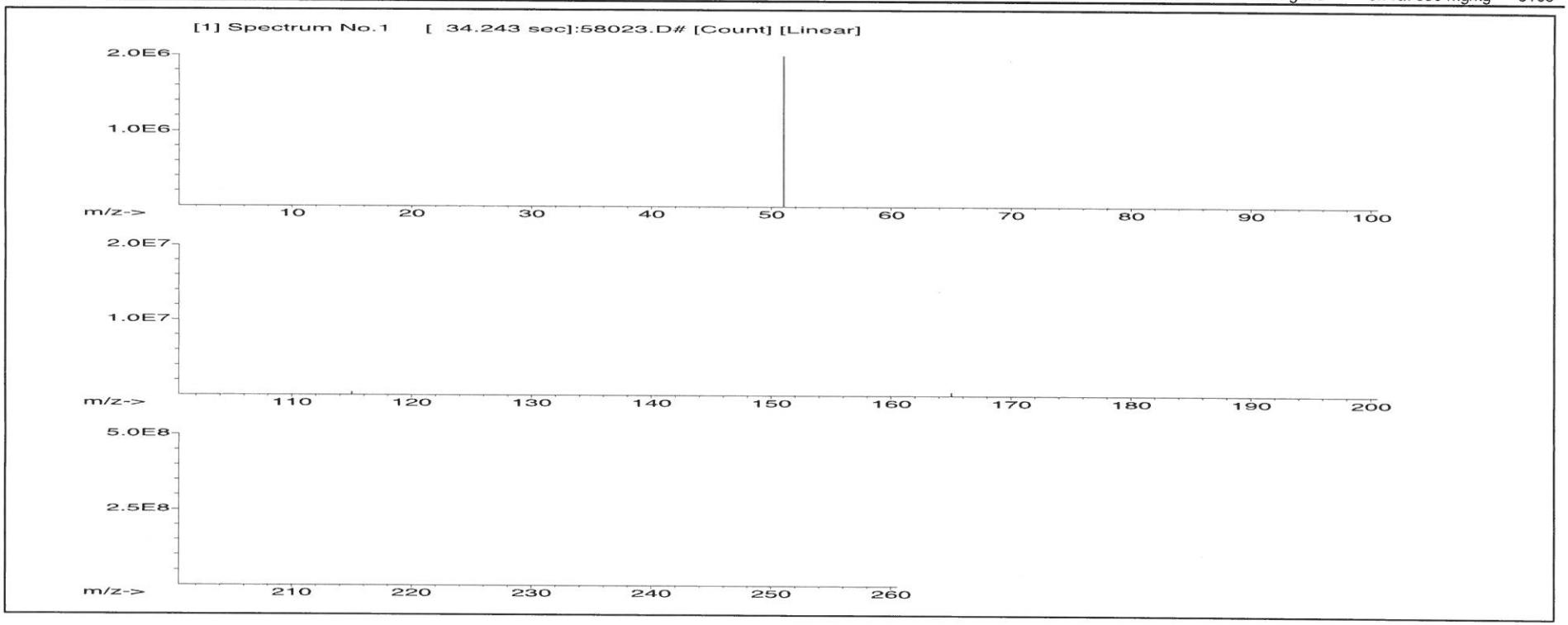
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5228 R: 07/05/22 BH

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57038**	20370011	Nitric Acid		
Lot Number:	**073021**				
Description:	**Strontium (Sr)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	073024				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty		

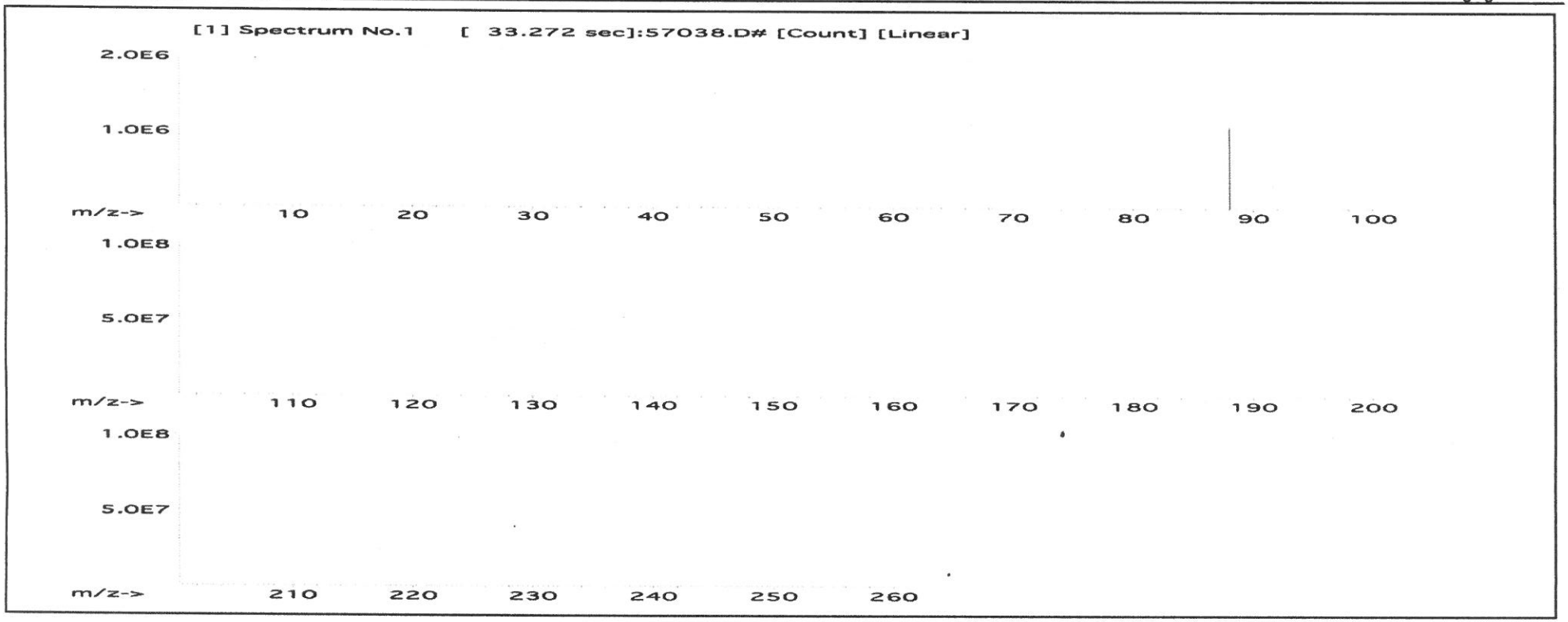
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	58138	062321	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	10042-76-9	NA	orl-rat 2750mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

V15200 R: 04/24/22 (BP)

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CERTIFIED WEIGHT REPORT:

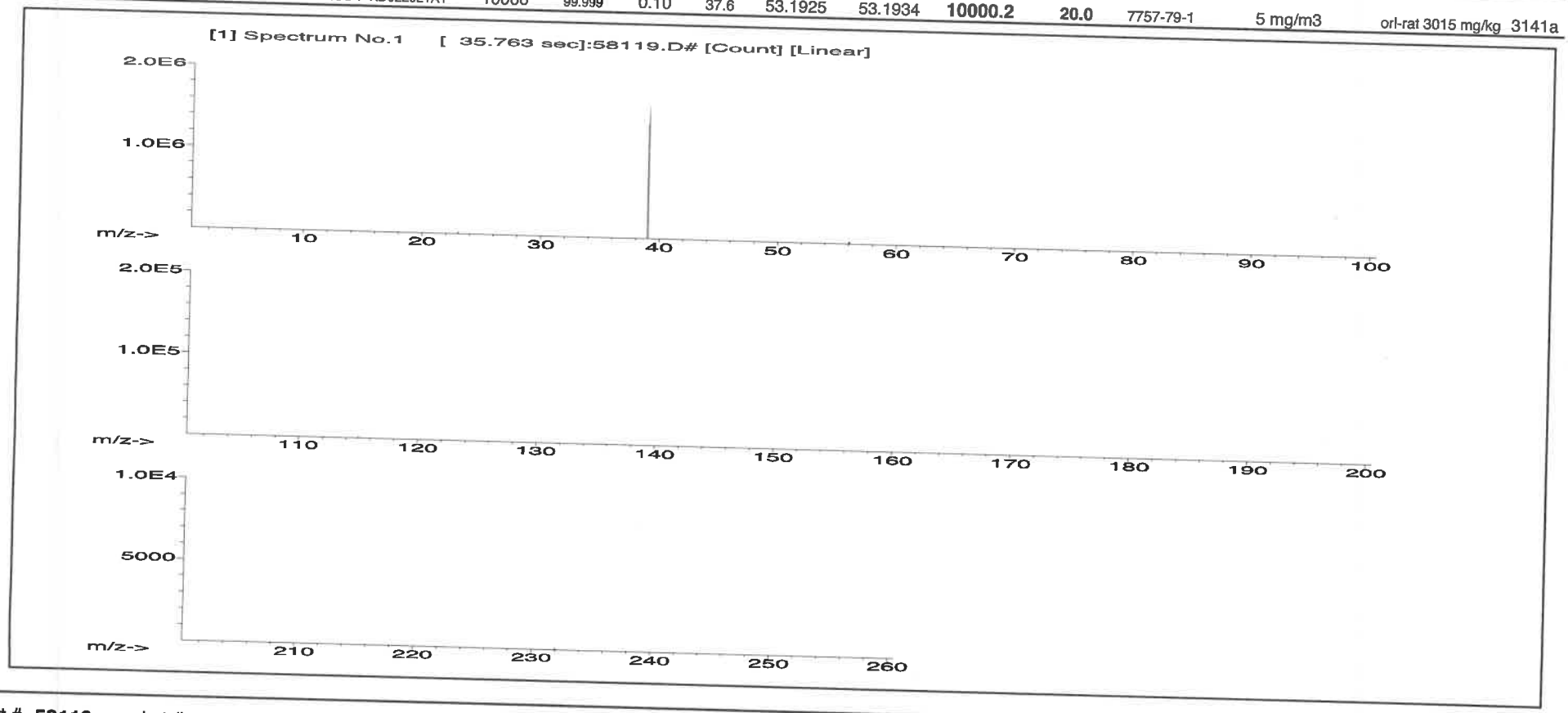
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

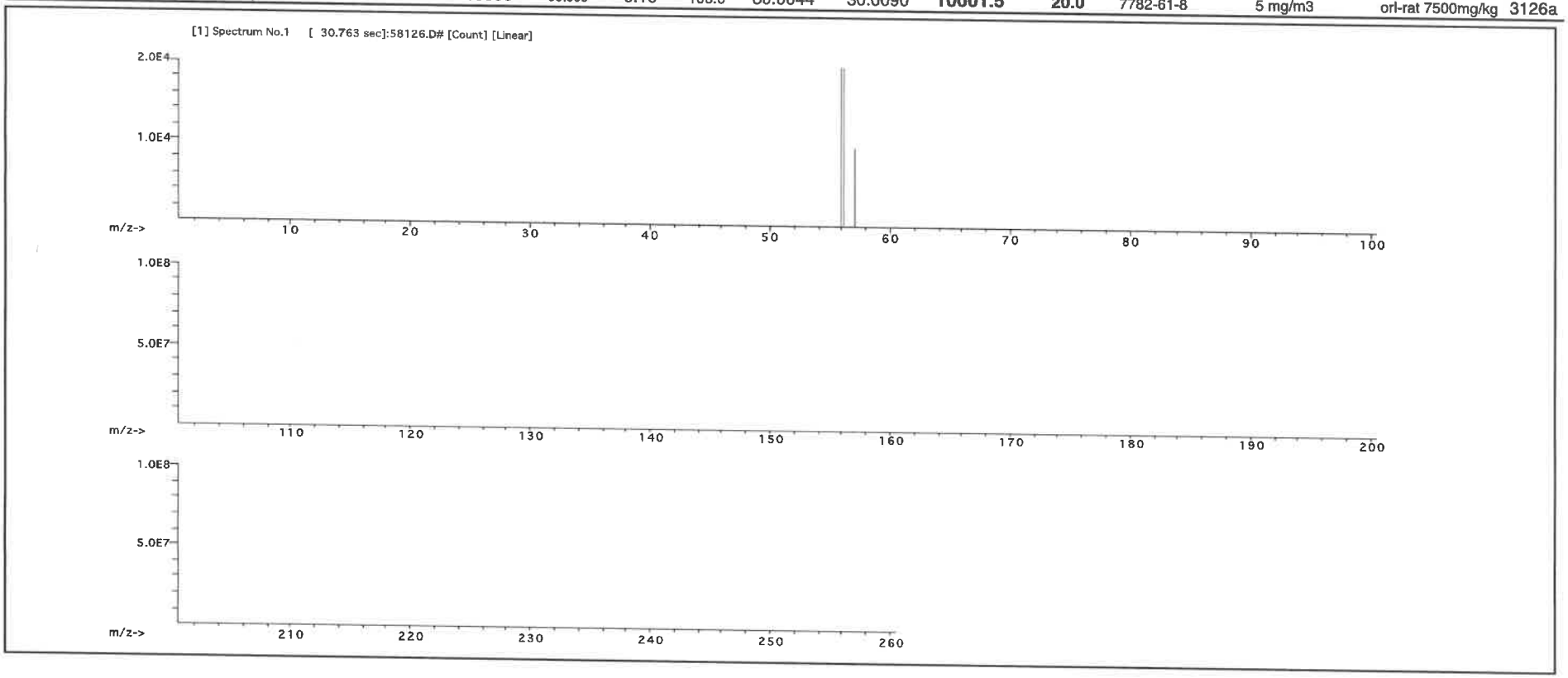
	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 09/08/22 (BH)

