284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q1194

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1194-01	B-110-SB01
Q1194-02	B-110-SB02
Q1194-03	B-113-SB01
Q1194-04	B-113-SB02
Q1194-08	EB
Q1194-09	FB
Q1194-10	TB

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: 2/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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 #: **Q1194**

	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	✓

QA Review Signature: **KETAN PATEL** **Date:** **02/09/2025**

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LAB CHRONICLE

OrderID:	Q1194	**OrderDate:**	1/27/2025 9:35:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1194-01	**B-110-SB01**	**SOIL**			**01/25/25**			**01/27/25**
			Mercury	7471B		01/27/25	01/27/25	
			Metals ICP-TAL	6010D		01/28/25	01/29/25	
Q1194-02	**B-110-SB02**	**SOIL**			**01/25/25**			**01/27/25**
			Mercury	7471B		01/27/25	01/27/25	
			Metals ICP-TAL	6010D		01/28/25	01/29/25	
Q1194-03	**B-113-SB01**	**SOIL**			**01/25/25**			**01/27/25**
			Mercury	7471B		01/27/25	01/27/25	
			Metals ICP-TAL	6010D		01/28/25	01/29/25	
Q1194-04	**B-113-SB02**	**SOIL**			**01/25/25**			**01/27/25**
			Mercury	7471B		01/27/25	01/27/25	
			Metals ICP-TAL	6010D		01/28/25	01/30/25	
Q1194-08	**EB**	**Water**			**01/25/25**			**01/27/25**
			Mercury	7470A		01/28/25	01/28/25	
			Metals ICP-TAL	6010D		01/27/25	01/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1194 **Order ID:** Q1194

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-110-SB01								
Q1194-01	B-110-SB01	SOIL	Aluminum	5220		2.31	4.80	mg/Kg
Q1194-01	B-110-SB01	SOIL	Arsenic	1.82		0.28	0.96	mg/Kg
Q1194-01	B-110-SB01	SOIL	Barium	49.5		0.61	4.80	mg/Kg
Q1194-01	B-110-SB01	SOIL	Beryllium	0.55		0.012	0.29	mg/Kg
Q1194-01	B-110-SB01	SOIL	Cadmium	0.24	J	0.015	0.29	mg/Kg
Q1194-01	B-110-SB01	SOIL	Calcium	1530		2.69	96.0	mg/Kg
Q1194-01	B-110-SB01	SOIL	Chromium	14.7		0.052	0.48	mg/Kg
Q1194-01	B-110-SB01	SOIL	Cobalt	5.56		0.056	1.44	mg/Kg
Q1194-01	B-110-SB01	SOIL	Copper	14.8		0.45	0.96	mg/Kg
Q1194-01	B-110-SB01	SOIL	Iron	9370		2.58	4.80	mg/Kg
Q1194-01	B-110-SB01	SOIL	Lead	7.05		0.14	0.58	mg/Kg
Q1194-01	B-110-SB01	SOIL	Magnesium	2350		3.29	96.0	mg/Kg
Q1194-01	B-110-SB01	SOIL	Manganese	276		0.068	0.96	mg/Kg
Q1194-01	B-110-SB01	SOIL	Mercury	0.027		0.0070	0.015	mg/Kg
Q1194-01	B-110-SB01	SOIL	Nickel	12.8		0.086	1.92	mg/Kg
Q1194-01	B-110-SB01	SOIL	Potassium	867		27.5	96.0	mg/Kg
Q1194-01	B-110-SB01	SOIL	Sodium	140		34.6	96.0	mg/Kg
Q1194-01	B-110-SB01	SOIL	Thallium	0.72	J	0.42	1.92	mg/Kg
Q1194-01	B-110-SB01	SOIL	Vanadium	8.80		0.26	1.92	mg/Kg
Q1194-01	B-110-SB01	SOIL	Zinc	29.6		0.11	1.92	mg/Kg
Client ID : B-110-SB02								
Q1194-02	B-110-SB02	SOIL	Aluminum	9270		3.52	7.31	mg/Kg
Q1194-02	B-110-SB02	SOIL	Arsenic	77.8		0.42	1.46	mg/Kg
Q1194-02	B-110-SB02	SOIL	Barium	80.4		0.94	7.31	mg/Kg
Q1194-02	B-110-SB02	SOIL	Beryllium	1.08		0.018	0.44	mg/Kg
Q1194-02	B-110-SB02	SOIL	Cadmium	1.32		0.023	0.44	mg/Kg
Q1194-02	B-110-SB02	SOIL	Calcium	1780		4.09	146	mg/Kg
Q1194-02	B-110-SB02	SOIL	Chromium	109		0.079	0.73	mg/Kg
Q1194-02	B-110-SB02	SOIL	Cobalt	8.93		0.085	2.19	mg/Kg
Q1194-02	B-110-SB02	SOIL	Copper	229		0.69	1.46	mg/Kg
Q1194-02	B-110-SB02	SOIL	Iron	17400		3.93	7.31	mg/Kg
Q1194-02	B-110-SB02	SOIL	Lead	330		0.22	0.88	mg/Kg
Q1194-02	B-110-SB02	SOIL	Magnesium	3340		5.01	146	mg/Kg
Q1194-02	B-110-SB02	SOIL	Manganese	165		0.10	1.46	mg/Kg
Q1194-02	B-110-SB02	SOIL	Mercury	7.52	D	0.097	0.22	mg/Kg
Q1194-02	B-110-SB02	SOIL	Nickel	28.6		0.13	2.92	mg/Kg
Q1194-02	B-110-SB02	SOIL	Potassium	1230		42.0	146	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1194 **Order ID:** Q1194

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1194-02	B-110-SB02	SOIL	Silver	1.15		0.076	0.73	mg/Kg
Q1194-02	B-110-SB02	SOIL	Sodium	649		52.8	146	mg/Kg
Q1194-02	B-110-SB02	SOIL	Thallium	0.67	J	0.64	2.92	mg/Kg
Q1194-02	B-110-SB02	SOIL	Vanadium	24.2		0.40	2.92	mg/Kg
Q1194-02	B-110-SB02	SOIL	Zinc	385		0.16	2.92	mg/Kg
Client ID :	**B-113-SB01**							
Q1194-03	B-113-SB01	SOIL	Aluminum	4370		2.44	5.07	mg/Kg
Q1194-03	B-113-SB01	SOIL	Arsenic	0.86	J	0.29	1.01	mg/Kg
Q1194-03	B-113-SB01	SOIL	Barium	31.0		0.65	5.07	mg/Kg
Q1194-03	B-113-SB01	SOIL	Beryllium	0.41		0.012	0.30	mg/Kg
Q1194-03	B-113-SB01	SOIL	Cadmium	0.13	J	0.016	0.30	mg/Kg
Q1194-03	B-113-SB01	SOIL	Calcium	1170		2.84	101	mg/Kg
Q1194-03	B-113-SB01	SOIL	Chromium	9.71		0.055	0.51	mg/Kg
Q1194-03	B-113-SB01	SOIL	Cobalt	5.67		0.059	1.52	mg/Kg
Q1194-03	B-113-SB01	SOIL	Copper	18.0		0.48	1.01	mg/Kg
Q1194-03	B-113-SB01	SOIL	Iron	6540		2.73	5.07	mg/Kg
Q1194-03	B-113-SB01	SOIL	Lead	4.96		0.15	0.61	mg/Kg
Q1194-03	B-113-SB01	SOIL	Magnesium	2630		3.48	101	mg/Kg
Q1194-03	B-113-SB01	SOIL	Manganese	249		0.072	1.01	mg/Kg
Q1194-03	B-113-SB01	SOIL	Nickel	12.6		0.091	2.03	mg/Kg
Q1194-03	B-113-SB01	SOIL	Potassium	1250		29.1	101	mg/Kg
Q1194-03	B-113-SB01	SOIL	Sodium	213		36.6	101	mg/Kg
Q1194-03	B-113-SB01	SOIL	Vanadium	8.50		0.27	2.03	mg/Kg
Q1194-03	B-113-SB01	SOIL	Zinc	23.9		0.11	2.03	mg/Kg
Client ID :	**B-113-SB02**							
Q1194-04	B-113-SB02	SOIL	Aluminum	10400		3.39	7.03	mg/Kg
Q1194-04	B-113-SB02	SOIL	Arsenic	7.87		0.41	1.41	mg/Kg
Q1194-04	B-113-SB02	SOIL	Barium	28.3		0.90	7.03	mg/Kg
Q1194-04	B-113-SB02	SOIL	Beryllium	0.89		0.017	0.42	mg/Kg
Q1194-04	B-113-SB02	SOIL	Cadmium	0.40	J	0.022	0.42	mg/Kg
Q1194-04	B-113-SB02	SOIL	Calcium	1530		3.93	141	mg/Kg
Q1194-04	B-113-SB02	SOIL	Chromium	24.2		0.076	0.70	mg/Kg
Q1194-04	B-113-SB02	SOIL	Cobalt	12.7		0.081	2.11	mg/Kg
Q1194-04	B-113-SB02	SOIL	Copper	16.0		0.66	1.41	mg/Kg
Q1194-04	B-113-SB02	SOIL	Iron	27100		3.78	7.03	mg/Kg
Q1194-04	B-113-SB02	SOIL	Lead	14.3		0.21	0.84	mg/Kg
Q1194-04	B-113-SB02	SOIL	Magnesium	5000		4.82	141	mg/Kg
Q1194-04	B-113-SB02	SOIL	Manganese	330		0.10	1.41	mg/Kg
Q1194-04	B-113-SB02	SOIL	Mercury	0.033		0.0090	0.019	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1194 **Order ID:** Q1194

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1194-04	B-113-SB02	SOIL	Nickel	26.3		0.13	2.81	mg/Kg
Q1194-04	B-113-SB02	SOIL	Potassium	1980		40.3	141	mg/Kg
Q1194-04	B-113-SB02	SOIL	Silver	0.15	J	0.073	0.70	mg/Kg
Q1194-04	B-113-SB02	SOIL	Sodium	940		50.7	141	mg/Kg
Q1194-04	B-113-SB02	SOIL	Thallium	0.64	J	0.62	2.81	mg/Kg
Q1194-04	B-113-SB02	SOIL	Vanadium	26.2		0.38	2.81	mg/Kg
Q1194-04	B-113-SB02	SOIL	Zinc	62.0		0.16	2.81	mg/Kg
Client ID : EB								
Q1194-08	EB	Water	Manganese	21.3		1.46	10.0	ug/L
Q1194-08	EB	Water	Silver	0.72	J	0.58	5.00	ug/L



SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5220		1	2.31	4.80	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-36-0	Antimony	0.14	U	1	0.14	2.40	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-38-2	Arsenic	1.82		1	0.28	0.96	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-39-3	Barium	49.5	N	1	0.61	4.80	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-41-7	Beryllium	0.55	N	1	0.012	0.29	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-43-9	Cadmium	0.24	J*	1	0.015	0.29	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-70-2	Calcium	1530		1	2.69	96.0	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-47-3	Chromium	14.7	N	1	0.052	0.48	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-48-4	Cobalt	5.56		1	0.056	1.44	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-50-8	Copper	14.8	N	1	0.45	0.96	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7439-89-6	Iron	9370		1	2.58	4.80	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7439-92-1	Lead	7.05		1	0.14	0.58	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7439-95-4	Magnesium	2350		1	3.29	96.0	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7439-96-5	Manganese	276		1	0.068	0.96	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7439-97-6	Mercury	0.027		1	0.0070	0.015	mg/Kg	01/27/25 13:05	01/27/25 18:30	SW7471B	
7440-02-0	Nickel	12.8		1	0.086	1.92	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-09-7	Potassium	867	N	1	27.5	96.0	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7782-49-2	Selenium	0.32	UN	1	0.32	0.96	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-22-4	Silver	0.050	U	1	0.050	0.48	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-23-5	Sodium	140		1	34.6	96.0	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-28-0	Thallium	0.72	J	1	0.42	1.92	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-62-2	Vanadium	8.80	N	1	0.26	1.92	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050
7440-66-6	Zinc	29.6		1	0.11	1.92	mg/Kg	01/28/25 11:30	01/29/25 12:15	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	57

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9270		1	3.52	7.31	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-36-0	Antimony	0.22	U	1	0.22	3.65	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-38-2	Arsenic	77.8		1	0.42	1.46	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-39-3	Barium	80.4	N	1	0.94	7.31	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-41-7	Beryllium	1.08	N	1	0.018	0.44	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-43-9	Cadmium	1.32	*	1	0.023	0.44	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-70-2	Calcium	1780		1	4.09	146	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-47-3	Chromium	109	N	1	0.079	0.73	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-48-4	Cobalt	8.93		1	0.085	2.19	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-50-8	Copper	229	N	1	0.69	1.46	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7439-89-6	Iron	17400		1	3.93	7.31	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7439-92-1	Lead	330		1	0.22	0.88	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7439-95-4	Magnesium	3340		1	5.01	146	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7439-96-5	Manganese	165		1	0.10	1.46	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7439-97-6	Mercury	7.52	D	10	0.097	0.22	mg/Kg	01/27/25 13:05	01/27/25 18:52	SW7471B	
7440-02-0	Nickel	28.6		1	0.13	2.92	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-09-7	Potassium	1230	N	1	42.0	146	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7782-49-2	Selenium	0.48	UN	1	0.48	1.46	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-22-4	Silver	1.15		1	0.076	0.73	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-23-5	Sodium	649		1	52.8	146	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-28-0	Thallium	0.67	J	1	0.64	2.92	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-62-2	Vanadium	24.2	N	1	0.40	2.92	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050
7440-66-6	Zinc	385		1	0.16	2.92	mg/Kg	01/28/25 11:30	01/29/25 12:19	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4370		1	2.44	5.07	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-36-0	Antimony	0.15	U	1	0.15	2.53	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-38-2	Arsenic	0.86	J	1	0.29	1.01	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-39-3	Barium	31.0	N	1	0.65	5.07	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-41-7	Beryllium	0.41	N	1	0.012	0.30	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-43-9	Cadmium	0.13	J*	1	0.016	0.30	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-70-2	Calcium	1170		1	2.84	101	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-47-3	Chromium	9.71	N	1	0.055	0.51	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-48-4	Cobalt	5.67		1	0.059	1.52	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-50-8	Copper	18.0	N	1	0.48	1.01	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7439-89-6	Iron	6540		1	2.73	5.07	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7439-92-1	Lead	4.96		1	0.15	0.61	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7439-95-4	Magnesium	2630		1	3.48	101	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7439-96-5	Manganese	249		1	0.072	1.01	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7439-97-6	Mercury	0.0060	U	1	0.0060	0.014	mg/Kg	01/27/25 13:05	01/27/25 18:35	SW7471B	
7440-02-0	Nickel	12.6		1	0.091	2.03	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-09-7	Potassium	1250	N	1	29.1	101	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7782-49-2	Selenium	0.34	UN	1	0.34	1.01	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-22-4	Silver	0.053	U	1	0.053	0.51	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-23-5	Sodium	213		1	36.6	101	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-28-0	Thallium	0.45	U	1	0.45	2.03	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-62-2	Vanadium	8.50	N	1	0.27	2.03	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050
7440-66-6	Zinc	23.9		1	0.11	2.03	mg/Kg	01/28/25 11:30	01/29/25 12:23	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	64.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10400		1	3.39	7.03	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-36-0	Antimony	0.21	U	1	0.21	3.51	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-38-2	Arsenic	7.87		1	0.41	1.41	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-39-3	Barium	28.3	N	1	0.90	7.03	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-41-7	Beryllium	0.89	N	1	0.017	0.42	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-43-9	Cadmium	0.40	J*	1	0.022	0.42	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-70-2	Calcium	1530		1	3.93	141	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-47-3	Chromium	24.2	N	1	0.076	0.70	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-48-4	Cobalt	12.7		1	0.081	2.11	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-50-8	Copper	16.0	N	1	0.66	1.41	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7439-89-6	Iron	27100		1	3.78	7.03	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7439-92-1	Lead	14.3		1	0.21	0.84	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7439-95-4	Magnesium	5000		1	4.82	141	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7439-96-5	Manganese	330		1	0.10	1.41	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7439-97-6	Mercury	0.033		1	0.0090	0.019	mg/Kg	01/27/25 13:05	01/27/25 18:38	SW7471B	
7440-02-0	Nickel	26.3		1	0.13	2.81	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-09-7	Potassium	1980	N	1	40.3	141	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7782-49-2	Selenium	0.46	UN	1	0.46	1.41	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-22-4	Silver	0.15	J	1	0.073	0.70	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-23-5	Sodium	940		1	50.7	141	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-28-0	Thallium	0.64	J	1	0.62	2.81	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-62-2	Vanadium	26.2	N	1	0.38	2.81	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050
7440-66-6	Zinc	62.0		1	0.16	2.81	mg/Kg	01/28/25 11:30	01/30/25 18:03	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	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	28.3	U	1	28.3	50.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-39-3	Barium	6.28	U	1	6.28	50.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-70-2	Calcium	33.0	U	1	33.0	1000	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-47-3	Chromium	0.66	U	1	0.66	5.00	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7439-89-6	Iron	18.5	U	1	18.5	50.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7439-95-4	Magnesium	39.4	U	1	39.4	1000	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7439-96-5	Manganese	21.3	N	1	1.46	10.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	01/28/25 09:25	01/28/25 13:41	SW7470A	
7440-02-0	Nickel	0.85	U	1	0.85	20.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-09-7	Potassium	685	U	1	685	1000	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-22-4	Silver	0.72	J	1	0.58	5.00	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-23-5	Sodium	237	U	1	237	1000	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010
7440-66-6	Zinc	1.75	U	1	1.75	20.0	ug/L	01/27/25 14:15	01/28/25 13:22	SW6010	SW3010

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

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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: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
ICV70	Mercury	3.89	4.0	97	90 - 110	CV	01/27/2025	17:42	LB134437

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
CCV74	Mercury	5.23	5.0	104	90 - 110	CV	01/27/2025	17:46	LB134437
CCV75	Mercury	5.14	5.0	103	90 - 110	CV	01/27/2025	18:17	LB134437
CCV76	Mercury	5.14	5.0	103	90 - 110	CV	01/27/2025	18:46	LB134437
CCV77	Mercury	5.24	5.0	105	90 - 110	CV	01/27/2025	18:54	LB134437

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
ICV72	Mercury	3.93	4.0	98	90 - 110	CV	01/28/2025	12:39	LB134454

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
CCV79	Mercury	5.00	5.0	100	90 - 110	CV	01/28/2025	12:44	LB134454
CCV80	Mercury	5.08	5.0	102	90 - 110	CV	01/28/2025	13:11	LB134454
CCV81	Mercury	5.13	5.0	103	90 - 110	CV	01/28/2025	13:46	LB134454
CCV82	Mercury	4.85	5.0	97	90 - 110	CV	01/28/2025	14:07	LB134454

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	2360	2500	94	90 - 110	P	01/28/2025	12:03	LB134457
	Antimony	993	1000	99	90 - 110	P	01/28/2025	12:03	LB134457
	Arsenic	990	1000	99	90 - 110	P	01/28/2025	12:03	LB134457
	Barium	470	520	90	90 - 110	P	01/28/2025	12:03	LB134457
	Beryllium	475	510	93	90 - 110	P	01/28/2025	12:03	LB134457
	Cadmium	486	510	95	90 - 110	P	01/28/2025	12:03	LB134457
	Calcium	9340	10000	93	90 - 110	P	01/28/2025	12:03	LB134457
	Chromium	520	520	100	90 - 110	P	01/28/2025	12:03	LB134457
	Cobalt	489	520	94	90 - 110	P	01/28/2025	12:03	LB134457
	Copper	511	510	100	90 - 110	P	01/28/2025	12:03	LB134457
	Iron	9750	10000	98	90 - 110	P	01/28/2025	12:03	LB134457
	Lead	984	1000	98	90 - 110	P	01/28/2025	12:03	LB134457
	Magnesium	5480	6000	91	90 - 110	P	01/28/2025	12:03	LB134457
	Manganese	473	520	91	90 - 110	P	01/28/2025	12:03	LB134457
	Nickel	493	530	93	90 - 110	P	01/28/2025	12:03	LB134457
	Potassium	9490	9900	96	90 - 110	P	01/28/2025	12:03	LB134457
	Selenium	1010	1000	101	90 - 110	P	01/28/2025	12:03	LB134457
	Silver	250	250	100	90 - 110	P	01/28/2025	12:03	LB134457
	Sodium	9180	10000	92	90 - 110	P	01/28/2025	12:03	LB134457
	Thallium	1000	1000	100	90 - 110	P	01/28/2025	12:03	LB134457
	Vanadium	473	500	95	90 - 110	P	01/28/2025	12:03	LB134457
	Zinc	1000	1000	100	90 - 110	P	01/28/2025	12:03	LB134457

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	94.1	100	94	80 - 120	P	01/28/2025	12:08	LB134457
	Antimony	50.6	50.0	101	80 - 120	P	01/28/2025	12:08	LB134457
	Arsenic	22.7	20.0	114	80 - 120	P	01/28/2025	12:08	LB134457
	Barium	89.9	100	90	80 - 120	P	01/28/2025	12:08	LB134457
	Beryllium	5.62	6.0	94	80 - 120	P	01/28/2025	12:08	LB134457
	Cadmium	5.78	6.0	96	80 - 120	P	01/28/2025	12:08	LB134457
	Calcium	1870	2000	93	80 - 120	P	01/28/2025	12:08	LB134457
	Chromium	10.1	10.0	101	80 - 120	P	01/28/2025	12:08	LB134457
	Cobalt	28.9	30.0	96	80 - 120	P	01/28/2025	12:08	LB134457
	Copper	21.5	20.0	108	80 - 120	P	01/28/2025	12:08	LB134457
	Iron	85.8	100	86	80 - 120	P	01/28/2025	12:08	LB134457
	Lead	11.8	12.0	99	80 - 120	P	01/28/2025	12:08	LB134457
	Magnesium	1970	2000	98	80 - 120	P	01/28/2025	12:08	LB134457
	Manganese	19.9	20.0	99	80 - 120	P	01/28/2025	12:08	LB134457
	Nickel	38.4	40.0	96	80 - 120	P	01/28/2025	12:08	LB134457
	Potassium	1920	2000	96	80 - 120	P	01/28/2025	12:08	LB134457
	Selenium	21.2	20.0	106	80 - 120	P	01/28/2025	12:08	LB134457
	Silver	10.9	10.0	109	80 - 120	P	01/28/2025	12:08	LB134457
	Sodium	1780	2000	89	80 - 120	P	01/28/2025	12:08	LB134457
	Thallium	40.8	40.0	102	80 - 120	P	01/28/2025	12:08	LB134457
	Vanadium	37.5	40.0	94	80 - 120	P	01/28/2025	12:08	LB134457
	Zinc	39.8	40.0	99	80 - 120	P	01/28/2025	12:08	LB134457

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	9670	10000	97	90 - 110	P	01/28/2025	12:39	LB134457
	Antimony	5090	5000	102	90 - 110	P	01/28/2025	12:39	LB134457
	Arsenic	4990	5000	100	90 - 110	P	01/28/2025	12:39	LB134457
	Barium	9080	10000	91	90 - 110	P	01/28/2025	12:39	LB134457
	Beryllium	232	250	93	90 - 110	P	01/28/2025	12:39	LB134457
	Cadmium	2440	2500	98	90 - 110	P	01/28/2025	12:39	LB134457
	Calcium	23300	25000	93	90 - 110	P	01/28/2025	12:39	LB134457
	Chromium	1010	1000	101	90 - 110	P	01/28/2025	12:39	LB134457
	Cobalt	2430	2500	97	90 - 110	P	01/28/2025	12:39	LB134457
	Copper	1260	1250	101	90 - 110	P	01/28/2025	12:39	LB134457
	Iron	4830	5000	97	90 - 110	P	01/28/2025	12:39	LB134457
	Lead	4940	5000	99	90 - 110	P	01/28/2025	12:39	LB134457
	Magnesium	23100	25000	92	90 - 110	P	01/28/2025	12:39	LB134457
	Manganese	2390	2500	96	90 - 110	P	01/28/2025	12:39	LB134457
	Nickel	2450	2500	98	90 - 110	P	01/28/2025	12:39	LB134457
	Potassium	24100	25000	96	90 - 110	P	01/28/2025	12:39	LB134457
	Selenium	5090	5000	102	90 - 110	P	01/28/2025	12:39	LB134457
	Silver	1220	1250	98	90 - 110	P	01/28/2025	12:39	LB134457
	Sodium	23700	25000	95	90 - 110	P	01/28/2025	12:39	LB134457
	Thallium	4990	5000	100	90 - 110	P	01/28/2025	12:39	LB134457
	Vanadium	2360	2500	94	90 - 110	P	01/28/2025	12:39	LB134457
	Zinc	2510	2500	100	90 - 110	P	01/28/2025	12:39	LB134457
CCV02	Aluminum	9810	10000	98	90 - 110	P	01/28/2025	13:42	LB134457
	Antimony	5060	5000	101	90 - 110	P	01/28/2025	13:42	LB134457
	Arsenic	4890	5000	98	90 - 110	P	01/28/2025	13:42	LB134457
	Barium	9400	10000	94	90 - 110	P	01/28/2025	13:42	LB134457
	Beryllium	232	250	93	90 - 110	P	01/28/2025	13:42	LB134457
	Cadmium	2410	2500	97	90 - 110	P	01/28/2025	13:42	LB134457
	Calcium	23600	25000	94	90 - 110	P	01/28/2025	13:42	LB134457
	Chromium	1010	1000	100	90 - 110	P	01/28/2025	13:42	LB134457
	Cobalt	2410	2500	96	90 - 110	P	01/28/2025	13:42	LB134457
	Copper	1260	1250	101	90 - 110	P	01/28/2025	13:42	LB134457
	Iron	4890	5000	98	90 - 110	P	01/28/2025	13:42	LB134457
	Lead	4900	5000	98	90 - 110	P	01/28/2025	13:42	LB134457

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	23400	25000	94	90 - 110	P	01/28/2025	13:42	LB134457
	Manganese	2280	2500	91	90 - 110	P	01/28/2025	13:42	LB134457
	Nickel	2440	2500	97	90 - 110	P	01/28/2025	13:42	LB134457
	Potassium	24700	25000	99	90 - 110	P	01/28/2025	13:42	LB134457
	Selenium	4990	5000	100	90 - 110	P	01/28/2025	13:42	LB134457
	Silver	1210	1250	97	90 - 110	P	01/28/2025	13:42	LB134457
	Sodium	24800	25000	99	90 - 110	P	01/28/2025	13:42	LB134457
	Thallium	4930	5000	99	90 - 110	P	01/28/2025	13:42	LB134457
	Vanadium	2400	2500	96	90 - 110	P	01/28/2025	13:42	LB134457
	Zinc	2510	2500	100	90 - 110	P	01/28/2025	13:42	LB134457
CCV03	Aluminum	9930	10000	99	90 - 110	P	01/28/2025	14:33	LB134457
	Antimony	5140	5000	103	90 - 110	P	01/28/2025	14:33	LB134457
	Arsenic	5050	5000	101	90 - 110	P	01/28/2025	14:33	LB134457
	Barium	9470	10000	95	90 - 110	P	01/28/2025	14:33	LB134457
	Beryllium	247	250	99	90 - 110	P	01/28/2025	14:33	LB134457
	Cadmium	2500	2500	100	90 - 110	P	01/28/2025	14:33	LB134457
	Calcium	24000	25000	96	90 - 110	P	01/28/2025	14:33	LB134457
	Chromium	1040	1000	104	90 - 110	P	01/28/2025	14:33	LB134457
	Cobalt	2500	2500	100	90 - 110	P	01/28/2025	14:33	LB134457
	Copper	1290	1250	103	90 - 110	P	01/28/2025	14:33	LB134457
	Iron	4840	5000	97	90 - 110	P	01/28/2025	14:33	LB134457
	Lead	5060	5000	101	90 - 110	P	01/28/2025	14:33	LB134457
	Magnesium	23900	25000	96	90 - 110	P	01/28/2025	14:33	LB134457
	Manganese	2300	2500	92	90 - 110	P	01/28/2025	14:33	LB134457
	Nickel	2520	2500	101	90 - 110	P	01/28/2025	14:33	LB134457
	Potassium	23700	25000	95	90 - 110	P	01/28/2025	14:33	LB134457
	Selenium	5110	5000	102	90 - 110	P	01/28/2025	14:33	LB134457
	Silver	1260	1250	101	90 - 110	P	01/28/2025	14:33	LB134457
	Sodium	23300	25000	93	90 - 110	P	01/28/2025	14:33	LB134457
	Thallium	5090	5000	102	90 - 110	P	01/28/2025	14:33	LB134457
	Vanadium	2430	2500	97	90 - 110	P	01/28/2025	14:33	LB134457
	Zinc	2580	2500	103	90 - 110	P	01/28/2025	14:33	LB134457
CCV04	Aluminum	9750	10000	98	90 - 110	P	01/28/2025	15:32	LB134457
	Antimony	5030	5000	100	90 - 110	P	01/28/2025	15:32	LB134457

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	4850	5000	97	90 - 110	P	01/28/2025	15:32	LB134457
	Barium	9320	10000	93	90 - 110	P	01/28/2025	15:32	LB134457
	Beryllium	236	250	94	90 - 110	P	01/28/2025	15:32	LB134457
	Cadmium	2430	2500	97	90 - 110	P	01/28/2025	15:32	LB134457
	Calcium	23600	25000	94	90 - 110	P	01/28/2025	15:32	LB134457
	Chromium	1010	1000	101	90 - 110	P	01/28/2025	15:32	LB134457
	Cobalt	2420	2500	97	90 - 110	P	01/28/2025	15:32	LB134457
	Copper	1260	1250	100	90 - 110	P	01/28/2025	15:32	LB134457
	Iron	4920	5000	98	90 - 110	P	01/28/2025	15:32	LB134457
	Lead	4920	5000	98	90 - 110	P	01/28/2025	15:32	LB134457
	Magnesium	23600	25000	94	90 - 110	P	01/28/2025	15:32	LB134457
	Manganese	2300	2500	92	90 - 110	P	01/28/2025	15:32	LB134457
	Nickel	2450	2500	98	90 - 110	P	01/28/2025	15:32	LB134457
	Potassium	24000	25000	96	90 - 110	P	01/28/2025	15:32	LB134457
	Selenium	4930	5000	99	90 - 110	P	01/28/2025	15:32	LB134457
	Silver	1220	1250	98	90 - 110	P	01/28/2025	15:32	LB134457
	Sodium	24200	25000	97	90 - 110	P	01/28/2025	15:32	LB134457
	Thallium	4760	5000	95	90 - 110	P	01/28/2025	15:32	LB134457
	Vanadium	2390	2500	95	90 - 110	P	01/28/2025	15:32	LB134457
	Zinc	2530	2500	101	90 - 110	P	01/28/2025	15:32	LB134457
CCV05	Aluminum	9610	10000	96	90 - 110	P	01/28/2025	15:52	LB134457
	Antimony	5010	5000	100	90 - 110	P	01/28/2025	15:52	LB134457
	Arsenic	4890	5000	98	90 - 110	P	01/28/2025	15:52	LB134457
	Barium	9150	10000	92	90 - 110	P	01/28/2025	15:52	LB134457
	Beryllium	239	250	96	90 - 110	P	01/28/2025	15:52	LB134457
	Cadmium	2440	2500	98	90 - 110	P	01/28/2025	15:52	LB134457
	Calcium	23400	25000	94	90 - 110	P	01/28/2025	15:52	LB134457
	Chromium	1010	1000	101	90 - 110	P	01/28/2025	15:52	LB134457
	Cobalt	2430	2500	97	90 - 110	P	01/28/2025	15:52	LB134457
	Copper	1260	1250	101	90 - 110	P	01/28/2025	15:52	LB134457
	Iron	4820	5000	96	90 - 110	P	01/28/2025	15:52	LB134457
	Lead	4940	5000	99	90 - 110	P	01/28/2025	15:52	LB134457
	Magnesium	23400	25000	94	90 - 110	P	01/28/2025	15:52	LB134457
	Manganese	2270	2500	91	90 - 110	P	01/28/2025	15:52	LB134457

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	2460	2500	98	90 - 110	P	01/28/2025	15:52	LB134457
	Potassium	23400	25000	94	90 - 110	P	01/28/2025	15:52	LB134457
	Selenium	4960	5000	99	90 - 110	P	01/28/2025	15:52	LB134457
	Silver	1220	1250	98	90 - 110	P	01/28/2025	15:52	LB134457
	Sodium	23300	25000	93	90 - 110	P	01/28/2025	15:52	LB134457
	Thallium	4780	5000	96	90 - 110	P	01/28/2025	15:52	LB134457
	Vanadium	2360	2500	94	90 - 110	P	01/28/2025	15:52	LB134457
	Zinc	2460	2500	98	90 - 110	P	01/28/2025	15:52	LB134457

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	2420	2500	97	90 - 110	P	01/29/2025	11:16	LB134477
	Antimony	984	1000	98	90 - 110	P	01/29/2025	11:16	LB134477
	Arsenic	992	1000	99	90 - 110	P	01/29/2025	11:16	LB134477
	Barium	478	520	92	90 - 110	P	01/29/2025	11:16	LB134477
	Beryllium	482	510	94	90 - 110	P	01/29/2025	11:16	LB134477
	Cadmium	490	510	96	90 - 110	P	01/29/2025	11:16	LB134477
	Calcium	9550	10000	96	90 - 110	P	01/29/2025	11:16	LB134477
	Chromium	517	520	100	90 - 110	P	01/29/2025	11:16	LB134477
	Cobalt	493	520	95	90 - 110	P	01/29/2025	11:16	LB134477
	Copper	512	510	100	90 - 110	P	01/29/2025	11:16	LB134477
	Iron	9940	10000	99	90 - 110	P	01/29/2025	11:16	LB134477
	Lead	983	1000	98	90 - 110	P	01/29/2025	11:16	LB134477
	Magnesium	5680	6000	95	90 - 110	P	01/29/2025	11:16	LB134477
	Manganese	491	520	94	90 - 110	P	01/29/2025	11:16	LB134477
	Nickel	495	530	93	90 - 110	P	01/29/2025	11:16	LB134477
	Potassium	9840	9900	99	90 - 110	P	01/29/2025	11:16	LB134477
	Selenium	1000	1000	100	90 - 110	P	01/29/2025	11:16	LB134477
	Silver	250	250	100	90 - 110	P	01/29/2025	11:16	LB134477
	Sodium	9450	10000	94	90 - 110	P	01/29/2025	11:16	LB134477
	Thallium	1010	1000	101	90 - 110	P	01/29/2025	11:16	LB134477
	Vanadium	486	500	97	90 - 110	P	01/29/2025	11:16	LB134477
	Zinc	996	1000	100	90 - 110	P	01/29/2025	11:16	LB134477

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	97.5	100	98	80 - 120	P	01/29/2025	11:32	LB134477
	Antimony	48.7	50.0	97	80 - 120	P	01/29/2025	11:32	LB134477
	Arsenic	22.8	20.0	114	80 - 120	P	01/29/2025	11:32	LB134477
	Barium	86.5	100	86	80 - 120	P	01/29/2025	11:32	LB134477
	Beryllium	5.74	6.0	96	80 - 120	P	01/29/2025	11:32	LB134477
	Cadmium	5.80	6.0	97	80 - 120	P	01/29/2025	11:32	LB134477
	Calcium	1900	2000	95	80 - 120	P	01/29/2025	11:32	LB134477
	Chromium	9.94	10.0	99	80 - 120	P	01/29/2025	11:32	LB134477
	Cobalt	28.8	30.0	96	80 - 120	P	01/29/2025	11:32	LB134477
	Copper	21.5	20.0	108	80 - 120	P	01/29/2025	11:32	LB134477
	Iron	83.4	100	83	80 - 120	P	01/29/2025	11:32	LB134477
	Lead	11.8	12.0	98	80 - 120	P	01/29/2025	11:32	LB134477
	Magnesium	2000	2000	100	80 - 120	P	01/29/2025	11:32	LB134477
	Manganese	18.3	20.0	91	80 - 120	P	01/29/2025	11:32	LB134477
	Nickel	38.8	40.0	97	80 - 120	P	01/29/2025	11:32	LB134477
	Potassium	1910	2000	96	80 - 120	P	01/29/2025	11:32	LB134477
	Selenium	19.5	20.0	98	80 - 120	P	01/29/2025	11:32	LB134477
	Silver	11.0	10.0	110	80 - 120	P	01/29/2025	11:32	LB134477
	Sodium	1680	2000	84	80 - 120	P	01/29/2025	11:32	LB134477
	Thallium	39.0	40.0	98	80 - 120	P	01/29/2025	11:32	LB134477
	Vanadium	37.6	40.0	94	80 - 120	P	01/29/2025	11:32	LB134477
	Zinc	40.3	40.0	101	80 - 120	P	01/29/2025	11:32	LB134477

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	9810	10000	98	90 - 110	P	01/29/2025	12:06	LB134477
	Antimony	4900	5000	98	90 - 110	P	01/29/2025	12:06	LB134477
	Arsenic	4890	5000	98	90 - 110	P	01/29/2025	12:06	LB134477
	Barium	9210	10000	92	90 - 110	P	01/29/2025	12:06	LB134477
	Beryllium	243	250	97	90 - 110	P	01/29/2025	12:06	LB134477
	Cadmium	2440	2500	98	90 - 110	P	01/29/2025	12:06	LB134477
	Calcium	23900	25000	96	90 - 110	P	01/29/2025	12:06	LB134477
	Chromium	1010	1000	102	90 - 110	P	01/29/2025	12:06	LB134477
	Cobalt	2430	2500	97	90 - 110	P	01/29/2025	12:06	LB134477
	Copper	1230	1250	99	90 - 110	P	01/29/2025	12:06	LB134477
	Iron	4810	5000	96	90 - 110	P	01/29/2025	12:06	LB134477
	Lead	4900	5000	98	90 - 110	P	01/29/2025	12:06	LB134477
	Magnesium	24200	25000	97	90 - 110	P	01/29/2025	12:06	LB134477
	Manganese	2320	2500	93	90 - 110	P	01/29/2025	12:06	LB134477
	Nickel	2440	2500	98	90 - 110	P	01/29/2025	12:06	LB134477
	Potassium	24100	25000	96	90 - 110	P	01/29/2025	12:06	LB134477
	Selenium	4890	5000	98	90 - 110	P	01/29/2025	12:06	LB134477
	Silver	1240	1250	99	90 - 110	P	01/29/2025	12:06	LB134477
	Sodium	23300	25000	93	90 - 110	P	01/29/2025	12:06	LB134477
	Thallium	5020	5000	100	90 - 110	P	01/29/2025	12:06	LB134477
	Vanadium	2400	2500	96	90 - 110	P	01/29/2025	12:06	LB134477
	Zinc	2500	2500	100	90 - 110	P	01/29/2025	12:06	LB134477
CCV02	Aluminum	9950	10000	100	90 - 110	P	01/29/2025	13:12	LB134477
	Antimony	4910	5000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Arsenic	4910	5000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Barium	9280	10000	93	90 - 110	P	01/29/2025	13:12	LB134477
	Beryllium	241	250	97	90 - 110	P	01/29/2025	13:12	LB134477
	Cadmium	2440	2500	97	90 - 110	P	01/29/2025	13:12	LB134477
	Calcium	23800	25000	95	90 - 110	P	01/29/2025	13:12	LB134477
	Chromium	1020	1000	102	90 - 110	P	01/29/2025	13:12	LB134477
	Cobalt	2430	2500	97	90 - 110	P	01/29/2025	13:12	LB134477
	Copper	1240	1250	99	90 - 110	P	01/29/2025	13:12	LB134477
	Iron	4810	5000	96	90 - 110	P	01/29/2025	13:12	LB134477
	Lead	4880	5000	98	90 - 110	P	01/29/2025	13:12	LB134477

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	24400	25000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Manganese	2300	2500	92	90 - 110	P	01/29/2025	13:12	LB134477
	Nickel	2430	2500	97	90 - 110	P	01/29/2025	13:12	LB134477
	Potassium	24400	25000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Selenium	4900	5000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Silver	1230	1250	99	90 - 110	P	01/29/2025	13:12	LB134477
	Sodium	23600	25000	94	90 - 110	P	01/29/2025	13:12	LB134477
	Thallium	4910	5000	98	90 - 110	P	01/29/2025	13:12	LB134477
	Vanadium	2420	2500	97	90 - 110	P	01/29/2025	13:12	LB134477
	Zinc	2500	2500	100	90 - 110	P	01/29/2025	13:12	LB134477
CCV03	Aluminum	9760	10000	98	90 - 110	P	01/29/2025	14:01	LB134477
	Antimony	4820	5000	96	90 - 110	P	01/29/2025	14:01	LB134477
	Arsenic	4850	5000	97	90 - 110	P	01/29/2025	14:01	LB134477
	Barium	9080	10000	91	90 - 110	P	01/29/2025	14:01	LB134477
	Beryllium	238	250	95	90 - 110	P	01/29/2025	14:01	LB134477
	Cadmium	2400	2500	96	90 - 110	P	01/29/2025	14:01	LB134477
	Calcium	23500	25000	94	90 - 110	P	01/29/2025	14:01	LB134477
	Chromium	1010	1000	101	90 - 110	P	01/29/2025	14:01	LB134477
	Cobalt	2390	2500	96	90 - 110	P	01/29/2025	14:01	LB134477
	Copper	1210	1250	97	90 - 110	P	01/29/2025	14:01	LB134477
	Iron	4810	5000	96	90 - 110	P	01/29/2025	14:01	LB134477
	Lead	4810	5000	96	90 - 110	P	01/29/2025	14:01	LB134477
	Magnesium	24100	25000	96	90 - 110	P	01/29/2025	14:01	LB134477
	Manganese	2280	2500	91	90 - 110	P	01/29/2025	14:01	LB134477
	Nickel	2400	2500	96	90 - 110	P	01/29/2025	14:01	LB134477
	Potassium	24200	25000	97	90 - 110	P	01/29/2025	14:01	LB134477
	Selenium	4850	5000	97	90 - 110	P	01/29/2025	14:01	LB134477
	Silver	1220	1250	97	90 - 110	P	01/29/2025	14:01	LB134477
	Sodium	23600	25000	94	90 - 110	P	01/29/2025	14:01	LB134477
	Thallium	5000	5000	100	90 - 110	P	01/29/2025	14:01	LB134477
	Vanadium	2380	2500	95	90 - 110	P	01/29/2025	14:01	LB134477
	Zinc	2460	2500	99	90 - 110	P	01/29/2025	14:01	LB134477
CCV04	Aluminum	9770	10000	98	90 - 110	P	01/29/2025	14:24	LB134477
	Antimony	4820	5000	96	90 - 110	P	01/29/2025	14:24	LB134477

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	4810	5000	96	90 - 110	P	01/29/2025	14:24	LB134477
	Barium	9120	10000	91	90 - 110	P	01/29/2025	14:24	LB134477
	Beryllium	238	250	95	90 - 110	P	01/29/2025	14:24	LB134477
	Cadmium	2390	2500	96	90 - 110	P	01/29/2025	14:24	LB134477
	Calcium	23400	25000	94	90 - 110	P	01/29/2025	14:24	LB134477
	Chromium	1010	1000	101	90 - 110	P	01/29/2025	14:24	LB134477
	Cobalt	2380	2500	95	90 - 110	P	01/29/2025	14:24	LB134477
	Copper	1220	1250	98	90 - 110	P	01/29/2025	14:24	LB134477
	Iron	4760	5000	95	90 - 110	P	01/29/2025	14:24	LB134477
	Lead	4810	5000	96	90 - 110	P	01/29/2025	14:24	LB134477
	Magnesium	23900	25000	95	90 - 110	P	01/29/2025	14:24	LB134477
	Manganese	2260	2500	90	90 - 110	P	01/29/2025	14:24	LB134477
	Nickel	2390	2500	96	90 - 110	P	01/29/2025	14:24	LB134477
	Potassium	24100	25000	96	90 - 110	P	01/29/2025	14:24	LB134477
	Selenium	4820	5000	96	90 - 110	P	01/29/2025	14:24	LB134477
	Silver	1220	1250	98	90 - 110	P	01/29/2025	14:24	LB134477
	Sodium	23300	25000	93	90 - 110	P	01/29/2025	14:24	LB134477
	Thallium	4910	5000	98	90 - 110	P	01/29/2025	14:24	LB134477
	Vanadium	2380	2500	95	90 - 110	P	01/29/2025	14:24	LB134477
	Zinc	2420	2500	97	90 - 110	P	01/29/2025	14:24	LB134477

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	2350	2500	94	90 - 110	P	01/30/2025	11:49	LB134493
	Antimony	1000	1000	100	90 - 110	P	01/30/2025	11:49	LB134493
	Arsenic	1040	1000	104	90 - 110	P	01/30/2025	11:49	LB134493
	Barium	470	520	90	90 - 110	P	01/30/2025	11:49	LB134493
	Beryllium	472	510	92	90 - 110	P	01/30/2025	11:49	LB134493
	Cadmium	502	510	98	90 - 110	P	01/30/2025	11:49	LB134493
	Calcium	9280	10000	93	90 - 110	P	01/30/2025	11:49	LB134493
	Chromium	522	520	100	90 - 110	P	01/30/2025	11:49	LB134493
	Cobalt	504	520	97	90 - 110	P	01/30/2025	11:49	LB134493
	Copper	523	510	103	90 - 110	P	01/30/2025	11:49	LB134493
	Iron	9560	10000	96	90 - 110	P	01/30/2025	11:49	LB134493
	Lead	1000	1000	100	90 - 110	P	01/30/2025	11:49	LB134493
	Magnesium	5450	6000	91	90 - 110	P	01/30/2025	11:49	LB134493
	Manganese	519	520	100	90 - 110	P	01/30/2025	11:49	LB134493
	Nickel	507	530	96	90 - 110	P	01/30/2025	11:49	LB134493
	Potassium	9440	9900	95	90 - 110	P	01/30/2025	11:49	LB134493
	Selenium	1040	1000	104	90 - 110	P	01/30/2025	11:49	LB134493
	Silver	252	250	101	90 - 110	P	01/30/2025	11:49	LB134493
	Sodium	9500	10000	95	90 - 110	P	01/30/2025	11:49	LB134493
	Thallium	1020	1000	102	90 - 110	P	01/30/2025	11:49	LB134493
	Vanadium	455	500	91	90 - 110	P	01/30/2025	11:49	LB134493
	Zinc	1010	1000	101	90 - 110	P	01/30/2025	11:49	LB134493

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	89.2	100	89	80 - 120	P	01/30/2025	11:56	LB134493
	Antimony	49.5	50.0	99	80 - 120	P	01/30/2025	11:56	LB134493
	Arsenic	21.3	20.0	107	80 - 120	P	01/30/2025	11:56	LB134493
	Barium	83.9	100	84	80 - 120	P	01/30/2025	11:56	LB134493
	Beryllium	5.55	6.0	92	80 - 120	P	01/30/2025	11:56	LB134493
	Cadmium	5.60	6.0	93	80 - 120	P	01/30/2025	11:56	LB134493
	Calcium	1830	2000	92	80 - 120	P	01/30/2025	11:56	LB134493
	Chromium	9.80	10.0	98	80 - 120	P	01/30/2025	11:56	LB134493
	Cobalt	28.7	30.0	96	80 - 120	P	01/30/2025	11:56	LB134493
	Copper	21.6	20.0	108	80 - 120	P	01/30/2025	11:56	LB134493
	Iron	106	100	106	80 - 120	P	01/30/2025	11:56	LB134493
	Lead	12.2	12.0	102	80 - 120	P	01/30/2025	11:56	LB134493
	Magnesium	1970	2000	99	80 - 120	P	01/30/2025	11:56	LB134493
	Manganese	18.0	20.0	90	80 - 120	P	01/30/2025	11:56	LB134493
	Nickel	38.6	40.0	97	80 - 120	P	01/30/2025	11:56	LB134493
	Potassium	1920	2000	96	80 - 120	P	01/30/2025	11:56	LB134493
	Selenium	19.1	20.0	96	80 - 120	P	01/30/2025	11:56	LB134493
	Silver	10.4	10.0	104	80 - 120	P	01/30/2025	11:56	LB134493
	Sodium	1920	2000	96	80 - 120	P	01/30/2025	11:56	LB134493
	Thallium	39.0	40.0	98	80 - 120	P	01/30/2025	11:56	LB134493
	Vanadium	34.8	40.0	87	80 - 120	P	01/30/2025	11:56	LB134493
	Zinc	38.3	40.0	96	80 - 120	P	01/30/2025	11:56	LB134493

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	9490	10000	95	90 - 110	P	01/30/2025	12:41	LB134493
	Antimony	5010	5000	100	90 - 110	P	01/30/2025	12:41	LB134493
	Arsenic	4950	5000	99	90 - 110	P	01/30/2025	12:41	LB134493
	Barium	9130	10000	91	90 - 110	P	01/30/2025	12:41	LB134493
	Beryllium	237	250	95	90 - 110	P	01/30/2025	12:41	LB134493
	Cadmium	2420	2500	97	90 - 110	P	01/30/2025	12:41	LB134493
	Calcium	23200	25000	93	90 - 110	P	01/30/2025	12:41	LB134493
	Chromium	988	1000	99	90 - 110	P	01/30/2025	12:41	LB134493
	Cobalt	2420	2500	97	90 - 110	P	01/30/2025	12:41	LB134493
	Copper	1250	1250	100	90 - 110	P	01/30/2025	12:41	LB134493
	Iron	4690	5000	94	90 - 110	P	01/30/2025	12:41	LB134493
	Lead	4840	5000	97	90 - 110	P	01/30/2025	12:41	LB134493
	Magnesium	23200	25000	93	90 - 110	P	01/30/2025	12:41	LB134493
	Manganese	2260	2500	90	90 - 110	P	01/30/2025	12:41	LB134493
	Nickel	2420	2500	97	90 - 110	P	01/30/2025	12:41	LB134493
	Potassium	23700	25000	95	90 - 110	P	01/30/2025	12:41	LB134493
	Selenium	5010	5000	100	90 - 110	P	01/30/2025	12:41	LB134493
	Silver	1210	1250	97	90 - 110	P	01/30/2025	12:41	LB134493
	Sodium	24100	25000	96	90 - 110	P	01/30/2025	12:41	LB134493
	Thallium	5080	5000	102	90 - 110	P	01/30/2025	12:41	LB134493
	Vanadium	2350	2500	94	90 - 110	P	01/30/2025	12:41	LB134493
	Zinc	2460	2500	98	90 - 110	P	01/30/2025	12:41	LB134493
CCV02	Aluminum	9600	10000	96	90 - 110	P	01/30/2025	13:33	LB134493
	Antimony	5060	5000	101	90 - 110	P	01/30/2025	13:33	LB134493
	Arsenic	5000	5000	100	90 - 110	P	01/30/2025	13:33	LB134493
	Barium	9200	10000	92	90 - 110	P	01/30/2025	13:33	LB134493
	Beryllium	232	250	93	90 - 110	P	01/30/2025	13:33	LB134493
	Cadmium	2420	2500	97	90 - 110	P	01/30/2025	13:33	LB134493
	Calcium	23300	25000	93	90 - 110	P	01/30/2025	13:33	LB134493
	Chromium	988	1000	99	90 - 110	P	01/30/2025	13:33	LB134493
	Cobalt	2410	2500	96	90 - 110	P	01/30/2025	13:33	LB134493
	Copper	1250	1250	100	90 - 110	P	01/30/2025	13:33	LB134493
	Iron	4770	5000	96	90 - 110	P	01/30/2025	13:33	LB134493
	Lead	4830	5000	97	90 - 110	P	01/30/2025	13:33	LB134493

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	23300	25000	93	90 - 110	P	01/30/2025	13:33	LB134493
	Manganese	2250	2500	90	90 - 110	P	01/30/2025	13:33	LB134493
	Nickel	2420	2500	97	90 - 110	P	01/30/2025	13:33	LB134493
	Potassium	24400	25000	97	90 - 110	P	01/30/2025	13:33	LB134493
	Selenium	5050	5000	101	90 - 110	P	01/30/2025	13:33	LB134493
	Silver	1200	1250	96	90 - 110	P	01/30/2025	13:33	LB134493
	Sodium	25000	25000	100	90 - 110	P	01/30/2025	13:33	LB134493
	Thallium	5120	5000	102	90 - 110	P	01/30/2025	13:33	LB134493
	Vanadium	2360	2500	94	90 - 110	P	01/30/2025	13:33	LB134493
	Zinc	2450	2500	98	90 - 110	P	01/30/2025	13:33	LB134493
CCV03	Aluminum	9650	10000	96	90 - 110	P	01/30/2025	14:34	LB134493
	Antimony	4780	5000	96	90 - 110	P	01/30/2025	14:34	LB134493
	Arsenic	4880	5000	98	90 - 110	P	01/30/2025	14:34	LB134493
	Barium	9430	10000	94	90 - 110	P	01/30/2025	14:34	LB134493
	Beryllium	231	250	92	90 - 110	P	01/30/2025	14:34	LB134493
	Cadmium	2490	2500	100	90 - 110	P	01/30/2025	14:34	LB134493
	Calcium	23500	25000	94	90 - 110	P	01/30/2025	14:34	LB134493
	Chromium	985	1000	98	90 - 110	P	01/30/2025	14:34	LB134493
	Cobalt	2440	2500	98	90 - 110	P	01/30/2025	14:34	LB134493
	Copper	1200	1250	96	90 - 110	P	01/30/2025	14:34	LB134493
	Iron	4870	5000	97	90 - 110	P	01/30/2025	14:34	LB134493
	Lead	4910	5000	98	90 - 110	P	01/30/2025	14:34	LB134493
	Magnesium	23400	25000	94	90 - 110	P	01/30/2025	14:34	LB134493
	Manganese	2300	2500	92	90 - 110	P	01/30/2025	14:34	LB134493
	Nickel	2450	2500	98	90 - 110	P	01/30/2025	14:34	LB134493
	Potassium	24900	25000	100	90 - 110	P	01/30/2025	14:34	LB134493
	Selenium	5010	5000	100	90 - 110	P	01/30/2025	14:34	LB134493
	Silver	1210	1250	97	90 - 110	P	01/30/2025	14:34	LB134493
	Sodium	25200	25000	101	90 - 110	P	01/30/2025	14:34	LB134493
	Thallium	5070	5000	102	90 - 110	P	01/30/2025	14:34	LB134493
	Vanadium	2380	2500	95	90 - 110	P	01/30/2025	14:34	LB134493
	Zinc	2450	2500	98	90 - 110	P	01/30/2025	14:34	LB134493
CCV04	Aluminum	9670	10000	97	90 - 110	P	01/30/2025	15:25	LB134493
	Antimony	4980	5000	100	90 - 110	P	01/30/2025	15:25	LB134493

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	4890	5000	98	90 - 110	P	01/30/2025	15:25	LB134493
	Barium	9350	10000	94	90 - 110	P	01/30/2025	15:25	LB134493
	Beryllium	231	250	92	90 - 110	P	01/30/2025	15:25	LB134493
	Cadmium	2370	2500	95	90 - 110	P	01/30/2025	15:25	LB134493
	Calcium	23400	25000	94	90 - 110	P	01/30/2025	15:25	LB134493
	Chromium	1000	1000	100	90 - 110	P	01/30/2025	15:25	LB134493
	Cobalt	2370	2500	95	90 - 110	P	01/30/2025	15:25	LB134493
	Copper	1230	1250	98	90 - 110	P	01/30/2025	15:25	LB134493
	Iron	4940	5000	99	90 - 110	P	01/30/2025	15:25	LB134493
	Lead	4750	5000	95	90 - 110	P	01/30/2025	15:25	LB134493
	Magnesium	23400	25000	94	90 - 110	P	01/30/2025	15:25	LB134493
	Manganese	2280	2500	91	90 - 110	P	01/30/2025	15:25	LB134493
	Nickel	2380	2500	95	90 - 110	P	01/30/2025	15:25	LB134493
	Potassium	25200	25000	101	90 - 110	P	01/30/2025	15:25	LB134493
	Selenium	4950	5000	99	90 - 110	P	01/30/2025	15:25	LB134493
	Silver	1220	1250	98	90 - 110	P	01/30/2025	15:25	LB134493
	Sodium	25700	25000	103	90 - 110	P	01/30/2025	15:25	LB134493
	Thallium	5090	5000	102	90 - 110	P	01/30/2025	15:25	LB134493
	Vanadium	2390	2500	95	90 - 110	P	01/30/2025	15:25	LB134493
	Zinc	2480	2500	99	90 - 110	P	01/30/2025	15:25	LB134493
CCV05	Aluminum	9750	10000	98	90 - 110	P	01/30/2025	16:24	LB134493
	Antimony	4910	5000	98	90 - 110	P	01/30/2025	16:24	LB134493
	Arsenic	4830	5000	97	90 - 110	P	01/30/2025	16:24	LB134493
	Barium	9330	10000	93	90 - 110	P	01/30/2025	16:24	LB134493
	Beryllium	234	250	94	90 - 110	P	01/30/2025	16:24	LB134493
	Cadmium	2370	2500	95	90 - 110	P	01/30/2025	16:24	LB134493
	Calcium	23700	25000	95	90 - 110	P	01/30/2025	16:24	LB134493
	Chromium	991	1000	99	90 - 110	P	01/30/2025	16:24	LB134493
	Cobalt	2370	2500	95	90 - 110	P	01/30/2025	16:24	LB134493
	Copper	1220	1250	98	90 - 110	P	01/30/2025	16:24	LB134493
	Iron	4830	5000	96	90 - 110	P	01/30/2025	16:24	LB134493
	Lead	4740	5000	95	90 - 110	P	01/30/2025	16:24	LB134493
	Magnesium	23700	25000	95	90 - 110	P	01/30/2025	16:24	LB134493
	Manganese	2310	2500	92	90 - 110	P	01/30/2025	16:24	LB134493

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	2370	2500	95	90 - 110	P	01/30/2025	16:24	LB134493
	Potassium	24500	25000	98	90 - 110	P	01/30/2025	16:24	LB134493
	Selenium	4860	5000	97	90 - 110	P	01/30/2025	16:24	LB134493
	Silver	1210	1250	97	90 - 110	P	01/30/2025	16:24	LB134493
	Sodium	24900	25000	100	90 - 110	P	01/30/2025	16:24	LB134493
	Thallium	4980	5000	100	90 - 110	P	01/30/2025	16:24	LB134493
	Vanadium	2410	2500	96	90 - 110	P	01/30/2025	16:24	LB134493
	Zinc	2450	2500	98	90 - 110	P	01/30/2025	16:24	LB134493
CCV06	Aluminum	9690	10000	97	90 - 110	P	01/30/2025	17:19	LB134493
	Antimony	5050	5000	101	90 - 110	P	01/30/2025	17:19	LB134493
	Arsenic	4970	5000	99	90 - 110	P	01/30/2025	17:19	LB134493
	Barium	9260	10000	93	90 - 110	P	01/30/2025	17:19	LB134493
	Beryllium	235	250	94	90 - 110	P	01/30/2025	17:19	LB134493
	Cadmium	2440	2500	98	90 - 110	P	01/30/2025	17:19	LB134493
	Calcium	23500	25000	94	90 - 110	P	01/30/2025	17:19	LB134493
	Chromium	1010	1000	101	90 - 110	P	01/30/2025	17:19	LB134493
	Cobalt	2440	2500	98	90 - 110	P	01/30/2025	17:19	LB134493
	Copper	1260	1250	100	90 - 110	P	01/30/2025	17:19	LB134493
	Iron	4800	5000	96	90 - 110	P	01/30/2025	17:19	LB134493
	Lead	4880	5000	98	90 - 110	P	01/30/2025	17:19	LB134493
	Magnesium	23700	25000	95	90 - 110	P	01/30/2025	17:19	LB134493
	Manganese	2290	2500	92	90 - 110	P	01/30/2025	17:19	LB134493
	Nickel	2440	2500	98	90 - 110	P	01/30/2025	17:19	LB134493
	Potassium	24300	25000	97	90 - 110	P	01/30/2025	17:19	LB134493
	Selenium	4970	5000	100	90 - 110	P	01/30/2025	17:19	LB134493
	Silver	1230	1250	99	90 - 110	P	01/30/2025	17:19	LB134493
	Sodium	24900	25000	100	90 - 110	P	01/30/2025	17:19	LB134493
	Thallium	5010	5000	100	90 - 110	P	01/30/2025	17:19	LB134493
	Vanadium	2380	2500	95	90 - 110	P	01/30/2025	17:19	LB134493
	Zinc	2470	2500	99	90 - 110	P	01/30/2025	17:19	LB134493
CCV07	Aluminum	9880	10000	99	90 - 110	P	01/30/2025	18:11	LB134493
	Antimony	5060	5000	101	90 - 110	P	01/30/2025	18:11	LB134493
	Arsenic	4970	5000	99	90 - 110	P	01/30/2025	18:11	LB134493
	Barium	9620	10000	96	90 - 110	P	01/30/2025	18:11	LB134493

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	237	250	95	90 - 110	P	01/30/2025	18:11	LB134493
	Cadmium	2440	2500	98	90 - 110	P	01/30/2025	18:11	LB134493
	Calcium	24100	25000	96	90 - 110	P	01/30/2025	18:11	LB134493
	Chromium	1020	1000	102	90 - 110	P	01/30/2025	18:11	LB134493
	Cobalt	2450	2500	98	90 - 110	P	01/30/2025	18:11	LB134493
	Copper	1250	1250	100	90 - 110	P	01/30/2025	18:11	LB134493
	Iron	5050	5000	101	90 - 110	P	01/30/2025	18:11	LB134493
	Lead	4880	5000	98	90 - 110	P	01/30/2025	18:11	LB134493
	Magnesium	24100	25000	96	90 - 110	P	01/30/2025	18:11	LB134493
	Manganese	2360	2500	94	90 - 110	P	01/30/2025	18:11	LB134493
	Nickel	2450	2500	98	90 - 110	P	01/30/2025	18:11	LB134493
	Potassium	25700	25000	103	90 - 110	P	01/30/2025	18:11	LB134493
	Selenium	5000	5000	100	90 - 110	P	01/30/2025	18:11	LB134493
	Silver	1270	1250	101	90 - 110	P	01/30/2025	18:11	LB134493
	Sodium	26300	25000	105	90 - 110	P	01/30/2025	18:11	LB134493
	Thallium	5060	5000	101	90 - 110	P	01/30/2025	18:11	LB134493
	Vanadium	2450	2500	98	90 - 110	P	01/30/2025	18:11	LB134493
	Zinc	2520	2500	101	90 - 110	P	01/30/2025	18:11	LB134493
CCV08	Aluminum	9710	10000	97	90 - 110	P	01/30/2025	18:45	LB134493
	Antimony	5060	5000	101	90 - 110	P	01/30/2025	18:45	LB134493
	Arsenic	5000	5000	100	90 - 110	P	01/30/2025	18:45	LB134493
	Barium	9470	10000	95	90 - 110	P	01/30/2025	18:45	LB134493
	Beryllium	234	250	94	90 - 110	P	01/30/2025	18:45	LB134493
	Cadmium	2430	2500	97	90 - 110	P	01/30/2025	18:45	LB134493
	Calcium	23600	25000	95	90 - 110	P	01/30/2025	18:45	LB134493
	Chromium	1010	1000	101	90 - 110	P	01/30/2025	18:45	LB134493
	Cobalt	2430	2500	97	90 - 110	P	01/30/2025	18:45	LB134493
	Copper	1250	1250	100	90 - 110	P	01/30/2025	18:45	LB134493
	Iron	4940	5000	99	90 - 110	P	01/30/2025	18:45	LB134493
	Lead	4860	5000	97	90 - 110	P	01/30/2025	18:45	LB134493
	Magnesium	23700	25000	95	90 - 110	P	01/30/2025	18:45	LB134493
	Manganese	2310	2500	92	90 - 110	P	01/30/2025	18:45	LB134493
	Nickel	2430	2500	97	90 - 110	P	01/30/2025	18:45	LB134493
	Potassium	25100	25000	100	90 - 110	P	01/30/2025	18:45	LB134493