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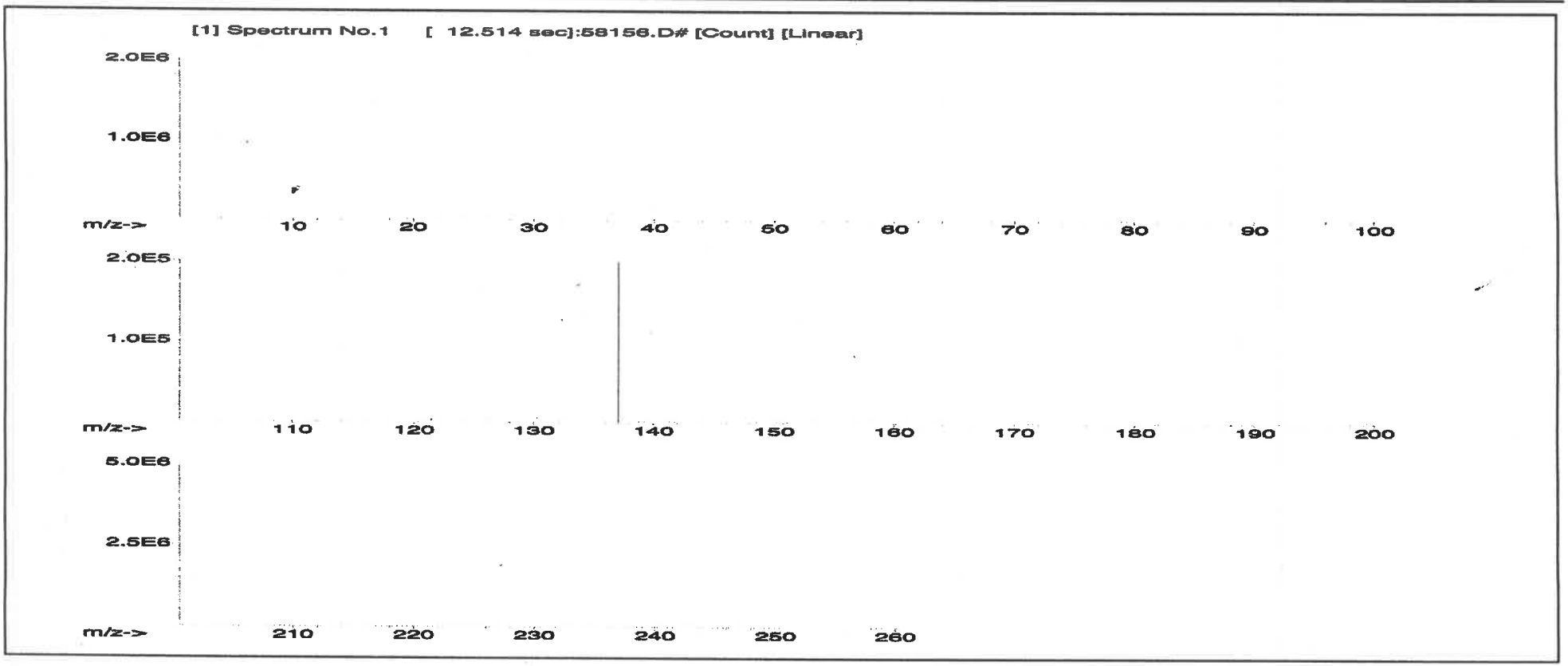
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

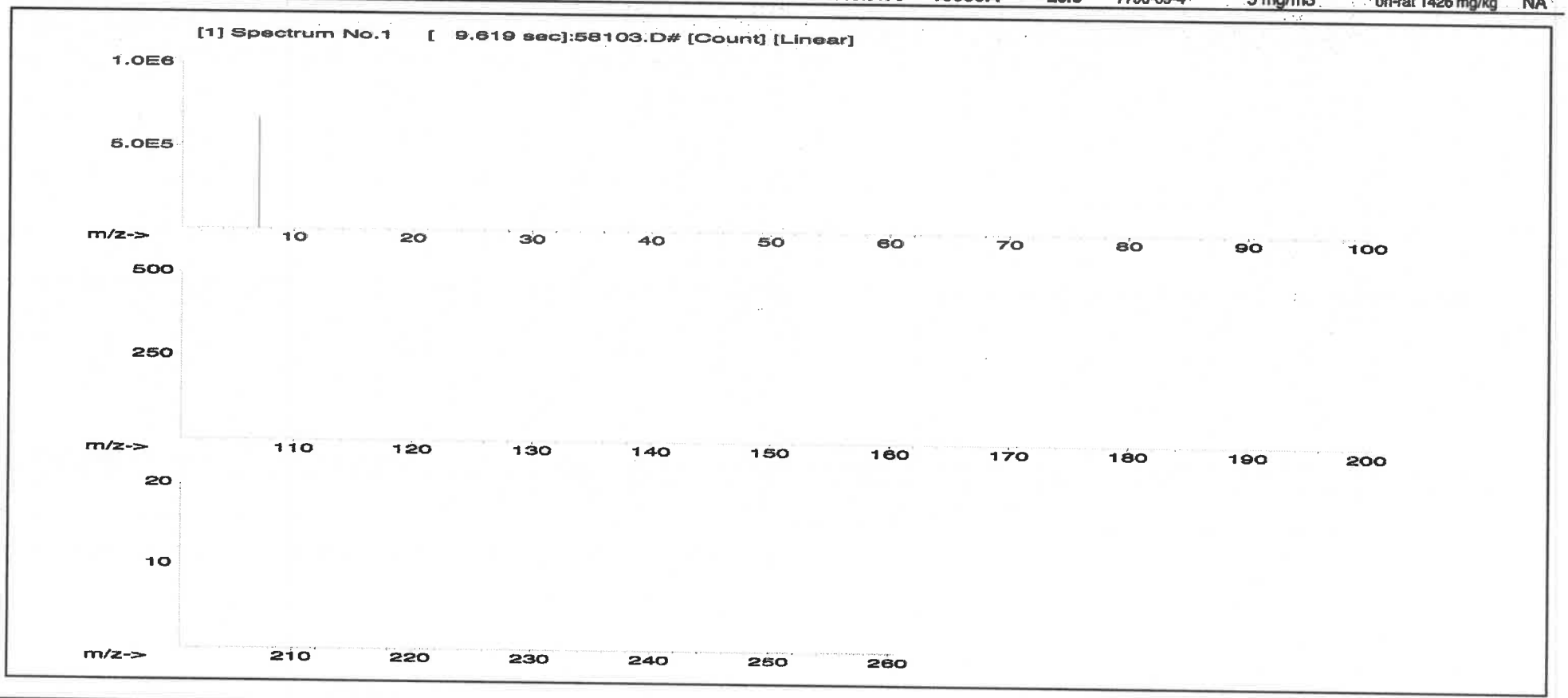
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