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	5030	5000	101	90 - 110	P	01/30/2025	18:45	LB134493
	Silver	1250	1250	100	90 - 110	P	01/30/2025	18:45	LB134493
	Sodium	25600	25000	102	90 - 110	P	01/30/2025	18:45	LB134493
	Thallium	5060	5000	101	90 - 110	P	01/30/2025	18:45	LB134493
	Vanadium	2410	2500	96	90 - 110	P	01/30/2025	18:45	LB134493
	Zinc	2450	2500	98	90 - 110	P	01/30/2025	18:45	LB134493

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
CRA	Mercury	0.25	0.2	127	40 - 160	CV	01/27/2025	17:51	LB134437
CRI01	Aluminum	95.1	100	95	40 - 160	P	01/28/2025	12:26	LB134457
	Antimony	50.3	50.0	101	40 - 160	P	01/28/2025	12:26	LB134457
	Arsenic	21.0	20.0	105	40 - 160	P	01/28/2025	12:26	LB134457
	Barium	85.5	100	86	40 - 160	P	01/28/2025	12:26	LB134457
	Beryllium	5.75	6.0	96	40 - 160	P	01/28/2025	12:26	LB134457
	Cadmium	5.73	6.0	95	40 - 160	P	01/28/2025	12:26	LB134457
	Calcium	1840	2000	92	40 - 160	P	01/28/2025	12:26	LB134457
	Chromium	9.95	10.0	100	40 - 160	P	01/28/2025	12:26	LB134457
	Cobalt	28.5	30.0	95	40 - 160	P	01/28/2025	12:26	LB134457
	Copper	21.5	20.0	108	40 - 160	P	01/28/2025	12:26	LB134457
	Iron	82.2	100	82	40 - 160	P	01/28/2025	12:26	LB134457
	Lead	12.2	12.0	102	40 - 160	P	01/28/2025	12:26	LB134457
	Magnesium	1920	2000	96	40 - 160	P	01/28/2025	12:26	LB134457
	Manganese	19.6	20.0	98	40 - 160	P	01/28/2025	12:26	LB134457
	Nickel	38.4	40.0	96	40 - 160	P	01/28/2025	12:26	LB134457
	Potassium	1790	2000	90	40 - 160	P	01/28/2025	12:26	LB134457
	Selenium	19.9	20.0	99	40 - 160	P	01/28/2025	12:26	LB134457
	Silver	10.8	10.0	108	40 - 160	P	01/28/2025	12:26	LB134457
	Sodium	1620	2000	81	40 - 160	P	01/28/2025	12:26	LB134457
	Thallium	41.3	40.0	103	40 - 160	P	01/28/2025	12:26	LB134457
	Vanadium	36.1	40.0	90	40 - 160	P	01/28/2025	12:26	LB134457
	Zinc	39.9	40.0	100	40 - 160	P	01/28/2025	12:26	LB134457
CRA	Mercury	0.19	0.2	97	40 - 160	CV	01/28/2025	12:49	LB134454
CRI01	Aluminum	94.8	100	95	40 - 160	P	01/29/2025	11:41	LB134477
	Antimony	49.1	50.0	98	40 - 160	P	01/29/2025	11:41	LB134477
	Arsenic	23.4	20.0	117	40 - 160	P	01/29/2025	11:41	LB134477
	Barium	86.2	100	86	40 - 160	P	01/29/2025	11:41	LB134477
	Beryllium	5.72	6.0	95	40 - 160	P	01/29/2025	11:41	LB134477
	Cadmium	5.68	6.0	95	40 - 160	P	01/29/2025	11:41	LB134477
	Calcium	1880	2000	94	40 - 160	P	01/29/2025	11:41	LB134477
	Chromium	9.46	10.0	95	40 - 160	P	01/29/2025	11:41	LB134477
	Cobalt	28.2	30.0	94	40 - 160	P	01/29/2025	11:41	LB134477
	Copper	21.2	20.0	106	40 - 160	P	01/29/2025	11:41	LB134477
	Iron	83.8	100	84	40 - 160	P	01/29/2025	11:41	LB134477

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	Lead	10.4	12.0	87	40 - 160	P	01/29/2025	11:41	LB134477
	Magnesium	1990	2000	100	40 - 160	P	01/29/2025	11:41	LB134477
	Manganese	18.6	20.0	93	40 - 160	P	01/29/2025	11:41	LB134477
	Nickel	37.7	40.0	94	40 - 160	P	01/29/2025	11:41	LB134477
	Potassium	1920	2000	96	40 - 160	P	01/29/2025	11:41	LB134477
	Selenium	18.9	20.0	95	40 - 160	P	01/29/2025	11:41	LB134477
	Silver	10.3	10.0	103	40 - 160	P	01/29/2025	11:41	LB134477
	Sodium	1660	2000	83	40 - 160	P	01/29/2025	11:41	LB134477
	Thallium	38.8	40.0	97	40 - 160	P	01/29/2025	11:41	LB134477
	Vanadium	38.7	40.0	97	40 - 160	P	01/29/2025	11:41	LB134477
	Zinc	38.9	40.0	97	40 - 160	P	01/29/2025	11:41	LB134477
CRI01	Aluminum	84.9	100	85	40 - 160	P	01/30/2025	12:05	LB134493
	Antimony	47.1	50.0	94	40 - 160	P	01/30/2025	12:05	LB134493
	Arsenic	21.5	20.0	107	40 - 160	P	01/30/2025	12:05	LB134493
	Barium	90.1	100	90	40 - 160	P	01/30/2025	12:05	LB134493
	Beryllium	5.61	6.0	93	40 - 160	P	01/30/2025	12:05	LB134493
	Cadmium	5.56	6.0	93	40 - 160	P	01/30/2025	12:05	LB134493
	Calcium	1880	2000	94	40 - 160	P	01/30/2025	12:05	LB134493
	Chromium	9.97	10.0	100	40 - 160	P	01/30/2025	12:05	LB134493
	Cobalt	28.5	30.0	95	40 - 160	P	01/30/2025	12:05	LB134493
	Copper	21.8	20.0	109	40 - 160	P	01/30/2025	12:05	LB134493
	Iron	81.5	100	82	40 - 160	P	01/30/2025	12:05	LB134493
	Lead	10.9	12.0	91	40 - 160	P	01/30/2025	12:05	LB134493
	Magnesium	2010	2000	101	40 - 160	P	01/30/2025	12:05	LB134493
	Manganese	18.2	20.0	91	40 - 160	P	01/30/2025	12:05	LB134493
	Nickel	38.1	40.0	95	40 - 160	P	01/30/2025	12:05	LB134493
	Potassium	2030	2000	101	40 - 160	P	01/30/2025	12:05	LB134493
	Selenium	18.4	20.0	92	40 - 160	P	01/30/2025	12:05	LB134493
	Silver	11.1	10.0	111	40 - 160	P	01/30/2025	12:05	LB134493
	Sodium	2020	2000	101	40 - 160	P	01/30/2025	12:05	LB134493
	Thallium	40.0	40.0	100	40 - 160	P	01/30/2025	12:05	LB134493
	Vanadium	34.7	40.0	87	40 - 160	P	01/30/2025	12:05	LB134493
	Zinc	39.3	40.0	98	40 - 160	P	01/30/2025	12:05	LB134493

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB70	Mercury	0.20	+/-0.20	U	0.20	CV	01/27/2025	17:44	LB134437

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB74	Mercury	0.20	+/-0.20	U	0.20	CV	01/27/2025	17:48	LB134437
CCB75	Mercury	0.20	+/-0.20	U	0.20	CV	01/27/2025	18:19	LB134437
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	01/27/2025	18:48	LB134437
CCB77	Mercury	0.20	+/-0.20	U	0.20	CV	01/27/2025	18:56	LB134437

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB72	Mercury	0.20	+/-0.20	U	0.20	CV	01/28/2025	12:42	LB134454

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	01/28/2025	12:46	LB134454
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	01/28/2025	13:14	LB134454
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	01/28/2025	13:48	LB134454
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	01/28/2025	14:09	LB134454

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/28/2025	12:21	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	12:21	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	12:21	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	12:21	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	12:21	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	12:21	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	12:21	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	12:21	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	12:21	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	12:21	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	12:21	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	12:21	LB134457
	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	12:21	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	12:21	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	12:21	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	12:21	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	12:21	LB134457
	Silver	10.0	+/-10.0	U	10.0	P	01/28/2025	12:21	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	12:21	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	12:21	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	12:21	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	12:21	LB134457

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/28/2025	12:43	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	12:43	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	12:43	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	12:43	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	12:43	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	12:43	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	12:43	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	12:43	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	12:43	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	12:43	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	12:43	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	12:43	LB134457
	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	12:43	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	12:43	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	12:43	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	12:43	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	12:43	LB134457
	Silver	10.0	+/-10.0	U	10.0	P	01/28/2025	12:43	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	12:43	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	12:43	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	12:43	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	12:43	LB134457
CCB02	Aluminum	100	+/-100	U	100	P	01/28/2025	13:46	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	13:46	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	13:46	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	13:46	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	13:46	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	13:46	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	13:46	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	13:46	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	13:46	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	13:46	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	13:46	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	13:46	LB134457
	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	13:46	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	13:46	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	13:46	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	13:46	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	13:46	LB134457

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.29	+/-10.0	J	10.0	P	01/28/2025	13:46	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	13:46	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	13:46	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	13:46	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	13:46	LB134457
CCB03	Aluminum	100	+/-100	U	100	P	01/28/2025	14:37	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	14:37	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	14:37	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	14:37	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	14:37	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	14:37	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	14:37	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	14:37	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	14:37	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	14:37	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	14:37	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	14:37	LB134457
	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	14:37	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	14:37	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	14:37	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	14:37	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	14:37	LB134457
	Silver	10.0	+/-10.0	U	10.0	P	01/28/2025	14:37	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	14:37	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	14:37	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	14:37	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	14:37	LB134457
CCB04	Aluminum	100	+/-100	U	100	P	01/28/2025	15:36	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	15:36	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	15:36	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	15:36	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	15:36	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	15:36	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	15:36	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	15:36	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	15:36	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	15:36	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	15:36	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	15:36	LB134457

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	15:36	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	15:36	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	15:36	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	15:36	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	15:36	LB134457
	Silver	1.18	+/-10.0	J	10.0	P	01/28/2025	15:36	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	15:36	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	15:36	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	15:36	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	15:36	LB134457
CCB05	Aluminum	100	+/-100	U	100	P	01/28/2025	15:56	LB134457
	Antimony	50.0	+/-50.0	U	50.0	P	01/28/2025	15:56	LB134457
	Arsenic	20.0	+/-20.0	U	20.0	P	01/28/2025	15:56	LB134457
	Barium	100	+/-100	U	100	P	01/28/2025	15:56	LB134457
	Beryllium	6.00	+/-6.00	U	6.00	P	01/28/2025	15:56	LB134457
	Cadmium	6.00	+/-6.00	U	6.00	P	01/28/2025	15:56	LB134457
	Calcium	2000	+/-2000	U	2000	P	01/28/2025	15:56	LB134457
	Chromium	10.0	+/-10.0	U	10.0	P	01/28/2025	15:56	LB134457
	Cobalt	30.0	+/-30.0	U	30.0	P	01/28/2025	15:56	LB134457
	Copper	20.0	+/-20.0	U	20.0	P	01/28/2025	15:56	LB134457
	Iron	100	+/-100	U	100	P	01/28/2025	15:56	LB134457
	Lead	12.0	+/-12.0	U	12.0	P	01/28/2025	15:56	LB134457
	Magnesium	2000	+/-2000	U	2000	P	01/28/2025	15:56	LB134457
	Manganese	20.0	+/-20.0	U	20.0	P	01/28/2025	15:56	LB134457
	Nickel	40.0	+/-40.0	U	40.0	P	01/28/2025	15:56	LB134457
	Potassium	2000	+/-2000	U	2000	P	01/28/2025	15:56	LB134457
	Selenium	20.0	+/-20.0	U	20.0	P	01/28/2025	15:56	LB134457
	Silver	10.0	+/-10.0	U	10.0	P	01/28/2025	15:56	LB134457
	Sodium	2000	+/-2000	U	2000	P	01/28/2025	15:56	LB134457
	Thallium	40.0	+/-40.0	U	40.0	P	01/28/2025	15:56	LB134457
	Vanadium	40.0	+/-40.0	U	40.0	P	01/28/2025	15:56	LB134457
	Zinc	40.0	+/-40.0	U	40.0	P	01/28/2025	15:56	LB134457

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/29/2025	11:37	LB134477
	Antimony	50.0	+/-50.0	U	50.0	P	01/29/2025	11:37	LB134477
	Arsenic	20.0	+/-20.0	U	20.0	P	01/29/2025	11:37	LB134477
	Barium	100	+/-100	U	100	P	01/29/2025	11:37	LB134477
	Beryllium	6.00	+/-6.00	U	6.00	P	01/29/2025	11:37	LB134477
	Cadmium	6.00	+/-6.00	U	6.00	P	01/29/2025	11:37	LB134477
	Calcium	2000	+/-2000	U	2000	P	01/29/2025	11:37	LB134477
	Chromium	10.0	+/-10.0	U	10.0	P	01/29/2025	11:37	LB134477
	Cobalt	30.0	+/-30.0	U	30.0	P	01/29/2025	11:37	LB134477
	Copper	20.0	+/-20.0	U	20.0	P	01/29/2025	11:37	LB134477
	Iron	100	+/-100	U	100	P	01/29/2025	11:37	LB134477
	Lead	12.0	+/-12.0	U	12.0	P	01/29/2025	11:37	LB134477
	Magnesium	2000	+/-2000	U	2000	P	01/29/2025	11:37	LB134477
	Manganese	20.0	+/-20.0	U	20.0	P	01/29/2025	11:37	LB134477
	Nickel	40.0	+/-40.0	U	40.0	P	01/29/2025	11:37	LB134477
	Potassium	2000	+/-2000	U	2000	P	01/29/2025	11:37	LB134477
	Selenium	20.0	+/-20.0	U	20.0	P	01/29/2025	11:37	LB134477
	Silver	10.0	+/-10.0	U	10.0	P	01/29/2025	11:37	LB134477
	Sodium	2000	+/-2000	U	2000	P	01/29/2025	11:37	LB134477
	Thallium	40.0	+/-40.0	U	40.0	P	01/29/2025	11:37	LB134477
	Vanadium	40.0	+/-40.0	U	40.0	P	01/29/2025	11:37	LB134477
	Zinc	40.0	+/-40.0	U	40.0	P	01/29/2025	11:37	LB134477

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/29/2025	12:10	LB134477
	Antimony	50.0	+/-50.0	U	50.0	P	01/29/2025	12:10	LB134477
	Arsenic	20.0	+/-20.0	U	20.0	P	01/29/2025	12:10	LB134477
	Barium	100	+/-100	U	100	P	01/29/2025	12:10	LB134477
	Beryllium	6.00	+/-6.00	U	6.00	P	01/29/2025	12:10	LB134477
	Cadmium	6.00	+/-6.00	U	6.00	P	01/29/2025	12:10	LB134477
	Calcium	2000	+/-2000	U	2000	P	01/29/2025	12:10	LB134477
	Chromium	10.0	+/-10.0	U	10.0	P	01/29/2025	12:10	LB134477
	Cobalt	30.0	+/-30.0	U	30.0	P	01/29/2025	12:10	LB134477
	Copper	20.0	+/-20.0	U	20.0	P	01/29/2025	12:10	LB134477
	Iron	100	+/-100	U	100	P	01/29/2025	12:10	LB134477
	Lead	12.0	+/-12.0	U	12.0	P	01/29/2025	12:10	LB134477
	Magnesium	2000	+/-2000	U	2000	P	01/29/2025	12:10	LB134477
	Manganese	20.0	+/-20.0	U	20.0	P	01/29/2025	12:10	LB134477
	Nickel	40.0	+/-40.0	U	40.0	P	01/29/2025	12:10	LB134477
	Potassium	2000	+/-2000	U	2000	P	01/29/2025	12:10	LB134477
	Selenium	20.0	+/-20.0	U	20.0	P	01/29/2025	12:10	LB134477
	Silver	10.0	+/-10.0	U	10.0	P	01/29/2025	12:10	LB134477
	Sodium	2000	+/-2000	U	2000	P	01/29/2025	12:10	LB134477
	Thallium	40.0	+/-40.0	U	40.0	P	01/29/2025	12:10	LB134477
	Vanadium	40.0	+/-40.0	U	40.0	P	01/29/2025	12:10	LB134477
	Zinc	40.0	+/-40.0	U	40.0	P	01/29/2025	12:10	LB134477
CCB02	Aluminum	100	+/-100	U	100	P	01/29/2025	13:16	LB134477
	Antimony	50.0	+/-50.0	U	50.0	P	01/29/2025	13:16	LB134477
	Arsenic	20.0	+/-20.0	U	20.0	P	01/29/2025	13:16	LB134477
	Barium	100	+/-100	U	100	P	01/29/2025	13:16	LB134477
	Beryllium	6.00	+/-6.00	U	6.00	P	01/29/2025	13:16	LB134477
	Cadmium	6.00	+/-6.00	U	6.00	P	01/29/2025	13:16	LB134477
	Calcium	2000	+/-2000	U	2000	P	01/29/2025	13:16	LB134477
	Chromium	10.0	+/-10.0	U	10.0	P	01/29/2025	13:16	LB134477
	Cobalt	30.0	+/-30.0	U	30.0	P	01/29/2025	13:16	LB134477
	Copper	20.0	+/-20.0	U	20.0	P	01/29/2025	13:16	LB134477
	Iron	100	+/-100	U	100	P	01/29/2025	13:16	LB134477
	Lead	12.0	+/-12.0	U	12.0	P	01/29/2025	13:16	LB134477
	Magnesium	2000	+/-2000	U	2000	P	01/29/2025	13:16	LB134477
	Manganese	20.0	+/-20.0	U	20.0	P	01/29/2025	13:16	LB134477
	Nickel	40.0	+/-40.0	U	40.0	P	01/29/2025	13:16	LB134477
	Potassium	2000	+/-2000	U	2000	P	01/29/2025	13:16	LB134477
	Selenium	20.0	+/-20.0	U	20.0	P	01/29/2025	13:16	LB134477

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	01/29/2025	13:16	LB134477
	Sodium	2000	+/-2000	U	2000	P	01/29/2025	13:16	LB134477
	Thallium	40.0	+/-40.0	U	40.0	P	01/29/2025	13:16	LB134477
	Vanadium	40.0	+/-40.0	U	40.0	P	01/29/2025	13:16	LB134477
	Zinc	40.0	+/-40.0	U	40.0	P	01/29/2025	13:16	LB134477
CCB03	Aluminum	100	+/-100	U	100	P	01/29/2025	14:06	LB134477
	Antimony	50.0	+/-50.0	U	50.0	P	01/29/2025	14:06	LB134477
	Arsenic	20.0	+/-20.0	U	20.0	P	01/29/2025	14:06	LB134477
	Barium	100	+/-100	U	100	P	01/29/2025	14:06	LB134477
	Beryllium	6.00	+/-6.00	U	6.00	P	01/29/2025	14:06	LB134477
	Cadmium	0.19	+/-6.00	J	6.00	P	01/29/2025	14:06	LB134477
	Calcium	2000	+/-2000	U	2000	P	01/29/2025	14:06	LB134477
	Chromium	10.0	+/-10.0	U	10.0	P	01/29/2025	14:06	LB134477
	Cobalt	30.0	+/-30.0	U	30.0	P	01/29/2025	14:06	LB134477
	Copper	20.0	+/-20.0	U	20.0	P	01/29/2025	14:06	LB134477
	Iron	100	+/-100	U	100	P	01/29/2025	14:06	LB134477
	Lead	12.0	+/-12.0	U	12.0	P	01/29/2025	14:06	LB134477
	Magnesium	2000	+/-2000	U	2000	P	01/29/2025	14:06	LB134477
	Manganese	20.0	+/-20.0	U	20.0	P	01/29/2025	14:06	LB134477
	Nickel	40.0	+/-40.0	U	40.0	P	01/29/2025	14:06	LB134477
	Potassium	2000	+/-2000	U	2000	P	01/29/2025	14:06	LB134477
	Selenium	20.0	+/-20.0	U	20.0	P	01/29/2025	14:06	LB134477
	Silver	10.0	+/-10.0	U	10.0	P	01/29/2025	14:06	LB134477
	Sodium	2000	+/-2000	U	2000	P	01/29/2025	14:06	LB134477
	Thallium	40.0	+/-40.0	U	40.0	P	01/29/2025	14:06	LB134477
	Vanadium	40.0	+/-40.0	U	40.0	P	01/29/2025	14:06	LB134477
	Zinc	40.0	+/-40.0	U	40.0	P	01/29/2025	14:06	LB134477
CCB04	Aluminum	100	+/-100	U	100	P	01/29/2025	14:28	LB134477
	Antimony	50.0	+/-50.0	U	50.0	P	01/29/2025	14:28	LB134477
	Arsenic	20.0	+/-20.0	U	20.0	P	01/29/2025	14:28	LB134477
	Barium	100	+/-100	U	100	P	01/29/2025	14:28	LB134477
	Beryllium	6.00	+/-6.00	U	6.00	P	01/29/2025	14:28	LB134477
	Cadmium	6.00	+/-6.00	U	6.00	P	01/29/2025	14:28	LB134477
	Calcium	2000	+/-2000	U	2000	P	01/29/2025	14:28	LB134477
	Chromium	10.0	+/-10.0	U	10.0	P	01/29/2025	14:28	LB134477
	Cobalt	30.0	+/-30.0	U	30.0	P	01/29/2025	14:28	LB134477
	Copper	20.0	+/-20.0	U	20.0	P	01/29/2025	14:28	LB134477
	Iron	100	+/-100	U	100	P	01/29/2025	14:28	LB134477
	Lead	12.0	+/-12.0	U	12.0	P	01/29/2025	14:28	LB134477

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	01/29/2025	14:28	LB134477
	Manganese	20.0	+/-20.0	U	20.0	P	01/29/2025	14:28	LB134477
	Nickel	40.0	+/-40.0	U	40.0	P	01/29/2025	14:28	LB134477
	Potassium	2000	+/-2000	U	2000	P	01/29/2025	14:28	LB134477
	Selenium	20.0	+/-20.0	U	20.0	P	01/29/2025	14:28	LB134477
	Silver	10.0	+/-10.0	U	10.0	P	01/29/2025	14:28	LB134477
	Sodium	2000	+/-2000	U	2000	P	01/29/2025	14:28	LB134477
	Thallium	40.0	+/-40.0	U	40.0	P	01/29/2025	14:28	LB134477
	Vanadium	40.0	+/-40.0	U	40.0	P	01/29/2025	14:28	LB134477
	Zinc	40.0	+/-40.0	U	40.0	P	01/29/2025	14:28	LB134477

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/30/2025	12:00	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	12:00	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	12:00	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	12:00	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	12:00	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	12:00	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	12:00	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	12:00	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	12:00	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	12:00	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	12:00	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	12:00	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	12:00	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	12:00	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	12:00	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	12:00	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	12:00	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	12:00	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	12:00	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	12:00	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	12:00	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	12:00	LB134493

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	01/30/2025	12:47	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	12:47	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	12:47	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	12:47	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	12:47	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	12:47	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	12:47	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	12:47	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	12:47	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	12:47	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	12:47	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	12:47	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	12:47	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	12:47	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	12:47	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	12:47	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	12:47	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	12:47	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	12:47	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	12:47	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	12:47	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	12:47	LB134493
CCB02	Aluminum	100	+/-100	U	100	P	01/30/2025	13:37	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	13:37	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	13:37	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	13:37	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	13:37	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	13:37	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	13:37	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	13:37	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	13:37	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	13:37	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	13:37	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	13:37	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	13:37	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	13:37	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	13:37	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	13:37	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	13:37	LB134493

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	13:37	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	13:37	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	13:37	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	13:37	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	13:37	LB134493
CCB03	Aluminum	100	+/-100	U	100	P	01/30/2025	14:38	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	14:38	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	14:38	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	14:38	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	14:38	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	14:38	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	14:38	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	14:38	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	14:38	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	14:38	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	14:38	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	14:38	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	14:38	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	14:38	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	14:38	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	14:38	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	14:38	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	14:38	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	14:38	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	14:38	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	14:38	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	14:38	LB134493
CCB04	Aluminum	100	+/-100	U	100	P	01/30/2025	15:29	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	15:29	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	15:29	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	15:29	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	15:29	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	15:29	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	15:29	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	15:29	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	15:29	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	15:29	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	15:29	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	15:29	LB134493

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	15:29	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	15:29	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	15:29	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	15:29	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	15:29	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	15:29	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	15:29	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	15:29	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	15:29	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	15:29	LB134493
CCB05	Aluminum	100	+/-100	U	100	P	01/30/2025	16:28	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	16:28	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	16:28	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	16:28	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	16:28	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	16:28	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	16:28	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	16:28	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	16:28	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	16:28	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	16:28	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	16:28	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	16:28	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	16:28	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	16:28	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	16:28	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	16:28	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	16:28	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	16:28	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	16:28	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	16:28	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	16:28	LB134493
CCB06	Aluminum	100	+/-100	U	100	P	01/30/2025	17:24	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	17:24	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	17:24	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	17:24	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	17:24	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	17:24	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	17:24	LB134493

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	17:24	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	17:24	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	17:24	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	17:24	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	17:24	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	17:24	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	17:24	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	17:24	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	17:24	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	17:24	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	17:24	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	17:24	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	17:24	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	17:24	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	17:24	LB134493
CCB07	Aluminum	100	+/-100	U	100	P	01/30/2025	18:15	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	18:15	LB134493
	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	18:15	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	18:15	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	18:15	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	18:15	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	18:15	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	18:15	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	18:15	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	18:15	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	18:15	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	18:15	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	18:15	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	18:15	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	18:15	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	18:15	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	18:15	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	18:15	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	18:15	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	18:15	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	18:15	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	18:15	LB134493
CCB08	Aluminum	100	+/-100	U	100	P	01/30/2025	18:51	LB134493
	Antimony	50.0	+/-50.0	U	50.0	P	01/30/2025	18:51	LB134493

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	01/30/2025	18:51	LB134493
	Barium	100	+/-100	U	100	P	01/30/2025	18:51	LB134493
	Beryllium	6.00	+/-6.00	U	6.00	P	01/30/2025	18:51	LB134493
	Cadmium	6.00	+/-6.00	U	6.00	P	01/30/2025	18:51	LB134493
	Calcium	2000	+/-2000	U	2000	P	01/30/2025	18:51	LB134493
	Chromium	10.0	+/-10.0	U	10.0	P	01/30/2025	18:51	LB134493
	Cobalt	30.0	+/-30.0	U	30.0	P	01/30/2025	18:51	LB134493
	Copper	20.0	+/-20.0	U	20.0	P	01/30/2025	18:51	LB134493
	Iron	100	+/-100	U	100	P	01/30/2025	18:51	LB134493
	Lead	12.0	+/-12.0	U	12.0	P	01/30/2025	18:51	LB134493
	Magnesium	2000	+/-2000	U	2000	P	01/30/2025	18:51	LB134493
	Manganese	20.0	+/-20.0	U	20.0	P	01/30/2025	18:51	LB134493
	Nickel	40.0	+/-40.0	U	40.0	P	01/30/2025	18:51	LB134493
	Potassium	2000	+/-2000	U	2000	P	01/30/2025	18:51	LB134493
	Selenium	20.0	+/-20.0	U	20.0	P	01/30/2025	18:51	LB134493
	Silver	10.0	+/-10.0	U	10.0	P	01/30/2025	18:51	LB134493
	Sodium	2000	+/-2000	U	2000	P	01/30/2025	18:51	LB134493
	Thallium	40.0	+/-40.0	U	40.0	P	01/30/2025	18:51	LB134493
	Vanadium	40.0	+/-40.0	U	40.0	P	01/30/2025	18:51	LB134493
	Zinc	40.0	+/-40.0	U	40.0	P	01/30/2025	18:51	LB134493

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166289BL		**SOLID**		**Batch Number:**	**PB166289**		**Prep Date:**	**01/27/2025**	
	Mercury	0.012	<0.012	U	0.012	CV	01/27/2025	17:58	LB134437

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166291BL		**WATER**		**Batch Number:**	**PB166291**		**Prep Date:**	**01/28/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	01/28/2025	13:23	LB134454

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166283BL		**WATER**		**Batch Number:**	**PB166283**		**Prep Date:**	**01/27/2025**	
	Aluminum	50.0	<50.0	U	50.0	P	01/28/2025	14:03	LB134457
	Antimony	25.0	<25.0	U	25.0	P	01/28/2025	14:03	LB134457
	Arsenic	10.0	<10.0	U	10.0	P	01/28/2025	14:03	LB134457
	Barium	50.0	<50.0	U	50.0	P	01/28/2025	14:03	LB134457
	Beryllium	3.00	<3.00	U	3.00	P	01/28/2025	14:03	LB134457
	Cadmium	3.00	<3.00	U	3.00	P	01/28/2025	14:03	LB134457
	Calcium	1000	<1000	U	1000	P	01/28/2025	14:03	LB134457
	Chromium	5.00	<5.00	U	5.00	P	01/28/2025	14:03	LB134457
	Cobalt	15.0	<15.0	U	15.0	P	01/28/2025	14:03	LB134457
	Copper	10.0	<10.0	U	10.0	P	01/28/2025	14:03	LB134457
	Iron	50.0	<50.0	U	50.0	P	01/28/2025	14:03	LB134457
	Lead	6.00	<6.00	U	6.00	P	01/28/2025	14:03	LB134457
	Magnesium	1000	<1000	U	1000	P	01/28/2025	14:03	LB134457
	Manganese	10.0	<10.0	U	10.0	P	01/28/2025	14:03	LB134457
	Nickel	20.0	<20.0	U	20.0	P	01/28/2025	14:03	LB134457
	Potassium	1000	<1000	U	1000	P	01/28/2025	14:03	LB134457
	Selenium	10.0	<10.0	U	10.0	P	01/28/2025	14:03	LB134457
	Silver	5.00	<5.00	U	5.00	P	01/28/2025	14:03	LB134457
	Sodium	1000	<1000	U	1000	P	01/28/2025	14:03	LB134457
	Thallium	20.0	<20.0	U	20.0	P	01/28/2025	14:03	LB134457
	Vanadium	20.0	<20.0	U	20.0	P	01/28/2025	14:03	LB134457
	Zinc	20.0	<20.0	U	20.0	P	01/28/2025	14:03	LB134457

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166298BL		**SOLID**		**Batch Number:**	**PB166298**		**Prep Date:**	**01/28/2025**	
	Aluminum	4.31	<4.31	U	4.31	P	01/29/2025	13:01	LB134477
	Antimony	2.16	<2.16	U	2.16	P	01/29/2025	13:01	LB134477
	Arsenic	0.86	<0.86	U	0.86	P	01/29/2025	13:01	LB134477
	Barium	4.31	<4.31	U	4.31	P	01/29/2025	13:01	LB134477
	Beryllium	0.26	<0.26	U	0.26	P	01/29/2025	13:01	LB134477
	Cadmium	0.26	<0.26	U	0.26	P	01/29/2025	13:01	LB134477
	Calcium	86.2	<86.2	U	86.2	P	01/29/2025	13:01	LB134477
	Chromium	0.43	<0.43	U	0.43	P	01/29/2025	13:01	LB134477
	Cobalt	1.29	<1.29	U	1.29	P	01/29/2025	13:01	LB134477
	Copper	0.86	<0.86	U	0.86	P	01/29/2025	13:01	LB134477
	Iron	4.31	<4.31	U	4.31	P	01/29/2025	13:01	LB134477
	Lead	0.52	<0.52	U	0.52	P	01/29/2025	13:01	LB134477
	Magnesium	86.2	<86.2	U	86.2	P	01/29/2025	13:01	LB134477
	Manganese	0.86	<0.86	U	0.86	P	01/29/2025	13:01	LB134477
	Nickel	1.72	<1.72	U	1.72	P	01/29/2025	13:01	LB134477