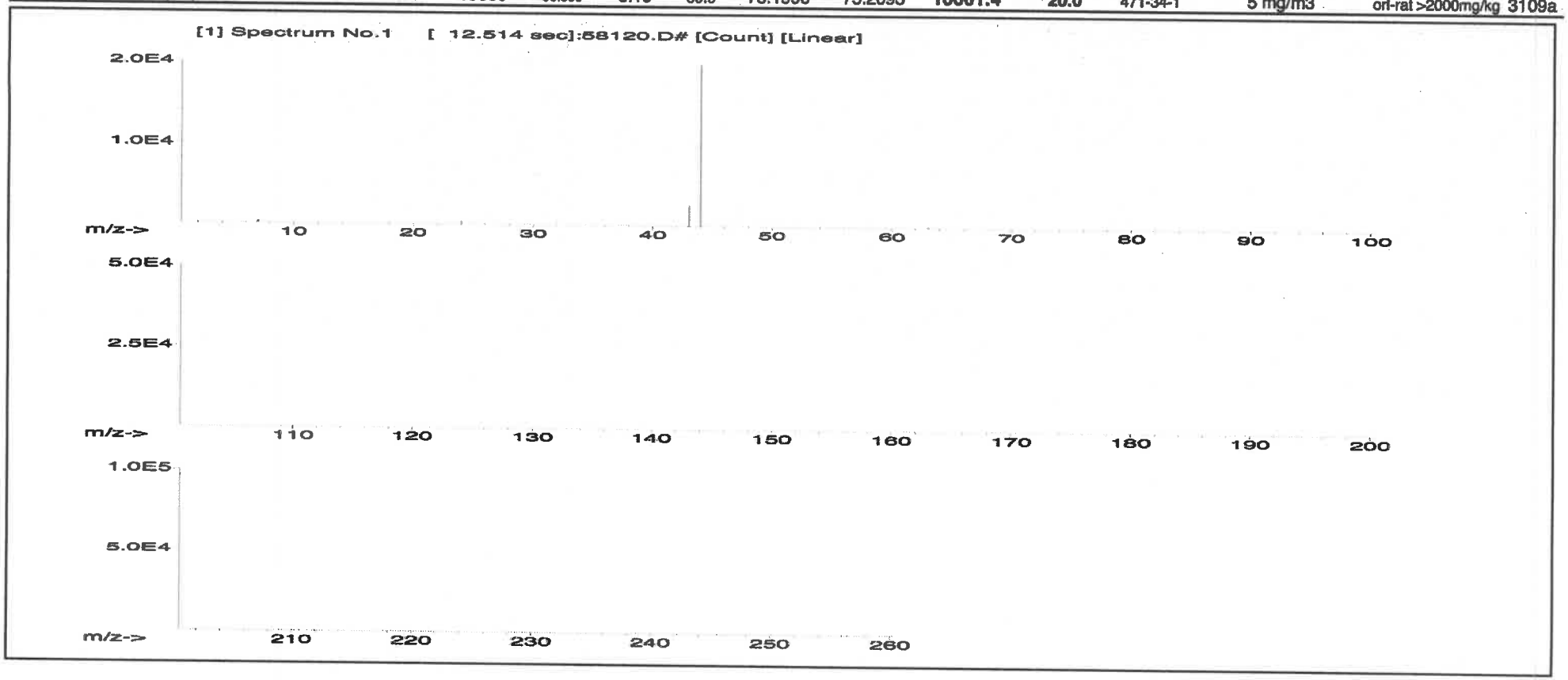
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R:03/17/23 (BH) M5518

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 031523
Description: Magnesium (Mg)

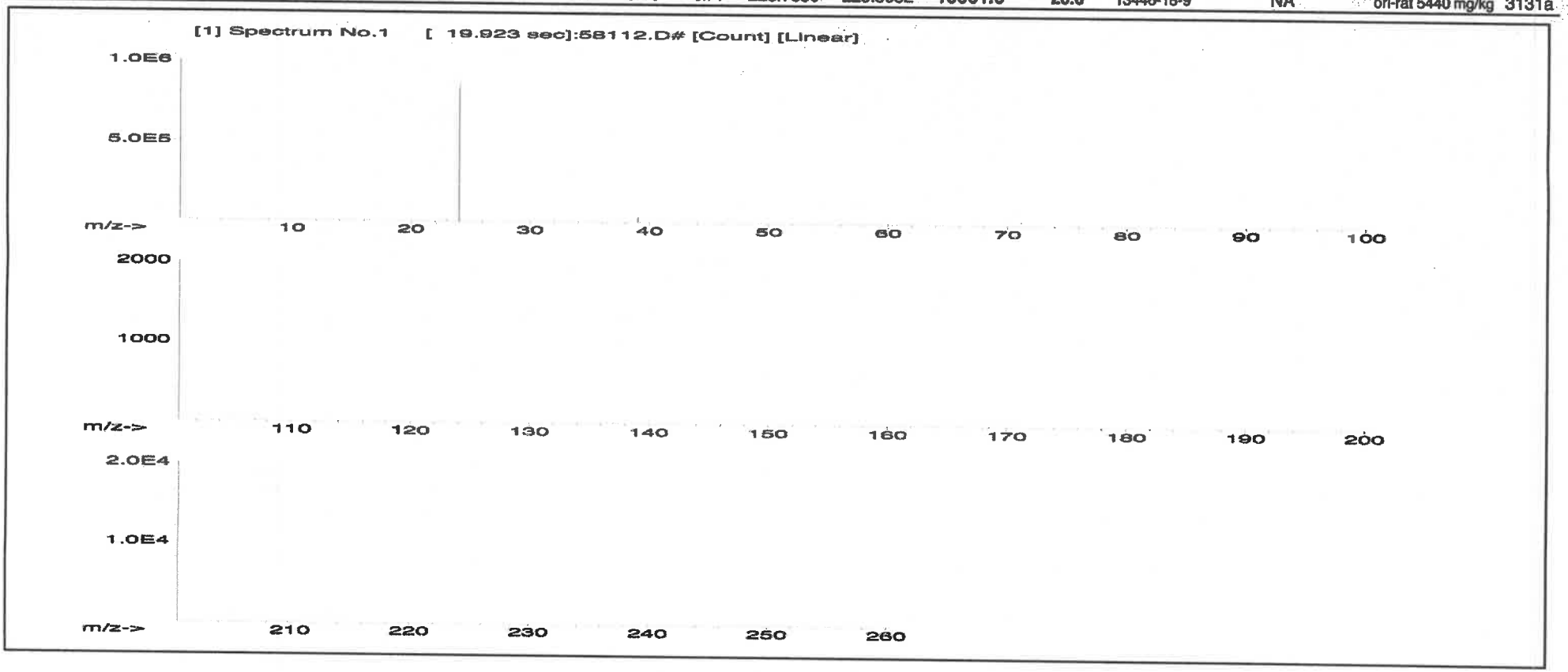
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	228.7850	228.8082	**10001.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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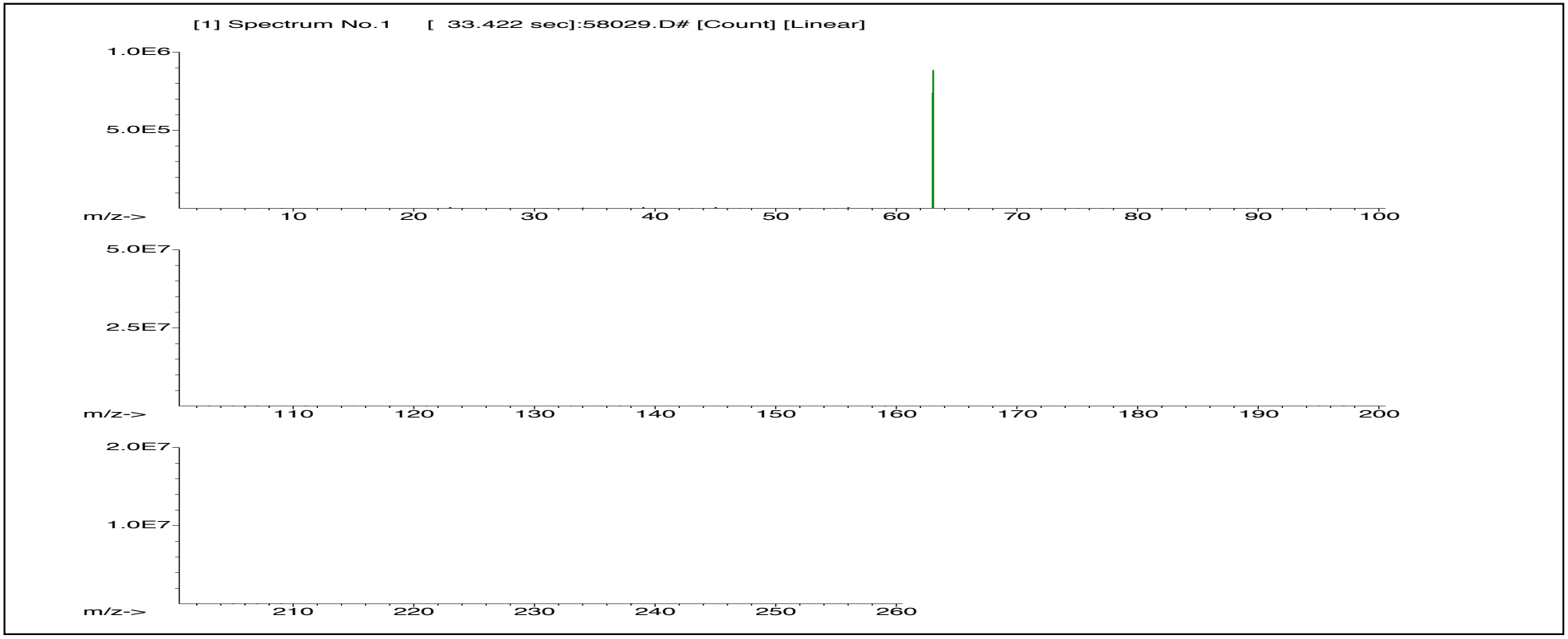
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga 102622
Reviewed By:	Pedro L. Rentas 102622

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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M5658 R ! 8/25/23

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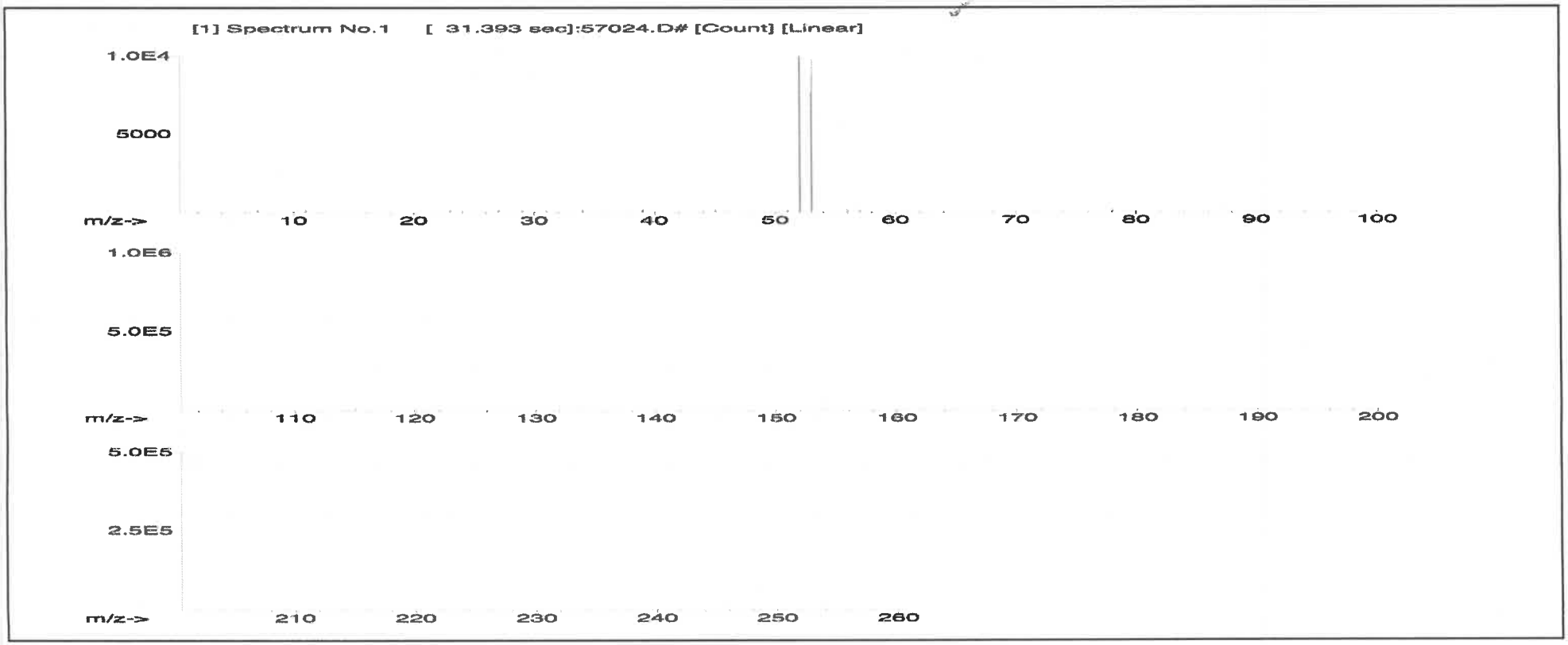
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 12/20/23 M5748