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Instrument: P4

Potassium	86.2	<86.2	U	86.2	P	01/29/2025	13:01	LB134477
Selenium	0.86	<0.86	U	0.86	P	01/29/2025	13:01	LB134477
Silver	0.43	<0.43	U	0.43	P	01/29/2025	13:01	LB134477
Sodium	86.2	<86.2	U	86.2	P	01/29/2025	13:01	LB134477
Thallium	1.72	<1.72	U	1.72	P	01/29/2025	13:01	LB134477
Vanadium	1.72	<1.72	U	1.72	P	01/29/2025	13:01	LB134477
Zinc	1.72	<1.72	U	1.72	P	01/29/2025	13:01	LB134477

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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	244000	255000	96	216000	294000	01/28/2025	12:30	LB134457
	Antimony	-3.33			-50	50	01/28/2025	12:30	LB134457
	Arsenic	4.75			-20	20	01/28/2025	12:30	LB134457
	Barium	4.88	6.0	81	-94	106	01/28/2025	12:30	LB134457
	Beryllium	1.29			-6	6	01/28/2025	12:30	LB134457
	Cadmium	2.52	1.0	252	-5	7	01/28/2025	12:30	LB134457
	Calcium	227000	245000	93	208000	282000	01/28/2025	12:30	LB134457
	Chromium	59.2	52.0	114	42	62	01/28/2025	12:30	LB134457
	Cobalt	1.79			-30	30	01/28/2025	12:30	LB134457
	Copper	21.1	2.0	1055	-18	22	01/28/2025	12:30	LB134457
	Iron	99800	101000	99	85600	116500	01/28/2025	12:30	LB134457
	Lead	6.31			-12	12	01/28/2025	12:30	LB134457
	Magnesium	245000	255000	96	216000	294000	01/28/2025	12:30	LB134457
	Manganese	11.6	7.0	166	-13	27	01/28/2025	12:30	LB134457
	Nickel	2.25	2.0	112	-38	42	01/28/2025	12:30	LB134457
	Potassium	254			0	0	01/28/2025	12:30	LB134457
	Selenium	-5.55			-20	20	01/28/2025	12:30	LB134457
	Silver	-0.39			-10	10	01/28/2025	12:30	LB134457
	Sodium	22.0			0	0	01/28/2025	12:30	LB134457
	Thallium	10.9			-40	40	01/28/2025	12:30	LB134457
	Vanadium	5.11			-40	40	01/28/2025	12:30	LB134457
	Zinc	3.26			-40	40	01/28/2025	12:30	LB134457
ICSAB01	Aluminum	244000	247000	99	209000	285000	01/28/2025	12:34	LB134457
	Antimony	630	618	102	525	711	01/28/2025	12:34	LB134457
	Arsenic	107	104	103	88.4	120	01/28/2025	12:34	LB134457
	Barium	456	537	85	437	637	01/28/2025	12:34	LB134457
	Beryllium	471	495	95	420	570	01/28/2025	12:34	LB134457
	Cadmium	1010	972	104	826	1120	01/28/2025	12:34	LB134457
	Calcium	225000	235000	96	199000	271000	01/28/2025	12:34	LB134457
	Chromium	580	542	107	460	624	01/28/2025	12:34	LB134457
	Cobalt	505	476	106	404	548	01/28/2025	12:34	LB134457
	Copper	512	511	100	434	588	01/28/2025	12:34	LB134457
	Iron	100000	99300	101	84400	114500	01/28/2025	12:34	LB134457
	Lead	58.0	49.0	118	37	61	01/28/2025	12:34	LB134457
	Magnesium	242000	248000	98	210000	286000	01/28/2025	12:34	LB134457
	Manganese	482	507	95	430	584	01/28/2025	12:34	LB134457
	Nickel	1010	954	106	810	1100	01/28/2025	12:34	LB134457
	Potassium	213			0	0	01/28/2025	12:34	LB134457
	Selenium	48.8	46.0	106	26	66	01/28/2025	12:34	LB134457
	Silver	220	201	110	170	232	01/28/2025	12:34	LB134457
	Sodium	19.6			0	0	01/28/2025	12:34	LB134457
	Thallium	97.0	108	90	68	148	01/28/2025	12:34	LB134457

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
ICSAB01	Vanadium	464	491	94	417	565	01/28/2025	12:34	LB134457
	Zinc	1080	952	113	809	1095	01/28/2025	12:34	LB134457
ICSA01	Aluminum	244000	255000	96	216000	294000	01/29/2025	11:45	LB134477
	Antimony	-3.29			-50	50	01/29/2025	11:45	LB134477
	Arsenic	9.90			-20	20	01/29/2025	11:45	LB134477
	Barium	3.17	6.0	53	-94	106	01/29/2025	11:45	LB134477
	Beryllium	3.06			-6	6	01/29/2025	11:45	LB134477
	Cadmium	0.95	1.0	95	-5	7	01/29/2025	11:45	LB134477
	Calcium	227000	245000	93	208000	282000	01/29/2025	11:45	LB134477
	Chromium	58.0	52.0	112	42	62	01/29/2025	11:45	LB134477
	Cobalt	1.92			-30	30	01/29/2025	11:45	LB134477
	Copper	19.4	2.0	970	-18	22	01/29/2025	11:45	LB134477
	Iron	97600	101000	97	85600	116500	01/29/2025	11:45	LB134477
	Lead	7.59			-12	12	01/29/2025	11:45	LB134477
	Magnesium	249000	255000	98	216000	294000	01/29/2025	11:45	LB134477
	Manganese	10.0	7.0	143	-13	27	01/29/2025	11:45	LB134477
	Nickel	2.47	2.0	124	-38	42	01/29/2025	11:45	LB134477
	Potassium	255			0	0	01/29/2025	11:45	LB134477
	Selenium	-3.38			-20	20	01/29/2025	11:45	LB134477
	Silver	-1.73			-10	10	01/29/2025	11:45	LB134477
	Sodium	-59.3			0	0	01/29/2025	11:45	LB134477
	Thallium	13.6			-40	40	01/29/2025	11:45	LB134477
	Vanadium	3.58			-40	40	01/29/2025	11:45	LB134477
	Zinc	0.93			-40	40	01/29/2025	11:45	LB134477
ICSAB01	Aluminum	238000	247000	96	209000	285000	01/29/2025	12:02	LB134477
	Antimony	588	618	95	525	711	01/29/2025	12:02	LB134477
	Arsenic	110	104	106	88.4	120	01/29/2025	12:02	LB134477
	Barium	552	537	103	437	637	01/29/2025	12:02	LB134477
	Beryllium	482	495	97	420	570	01/29/2025	12:02	LB134477
	Cadmium	969	972	100	826	1120	01/29/2025	12:02	LB134477
	Calcium	220000	235000	94	199000	271000	01/29/2025	12:02	LB134477
	Chromium	557	542	103	460	624	01/29/2025	12:02	LB134477
	Cobalt	486	476	102	404	548	01/29/2025	12:02	LB134477
	Copper	496	511	97	434	588	01/29/2025	12:02	LB134477
	Iron	93300	99300	94	84400	114500	01/29/2025	12:02	LB134477
	Lead	54.6	49.0	111	37	61	01/29/2025	12:02	LB134477
	Magnesium	240000	248000	97	210000	286000	01/29/2025	12:02	LB134477
	Manganese	443	507	87	430	584	01/29/2025	12:02	LB134477
	Nickel	964	954	101	810	1100	01/29/2025	12:02	LB134477
	Potassium	331			0	0	01/29/2025	12:02	LB134477
	Selenium	43.0	46.0	94	26	66	01/29/2025	12:02	LB134477
	Silver	209	201	104	170	232	01/29/2025	12:02	LB134477

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
ICSAB01	Sodium	-24.7			0	0	01/29/2025	12:02	LB134477
	Thallium	94.3	108	87	68	148	01/29/2025	12:02	LB134477
	Vanadium	452	491	92	417	565	01/29/2025	12:02	LB134477
	Zinc	1020	952	107	809	1095	01/29/2025	12:02	LB134477
ICSA01	Aluminum	235000	255000	92	216000	294000	01/30/2025	12:10	LB134493
	Antimony	-3.14			-50	50	01/30/2025	12:10	LB134493
	Arsenic	-3.20			-20	20	01/30/2025	12:10	LB134493
	Barium	1.95	6.0	32	-94	106	01/30/2025	12:10	LB134493
	Beryllium	1.36			-6	6	01/30/2025	12:10	LB134493
	Cadmium	-0.88	1.0	88	-5	7	01/30/2025	12:10	LB134493
	Calcium	218000	245000	89	208000	282000	01/30/2025	12:10	LB134493
	Chromium	56.0	52.0	108	42	62	01/30/2025	12:10	LB134493
	Cobalt	0.92			-30	30	01/30/2025	12:10	LB134493
	Copper	21.7	2.0	1085	-18	22	01/30/2025	12:10	LB134493
	Iron	92700	101000	92	85600	116500	01/30/2025	12:10	LB134493
	Lead	6.67			-12	12	01/30/2025	12:10	LB134493
	Magnesium	234000	255000	92	216000	294000	01/30/2025	12:10	LB134493
	Manganese	3.50	7.0	50	-13	27	01/30/2025	12:10	LB134493
	Nickel	2.07	2.0	104	-38	42	01/30/2025	12:10	LB134493
	Potassium	133			0	0	01/30/2025	12:10	LB134493
	Selenium	-14.4			-20	20	01/30/2025	12:10	LB134493
	Silver	-0.54			-10	10	01/30/2025	12:10	LB134493
	Sodium	23.8			0	0	01/30/2025	12:10	LB134493
	Thallium	11.1			-40	40	01/30/2025	12:10	LB134493
	Vanadium	5.11			-40	40	01/30/2025	12:10	LB134493
	Zinc	1.05			-40	40	01/30/2025	12:10	LB134493
ICSAB01	Aluminum	243000	247000	98	209000	285000	01/30/2025	12:28	LB134493
	Antimony	644	618	104	525	711	01/30/2025	12:28	LB134493
	Arsenic	118	104	114	88.4	120	01/30/2025	12:28	LB134493
	Barium	456	537	85	437	637	01/30/2025	12:28	LB134493
	Beryllium	475	495	96	420	570	01/30/2025	12:28	LB134493
	Cadmium	1020	972	105	826	1120	01/30/2025	12:28	LB134493
	Calcium	224000	235000	95	199000	271000	01/30/2025	12:28	LB134493
	Chromium	583	542	108	460	624	01/30/2025	12:28	LB134493
	Cobalt	514	476	108	404	548	01/30/2025	12:28	LB134493
	Copper	526	511	103	434	588	01/30/2025	12:28	LB134493
	Iron	99900	99300	101	84400	114500	01/30/2025	12:28	LB134493
	Lead	57.1	49.0	116	37	61	01/30/2025	12:28	LB134493
	Magnesium	241000	248000	97	210000	286000	01/30/2025	12:28	LB134493
	Manganese	448	507	88	430	584	01/30/2025	12:28	LB134493
	Nickel	1020	954	107	810	1100	01/30/2025	12:28	LB134493
	Potassium	109			0	0	01/30/2025	12:28	LB134493

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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
ICSAB01	Selenium	36.8	46.0	80	26	66	01/30/2025	12:28	LB134493
	Silver	222	201	110	170	232	01/30/2025	12:28	LB134493
	Sodium	7.13			0	0	01/30/2025	12:28	LB134493
	Thallium	104	108	96	68	148	01/30/2025	12:28	LB134493
	Vanadium	463	491	94	417	565	01/30/2025	12:28	LB134493
	Zinc	1080	952	113	809	1095	01/30/2025	12:28	LB134493

METAL
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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Solid **sample id:** Q1169-05 **client id:** SPILL-SITEMS

Percent Solids for Sample: 89.7 **Spiked ID:** Q1169-05MS **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.049		0.28	92		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Solid **sample id:** Q1169-05 **client id:** SPILL-SITEMSD

Percent Solids for Sample: 89.7 **Spiked ID:** Q1169-05MSD **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.049		0.29	94		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Water **sample id:** Q1193-01 **client id:** TAPIAL3-MW04S-012425-00-T3MS

Percent Solids for Sample: NA **Spiked ID:** Q1193-01MS **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	82 - 119	4.52		0.20	U	4.0	113		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Water **sample id:** Q1193-01 **client id:** TAPIAL3-MW04S-012425-00-T3MSD

Percent Solids for Sample: NA **Spiked ID:** Q1193-01MSD **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	82 - 119	4.53		0.20	U	4.0	113		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Solid **sample id:** Q1194-04 **client id:** B-113-SB02MS

Percent Solids for Sample: 64.7 **Spiked ID:** Q1194-04MS **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	10800		10400		150	332		P
Antimony	mg/Kg	75 - 125	43.6		3.51	U	58.1	75		P
Arsenic	mg/Kg	75 - 125	52.7		7.87		58.1	77		P
Barium	mg/Kg	75 - 125	40.0		28.3		14.5	81		P
Beryllium	mg/Kg	75 - 125	10.8		0.89		14.5	68	N	P
Cadmium	mg/Kg	75 - 125	13.9		0.40	J	14.5	93		P
Calcium	mg/Kg	75 - 125	1630		1530		72.6	145		P
Chromium	mg/Kg	75 - 125	46.2		24.2		29.0	76		P
Cobalt	mg/Kg	75 - 125	26.7		12.7		14.5	97		P
Copper	mg/Kg	75 - 125	33.2		16.0		21.8	79		P
Iron	mg/Kg	75 - 125	27000		27100		220	-56		P
Lead	mg/Kg	75 - 125	80.8		14.3		72.6	91		P
Magnesium	mg/Kg	75 - 125	5320		5000		150	213		P
Manganese	mg/Kg	75 - 125	355		330		14.5	173		P
Nickel	mg/Kg	75 - 125	60.7		26.3		36.3	95		P
Potassium	mg/Kg	75 - 125	2520		1980		730	74	N	P
Selenium	mg/Kg	75 - 125	103		1.41	U	150	69	N	P
Silver	mg/Kg	75 - 125	4.21		0.15	J	5.4	75		P
Sodium	mg/Kg	75 - 125	1100		940		220	71		P
Thallium	mg/Kg	75 - 125	134		0.64	J	150	89		P
Vanadium	mg/Kg	75 - 125	42.9		26.2		21.8	76		P
Zinc	mg/Kg	75 - 125	73.6		62.0		14.5	80		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Solid **sample id:** Q1194-04 **client id:** B-113-SB02MSD

Percent Solids for Sample: 64.7 **Spiked ID:** Q1194-04MSD **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	9650		10400		130	-543		P
Antimony	mg/Kg	75 - 125	39.0		3.51	U	51.1	76		P
Arsenic	mg/Kg	75 - 125	47.4		7.87		51.1	77		P
Barium	mg/Kg	75 - 125	35.3		28.3		12.8	54	N	P
Beryllium	mg/Kg	75 - 125	9.46		0.89		12.8	67	N	P
Cadmium	mg/Kg	75 - 125	12.4		0.40	J	12.8	94		P
Calcium	mg/Kg	75 - 125	1450		1530		63.9	-123		P
Chromium	mg/Kg	75 - 125	41.3		24.2		25.5	67	N	P
Cobalt	mg/Kg	75 - 125	23.9		12.7		12.8	87		P
Copper	mg/Kg	75 - 125	29.1		16.0		19.2	68	N	P
Iron	mg/Kg	75 - 125	24500		27100		190	-1359		P
Lead	mg/Kg	75 - 125	72.4		14.3		63.9	91		P
Magnesium	mg/Kg	75 - 125	4700		5000		130	-228		P
Manganese	mg/Kg	75 - 125	313		330		12.8	-138		P
Nickel	mg/Kg	75 - 125	54.3		26.3		31.9	88		P
Potassium	mg/Kg	75 - 125	2290		1980		640	49	N	P
Selenium	mg/Kg	75 - 125	93.6		1.41	U	130	72	N	P
Silver	mg/Kg	75 - 125	3.85		0.15	J	4.8	77		P
Sodium	mg/Kg	75 - 125	998		940		190	30		P
Thallium	mg/Kg	75 - 125	121		0.64	J	130	92		P
Vanadium	mg/Kg	75 - 125	37.8		26.2		19.2	61	N	P
Zinc	mg/Kg	75 - 125	65.8		62.0		12.8	30		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Water **sample id:** Q1194-08 **client id:** EBMS

Percent Solids for Sample: NA **Spiked ID:** Q1194-08MS **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	977		50.0	U	1000	98		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	387		10.0	U	400	97		P
Barium	ug/L	75 - 125	90.8		50.0	U	100	91		P
Beryllium	ug/L	75 - 125	88.4		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	91.5		3.00	U	100	92		P
Calcium	ug/L	75 - 125	488	J	1000	U	500	98		P
Chromium	ug/L	75 - 125	211		5.00	U	200	106		P
Cobalt	ug/L	75 - 125	95.3		15.0	U	100	95		P
Copper	ug/L	75 - 125	154		10.0	U	150	103		P
Iron	ug/L	75 - 125	1470		50.0	U	1500	98		P
Lead	ug/L	75 - 125	463		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	919	J	1000	U	1000	92		P
Manganese	ug/L	75 - 125	92.2		21.3		100	71	N	P
Nickel	ug/L	75 - 125	238		20.0	U	250	95		P
Potassium	ug/L	75 - 125	4680		1000	U	5000	94		P
Selenium	ug/L	75 - 125	916		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.4		0.72	J	37.5	95		P
Sodium	ug/L	75 - 125	1320		1000	U	1500	88		P
Thallium	ug/L	75 - 125	922		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	145		20.0	U	150	97		P
Zinc	ug/L	75 - 125	102		20.0	U	100	102		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194

contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194

matrix: Water **sample id:** Q1194-08 **client id:** EBMSD

Percent Solids for Sample: NA **Spiked ID:** Q1194-08MSD **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	980		50.0	U	1000	98		P
Antimony	ug/L	75 - 125	400		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	389		10.0	U	400	97		P
Barium	ug/L	75 - 125	93.8		50.0	U	100	94		P
Beryllium	ug/L	75 - 125	87.2		3.00	U	100	87		P
Cadmium	ug/L	75 - 125	91.6		3.00	U	100	92		P
Calcium	ug/L	75 - 125	493	J	1000	U	500	99		P
Chromium	ug/L	75 - 125	210		5.00	U	200	105		P
Cobalt	ug/L	75 - 125	95.0		15.0	U	100	95		P
Copper	ug/L	75 - 125	155		10.0	U	150	103		P
Iron	ug/L	75 - 125	1500		50.0	U	1500	100		P
Lead	ug/L	75 - 125	465		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	924	J	1000	U	1000	92		P
Manganese	ug/L	75 - 125	94.4		21.3		100	73	N	P
Nickel	ug/L	75 - 125	239		20.0	U	250	96		P
Potassium	ug/L	75 - 125	4900		1000	U	5000	98		P
Selenium	ug/L	75 - 125	924		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.3		0.72	J	37.5	95		P
Sodium	ug/L	75 - 125	1420		1000	U	1500	95		P
Thallium	ug/L	75 - 125	931		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	146		20.0	U	150	97		P
Zinc	ug/L	75 - 125	102		20.0	U	100	102		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Solid **Level:** LOW **Client ID:** B-113-SB02A

Sample ID: Q1194-04 **Spiked ID:** Q1194-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	mg/Kg	75 - 125	38.3		28.3		14.1	71		P
Beryllium	mg/Kg	75 - 125	10.5		0.89		14.1	68		P
Chromium	mg/Kg	75 - 125	45.8		24.2		28.1	77		P
Copper	mg/Kg	75 - 125	32.8		16.0		21.1	80		P
Potassium	mg/Kg	75 - 125	2490		1980		700	72		P
Selenium	mg/Kg	75 - 125	104		1.41	U	140	74		P
Vanadium	mg/Kg	75 - 125	41.4		26.2		21.1	72		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Water **Level:** LOW **Client ID:** EBA

Sample ID: Q1194-08 **Spiked ID:** Q1194-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Manganese	ug/L	75 - 125	93.0		21.3		100	72		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Solid **Sample ID:** Q1169-05 **Client ID:** SPILL-SITEDUP

Percent Solids for Sample: 89.7 **Duplicate ID** Q1169-05DUP **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.049		0.052		6		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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Solid **Sample ID:** Q1169-05MS **Client ID:** SPILL-SITEMSD

Percent Solids for Sample: 89.7 **Duplicate ID** Q1169-05MSD **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.31		0.32		5		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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Water **Sample ID:** Q1193-01 **Client ID:** TAPIAL3-MW04S-012425-00-T3DUP

Percent Solids for Sample: NA **Duplicate ID** Q1193-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Water **Sample ID:** Q1193-01MS **Client ID:** TAPIAL3-MW04S-012425-00-T3MSD

Percent Solids for Sample: NA **Duplicate ID** Q1193-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.52		4.53		0		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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Solid **Sample ID:** Q1194-04 **Client ID:** B-113-SB02DUP

Percent Solids for Sample: 64.7 **Duplicate ID** Q1194-04DUP **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	10400		9520		9		P
Antimony	mg/Kg	20	3.51	U	3.22	U			P
Arsenic	mg/Kg	20	7.87		7.34		7		P
Barium	mg/Kg	20	28.3		25.6		10		P
Beryllium	mg/Kg	20	0.89		0.84		7		P
Cadmium	mg/Kg	20	0.40	J	0.62		43	*	P
Calcium	mg/Kg	20	1530		1410		8		P
Chromium	mg/Kg	20	24.2		22.1		9		P
Cobalt	mg/Kg	20	12.7		12.1		5		P
Copper	mg/Kg	20	16.0		16.1		1		P
Iron	mg/Kg	20	27100		24400		10		P
Lead	mg/Kg	20	14.3		13.8		4		P
Magnesium	mg/Kg	20	5000		4590		9		P
Manganese	mg/Kg	20	330		300		10		P
Nickel	mg/Kg	20	26.3		24.9		5		P
Potassium	mg/Kg	20	1980		1760		12		P
Selenium	mg/Kg	20	1.41	U	1.29	U			P
Silver	mg/Kg	20	0.15	J	0.64	U	200.0		P
Sodium	mg/Kg	20	940		837		12		P
Thallium	mg/Kg	20	0.64	J	0.63	J	2		P
Vanadium	mg/Kg	20	26.2		23.9		9		P
Zinc	mg/Kg	20	62.0		56.5		9		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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Solid **Sample ID:** Q1194-04MS **Client ID:** B-113-SB02MSD

Percent Solids for Sample: 64.7 **Duplicate ID** Q1194-04MSD **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	10800		9650		11		P
Antimony	mg/Kg	20	43.6		39.0		11		P
Arsenic	mg/Kg	20	52.7		47.4		11		P
Barium	mg/Kg	20	40.0		35.3		12		P
Beryllium	mg/Kg	20	10.8		9.46		13		P
Cadmium	mg/Kg	20	13.9		12.4		11		P
Calcium	mg/Kg	20	1630		1450		12		P
Chromium	mg/Kg	20	46.2		41.3		11		P
Cobalt	mg/Kg	20	26.7		23.9		11		P
Copper	mg/Kg	20	33.2		29.1		13		P
Iron	mg/Kg	20	27000		24500		10		P
Lead	mg/Kg	20	80.8		72.4		11		P
Magnesium	mg/Kg	20	5320		4700		12		P
Manganese	mg/Kg	20	355		313		13		P
Nickel	mg/Kg	20	60.7		54.3		11		P
Potassium	mg/Kg	20	2520		2290		10		P
Selenium	mg/Kg	20	103		93.6		10		P
Silver	mg/Kg	20	4.21		3.85		9		P
Sodium	mg/Kg	20	1100		998		10		P
Thallium	mg/Kg	20	134		121		10		P
Vanadium	mg/Kg	20	42.9		37.8		13		P
Zinc	mg/Kg	20	73.6		65.8		11		P

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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Water **Sample ID:** Q1194-08 **Client ID:** EBDUP

Percent Solids for Sample: NA **Duplicate ID** Q1194-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	50.0	U	50.0	U			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	1000	U	1000	U			P
Chromium	ug/L	20	5.00	U	5.00	U			P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	1000	U	1000	U			P
Manganese	ug/L	20	21.3		21.1		1		P
Nickel	ug/L	20	20.0	U	20.0	U			P
Potassium	ug/L	20	1000	U	1000	U			P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	0.72	J	0.70	J	3		P
Sodium	ug/L	20	1000	U	1000	U			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	20.0	U	20.0	U			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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Matrix: Water **Sample ID:** Q1194-08MS **Client ID:** EBMSD

Percent Solids for Sample: NA **Duplicate ID** Q1194-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	977		980		0		P
Antimony	ug/L	20	396		400		1		P
Arsenic	ug/L	20	387		389		1		P
Barium	ug/L	20	90.8		93.8		3		P
Beryllium	ug/L	20	88.4		87.2		1		P
Cadmium	ug/L	20	91.5		91.6		0		P
Calcium	ug/L	20	488	J	493	J	1		P
Chromium	ug/L	20	211		210		0		P
Cobalt	ug/L	20	95.3		95.0		0		P
Copper	ug/L	20	154		155		1		P
Iron	ug/L	20	1470		1500		2		P
Lead	ug/L	20	463		465		0		P
Magnesium	ug/L	20	919	J	924	J	1		P
Manganese	ug/L	20	92.2		94.4		2		P
Nickel	ug/L	20	238		239		0		P
Potassium	ug/L	20	4680		4900		5		P
Selenium	ug/L	20	916		924		1		P
Silver	ug/L	20	36.4		36.3		0		P
Sodium	ug/L	20	1320		1420		7		P
Thallium	ug/L	20	922		931		1		P
Vanadium	ug/L	20	145		146		1		P
Zinc	ug/L	20	102		102		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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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166283BS							
Aluminum	ug/L	1000	909		91	80 - 120	P
Antimony	ug/L	400	380		95	80 - 120	P
Arsenic	ug/L	400	383		96	80 - 120	P
Barium	ug/L	100	84.8		85	80 - 120	P
Beryllium	ug/L	100	89.5		90	80 - 120	P
Cadmium	ug/L	100	91.4		91	80 - 120	P
Calcium	ug/L	500	457	J	91	80 - 120	P
Chromium	ug/L	200	197		98	80 - 120	P
Cobalt	ug/L	100	91.5		92	80 - 120	P
Copper	ug/L	150	149		99	80 - 120	P
Iron	ug/L	1500	1390		93	80 - 120	P
Lead	ug/L	500	468		94	80 - 120	P
Magnesium	ug/L	1000	871	J	87	80 - 120	P
Manganese	ug/L	100	86.3		86	80 - 120	P
Nickel	ug/L	250	232		93	80 - 120	P
Potassium	ug/L	5000	4490		90	80 - 120	P
Selenium	ug/L	1000	955		96	80 - 120	P
Silver	ug/L	37.5	36.1		96	80 - 120	P
Sodium	ug/L	1500	1270		85	80 - 120	P
Thallium	ug/L	1000	975		98	80 - 120	P
Vanadium	ug/L	150	134		89	80 - 120	P
Zinc	ug/L	100	97.8		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166289BS							
Mercury	mg/Kg	0.28	0.27		95	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166291BS							
Mercury	ug/L	4.0	4.51		113	82 - 119	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166298BS							
Aluminum	mg/Kg	86.2	80.0		93	80 - 120	P
Antimony	mg/Kg	34.5	31.9		92	80 - 120	P
Arsenic	mg/Kg	34.5	33.4		97	80 - 120	P
Barium	mg/Kg	8.6	7.43		86	80 - 120	P
Beryllium	mg/Kg	8.6	8.12		94	80 - 120	P
Cadmium	mg/Kg	8.6	8.03		93	80 - 120	P
Calcium	mg/Kg	43.1	39.5	J	92	80 - 120	P
Chromium	mg/Kg	17.2	17.0		99	80 - 120	P
Cobalt	mg/Kg	8.6	8.00		93	80 - 120	P
Copper	mg/Kg	12.9	12.7		98	80 - 120	P
Iron	mg/Kg	130	120		92	80 - 120	P
Lead	mg/Kg	43.1	40.3		94	80 - 120	P
Magnesium	mg/Kg	86.2	79.2	J	92	80 - 120	P
Manganese	mg/Kg	8.6	7.75		90	80 - 120	P
Nickel	mg/Kg	21.6	20.2		94	80 - 120	P
Potassium	mg/Kg	430	392		91	80 - 120	P
Selenium	mg/Kg	86.2	81.3		94	80 - 120	P
Silver	mg/Kg	3.2	3.10		97	80 - 120	P
Sodium	mg/Kg	130	107		82	80 - 120	P
Thallium	mg/Kg	86.2	84.5		98	80 - 120	P
Vanadium	mg/Kg	12.9	11.9		92	80 - 120	P
Zinc	mg/Kg	8.6	8.37		97	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

SPILL-SITEL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134437 **Lab Sample ID :** Q1169-05L **SDG No.:** Q1194

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.049		0.051	J	3		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TAPIAL3-MW04S-012425-00-T3L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134454 **Lab Sample ID :** Q1193-01L **SDG No.:** Q1194

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	0.20	U	1.00	U			CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-113-SB02L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134493 **Lab Sample ID :** Q1194-04L **SDG No.:** Q1194

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	10400		12400		20		P
Antimony	3.51	U	17.6	U			P
Arsenic	7.87		9.53		21		P
Barium	28.3		33.9	J	20		P
Beryllium	0.89		1.19	J	33		P
Cadmium	0.40	J	2.11	U	100.0		P
Calcium	1530		1900		24		P
Chromium	24.2		29.7		23		P
Cobalt	12.7		12.7		0		P
Copper	16.0		21.9		37		P
Iron	27100		32900		21		P
Lead	14.3		14.9		4		P
Magnesium	5000		6150		23		P
Manganese	330		411		24		P
Nickel	26.3		26.8		2		P
Potassium	1980		2280		15		P
Selenium	1.41	U	7.03	U			P
Silver	0.15	J	3.51	U	100.0		P
Sodium	940		1080		15		P
Thallium	0.64	J	14.1	U	100.0		P
Vanadium	26.2		31.9		22		P
Zinc	62.0		74.6		20		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

EBL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134457 **Lab Sample ID :** Q1194-08L **SDG No.:** Q1194

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	50.0	U	250	U			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	1000	U	5000	U			P
Chromium	5.00	U	25.0	U			P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	50.0	U	250	U			P
Lead	6.00	U	30.0	U			P
Magnesium	1000	U	5000	U			P
Manganese	21.3		20.8	J	2		P
Nickel	20.0	U	100	U			P
Potassium	1000	U	5000	U			P
Selenium	10.0	U	50.0	U			P
Silver	0.72	J	25.0	U	100.0		P
Sodium	1000	U	5000	U			P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	20.0	U	100	U			P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1194 **SAS No.:** Q1194

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

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1194 **SAS No.:** Q1194

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166283**						
PB166283BL	PB166283BL	MB	WATER	01/27/2025	50.0	25.0	
PB166283BS	PB166283BS	LCS	WATER	01/27/2025	50.0	25.0	
Q1194-08	EB	SAM	WATER	01/27/2025	50.0	25.0	
Q1194-08DUP	EBDUP	DUP	WATER	01/27/2025	50.0	25.0	
Q1194-08MS	EBMS	MS	WATER	01/27/2025	50.0	25.0	
Q1194-08MSD	EBMSD	MSD	WATER	01/27/2025	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1194 **SAS No.:** Q1194