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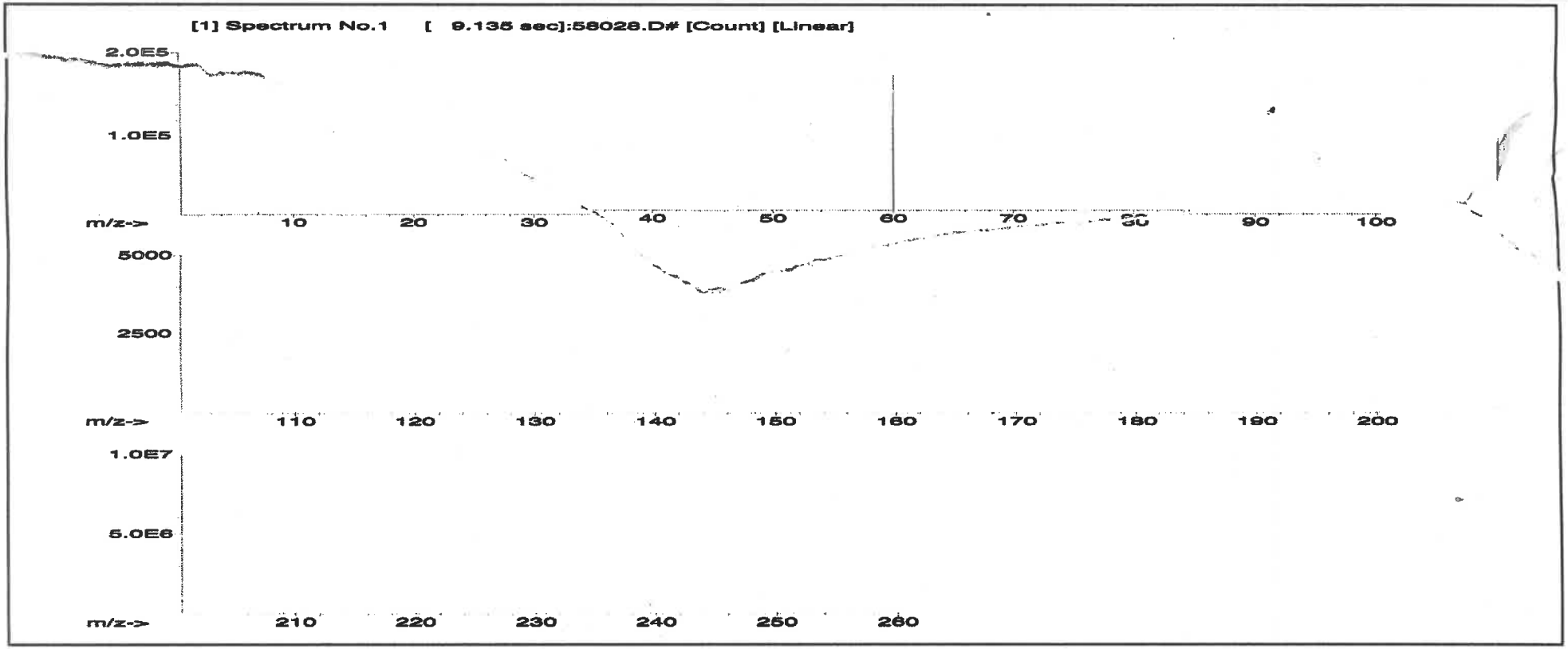
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 02/09/24 M5798

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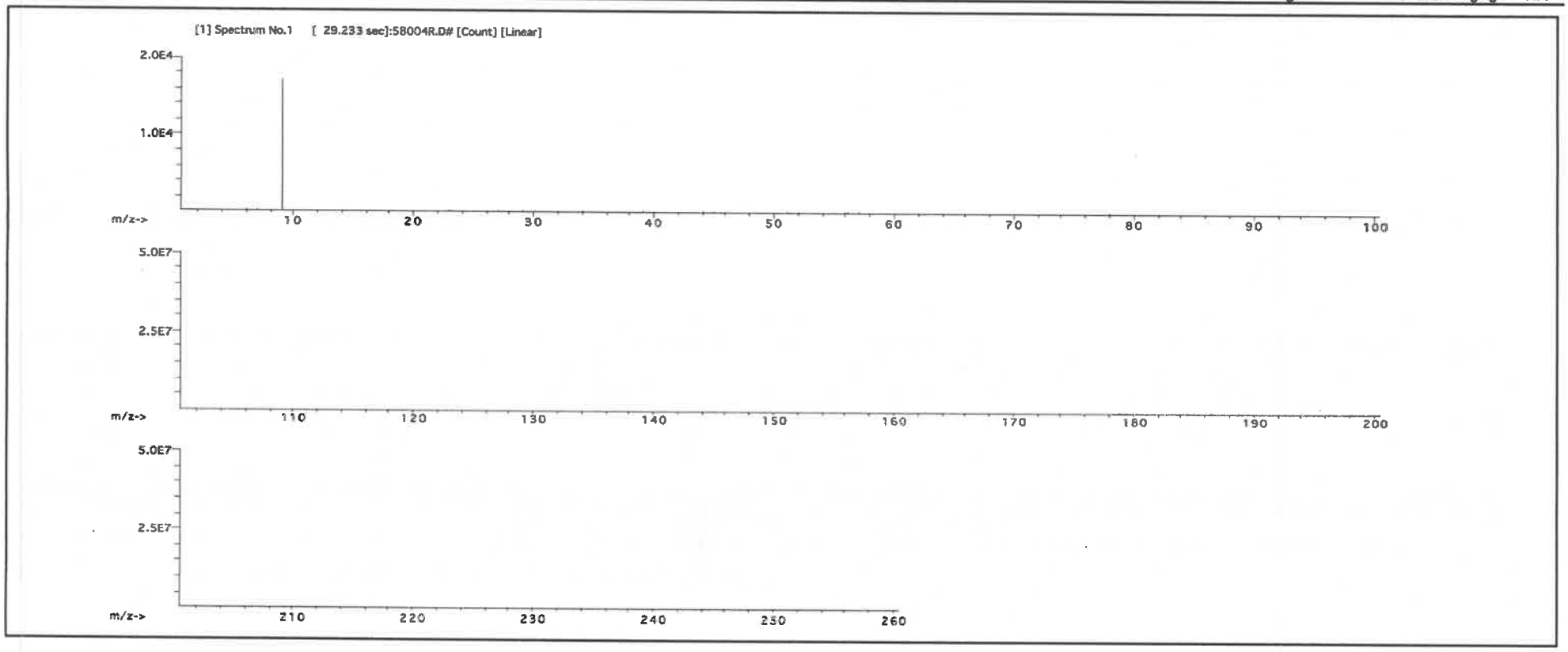
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R? 02/09/24 IV15799