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166289**						
PB166289BL	PB166289BL	MB	SOLID	01/27/2025	0.58	35.0	100.00
PB166289BS	PB166289BS	LCS	SOLID	01/27/2025	0.50	35.0	100.00
Q1169-05DUP	SPILL-SITEDUP	DUP	SOLID	01/27/2025	0.52	35.0	89.70
Q1169-05MS	SPILL-SITEMS	MS	SOLID	01/27/2025	0.56	35.0	89.70
Q1169-05MSD	SPILL-SITEMSD	MSD	SOLID	01/27/2025	0.53	35.0	89.70
Q1194-01	B-110-SB01	SAM	SOLID	01/27/2025	0.53	35.0	88.30
Q1194-02	B-110-SB02	SAM	SOLID	01/27/2025	0.56	35.0	57.00
Q1194-03	B-113-SB01	SAM	SOLID	01/27/2025	0.59	35.0	86.90
Q1194-04	B-113-SB02	SAM	SOLID	01/27/2025	0.56	35.0	64.70

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1194 **SAS No.:** Q1194

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166291**						
PB166291BL	PB166291BL	MB	WATER	01/28/2025	30.0	30.0	
PB166291BS	PB166291BS	LCS	WATER	01/28/2025	30.0	30.0	
Q1193-01DUP	TAPIAL3-MW04S-012425-00-T3DUP	DUP	WATER	01/28/2025	30.0	30.0	
Q1193-01MS	TAPIAL3-MW04S-012425-00-T3MS	MS	WATER	01/28/2025	30.0	30.0	
Q1193-01MSD	TAPIAL3-MW04S-012425-00-T3MSD	MSD	WATER	01/28/2025	30.0	30.0	
Q1194-08	EB	SAM	WATER	01/28/2025	30.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1194

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1194 **SAS No.:** Q1194

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166298**						
PB166298BL	PB166298BL	MB	SOLID	01/28/2025	2.32	100.0	100.00
PB166298BS	PB166298BS	LCS	SOLID	01/28/2025	2.32	100.0	100.00
Q1194-01	B-110-SB01	SAM	SOLID	01/28/2025	2.36	100.0	88.30
Q1194-02	B-110-SB02	SAM	SOLID	01/28/2025	2.40	100.0	57.00
Q1194-03	B-113-SB01	SAM	SOLID	01/28/2025	2.27	100.0	86.90
Q1194-04	B-113-SB02	SAM	SOLID	01/28/2025	2.20	100.0	64.70
Q1194-04DUP	B-113-SB02DUP	DUP	SOLID	01/28/2025	2.40	100.0	64.70
Q1194-04MS	B-113-SB02MS	MS	SOLID	01/28/2025	2.13	100.0	64.70
Q1194-04MSD	B-113-SB02MSD	MSD	SOLID	01/28/2025	2.42	100.0	64.70

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1194 **Sas no.:** Q1194 **Sdg no.:** Q1194

Instrument id number: **Method:** **Run number:** LB134437

Start date: 01/27/2025 **End date:** 01/27/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1709	HG
S0.2	S0.2	1	1711	HG
S2.5	S2.5	1	1714	HG
S5	S5	1	1718	HG
S7.5	S7.5	1	1723	HG
S10	S10	1	1735	HG
ICV70	ICV70	1	1742	HG
ICB70	ICB70	1	1744	HG
CCV74	CCV74	1	1746	HG
CCB74	CCB74	1	1748	HG
CRA	CRA	1	1751	HG
PB166289BL	PB166289BL	1	1758	HG
PB166289BS	PB166289BS	1	1803	HG
Q1169-05DUP	SPILL-SITEDUP	1	1812	HG
Q1169-05MS	SPILL-SITEMS	1	1814	HG
CCV75	CCV75	1	1817	HG
CCB75	CCB75	1	1819	HG
Q1169-05MSD	SPILL-SITEMSD	1	1821	HG
Q1194-01	B-110-SB01	1	1830	HG
Q1194-03	B-113-SB01	1	1835	HG
Q1194-04	B-113-SB02	1	1838	HG
Q1169-05L	SPILL-SITEL	5	1842	HG
CCV76	CCV76	1	1846	HG
CCB76	CCB76	1	1848	HG
Q1194-02	B-110-SB02	10	1852	HG
CCV77	CCV77	1	1854	HG
CCB77	CCB77	1	1856	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1194 **Sas no.:** Q1194 **Sdg no.:** Q1194

Instrument id number: **Method:** **Run number:** LB134454

Start date: 01/28/2025 **End date:** 01/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1202	HG
S0.2	S0.2	1	1204	HG
S2.5	S2.5	1	1207	HG
S5	S5	1	1209	HG
S7.5	S7.5	1	1211	HG
S10	S10	1	1234	HG
ICV72	ICV72	1	1239	HG
ICB72	ICB72	1	1242	HG
CCV79	CCV79	1	1244	HG
CCB79	CCB79	1	1246	HG
CRA	CRA	1	1249	HG
CCV80	CCV80	1	1311	HG
CCB80	CCB80	1	1314	HG
PB166291BL	PB166291BL	1	1323	HG
PB166291BS	PB166291BS	1	1327	HG
Q1193-01DUP	TAPIAL3-MW04S-012425-00-T	1	1332	HG
Q1193-01MS	TAPIAL3-MW04S-012425-00-T	1	1334	HG
Q1193-01MSD	TAPIAL3-MW04S-012425-00-T	1	1337	HG
Q1194-08	EB	1	1341	HG
CCV81	CCV81	1	1346	HG
CCB81	CCB81	1	1348	HG
Q1193-01L	TAPIAL3-MW04S-012425-00-T	5	1358	HG
CCV82	CCV82	1	1407	HG
CCB82	CCB82	1	1409	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1194 **Sas no.:** Q1194 **Sdg no.:** Q1194

Instrument id number: **Method:** **Run number:** LB134457

Start date: 01/28/2025 **End date:** 01/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1125	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	1130	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	1134	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	1138	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	1143	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	1147	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	1203	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	1208	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	1221	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	1226	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	1230	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	1234	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	1239	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	1243	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08	EB	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08DUP	EBDUP	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08L	EBL	5	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	1342	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	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08MS	EBMS	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08MSD	EBMSD	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-08A	EBA	1	1359	Mn
PB166283BL	PB166283BL	1	1403	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166283BS	PB166283BS	1	1407	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	1433	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	1437	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	1532	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	1536	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	1552	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	1556	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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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1194 **Sas no.:** Q1194 **Sdg no.:** Q1194

Instrument id number: **Method:** **Run number:** LB134477

Start date: 01/29/2025 **End date:** 01/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1051	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	1055	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	1059	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	1103	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	1108	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	1112	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	1116	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	1132	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	1137	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	1141	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	1145	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	1202	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	1206	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	1210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-01	B-110-SB01	1	1215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-02	B-110-SB02	1	1219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-03	B-113-SB01	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166298BL	PB166298BL	1	1301	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	1312	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	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166298BS	PB166298BS	1	1320	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	1401	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	1406	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	1424	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	1428	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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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1194 **Sas no.:** Q1194 **Sdg no.:** Q1194

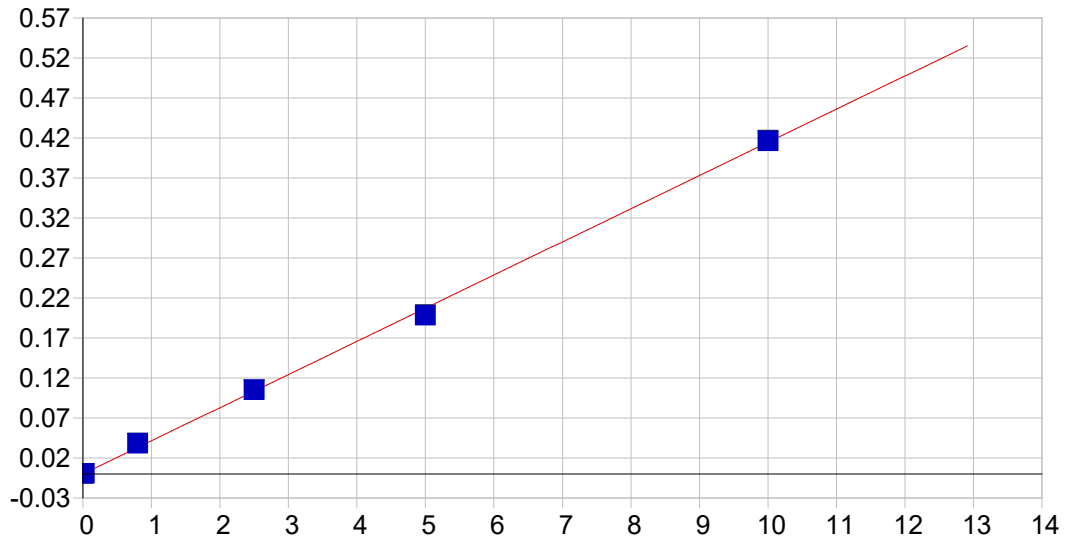
Instrument id number: **Method:** **Run number:** LB134493

Start date: 01/30/2025 **End date:** 01/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1107	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	1112	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	1116	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	1120	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	1125	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	1129	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	1149	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	1156	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	1200	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	1205	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	1210	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	1228	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	1241	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	1247	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	1333	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	1337	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	1434	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	1438	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	1525	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	1529	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	1624	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	1628	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	1719	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	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04	B-113-SB02	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04DUP	B-113-SB02DUP	1	1807	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	1811	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	1815	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04L	B-113-SB02L	5	1819	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04MS	B-113-SB02MS	1	1824	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04MSD	B-113-SB02MSD	1	1828	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1194-04A	B-113-SB02A	1	1832	Ba,Be,Cr,Cu,K,Se,V
CCV08	CCV08	1	1845	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	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



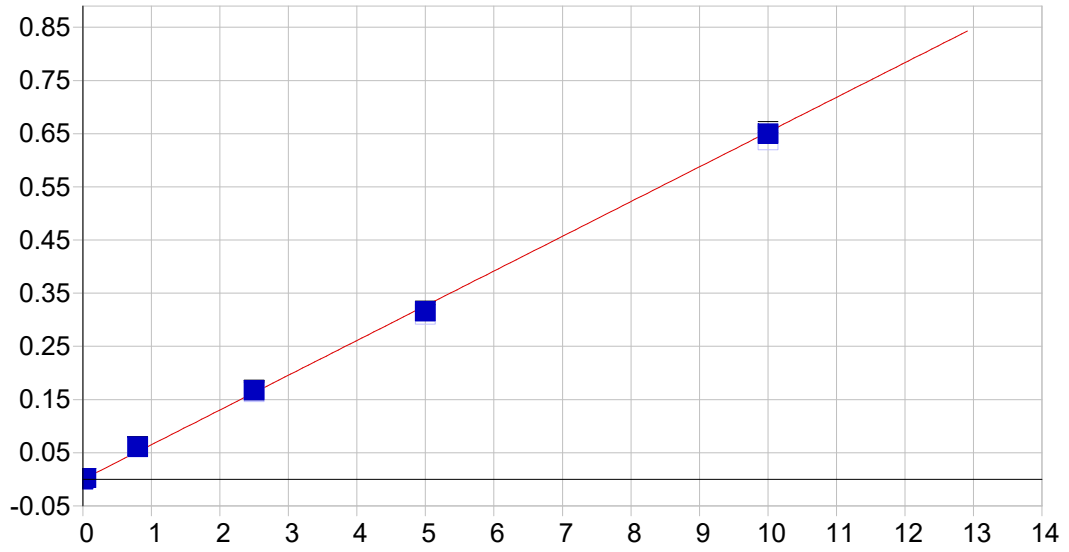
As 189.042 {479}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000057	Re-Slope:	1.000000
A1 (Gain):	0.041460	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999191	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003249		
Predicted MQL:	0.010830		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00006	.000	1
S1	.02000	.02373	.004	18.6	.00092	.000	1
S3	2.5000	2.5394	.039	1.58	.10512	.000	1
S4	5.0000	4.7880	-.212	-4.24	.19823	.000	1
S5	10.000	10.045	.045	.453	.41597	.001	1
S2	.80000	.92357	.124	15.4	.03820	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



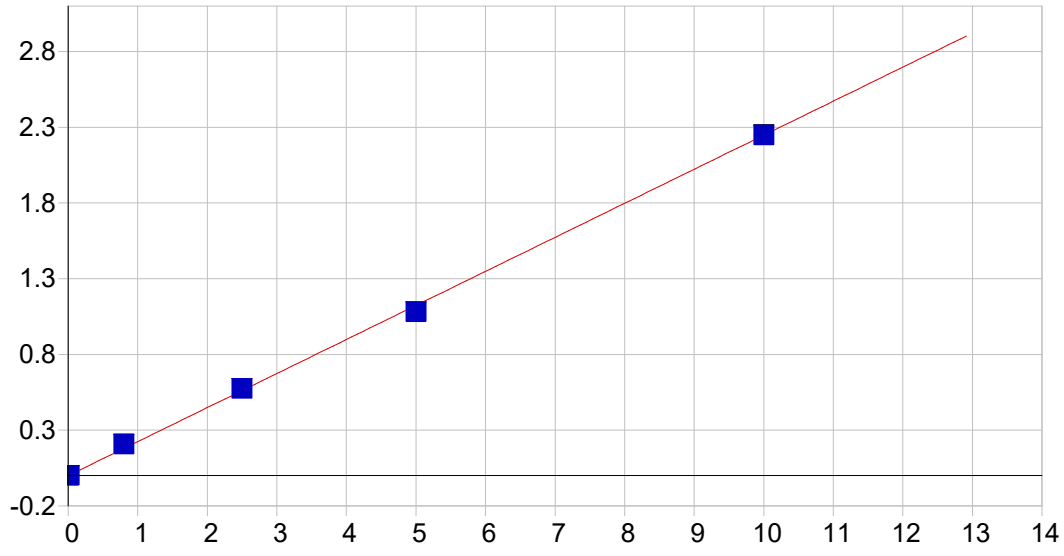
Tl 190.856 {477}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000208	Re-Slope:	1.000000
A1 (Gain):	0.065316	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999089	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.001811		
Predicted MQL:	0.006038		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00021	.000	1
S1	.04000	.04219	.002	5.46	.00238	.000	1
S3	2.5000	2.5659	.066	2.63	.16438	.001	1
S4	5.0000	4.8380	-.162	-3.24	.30978	.001	1
S5	10.000	9.9528	-.047	-.472	.63785	.004	1
S2	.80000	.94117	.141	17.6	.06030	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



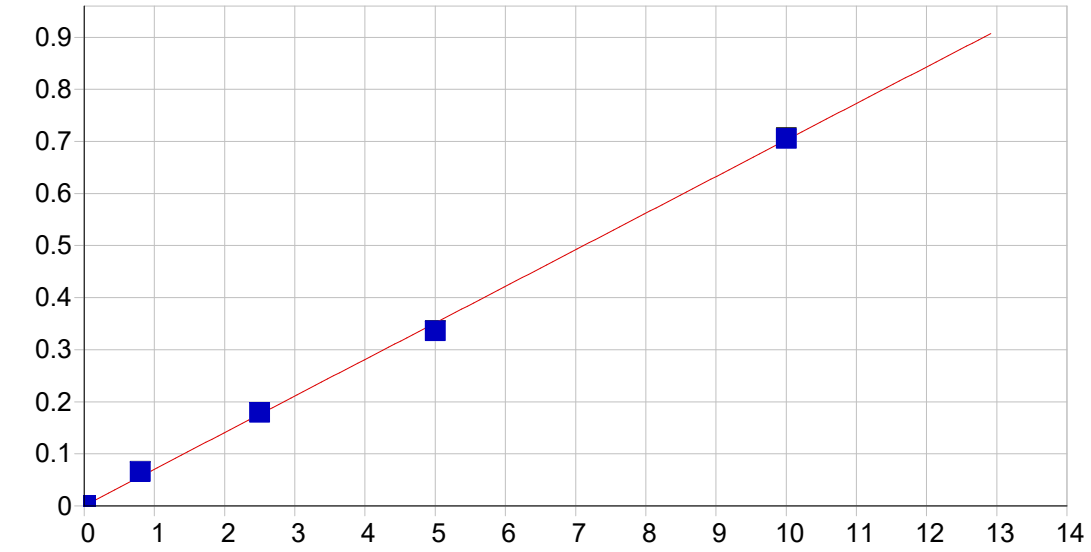
Pb 220.353 {453}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000349	Re-Slope:	1.000000
A1 (Gain):	0.224771	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999255	Status:	OK.
Std Error of Est:	0.000157		
Predicted MDL:	0.001106		
Predicted MQL:	0.003687		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00035	.000	1
S1	.01200	.01247	.000	3.95	.00240	.000	1
S3	2.5000	2.5607	.061	2.43	.57460	.000	1
S4	5.0000	4.8130	-.187	-3.74	1.0802	.002	1
S5	10.000	10.003	.003	.034	2.2457	.003	1
S2	.80000	.92247	.122	15.3	.20680	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



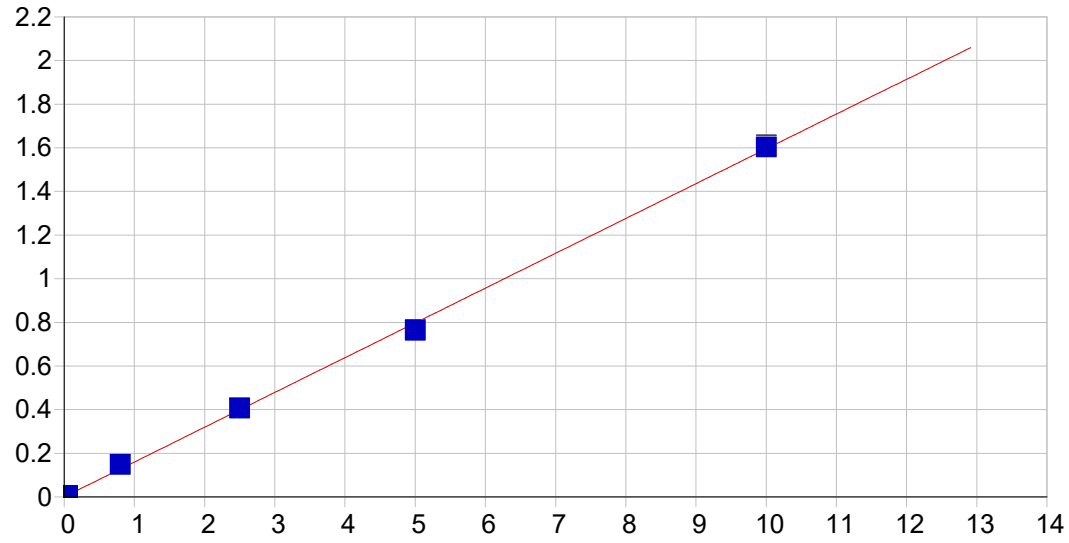
Se 196.090 {472}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000292	Re-Slope:	1.000000
A1 (Gain):	0.070234	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999113	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.002565		
Predicted MQL:	0.008551		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00029	.000	1
S1	.02000	.02031	.000	1.54	.00172	.000	1
S3	2.5000	2.5478	.048	1.91	.17919	.000	1
S4	5.0000	4.7794	-.221	-4.41	.33587	.000	1
S5	10.000	10.041	.041	.407	.70530	.001	1
S2	.80000	.93178	.132	16.5	.06572	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



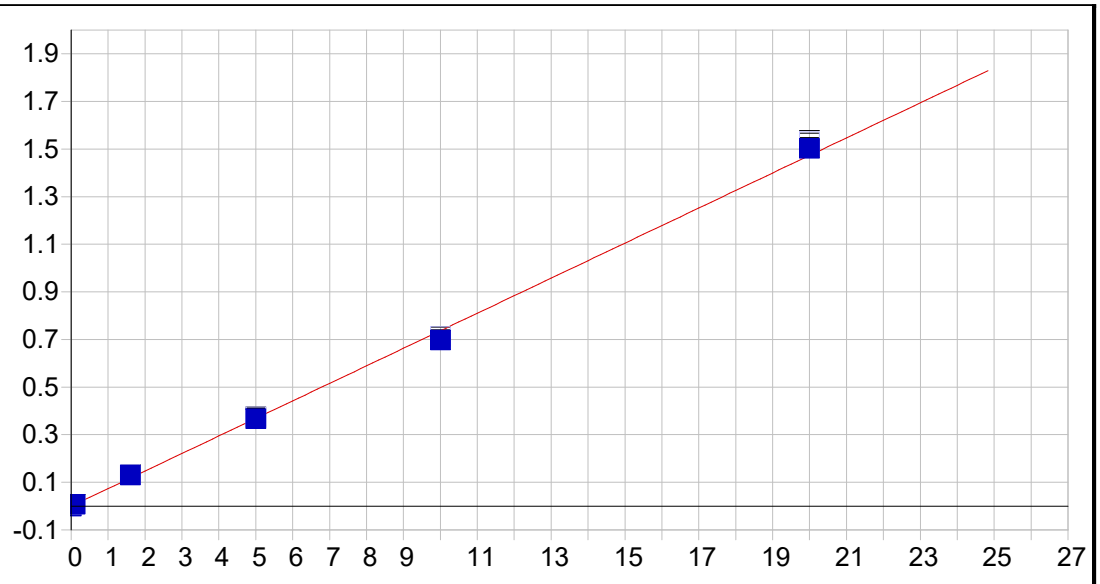
Sb 206.833 {463}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000388	Re-Slope:	1.000000
A1 (Gain):	0.159467	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999152	Status:	OK.
Std Error of Est:	0.000244		
Predicted MDL:	0.001372		
Predicted MQL:	0.004572		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00039	.000	1
S1	.05000	.05073	.001	1.46	.00850	.000	1
S3	2.5000	2.5417	.042	1.67	.40679	.001	1
S4	5.0000	4.7762	-.224	-4.48	.76420	.002	1
S5	10.000	10.054	.054	.540	1.6080	.006	1
S2	.80000	.92743	.127	15.9	.14863	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



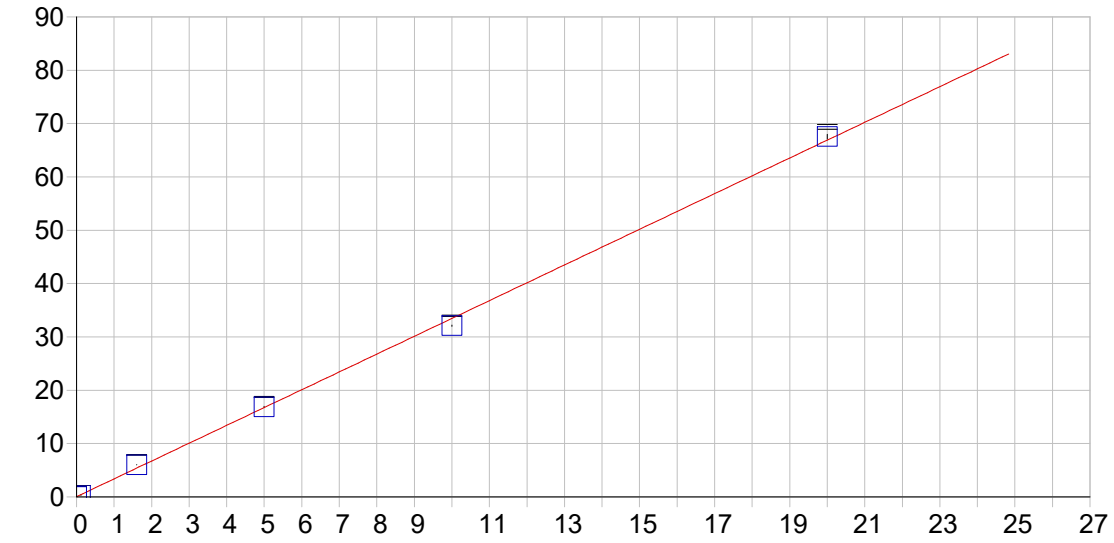
Al 396.152 { 85}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.073663	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999283	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.006699		
Predicted MQL:	0.022330		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.10000	.09374	-.006	-6.26	.00750	.000	1
S3	5.0000	4.9813	-.019	-.375	.37410	.001	1
S4	10.000	9.4653	-.535	-5.35	.71156	.001	1
S5	20.000	20.390	.390	1.95	1.5306	.005	1
S2	1.6000	1.7702	.170	10.6	.13271	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



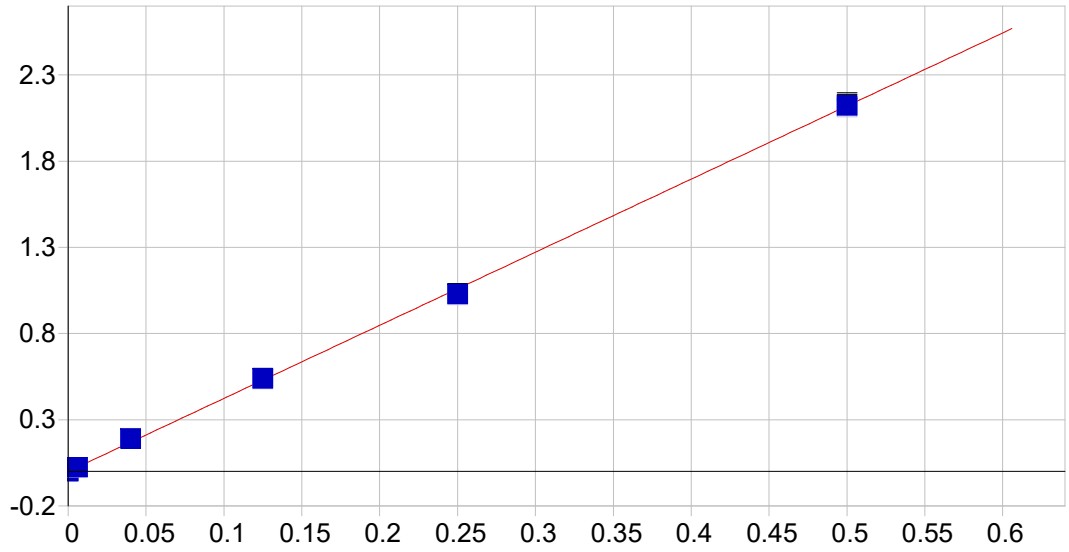
Ba 493.409 { 68}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.040223	Re-Slope:	1.000000
A1 (Gain):	3.342594	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999435	Status:	OK.
Std Error of Est:	0.008338		
Predicted MDL:	0.000602		
Predicted MQL:	0.002007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.04021	.002	1
S1	.10000	.09535	-.005	-4.65	.35893	.004	1
S3	5.0000	5.0352	.035	.704	16.871	.099	1
S4	10.000	9.5889	-.411	-4.11	32.092	.135	1
S5	20.000	20.192	.192	.958	67.532	.452	1
S2	1.6000	1.7890	.189	11.8	6.0201	.030	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



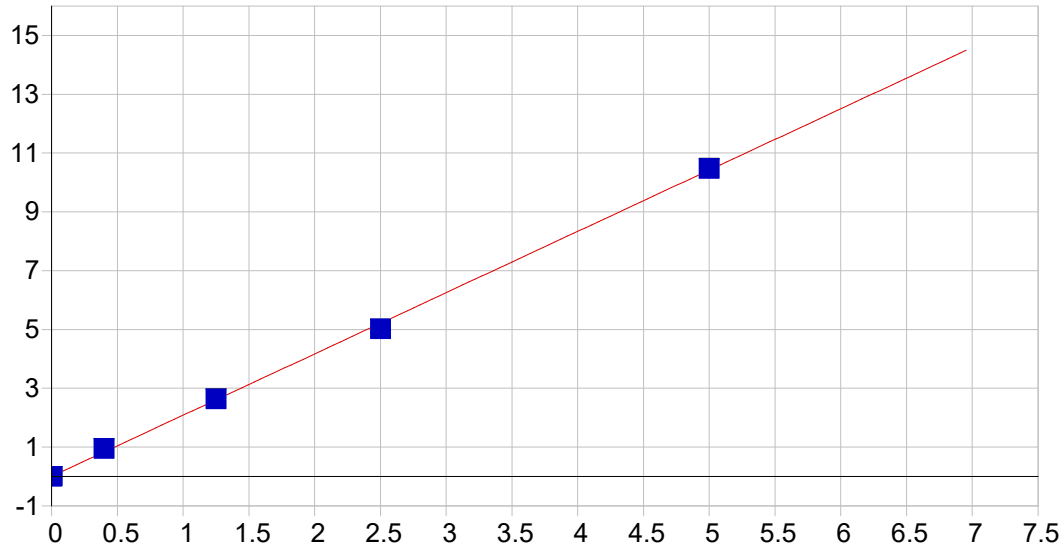
Be 234.861 {144}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000381	Re-Slope:	1.000000
A1 (Gain):	4.241015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999522	Status:	OK.
Std Error of Est:	0.000376		
Predicted MDL:	0.000058		
Predicted MQL:	0.000194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00038	.000	1
S1	.00600	.00570	-.000	-5.01	.02360	.000	1
S3	.12500	.12697	.002	1.58	.53572	.002	1
S4	.25000	.24271	-.007	-2.92	1.0242	.004	1
S5	.50000	.50067	.001	.135	2.1135	.016	1
S2	.04000	.04495	.005	12.4	.18950	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



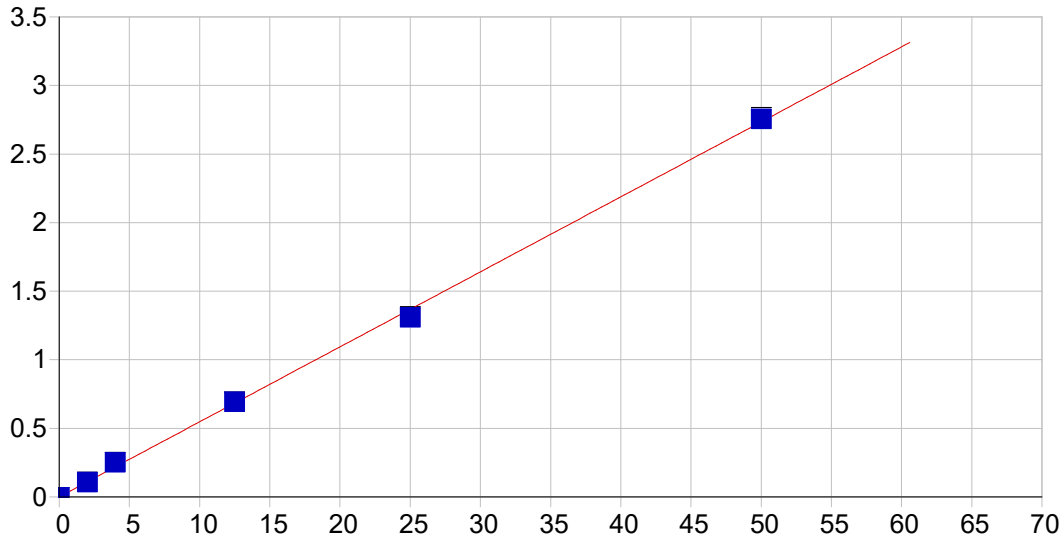
Cd 226.502 {449}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	2.084371	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999407	Status:	OK.
Std Error of Est:	0.000652		
Predicted MDL:	0.000091		
Predicted MQL:	0.000302		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.00600	.00592	-.000	-1.28	.01243	.000	1
S3	1.2500	1.2657	.016	1.25	2.6403	.004	1
S4	2.5000	2.4084	-.092	-3.66	5.0243	.006	1
S5	5.0000	5.0222	.022	.443	10.477	.010	1
S2	.40000	.45382	.054	13.5	.94663	.003	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