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

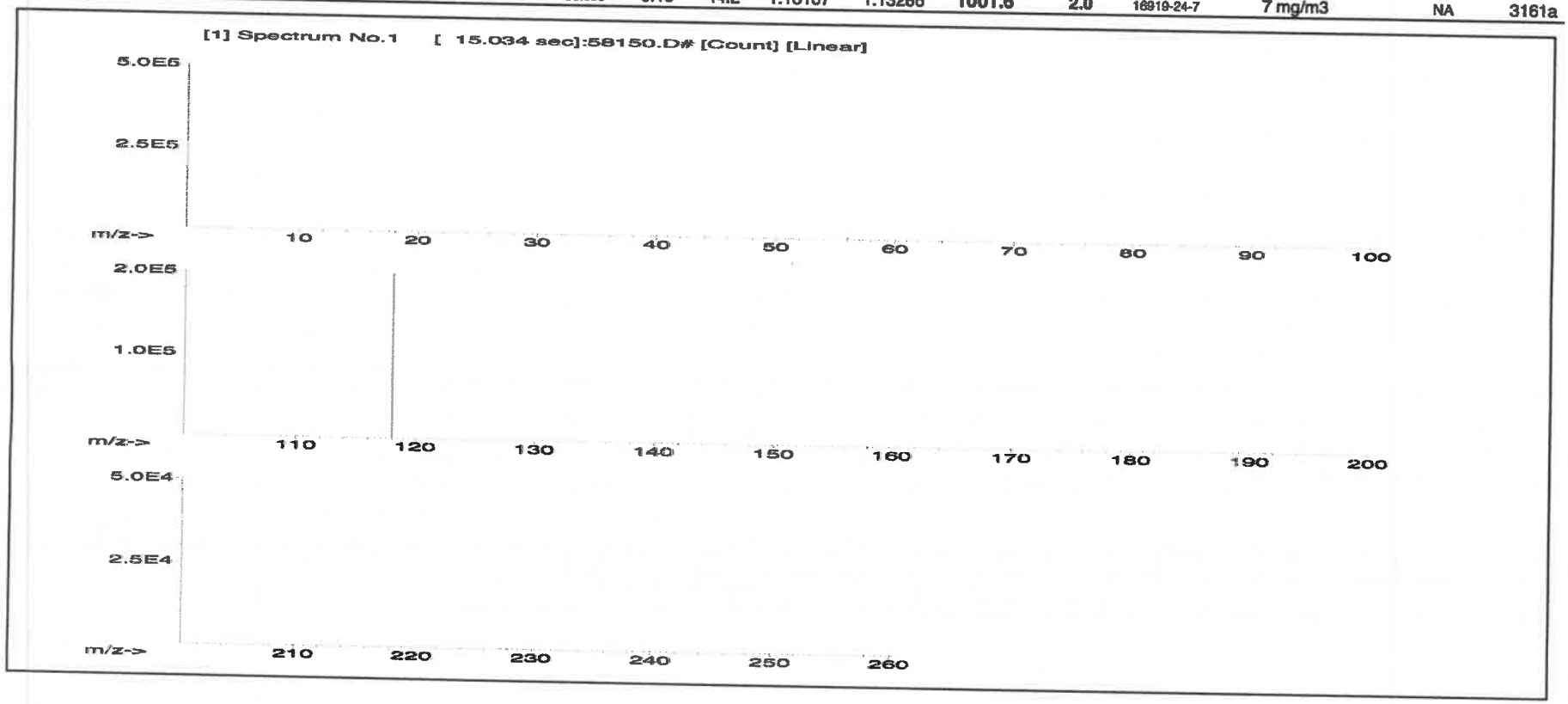
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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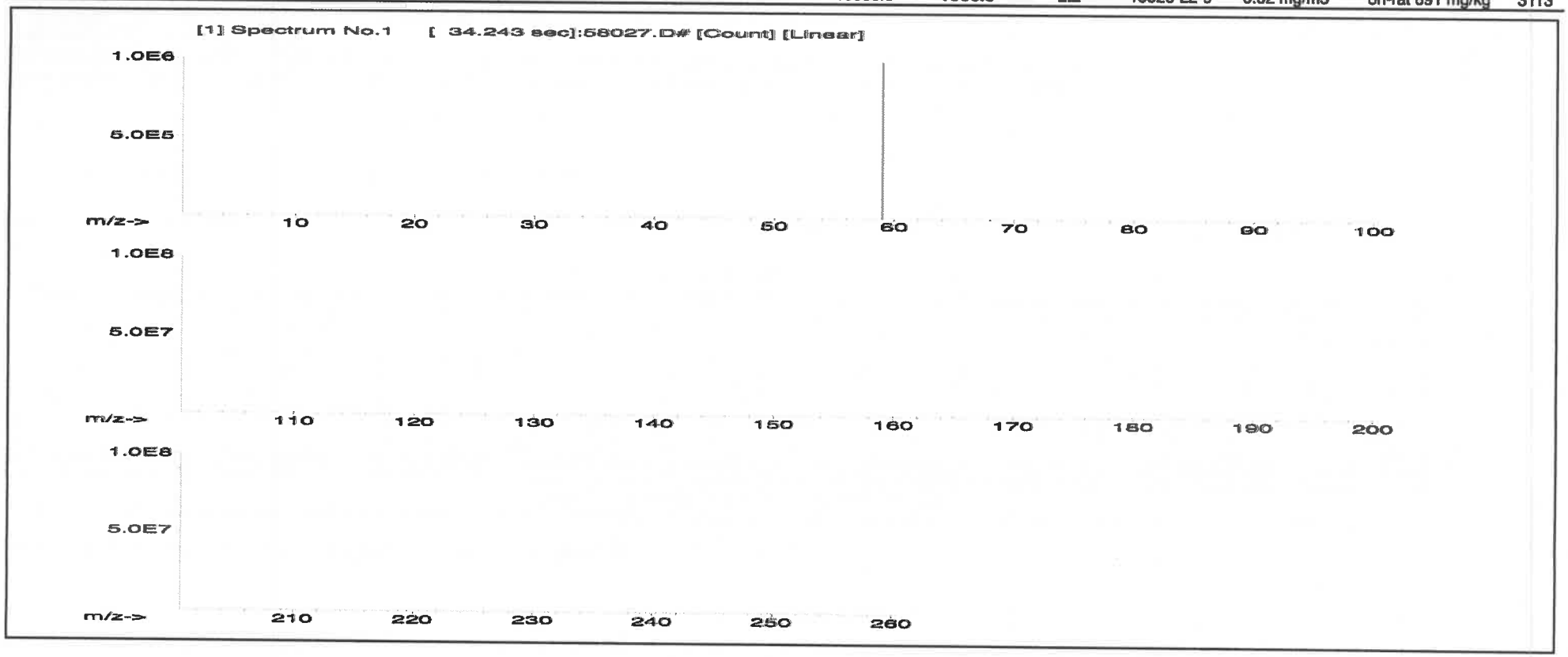
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