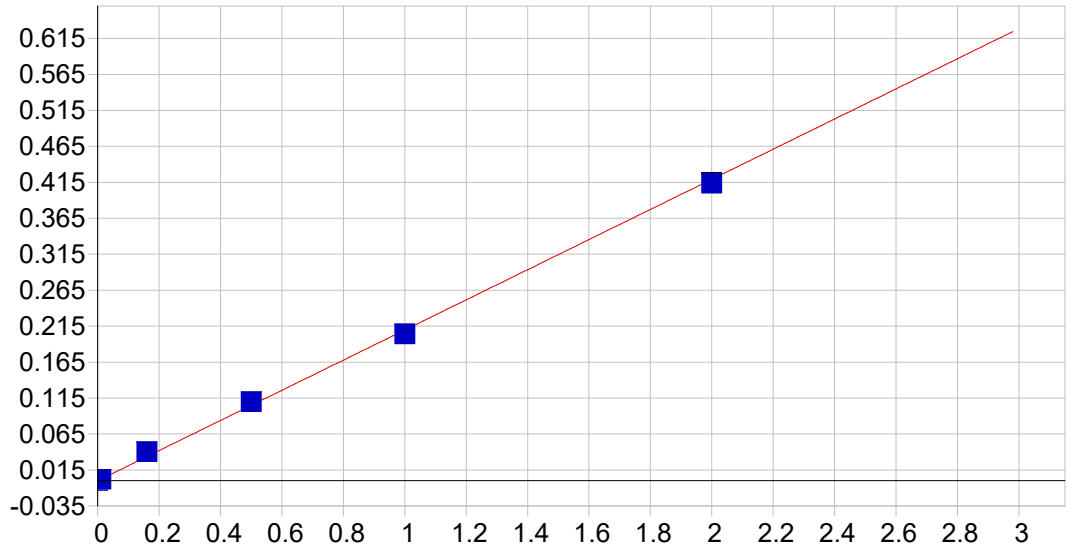
Ca 373.690 { 90}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000829	Re-Slope:	1.000000
A1 (Gain):	0.054674	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999264	Status:	OK.
Std Error of Est:	0.001110		
Predicted MDL:	0.008668		
Predicted MQL:	0.028893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00082	.000	1
S2	4.0000	4.5838	.584	14.6	.25144	.001	1
S3	12.500	12.640	.140	1.12	.69191	.005	1
S4	25.000	23.934	-1.07	-4.26	1.3094	.004	1
S5	50.000	50.408	.408	.815	2.7568	.010	1
S1	2.0000	1.9343	-.066	-3.28	.10658	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



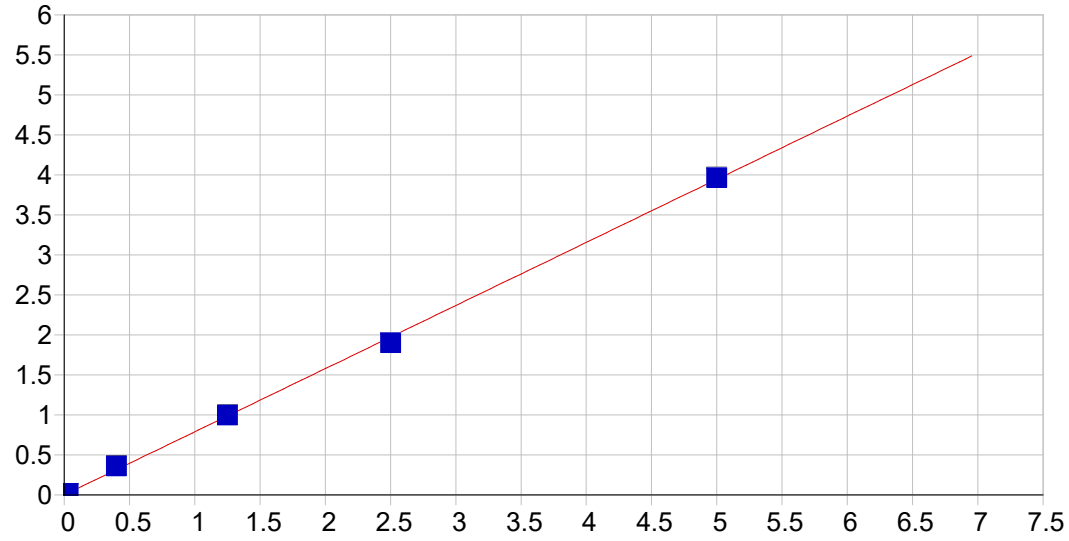
Cr 267.716 {126}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000016	Re-Slope:	1.000000
A1 (Gain):	0.209578	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998875	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.000362		
Predicted MQL:	0.001208		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.01000	.00991	-.000	-.889	.00206	.000	1
S3	.50000	.52378	.024	4.76	.10979	.000	1
S4	1.0000	.97232	-.028	-2.77	.20382	.000	1
S5	2.0000	1.9730	-.027	-1.35	.41360	.001	1
S2	.16000	.19102	.031	19.4	.04003	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



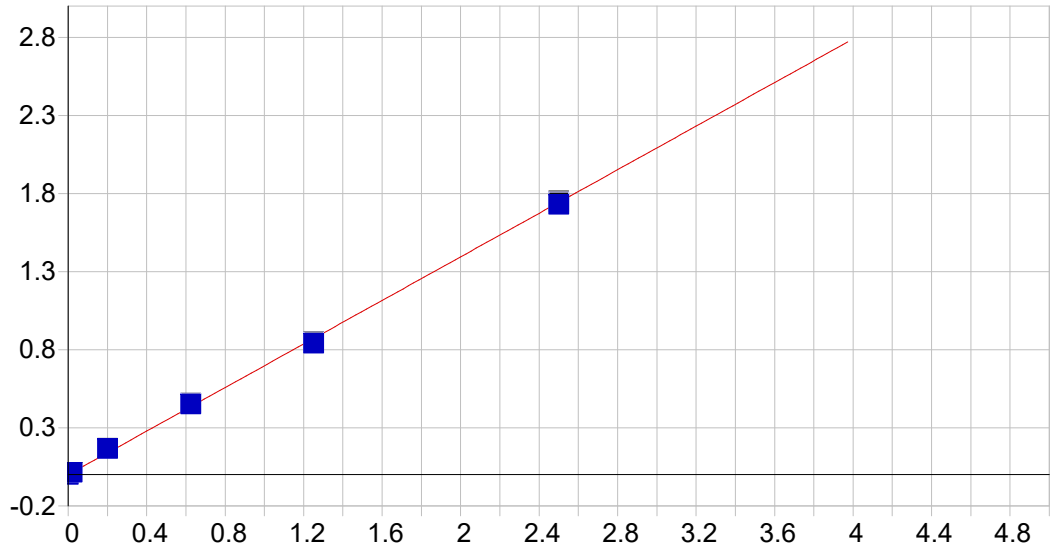
Co 228.616 {448}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000046	Re-Slope:	1.000000
A1 (Gain):	0.789076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999377	Status:	OK.
Std Error of Est:	0.000567		
Predicted MDL:	0.000212		
Predicted MQL:	0.000708		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.03000	.02912	-.001	-2.92	.02293	.000	1
S3	1.2500	1.2644	.014	1.15	.99943	.001	1
S4	2.5000	2.4080	-.092	-3.68	1.9035	.001	1
S5	5.0000	5.0225	.023	.450	3.9699	.004	1
S2	.40000	.45592	.056	14.0	.36034	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



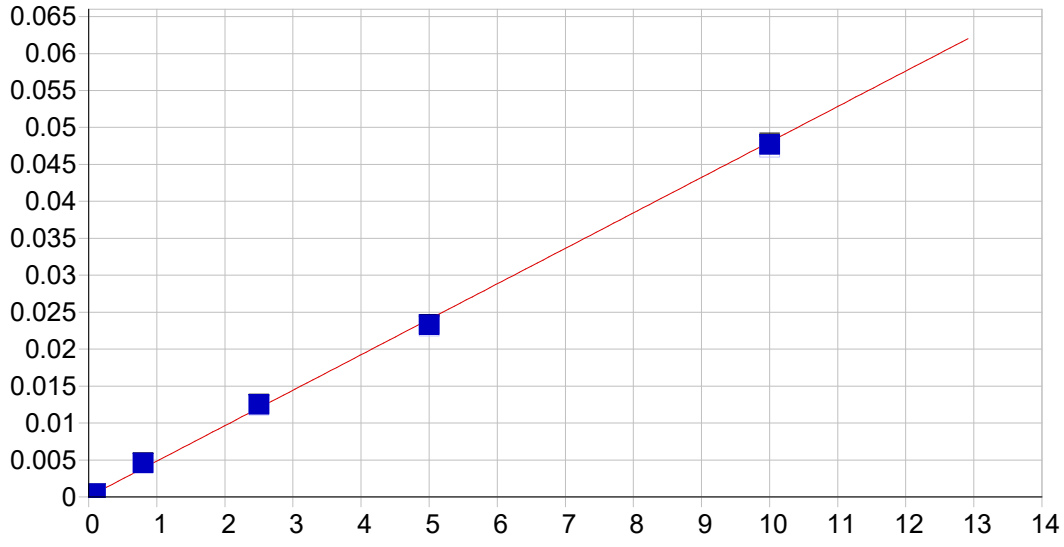
Cu 224.700 {450}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000158	Re-Slope:	1.000000
A1 (Gain):	0.697346	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998884	Status:	OK.
Std Error of Est:	0.000391		
Predicted MDL:	0.000406		
Predicted MQL:	0.001353		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00016	.000	1
S1	.02000	.02136	.001	6.82	.01492	.000	1
S3	.62500	.64907	.024	3.85	.45662	.001	1
S4	1.2500	1.2053	-.045	-3.57	.84869	.000	1
S5	2.5000	2.4800	-.020	-.800	1.7459	.006	1
S2	.20000	.23922	.039	19.6	.16799	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
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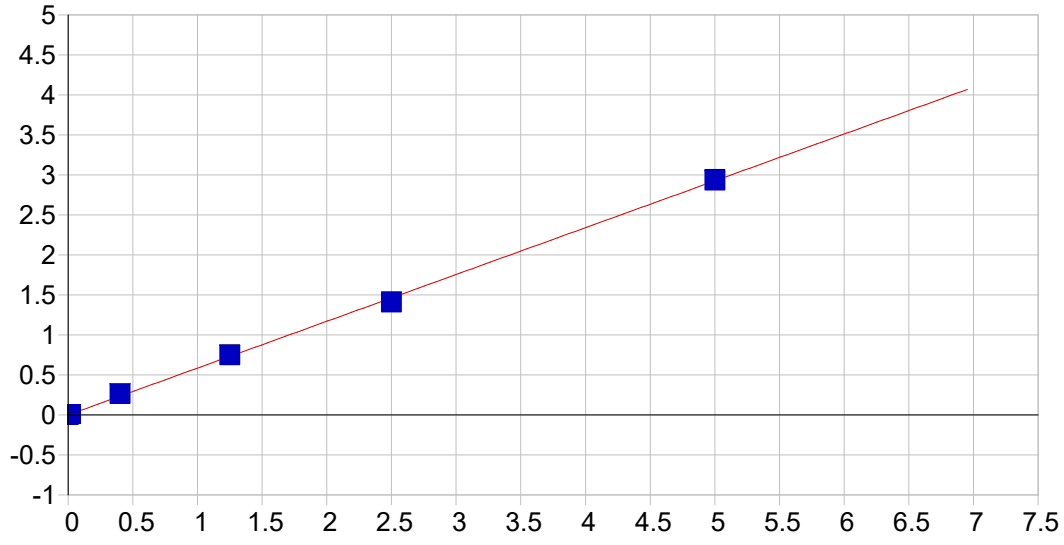
Fe 240.488 {140}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.004799	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998944	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.004930		
Predicted MQL:	0.016433		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.10000	.08551	-.014	-14.5	.00044	.000	1
S3	2.5000	2.5956	.096	3.82	.01239	.000	1
S4	5.0000	4.8443	-.156	-3.11	.02308	.000	1
S5	10.000	9.9273	-.073	-.727	.04727	.000	1
S2	.80000	.94734	.147	18.4	.00455	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



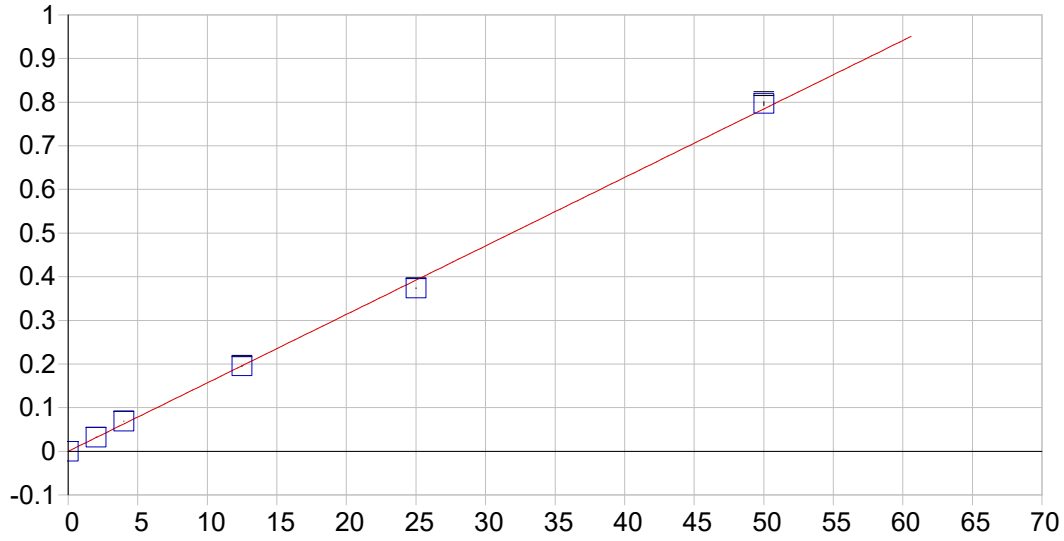
Mn 257.610 {131}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000073	Re-Slope:	1.000000
A1 (Gain):	0.585162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999372	Status:	OK.
Std Error of Est:	0.000344		
Predicted MDL:	0.000340		
Predicted MQL:	0.001135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00007	.000	1
S1	.02000	.02014	.000	.714	.01172	.000	1
S3	1.2500	1.2775	.028	2.20	.74762	.001	1
S4	2.5000	2.4063	-.094	-3.75	1.4083	.005	1
S5	5.0000	5.0117	.012	.234	2.9332	.013	1
S2	.40000	.45435	.054	13.6	.26584	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



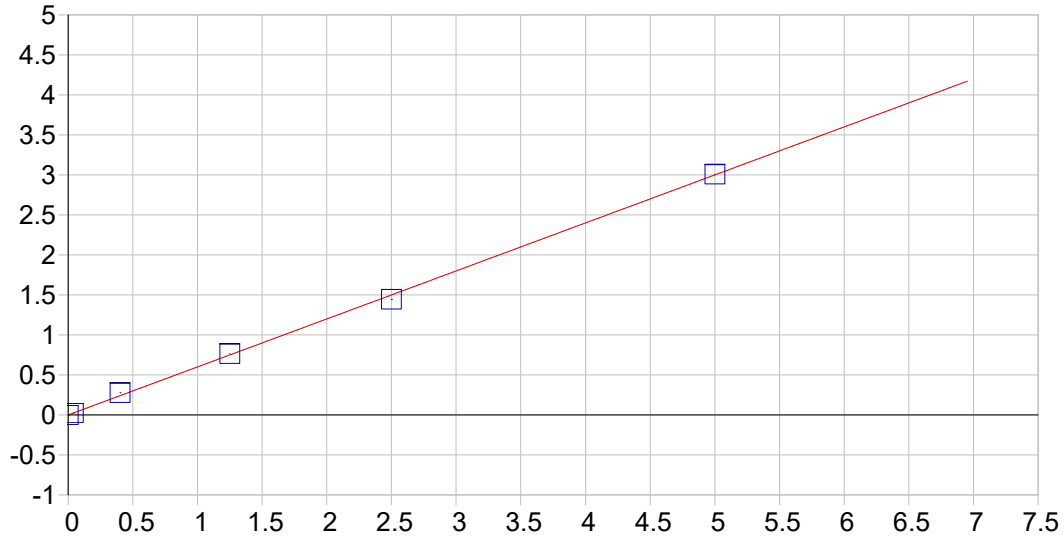
Mg 279.079 {121}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000110	Re-Slope:	1.000000
A1 (Gain):	0.015691	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999403	Status:	OK.
Std Error of Est:	0.000287		
Predicted MDL:	0.013830		
Predicted MQL:	0.046099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	-.00011	.000	1
S2	4.0000	4.4042	.404	10.1	.06900	.001	1
S3	12.500	12.455	-.045	-.358	.19532	.001	1
S4	25.000	23.805	-1.20	-4.78	.37340	.001	1
S5	50.000	50.797	.797	1.59	.79693	.004	1
S1	2.0000	2.0386	.039	1.93	.03188	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



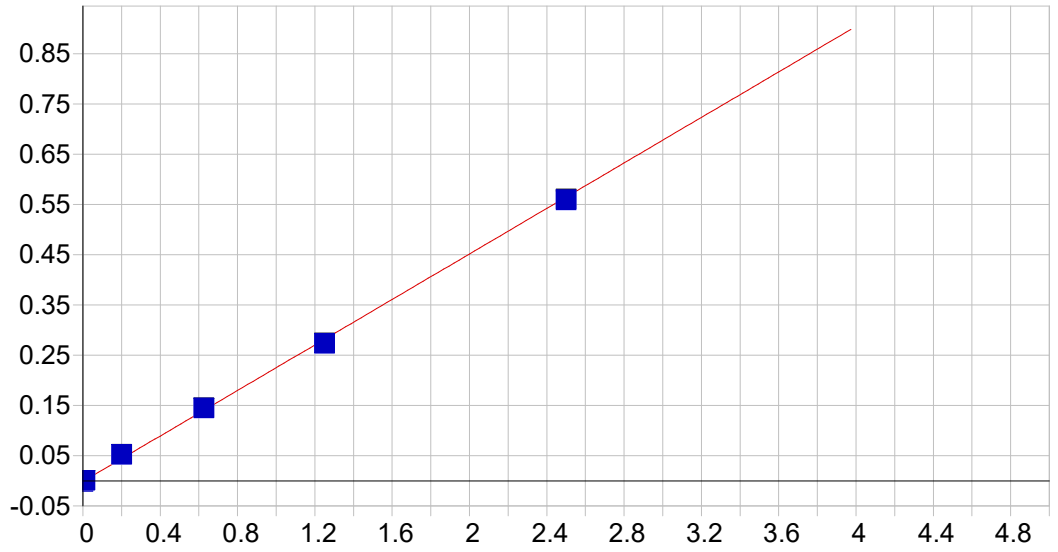
Ni 231.604 {446}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000216	Re-Slope:	1.000000
A1 (Gain):	0.600293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999290	Status:	OK.
Std Error of Est:	0.000531		
Predicted MDL:	0.000313		
Predicted MQL:	0.001045		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00022	.000	1
S1	.04000	.03890	-.001	-2.75	.02313	.000	1
S3	1.2500	1.2758	.026	2.06	.76564	.002	1
S4	2.5000	2.4069	-.093	-3.73	1.4446	.001	1
S5	5.0000	5.0084	.008	.168	3.0063	.002	1
S2	.40000	.46006	.060	15.0	.27596	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



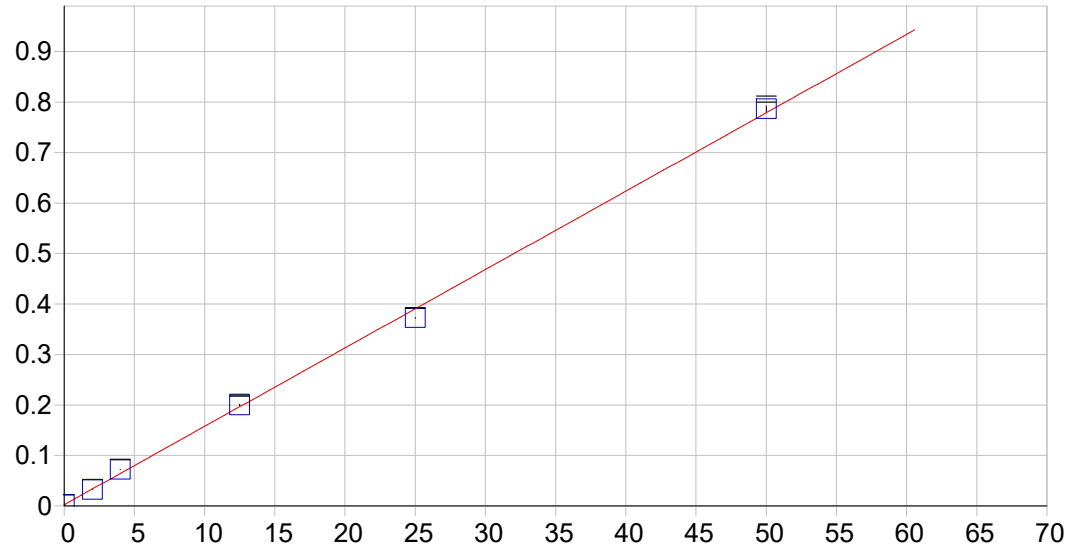
Ag 328.068 {103}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001413	Re-Slope:	1.000000
A1 (Gain):	0.226485	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999011	Status:	OK.
Std Error of Est:	0.000083		
Predicted MDL:	0.000446		
Predicted MQL:	0.001487		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00141	.000	1
S1	.01000	.01039	.000	3.90	.00092	.000	1
S3	.62500	.64536	.020	3.26	.14419	.000	1
S4	1.2500	1.2142	-.036	-2.86	.27246	.000	1
S5	2.5000	2.4774	-.023	-.905	.55743	.001	1
S2	.20000	.23768	.038	18.8	.05224	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



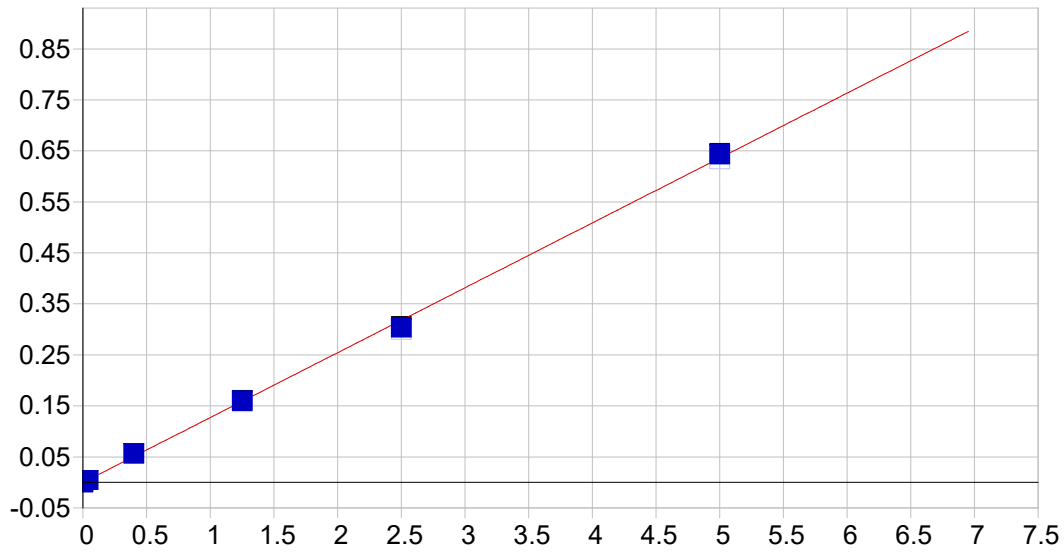
Na 589.592 { 57}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002384	Re-Slope:	1.000000
A1 (Gain):	0.015528	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999295	Status:	OK.
Std Error of Est:	0.000309		
Predicted MDL:	0.010878		
Predicted MQL:	0.036259		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.00238	.000	1
S2	4.0000	4.5200	.520	13.0	.07257	.001	1
S3	12.500	12.700	.200	1.60	.19960	.002	1
S4	25.000	23.837	-1.16	-4.65	.37253	.001	1
S5	50.000	50.505	.505	1.01	.78664	.006	1
S1	2.0000	1.9379	-.062	-3.10	.03248	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



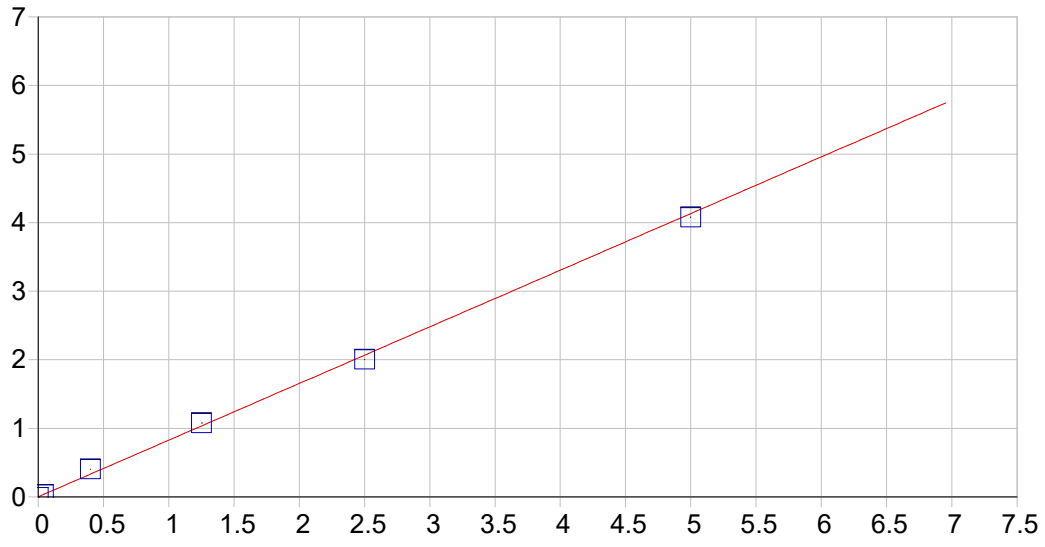
V 292.402 {115}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000059	Re-Slope:	1.000000
A1 (Gain):	0.127215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999387	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	0.001732		
Predicted MQL:	0.005773		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.04000	.03696	-.003	-7.60	.00445	.000	1
S3	1.2500	1.2592	.009	.738	.15782	.000	1
S4	2.5000	2.3902	-.110	-4.39	.29937	.002	1
S5	5.0000	5.0582	.058	1.16	.63414	.002	1
S2	.40000	.44540	.045	11.4	.05586	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



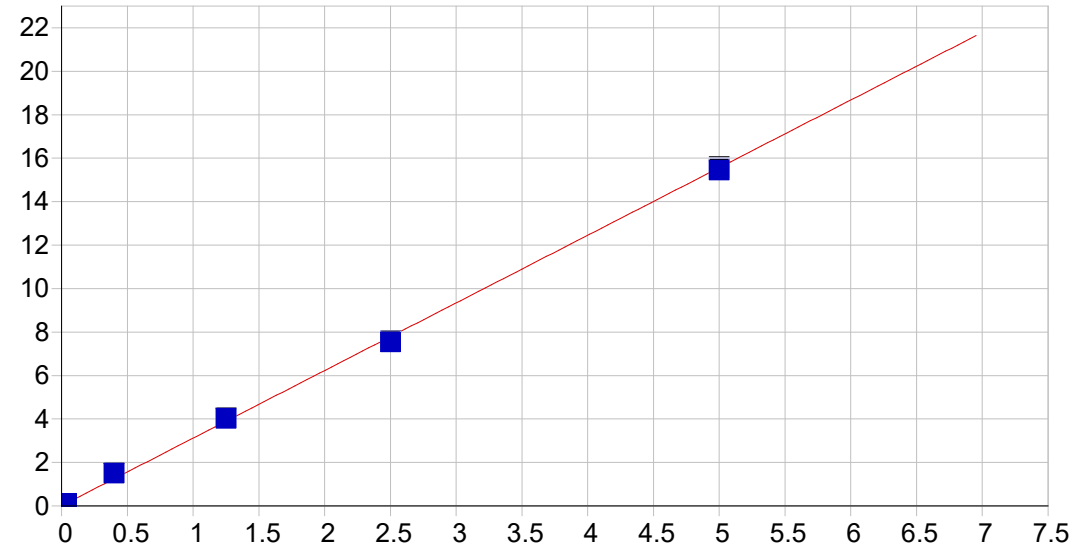
Zn 206.200 {464}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001473	Re-Slope:	1.000000
A1 (Gain):	0.826200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998680	Status:	OK.
Std Error of Est:	0.000997		
Predicted MDL:	0.000214		
Predicted MQL:	0.000713		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00147	.000	1
S1	.04000	.04056	.001	1.40	.03498	.000	1
S3	1.2500	1.3026	.053	4.21	1.0777	.001	1
S4	2.5000	2.4248	-.075	-3.01	2.0048	.004	1
S5	5.0000	4.9350	-.065	-1.30	4.0788	.006	1
S2	.40000	.48711	.087	21.8	.40393	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



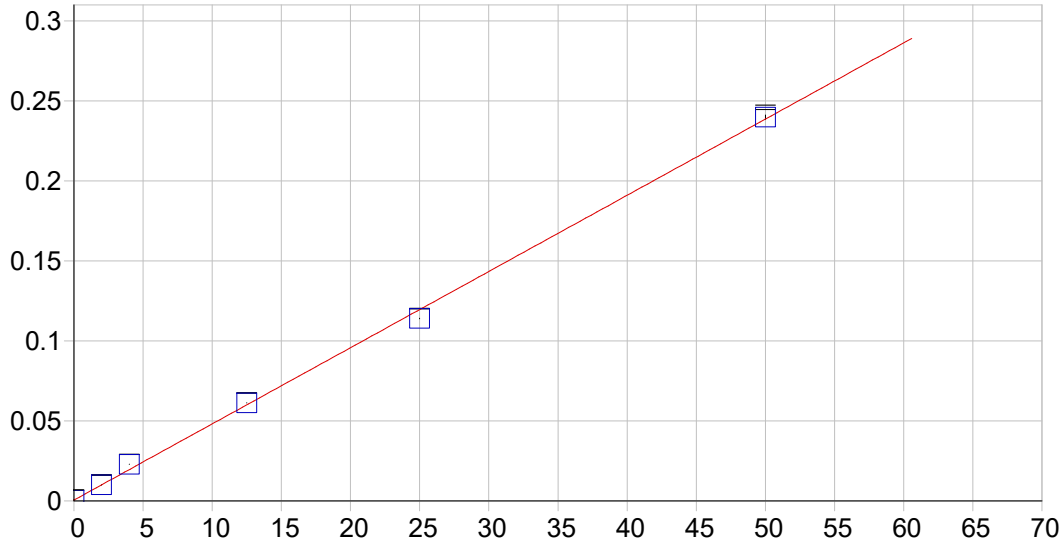
Zn 213.856 {158}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006172	Re-Slope:	1.000000
A1 (Gain):	3.111781	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998907	Status:	OK.
Std Error of Est:	0.003441		
Predicted MDL:	0.000250		
Predicted MQL:	0.000833		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00615	.000	1
S1	.04000	.03909	-.001	-2.29	.12867	.001	1
S3	1.2500	1.2896	.040	3.17	4.0461	.012	1
S4	2.5000	2.4209	-.079	-3.17	7.5935	.017	1
S5	5.0000	4.9597	-.040	-.806	15.548	.057	1
S2	.40000	.48075	.081	20.2	1.5108	.005	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



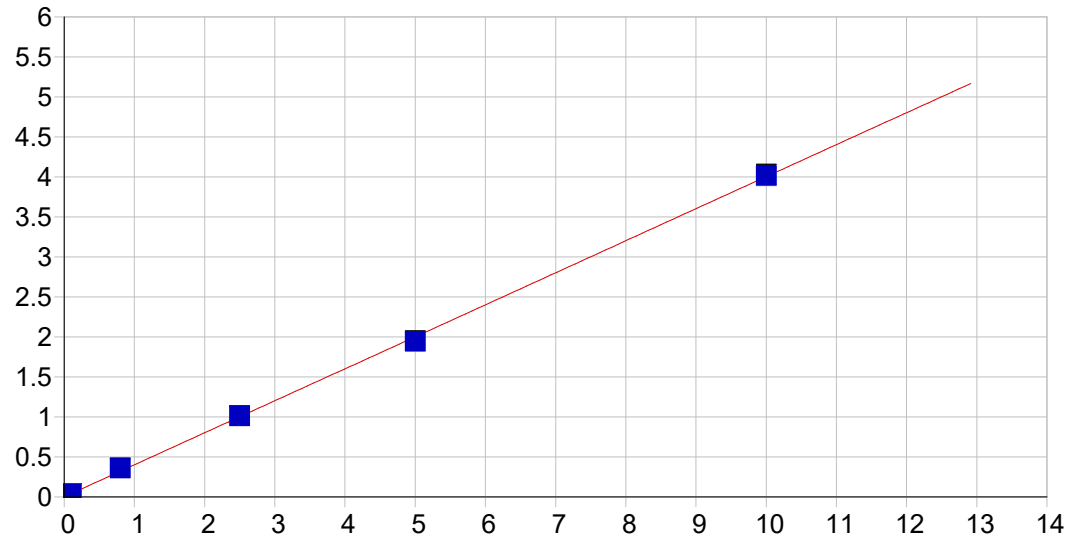
K 766.490 { 44}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000525	Re-Slope:	1.000000
A1 (Gain):	0.004762	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999028	Status:	OK.
Std Error of Est:	0.000111		
Predicted MDL:	0.040814		
Predicted MQL:	0.136048		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00030	-.000	.000	.00052	.000	1
S2	4.0000	4.6903	.690	17.3	.02286	.000	1
S3	12.500	12.749	.249	2.00	.06124	.000	1
S4	25.000	23.810	-1.19	-4.76	.11391	.000	1
S5	50.000	50.249	.249	.498	.23981	.001	1
S1	2.0000	2.0008	.001	.042	.01005	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



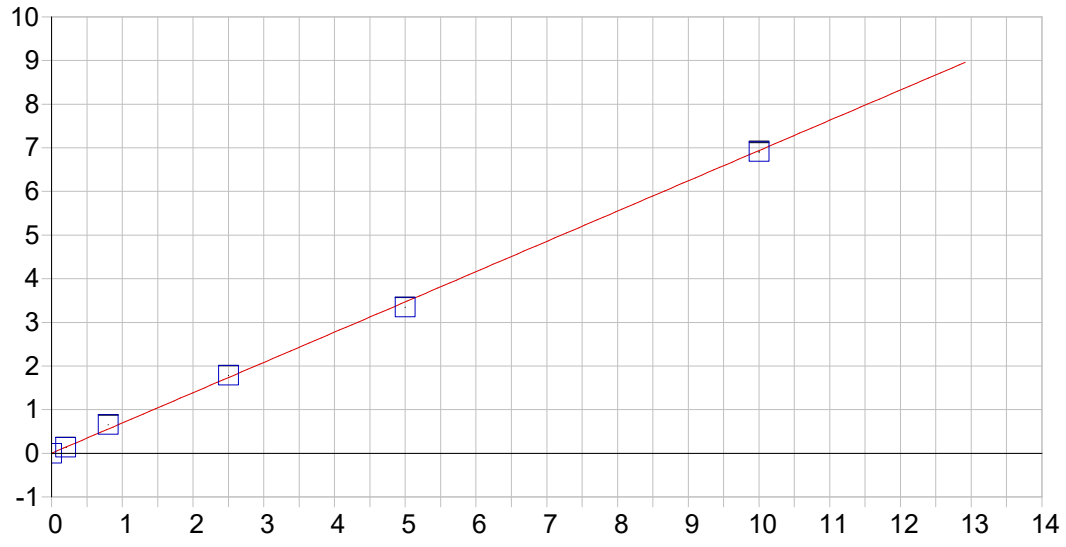
B 249.678 {135}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001621	Re-Slope:	1.000000
A1 (Gain):	0.400048	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999588	Status:	OK.
Std Error of Est:	0.000602		
Predicted MDL:	0.000757		
Predicted MQL:	0.002522		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00162	.000	1
S1	.10000	.09755	-.002	-2.45	.04047	.000	1
S3	2.5000	2.5238	.024	.951	1.0093	.004	1
S4	5.0000	4.8552	-.145	-2.90	1.9400	.009	1
S5	10.000	10.032	.032	.318	4.0070	.021	1
S2	.80000	.89173	.092	11.5	.35773	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



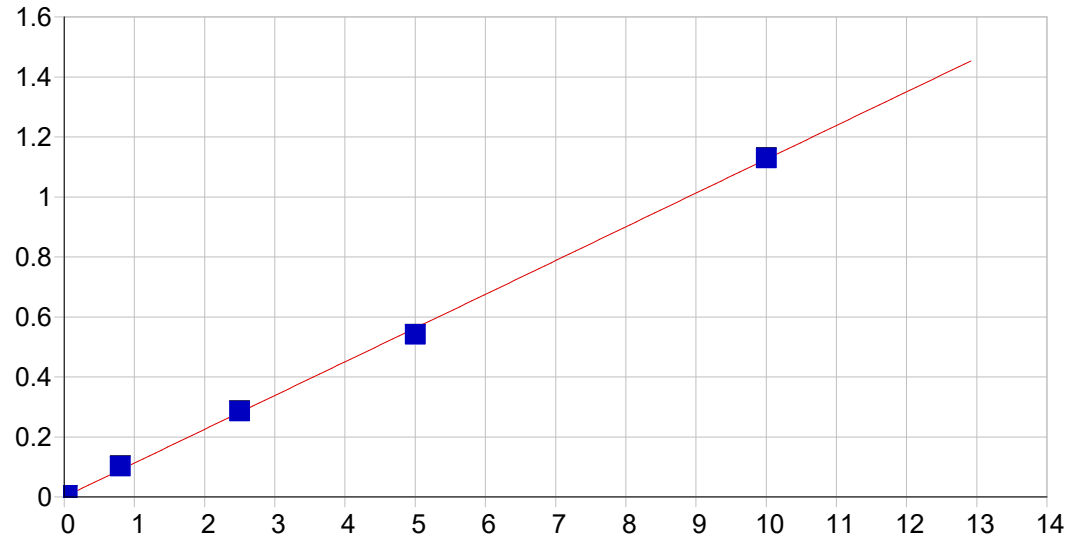
Mo 202.030 {467}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000251	Re-Slope:	1.000000
A1 (Gain):	0.693670	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999094	Status:	OK.
Std Error of Est:	0.002199		
Predicted MDL:	0.000269		
Predicted MQL:	0.000896		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00023	.000	1
S1	.20000	.20070	.001	.348	.13947	.001	1
S3	2.5000	2.5703	.070	2.81	1.7832	.001	1
S4	5.0000	4.8257	-.174	-3.49	3.3477	.004	1
S5	10.000	9.9609	-.039	-.391	6.9098	.016	1
S2	.80000	.94239	.142	17.8	.65396	.002	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



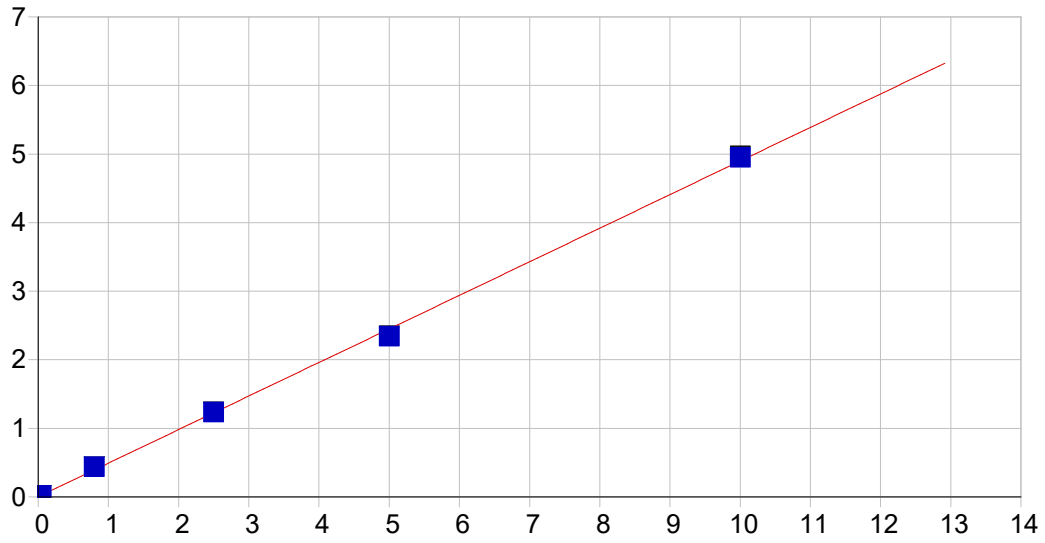
Sn 189.989 {478}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000192	Re-Slope:	1.000000
A1 (Gain):	0.112508	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999348	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.000786		
Predicted MQL:	0.002621		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00019	.000	1
S1	.04000	.03886	-.001	-2.84	.00456	.000	1
S3	2.5000	2.5409	.041	1.64	.28578	.001	1
S4	5.0000	4.8121	-.188	-3.76	.54102	.001	1
S5	10.000	10.035	.035	.350	1.1281	.002	1
S2	.80000	.91318	.113	14.1	.10284	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



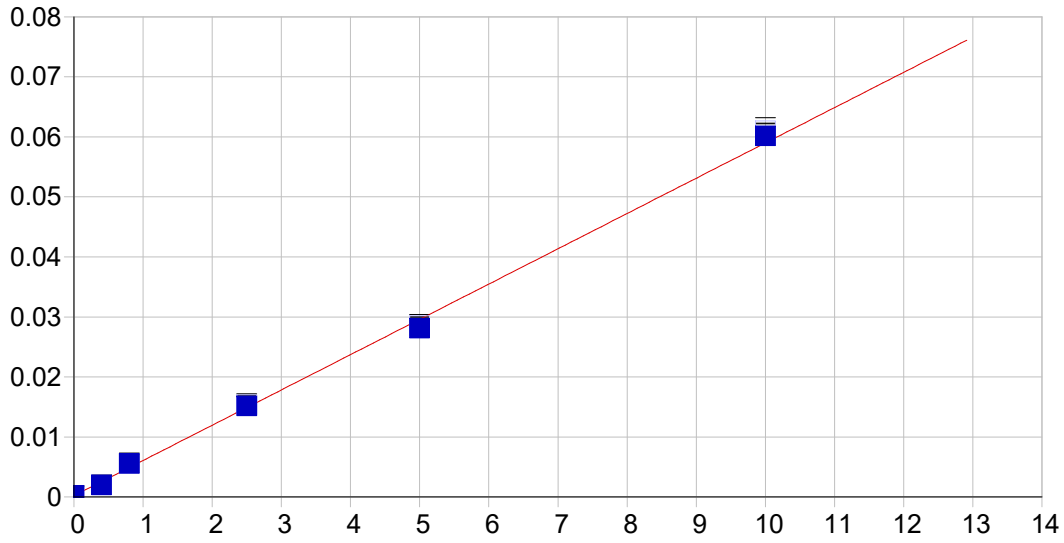
Ti 336.121 {100}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002113	Re-Slope:	1.000000
A1 (Gain):	0.489586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999386	Status:	OK.
Std Error of Est:	0.000569		
Predicted MDL:	0.000651		
Predicted MQL:	0.002170		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00211	.000	1
S1	.04000	.03818	-.002	-4.54	.02079	.000	1
S3	2.5000	2.5175	.018	.701	1.2342	.002	1
S4	5.0000	4.7791	-.221	-4.42	2.3410	.006	1
S5	10.000	10.110	.110	1.10	4.9501	.018	1
S2	.80000	.89524	.095	11.9	.44027	.001	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



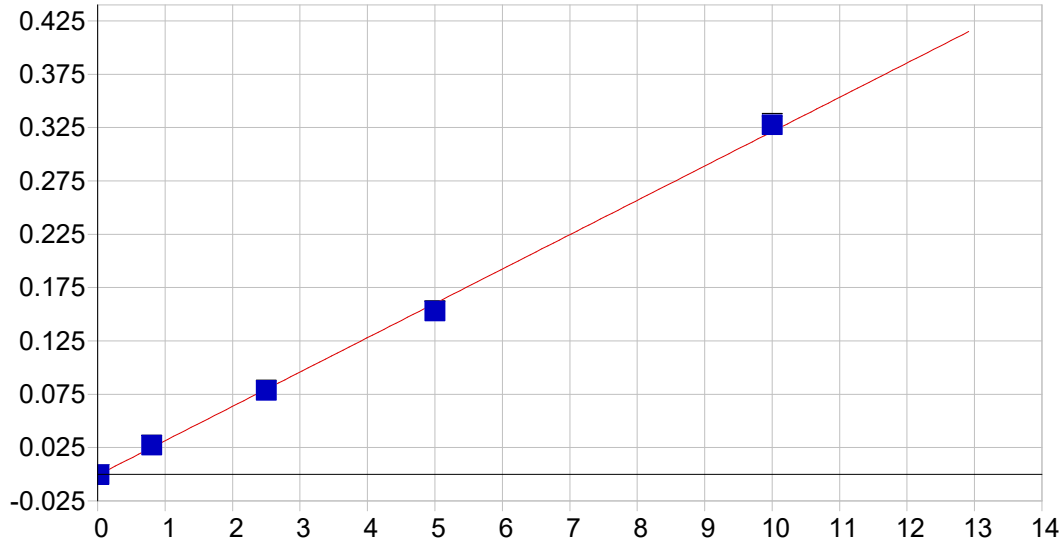
Si 288.158 {117}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000187	Re-Slope:	1.000000
A1 (Gain):	0.005881	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998612	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.007019		
Predicted MQL:	0.023397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00019	.000	1
S1	.40000	.30767	-.092	-23.1	.00200	.000	1
S3	2.5000	2.5407	.041	1.63	.01535	.000	1
S4	5.0000	4.7469	-.253	-5.06	.02855	.000	1
S5	10.000	10.194	.194	1.94	.06102	.000	1
S2	.80000	.90949	.109	13.7	.00561	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



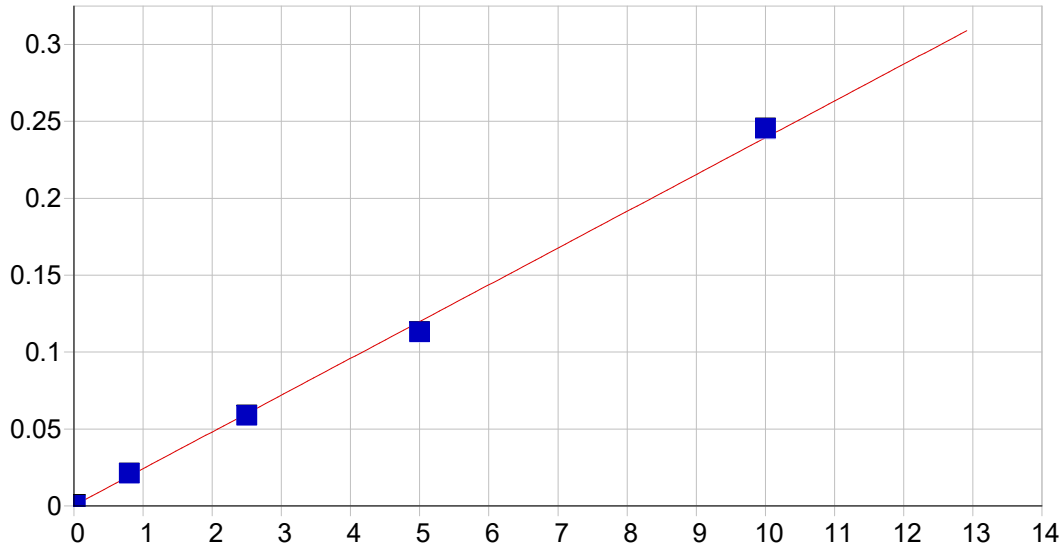
P 177.495 {490}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000792	Re-Slope:	1.000000
A1 (Gain):	0.032196	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999434	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.002482		
Predicted MQL:	0.008272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00079	.000	1
S1	.02000	.01668	-.003	-16.6	-.00025	.000	1
S3	2.5000	2.4631	-.037	-1.48	.07850	.000	1
S4	5.0000	4.7742	-.226	-4.52	.15289	.000	1
S5	10.000	10.200	.200	2.00	.32756	.001	1
S2	.80000	.86603	.066	8.25	.02709	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



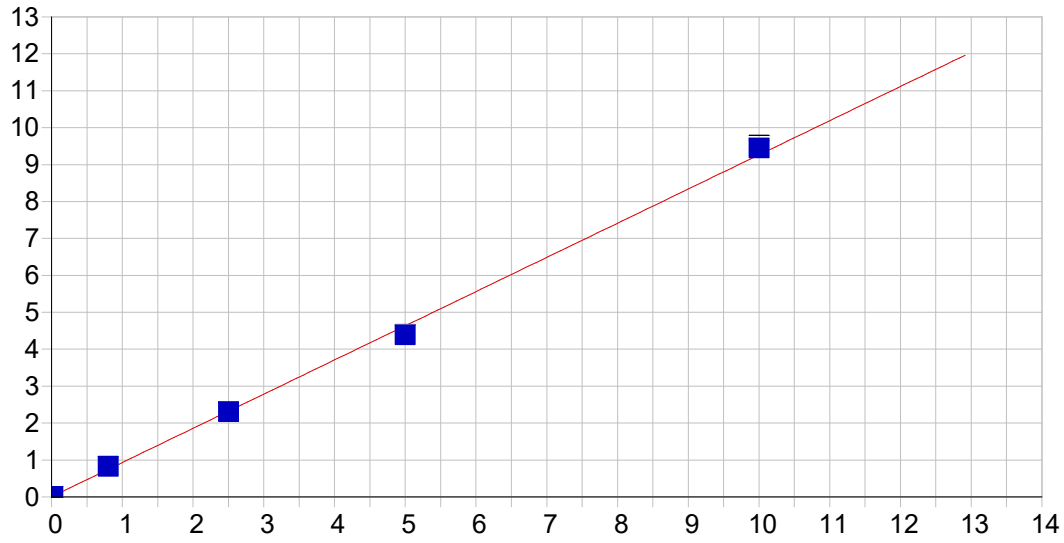
S 182.034 {485}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000296	Re-Slope:	1.000000
A1 (Gain):	0.023907	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999155	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.003387		
Predicted MQL:	0.011290		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00030	.000	1
S1	.02000	.01697	-.003	-15.2	.00068	.000	1
S3	2.5000	2.4512	-.049	-1.95	.05874	.000	1
S4	5.0000	4.7194	-.281	-5.61	.11281	.000	1
S5	10.000	10.257	.257	2.57	.24489	.000	1
S2	.80000	.87517	.075	9.40	.02117	.000	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



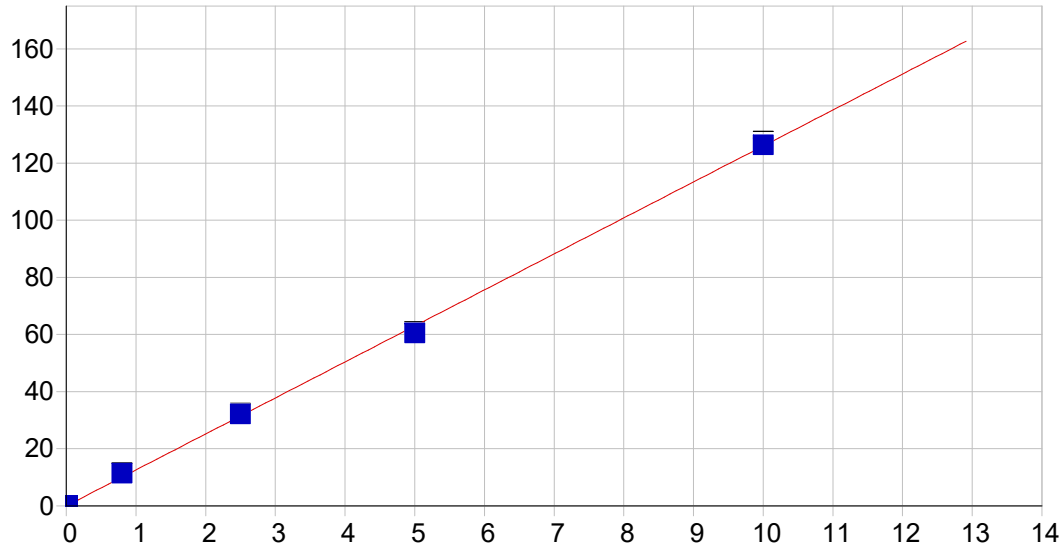
Li 670.784 { 50}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005605	Re-Slope:	1.000000
A1 (Gain):	0.925850	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999277	Status:	OK.
Std Error of Est:	0.000826		
Predicted MDL:	0.001001		
Predicted MQL:	0.003338		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00561	.000	1
S5	10.000	10.202	.202	2.02	9.4591	.070	1
S4	5.0000	4.7352	-.265	-5.30	4.3938	.012	1
S3	2.5000	2.4834	-.017	-.662	2.3070	.011	1
S1	.02000	.01852	-.001	-7.40	.02309	.001	1
S2	.80000	.88133	.081	10.2	.82225	.006	1

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



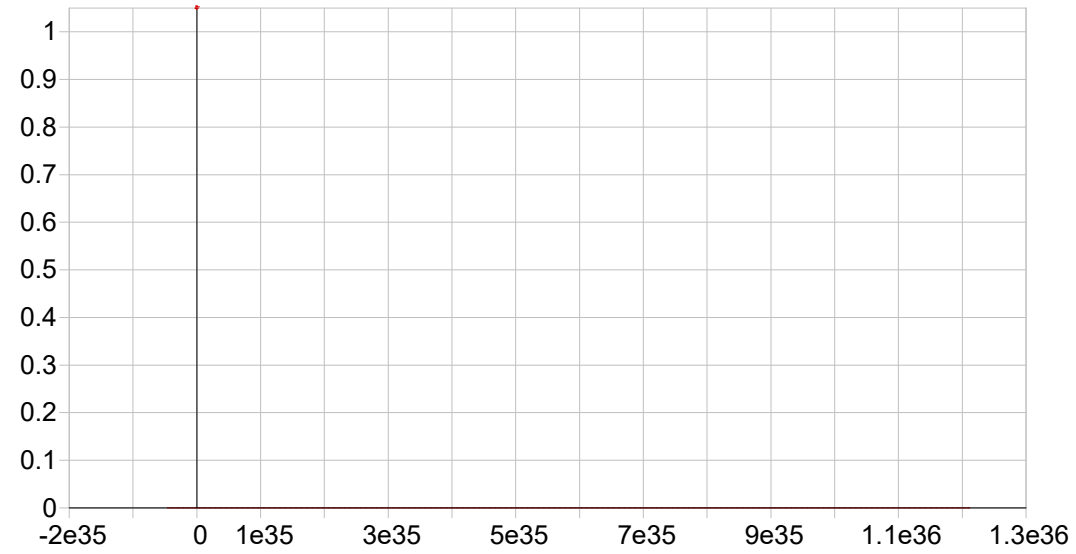
Sr 407.771 { 83}

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000462	Re-Slope:	1.000000
A1 (Gain):	12.601036	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999346	Status:	OK.
Std Error of Est:	0.010692		
Predicted MDL:	0.000043		
Predicted MQL:	0.000142		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00044	.000	1
S1	.02000	.01910	-.001	-4.51	.24237	.002	1
S3	2.5000	2.5552	.055	2.21	32.230	.219	1
S4	5.0000	4.8044	-.196	-3.91	60.604	.378	1
S5	10.000	10.032	.032	.317	126.54	1.17	1
S2	.80000	.90957	.110	13.7	11.472	.045	1

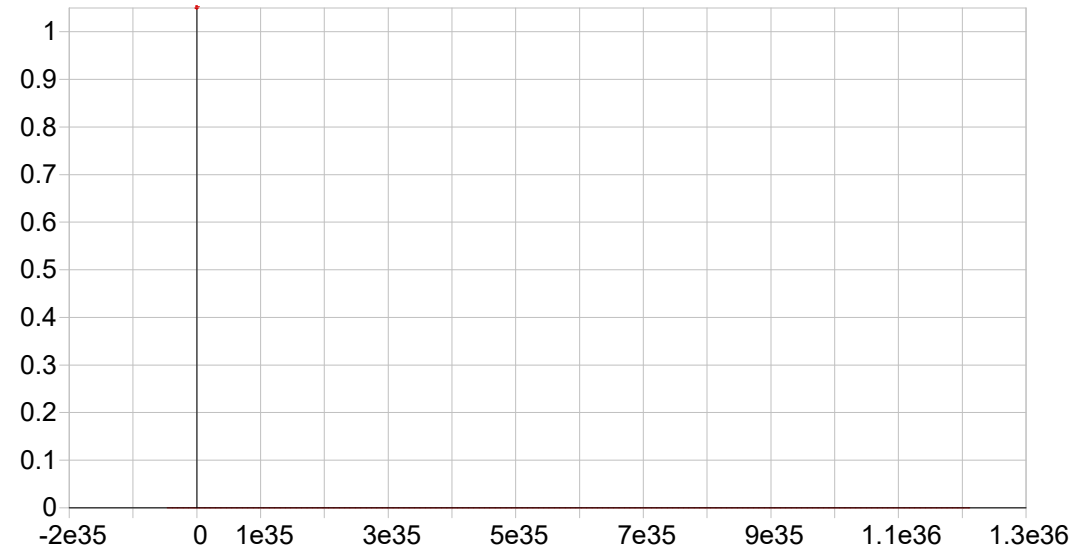
Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



Y 224.306 {450}*

Date of Fit:	1/28/2025 12:07:57	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



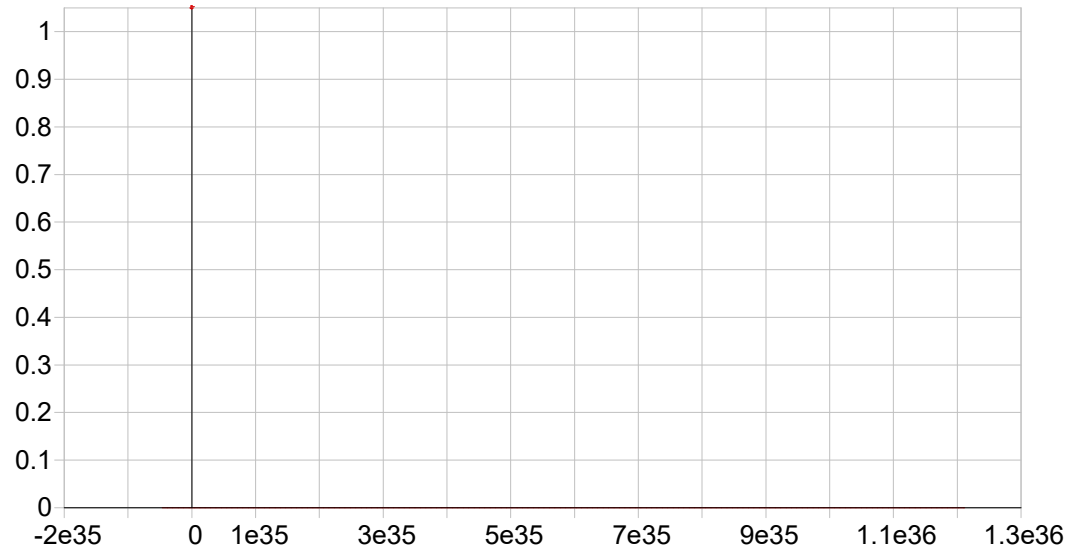
Y 360.073 { 94}*

Date of Fit:	<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:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



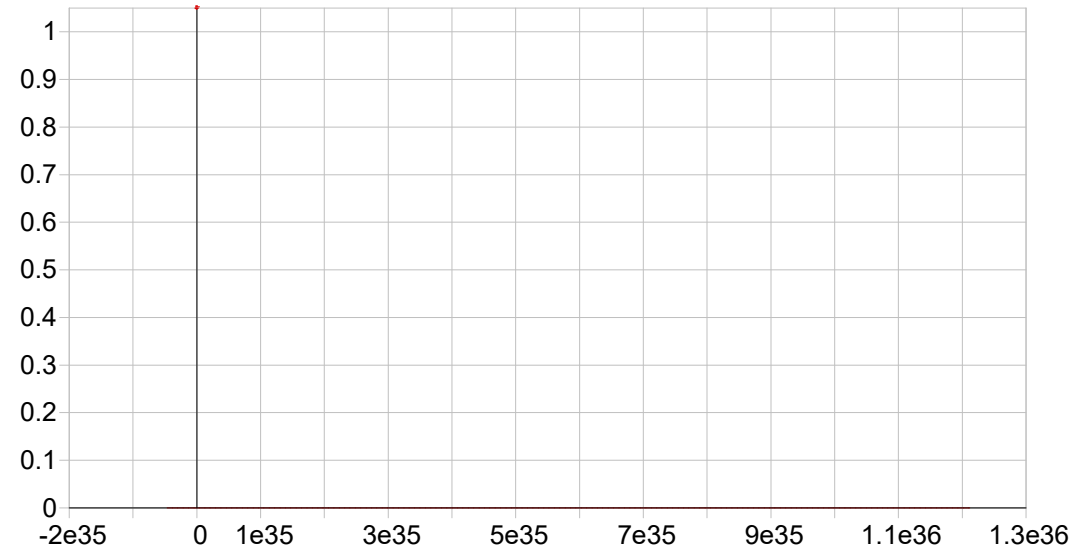
Y 371.030 { 91}*

Date of Fit:	<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

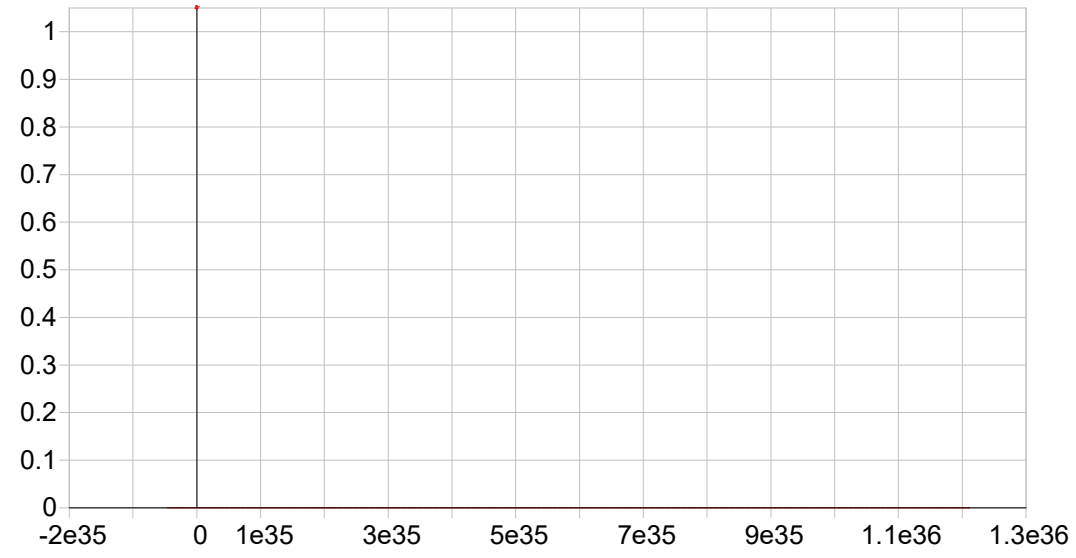
Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457



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	
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	