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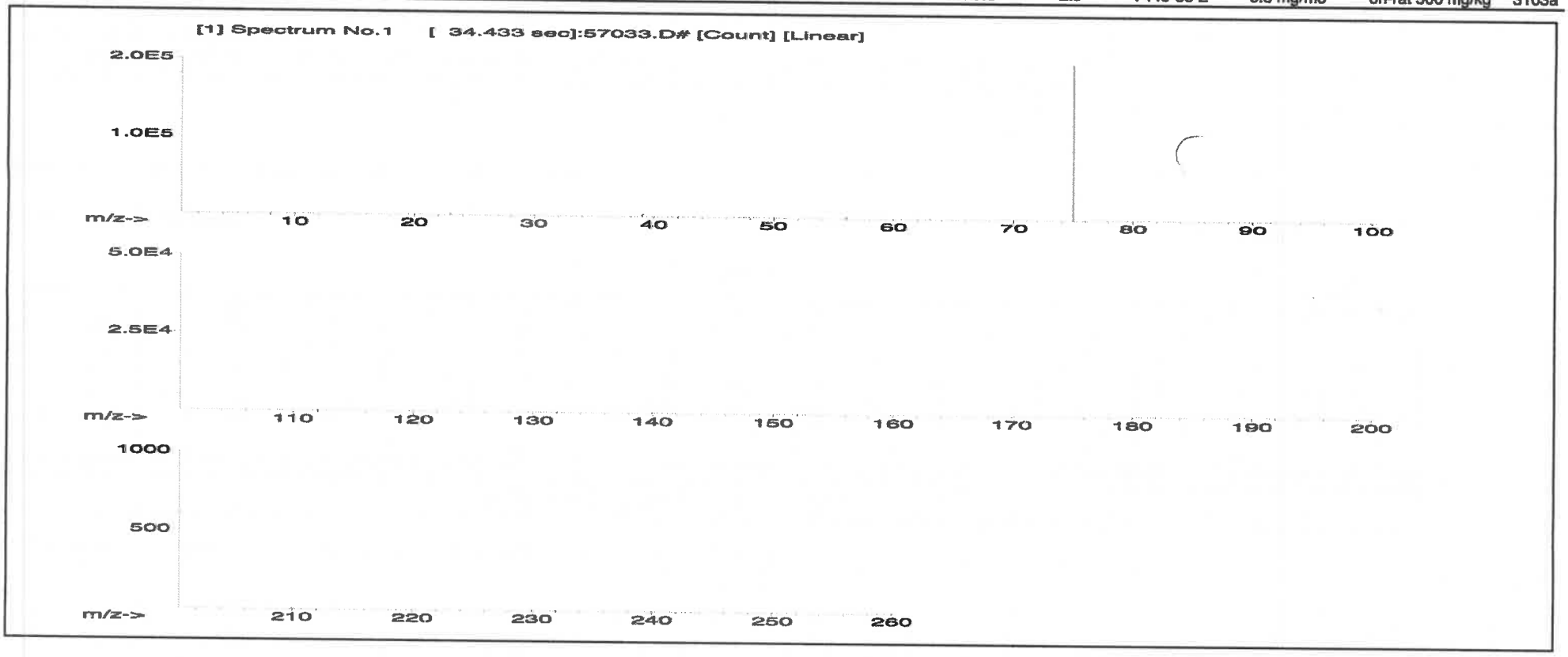
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

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Certificate of Analysis

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inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

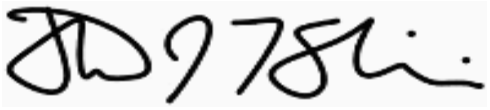
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	T2-MEB715594
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**80.1 ± 0.6 µg/mL**	**Molybdenum, Mo**	**40.04 ± 0.24 µg/mL**
Silica, SiO2	**200.2 ± 1.1 µg/mL**	**Tin, Sn**	**70.1 ± 0.4 µg/mL**
Titanium, Ti	**20.02 ± 0.14 µg/mL**		

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Sb	ICP Assay	3102a	140911
SiO2	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

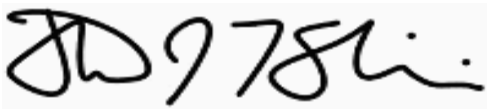
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

CHEMTECH

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P1747
COC Number 2043853

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LiRo Engineers, Inc.
ADDRESS: 703 Fourimer street
CITY Brooklyn STATE: NY ZIP: 11211
ATTENTION: Steve Frank / Amy Hewson
PHONE: 716 882-5476 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Walter Gladwin Park Rec. Center
PROJECT NO.: 19-294-0265.01 LOCATION: Bronx, NY
PROJECT MANAGER: Steve Frank
e-mail: franks@liro-hill.com
PHONE: 716 882-5476 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 5 day TAT DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

ANALYSIS

1 TCL VOCs
2 SVOCs
3 PCBs
4 Pesticides
5 TAL metals*
6
7 NYCDEP Sanitary or Combined Sewer Discharge Parameters
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	D	B	→	→	→	~	~		← Specify Preservatives
1.	MW-01	GW		X	3/12/24	0800	7	X	X	X	X	X					A-HCl D-NaOH
2.	MW-01 DUP	GW		X	↓	0830	7	X	X	X	X	X					B-HN03 E-ICE
3.	MW-01	GW		X	3/13/24	1000	14							X	X		C-H2SO4 F-OTHER
4.	MW-02	GW		X	3/12/24	1200	7	X	X	X	X	X					
5.	TWP-04	GW		X	↓	1100	7	X	X	X	X	X					
6.	Trip Blank #1	DI Water		X	—	—	2	X									
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Eva Hu	3/13/24 1220	1. 3-13-24
2.		2.
3.	3-13-24 1630	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.4 °C
Comments: * TAL Metals (Filtered & Unfiltered)

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P1747 LIRO01
Client Name : LiRo Engineers, Inc.
Client Contact : Steve Frank
Invoice Name : LiRo Engineers, Inc.
Invoice Contact : Steve Frank

Order Date : 3/13/2024 12:28:00 PM
Project Name : Walter Gladwin Recreation
Receive DateTime : 3/13/2024 ~~12:00:00 AM~~ 16:30
Purchase Order :

Project Mgr :
Report Type : NYS ASP A
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P1747-01	MW-01	Water	03/12/2024	08:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
P1747-02	MW-01-DUP	Water	03/12/2024	08:30					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
P1747-03	MW-01	Water	03/13/2024	10:00					
					VOC-NYCD	NYCDischarge	624.1		5 Bus. Days
P1747-04	MW-02	Water	03/12/2024	12:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
P1747-05	MW-04	Water	03/12/2024	11:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
P1747-06	TRIP-BLANK	Water	03/12/2024	00:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days

Relinguished By :
Date / Time : 3-14-24 0903

Received By :
Date / Time : 3/14/24 09:03

Storage Area : **VOA Refridgerator Room**

Ref #4
Ref #5