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

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:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S0 Acquired: 1/28/2025 11:25:54 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	-.00006	-.00021	-.00035	.00029	.00039	.00002	.04021	-.00038
Stddev	.00002	.00011	.00037	.00014	.00015	.00029	.00191	.00003
%RSD	39.356	50.794	104.73	47.142	37.734	1229.8	4.7626	8.3936
#1	-.00003	-.00021	-.00002	.00023	.00054	-.00028	.04157	-.00035
#2	-.00006	-.00010	-.00075	.00019	.00037	.00029	.03802	-.00041
#3	-.00008	-.00031	-.00028	.00045	.00025	.00006	.04103	-.00039

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	.00002	.00082	-.00002	.00004	-.00016	.00004	-.00007	-.00011
Stddev	.00009	.00032	.00004	.00004	.00018	.00001	.00019	.00006
%RSD	384.18	39.209	251.84	94.201	110.90	22.974	254.62	51.011
#1	-.00007	.00046	-.00000	.00001	-.00014	.00005	-.00015	-.00014
#2	.00003	.00090	-.00006	.00009	.00001	.00003	-.00022	-.00016
#3	.00011	.00109	.00002	.00003	-.00035	.00004	.00014	-.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	-.00022	-.00141	.00238	-.00006	.00615	.00052	.00162	.00023
Stddev	.00007	.00007	.00012	.00007	.00045	.00021	.00011	.00024
%RSD	32.470	4.9341	4.9484	122.65	7.2529	40.761	7.0559	107.59
#1	-.00015	-.00146	.00232	-.00007	.00603	.00064	.00169	.00007
#2	-.00021	-.00145	.00231	-.00012	.00578	.00028	.00149	.00010
#3	-.00029	-.00133	.00252	.00002	.00665	.00065	.00168	.00051

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	.00019	.00211	.00019	-.00079	.00030	.00561	.00044
Stddev	.00003	.00015	.00002	.00004	.00003	.00020	.00039
%RSD	16.659	7.2795	11.697	4.6537	10.255	3.4975	88.374
#1	.00016	.00194	.00021	-.00079	.00029	.00538	.00027
#2	.00023	.00225	.00016	-.00075	.00027	.00569	.00017
#3	.00019	.00214	.00019	-.00083	.00033	.00575	.00089

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S0 Acquired: 1/28/2025 11:25:54 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	3046.7	62778.	11182.	2138.9	4803.8
Stddev	4.2	903.	107.	21.6	11.0
%RSD	.13637	1.4377	.95606	1.0079	.22957
#1	3046.8	63200.	11179.	2151.4	4801.1
#2	3050.8	61742.	11290.	2114.0	4816.0
#3	3042.5	63392.	11076.	2151.4	4794.4

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S1 Acquired: 1/28/2025 11:30:21 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.00092	.00238	.00240	.00172	.00850	.00750	.35893	.02360
Stddev	.00006	.00005	.00022	.00011	.00030	.00047	.00369	.00033
%RSD	6.6430	2.0079	9.0660	6.3182	3.5048	6.2737	1.0285	1.3944
#1	.00088	.00240	.00215	.00170	.00816	.00712	.35746	.02336
#2	.00089	.00233	.00250	.00162	.00861	.00736	.36313	.02398
#3	.00099	.00242	.00255	.00183	.00872	.00802	.35620	.02347

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	.01243	.10658	.00206	.02293	.01492	.00044	.01172	.03188
Stddev	.00012	.00059	.00004	.00012	.00006	.00002	.00010	.00015
%RSD	.98945	.55133	2.0614	.53643	.39333	4.1881	.84533	.46089
#1	.01233	.10592	.00211	.02279	.01495	.00046	.01171	.03171
#2	.01239	.10681	.00203	.02296	.01495	.00042	.01182	.03199
#3	.01257	.10703	.00204	.02303	.01485	.00045	.01163	.03192

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	.02313	.00092	.03248	.00445	.12867	.01005	.04047	.13947
Stddev	.00018	.00004	.00020	.00019	.00118	.00019	.00007	.00075
%RSD	.78273	4.7071	.62039	4.3698	.91746	1.8717	.18322	.54008
#1	.02296	.00087	.03260	.00467	.12880	.01023	.04042	.13863
#2	.02312	.00095	.03258	.00439	.12743	.01008	.04056	.14010
#3	.02332	.00095	.03224	.00430	.12978	.00985	.04045	.13968

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	.00456	.02079	.00200	-.00025	.00068	.02309	.24237
Stddev	.00004	.00038	.00002	.00005	.00009	.00074	.00190
%RSD	.79788	1.8395	1.0421	19.477	12.909	3.2218	.78339
#1	.00454	.02058	.00202	-.00021	.00061	.02238	.24185
#2	.00454	.02123	.00198	-.00024	.00078	.02387	.24448
#3	.00460	.02056	.00201	-.00031	.00065	.02301	.24079

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S1 Acquired: 1/28/2025 11:30:21 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2966.6	62484.	11728.	2115.5	4603.3
Stddev	5.6	354.	43.	5.7	5.4
%RSD	.18784	.56622	.36463	.27126	.11735
#1	2970.1	62347.	11729.	2122.1	4609.5
#2	2960.2	62219.	11685.	2111.9	4599.5
#3	2969.5	62886.	11770.	2112.5	4600.9

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S2 Acquired: 1/28/2025 11:34:47 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.03820	.06030	.20680	.06572	.14863	.13271	6.0201	.18950
Stddev	.00019	.00011	.00139	.00037	.00050	.00044	.0302	.00060
%RSD	.48858	.18831	.67345	.56464	.33419	.32904	.50222	.31686
#1	.03836	.06043	.20670	.06530	.14807	.13321	6.0544	.18925
#2	.03800	.06025	.20546	.06584	.14878	.13241	6.0086	.19018
#3	.03824	.06022	.20824	.06601	.14903	.13250	5.9973	.18906

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	.94663	.25144	.04003	.36034	.16799	.00455	.26584	.06900
Stddev	.00307	.00065	.00012	.00108	.00058	.00002	.00097	.00056
%RSD	.32456	.25987	.29314	.30092	.34461	.38743	.36432	.80805
#1	.94551	.25099	.03999	.35992	.16751	.00453	.26667	.06836
#2	.94427	.25219	.03993	.35952	.16782	.00457	.26478	.06939
#3	.95010	.25115	.04016	.36157	.16863	.00456	.26608	.06924

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	.27596	.05224	.07257	.05586	1.5108	.02286	.35773	.65396
Stddev	.00087	.00009	.00062	.00011	.0051	.00012	.00094	.00227
%RSD	.31366	.16674	.86001	.20079	.33818	.51875	.26343	.34763
#1	.27602	.05215	.07329	.05583	1.5113	.02288	.35707	.65228
#2	.27506	.05224	.07223	.05577	1.5157	.02273	.35881	.65305
#3	.27679	.05232	.07220	.05599	1.5055	.02297	.35731	.65655

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	.10284	.44027	.00561	.02709	.02117	.82225	11.472
Stddev	.00048	.00148	.00003	.00006	.00007	.00551	.045
%RSD	.46908	.33538	.54293	.23628	.31216	.66970	.39002
#1	.10272	.44141	.00558	.02714	.02113	.82808	11.524
#2	.10243	.43860	.00564	.02702	.02125	.82154	11.448
#3	.10337	.44079	.00560	.02710	.02113	.81714	11.444

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S2 Acquired: 1/28/2025 11:34:47 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2972.9	61548.	11691.	2065.0	4582.5
Stddev	7.5	218.	36.	9.6	12.0
%RSD	.25076	.35353	.31045	.46563	.26153
#1	2980.0	61777.	11732.	2065.1	4587.1
#2	2973.5	61344.	11662.	2055.4	4591.5
#3	2965.2	61523.	11680.	2074.6	4568.9

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S3 Acquired: 1/28/2025 11:38:58 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.10512	.16438	.57460	.17919	.40679	.37410	16.871	.53572
Stddev	.00017	.00061	.00018	.00018	.00077	.00107	.099	.00197
%RSD	.16102	.36855	.03174	.10308	.19021	.28731	.58688	.36763
#1	.10518	.16487	.57445	.17940	.40601	.37368	16.757	.53717
#2	.10492	.16370	.57456	.17907	.40679	.37532	16.918	.53652
#3	.10525	.16457	.57481	.17909	.40756	.37330	16.938	.53348

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	2.6403	.69191	.10979	.99943	.45662	.01239	.74762	.19532
Stddev	.0035	.00458	.00014	.00143	.00050	.00006	.00138	.00142
%RSD	.13339	.66245	.13044	.14350	.10993	.51250	.18501	.72607
#1	2.6363	.69129	.10978	.99778	.45625	.01233	.74678	.19608
#2	2.6416	.69677	.10965	1.0004	.45642	.01240	.74922	.19619
#3	2.6430	.68766	.10994	1.0001	.45719	.01245	.74687	.19369

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	.76564	.14419	.19960	.15782	4.0461	.06124	1.0093	1.7832
Stddev	.00152	.00038	.00200	.00046	.0117	.00011	.0038	.0007
%RSD	.19807	.26559	.99961	.29315	.28845	.18027	.37568	.04157
#1	.76401	.14438	.19765	.15753	4.0483	.06132	1.0132	1.7825
#2	.76589	.14375	.19952	.15835	4.0336	.06111	1.0090	1.7831
#3	.76701	.14444	.20164	.15757	4.0566	.06128	1.0057	1.7840

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	.28578	1.2342	.01535	.07850	.05874	2.3070	32.230
Stddev	.00068	.0020	.00016	.00041	.00019	.0112	.219
%RSD	.23885	.15968	1.0418	.51767	.32277	.48512	.68037
#1	.28505	1.2324	.01519	.07805	.05890	2.2956	32.484
#2	.28588	1.2363	.01535	.07861	.05853	2.3180	32.103
#3	.28640	1.2339	.01551	.07883	.05879	2.3073	32.105

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S3 Acquired: 1/28/2025 11:38:58 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2957.4	61551.	11419.	2056.7	4449.3
Stddev	3.2	115.	62.	5.7	6.6
%RSD	.10704	.18661	.53861	.27768	.14943
#1	2960.8	61534.	11369.	2060.9	4457.0
#2	2956.9	61674.	11402.	2059.1	4446.3
#3	2954.5	61446.	11488.	2050.2	4444.7

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S4 Acquired: 1/28/2025 11:43:20 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.19823	.30978	1.0802	.33587	.76420	.71156	32.092	1.0242
Stddev	.00049	.00060	.0015	.00048	.00214	.00108	.135	.0039
%RSD	.24653	.19441	.14340	.14253	.27942	.15169	.42146	.38402
#1	.19796	.31040	1.0819	.33567	.76335	.71185	32.218	1.0249
#2	.19793	.30920	1.0798	.33553	.76262	.71037	32.109	1.0277
#3	.19879	.30974	1.0789	.33642	.76663	.71247	31.949	1.0200

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	5.0243	1.3094	.20382	1.9035	.84869	.02308	1.4083	.37340
Stddev	.0062	.0044	.00029	.0011	.00042	.00005	.0053	.00072
%RSD	.12333	.33326	.14291	.05665	.04893	.22751	.38014	.19269
#1	5.0269	1.3143	.20354	1.9039	.84858	.02303	1.4138	.37403
#2	5.0173	1.3081	.20412	1.9023	.84834	.02308	1.4080	.37262
#3	5.0289	1.3058	.20380	1.9044	.84915	.02314	1.4031	.37356

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	1.4446	.27246	.37253	.29937	7.5935	.11391	1.9400	3.3477
Stddev	.0012	.00037	.00070	.00154	.0174	.00021	.0087	.0044
%RSD	.08204	.13644	.18668	.51420	.22898	.18430	.44844	.13226
#1	1.4438	.27207	.37206	.30115	7.6084	.11399	1.9475	3.3499
#2	1.4441	.27281	.37220	.29845	7.5977	.11407	1.9421	3.3426
#3	1.4460	.27251	.37333	.29851	7.5744	.11367	1.9305	3.3506

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	.54102	2.3410	.02855	.15289	.11281	4.3938	60.604
Stddev	.00080	.0065	.00019	.00044	.00013	.0116	.378
%RSD	.14825	.27703	.66878	.28616	.11364	.26399	.62325
#1	.54180	2.3482	.02848	.15291	.11285	4.4067	61.030
#2	.54105	2.3391	.02840	.15245	.11267	4.3843	60.310
#3	.54020	2.3356	.02876	.15332	.11292	4.3905	60.472

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S4 Acquired: 1/28/2025 11:43:20 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2888.6	60037.	10931.	1997.4	4265.2
Stddev	4.2	119.	35.	2.2	4.1
%RSD	.14679	.19740	.32401	.11160	.09523
#1	2886.3	60169.	10898.	1995.4	4261.8
#2	2893.5	60002.	10928.	1997.0	4269.7
#3	2886.1	59940.	10968.	1999.8	4264.2

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S5 Acquired: 1/28/2025 11:47:40 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.41597	.63785	2.2457	.70530	1.6080	1.5306	67.532	2.1135
Stddev	.00097	.00431	.0026	.00143	.0059	.0051	.452	.0164
%RSD	.23339	.67614	.11398	.20222	.36384	.33116	.66958	.77515
#1	.41496	.64153	2.2474	.70389	1.6016	1.5264	68.049	2.1322
#2	.41690	.63891	2.2427	.70674	1.6094	1.5362	67.210	2.1063
#3	.41606	.63310	2.2468	.70528	1.6130	1.5291	67.338	2.1020

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	10.477	2.7568	.41360	3.9699	1.7459	.04727	2.9332	.79693
Stddev	.010	.0102	.00131	.0036	.0059	.00020	.0125	.00446
%RSD	.09664	.37116	.31571	.09148	.33960	.41651	.42663	.55939
#1	10.488	2.7686	.41503	3.9719	1.7395	.04707	2.9452	.80192
#2	10.468	2.7517	.41329	3.9657	1.7469	.04747	2.9341	.79333
#3	10.474	2.7501	.41248	3.9721	1.7513	.04728	2.9202	.79555

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	3.0063	.55743	.78664	.63414	15.548	.23981	4.0070	6.9098
Stddev	.0023	.00101	.00606	.00176	.057	.00146	.0211	.0160
%RSD	.07660	.18195	.77088	.27797	.36679	.60769	.52742	.23178
#1	3.0050	.55858	.78257	.63340	15.587	.23885	4.0312	6.8913
#2	3.0049	.55704	.79361	.63616	15.482	.24149	3.9974	6.9187
#3	3.0089	.55667	.78373	.63287	15.575	.23909	3.9924	6.9194

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	1.1281	4.9501	.06102	.32756	.24489	9.4591	126.54
Stddev	.0018	.0177	.00050	.00125	.00015	.0698	1.17
%RSD	.15537	.35712	.81444	.38187	.06024	.73734	.92304
#1	1.1300	4.9463	.06046	.32878	.24505	9.4185	127.27
#2	1.1275	4.9693	.06123	.32760	.24489	9.5396	125.19
#3	1.1266	4.9346	.06138	.32628	.24475	9.4190	127.15

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: S5 Acquired: 1/28/2025 11:47:40 Type: Cal
Method: NON EPA-6010-200.7(v2635) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2772.4	58967.	10589.	1892.8	4020.5
Stddev	11.0	152.	81.	13.3	7.3
%RSD	.39791	.25736	.76040	.70497	.18082
#1	2784.5	58793.	10496.	1891.1	4026.2
#2	2769.8	59074.	10643.	1906.8	4023.0
#3	2762.9	59035.	10627.	1880.3	4012.3

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICV01 Acquired: 1/28/2025 12:03:41 Type: Unk
Method: NON EPA-6010-200.7(v2635) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9901819	1.002333	.9842256	1.010291	.9931301	2.362089
Stddev	.0089072	.003622	.0009151	.005116	.0040607	.006057
%RSD	.8995492	.3613704	.0929774	.5064373	.4088753	.2564131
#1	.9897851	.999698	.9832065	1.004486	.9888330	2.365939
#2	.9814797	1.000838	.9849770	1.012245	.9936536	2.365221
#3	.9992808	1.006463	.9844933	1.014144	.9969036	2.355108

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4698531	.4748678	.4858500	9.339306	.5199939	.4889186
Stddev	.0008354	.0018444	.0003383	.008681	.0011005	.0001853
%RSD	.1778008	.3883968	.0696304	.0929500	.2116452	.0379018
#1	.4704588	.4728284	.4854749	9.331365	.5203560	.4887047
#2	.4702004	.4764189	.4859431	9.337980	.5208678	.4890194
#3	.4689001	.4753562	.4861319	9.348574	.5187579	.4890315

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5108161	9.752763	.4733212	5.482543	.4930912	.2500137
Stddev	.0012592	.062566	.0016681	.026487	.0007252	.0002820
%RSD	.2465156	.6415242	.3524220	.4831095	.1470785	.1127864
#1	.5102096	9.770984	.4740754	5.498637	.4922874	.2498283
#2	.5099749	9.804197	.4744789	5.497020	.4932898	.2498747
#3	.5122638	9.683109	.4714092	5.451973	.4936964	.2503382

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.178059	.4731596	.9998905	9.493071	F -.014950	F -.000442
Stddev	.046522	.0020756	.0060855	.065259	.000103	.000157
%RSD	.5068855	.4386774	.6086180	.6874399	.6868370	35.55859
#1	9.224710	.4711232	1.000575	9.562914	-.014865	-.000381
#2	9.177801	.4752724	.993492	9.433651	-.014922	-.000621
#3	9.131667	.4730833	1.005605	9.482647	-.015064	-.000324

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICV01 Acquired: 1/28/2025 12:03:41 Type: Unk
Method: NON EPA-6010-200.7(v2635) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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 -.001780	F -.000029	F -.019784	F -.000675	F -.000019	F -.004078
Stddev	.000452	.000518	.004125	.000730	.002396	.000590
%RSD	25.41108	1811.881	20.84884	108.0366	12857.03	14.45952
#1	-.001971	.000503	-.015147	.000090	.000359	-.003419
#2	-.001264	-.000056	-.023045	-.001363	.002166	-.004258
#3	-.002106	-.000532	-.021161	-.000753	-.002581	-.004557

Elem	Sr4077
Units	ppm
Avg	F -.008657
Stddev	.000070
%RSD	.8117942
#1	-.008664
#2	-.008724
#3	-.008584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2944.637	60958.19	11741.84	1999.188	4575.777
Stddev	4.224	205.78	27.51	9.565	5.651
%RSD	.1434619	.3375747	.2342800	.4784670	.1234938
#1	2940.667	60925.40	11768.91	1992.849	4569.314
#2	2949.076	60770.78	11713.91	2010.191	4578.228
#3	2944.168	61178.40	11742.69	1994.523	4579.788

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LLICV01 Acquired: 1/28/2025 12:08:48 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227150	.0408476	.0118325	.0211662	.0506252	.0940760
Stddev	.0011764	.0006502	.0005937	.0024260	.0009089	.0025755
%RSD	5.179126	1.591798	5.017852	11.46168	1.795309	2.737635
#1	.0215244	.0410676	.0111640	.0189560	.0497583	.0964070
#2	.0238767	.0413593	.0120351	.0207807	.0515709	.0945097
#3	.0227439	.0401159	.0122984	.0237618	.0505463	.0913112

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0899318	.0056226	.0057815	1.866085	.0100774	.0289085
Stddev	.0001174	.0000483	.0000809	.011052	.0003510	.0001490
%RSD	.1305811	.8586180	1.400010	.5922376	3.483006	.5156056
#1	.0899016	.0056735	.0057442	1.856089	.0096782	.0290674
#2	.0898324	.0055774	.0058744	1.864214	.0102163	.0287717
#3	.0900614	.0056168	.0057259	1.877953	.0103376	.0288864

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215449	.0858071	.0198658	1.966617	.0384043	.0109188
Stddev	.0002848	.0015104	.0001609	.007346	.0000846	.0001392
%RSD	1.321691	1.760225	.8100739	.3735331	.2203275	1.274563
#1	.0212521	.0875155	.0197130	1.971784	.0384267	.0110070
#2	.0218209	.0852567	.0200338	1.969859	.0384754	.0107584
#3	.0215616	.0846491	.0198505	1.958207	.0383107	.0109910

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.780703	.0374886	.0397618	1.915356	.0970361	.2045406
Stddev	.011715	.0009614	.0000752	.036141	.0009470	.0003167
%RSD	.6578876	2.564377	.1892166	1.886918	.9759439	.1548273
#1	1.770850	.0385852	.0397929	1.873714	.0972726	.2041756
#2	1.777602	.0370898	.0398164	1.938559	.0978425	.2047041
#3	1.793657	.0367908	.0396760	1.933794	.0959933	.2047421

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LLICV01 Acquired: 1/28/2025 12:08:48 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0385001	.0370406	F .3119107	F .0159694	F .0158635	.0160937
Stddev	.0005920	.0010993	.0056869	.0006410	.0011919	.0002506
%RSD	1.537697	2.967895	1.823252	4.013731	7.513716	1.557295
#1	.0378625	.0361425	.3138953	.0164608	.0170687	.0163630
#2	.0390324	.0382665	.3054974	.0162030	.0146852	.0160510
#3	.0386053	.0367126	.3163394	.0152444	.0158366	.0158672

Elem	Sr4077
Units	ppm
Avg	.0184744
Stddev	.0000993
%RSD	.5373034
#1	.0183603
#2	.0185411
#3	.0185217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.759	61333.86	11695.03	2001.282	4548.689
Stddev	2.593	251.81	22.19	5.095	4.718
%RSD	.0900429	.4105565	.1897611	.2545931	.1037174
#1	2881.420	61087.14	11712.03	1999.441	4543.876
#2	2876.771	61590.47	11669.92	1997.363	4548.887
#3	2881.086	61323.96	11703.12	2007.042	4553.305

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICB01 Acquired: 1/28/2025 12:21:44 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.002606	.0001293	-.000051	.0006214	-.000189	-.002338	-.000531
Stddev	.004472	.0012691	.001761	.0025442	.000456	.004171	.000112
%RSD	171.6478	981.3303	3459.670	409.4684	241.1518	178.4351	21.09594
#1	.001220	.0011082	.001974	.0008427	-.000640	-.006313	-.000499
#2	-.007523	.0005843	-.000896	-.002026	.000271	.002006	-.000656
#3	-.001514	-.001305	-.001231	.003048	-.000198	-.002707	-.000439

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000727	-.000042	-.010983	.0001225	-.000144	-.000442	-.014125
Stddev	.0000079	.000058	.007645	.0000704	.000235	.000203	.003491
%RSD	10.84344	139.3310	69.60055	57.49448	164.0516	46.00910	24.71559
#1	.0000642	.000024	-.019072	.0001846	.000128	-.000209	-.016410
#2	.0000742	-.000061	-.003878	.0000460	-.000284	-.000584	-.015859
#3	.0000798	-.000087	-.010001	.0001368	-.000275	-.000532	-.010107

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000275	-.006963	-.000385	.0008588	-.028879	.0002899	-.001660
Stddev	.000270	.004254	.000390	.0002888	.006384	.0016712	.000286
%RSD	98.05622	61.09186	101.2366	33.62648	22.10430	576.5676	17.23166
#1	-.000266	-.010750	-.000101	.0010869	-.036151	-.000893	-.001374
#2	-.000010	-.002360	-.000225	.0005341	-.026292	.002202	-.001662
#3	-.000550	-.007778	-.000830	.0009554	-.024196	-.000439	-.001946

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0670240	.0003146	-.000139	-.000238	.0008703	-.008058	-.004333
Stddev	.0080546	.0005017	.000190	.000758	.0002573	.003437	.000923
%RSD	12.01745	159.4888	136.5430	317.9333	29.56813	42.65907	21.30395
#1	.0755045	.0003571	-.000342	.000569	.0011662	-.005891	-.005319
#2	.0594766	-.000207	-.000110	-.000350	.0007463	-.012021	-.004191
#3	.0660910	.000794	.000034	-.000934	.0006985	-.006262	-.003490

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICB01 Acquired: 1/28/2025 12:21:44 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005485	-.003437	-.000034
Stddev	.001675	.001590	.000037
%RSD	30.52929	46.24748	107.4147
#1	-.004122	-.002838	-.000076
#2	-.007354	-.005239	-.000011
#3	-.004979	-.002234	-.000015

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2857.611	59837.55	11748.61	1934.801	4566.027
Stddev	12.581	48.95	51.67	5.366	19.082
%RSD	.4402658	.0818113	.4398240	.2773579	.4179127
#1	2846.936	59826.30	11765.13	1939.247	4548.143
#2	2854.415	59891.15	11690.69	1936.316	4563.822
#3	2871.482	59795.20	11790.00	1928.840	4586.116

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CRI01 Acquired: 1/28/2025 12:26:06 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210012	.0412989	.0121980	.0198657	.0502944	.0951262
Stddev	.0015925	.0008156	.0010179	.0019353	.0005965	.0051952
%RSD	7.582935	1.974933	8.344552	9.741786	1.186104	5.461378
#1	.0227030	.0404054	.0114960	.0211430	.0506289	.0943785
#2	.0195469	.0414878	.0133654	.0176391	.0496056	.0903454
#3	.0207537	.0420035	.0117328	.0208150	.0506486	.1006547

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0854510	.0057471	.0057260	1.840917	.0099482	.0285055
Stddev	.0005055	.0000434	.0000612	.016849	.0002011	.0000954
%RSD	.5915325	.7544700	1.069669	.9152417	2.021139	.3348288
#1	.0850037	.0057604	.0056629	1.841263	.0097270	.0286104
#2	.0853499	.0056987	.0057852	1.823897	.0101200	.0284239
#3	.0859994	.0057823	.0057300	1.857589	.0099977	.0284821

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215341	.0821955	.0195764	1.924734	.0384218	.0108313
Stddev	.0001983	.0025928	.0001506	.025364	.0000821	.0003172
%RSD	.9207693	3.154398	.7691583	1.317792	.2136931	2.928797
#1	.0216142	.0794196	.0197271	1.905070	.0385164	.0108239
#2	.0213084	.0826122	.0194259	1.915769	.0383689	.0111522
#3	.0216799	.0845547	.0195762	1.953363	.0383801	.0105178

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.620989	.0360775	.0399359	1.790463	.0956411	.2031073
Stddev	.003978	.0009077	.0001560	.042369	.0018530	.0004301
%RSD	.2454359	2.515886	.3907360	2.366377	1.937437	.2117364
#1	1.619726	.0358916	.0399264	1.810800	.0946922	.2029164
#2	1.625446	.0370637	.0400964	1.818829	.0944547	.2028057
#3	1.617796	.0352772	.0397848	1.741759	.0977763	.2035997

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CRI01 Acquired: 1/28/2025 12:26:06 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0380876	.0361699	.3066060	.0155231	F .0138654	.0146324
Stddev	.0001626	.0004623	.0015485	.0013618	.0055631	.0002693
%RSD	.4268148	1.278233	.5050277	8.772773	40.12218	1.840500
#1	.0380855	.0365850	.3050615	.0167896	.0176637	.0149317
#2	.0382512	.0362532	.3081583	.0140827	.0164526	.0145558
#3	.0379261	.0356716	.3065982	.0156971	.0074798	.0144097

Elem	Sr4077
Units	ppm
Avg	.0178475
Stddev	.0000102
%RSD	.0570574
#1	.0178396
#2	.0178590
#3	.0178438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2913.228	60826.72	11399.63	1988.596	4602.741
Stddev	2.848	184.48	54.46	4.703	11.859
%RSD	.0977774	.3032910	.4777171	.2365050	.2576539
#1	2911.981	60652.62	11392.22	1989.436	4589.201
#2	2916.487	60807.47	11457.41	1992.823	4611.284
#3	2911.215	61020.08	11349.25	1983.530	4607.738

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICSA01 Acquired: 1/28/2025 12:30:25 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047486	.0109484	.0063060	-.005547	-.003325	243.7370
Stddev	.0069764	.0028143	.0010197	.007374	.001820	.6747
%RSD	146.9144	25.70547	16.16995	132.9437	54.74455	.2768244
#1	.0116784	.0117695	.0055746	-.009787	-.005417	244.3234
#2	.0048411	.0132609	.0074708	-.009821	-.002459	243.8882
#3	-.002274	.0078148	.0058726	.002968	-.002099	242.9996

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048847	.0012862	.0025157	227.2762	.0591506	.0017855
Stddev	.0001776	.0000431	.0001723	.4538	.0000218	.0000392
%RSD	3.636382	3.352663	6.848997	.1996690	.0368757	2.196748
#1	.0049051	.0013353	.0025175	227.3615	.0591433	.0017937
#2	.0050512	.0012547	.0026871	226.7858	.0591334	.0018200
#3	.0046977	.0012685	.0023425	227.6814	.0591752	.0017429

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211458	99.84844	.0116191	245.2829	.0022463	-.000385
Stddev	.0002408	.16531	.0003426	.3439	.0002441	.000246
%RSD	1.138869	.1655647	2.948131	.1402167	10.86521	64.00023
#1	.0213622	99.77745	.0117303	245.1207	.0023393	-.000609
#2	.0208864	99.73049	.0112348	245.0502	.0019694	-.000425
#3	.0211889	100.0374	.0118922	245.6780	.0024301	-.000121

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219570	.0051058	.0032566	.2536581	F -.182345	-.000635
Stddev	.0045858	.0004067	.0002922	.0328256	.001109	.000240
%RSD	20.88548	7.965702	8.973346	12.94087	.6082814	37.84461
#1	.0191732	.0053113	.0029244	.2163623	-.183417	-.000913
#2	.0272499	.0053687	.0033713	.2781615	-.181202	-.000490
#3	.0194479	.0046373	.0034740	.2664503	-.182416	-.000502

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICSA01 Acquired: 1/28/2025 12:30:25 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.003628	-.000215	.0037353	.0001162	-.019645	F -.038120
Stddev	.001472	.000937	.0050349	.0025407	.006529	.000364
%RSD	40.57954	435.4229	134.7927	2186.325	33.23527	.9558326
#1	-.003247	-.000769	.0077900	.0027992	-.018371	-.037931
#2	-.002383	.000867	.0053163	-.000198	-.026718	-.038540
#3	-.005253	-.000744	-.001900	-.002253	-.013847	-.037890

Elem	Sr4077
Units	ppm
Avg	-.006527
Stddev	.000337
%RSD	5.157664
#1	-.006302
#2	-.006366
#3	-.006914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2608.934	53822.85	11251.54	1737.968	3734.314
Stddev	9.955	151.04	25.05	9.517	14.589
%RSD	.3815923	.2806300	.2226248	.5476214	.3906632
#1	2614.906	53966.71	11256.20	1744.041	3745.459
#2	2614.454	53836.30	11273.94	1742.864	3739.681
#3	2597.441	53665.53	11224.49	1726.999	3717.802

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICSAB01 Acquired: 1/28/2025 12:34:49 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1065570	.0969773	.0579861	.0488451	.6299798	244.3103
Stddev	.0088071	.0008212	.0014396	.0042942	.0023781	1.9246
%RSD	8.265118	.8468037	2.482678	8.791505	.3774895	.7877607
#1	.1112070	.0979245	.0596102	.0443456	.6287430	244.2216
#2	.0963996	.0965421	.0568673	.0528994	.6284749	246.2776
#3	.1120646	.0964653	.0574808	.0492903	.6327214	242.4315

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4562732	.4705846	1.008631	224.5185	.5802672	.5048692
Stddev	.0015601	.0036414	.001247	.9462	.0019243	.0001448
%RSD	.3419168	.7738101	.1236190	.4214176	.3316144	.0286805
#1	.4551085	.4692805	1.007584	223.7476	.5788441	.5047021
#2	.4556654	.4746985	1.010010	225.5744	.5824565	.5049466
#3	.4580457	.4677748	1.008297	224.2335	.5795009	.5049588

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5117715	100.0817	.4818302	241.8189	1.005002	.2201384
Stddev	.0005668	.4437	.0026874	1.7255	.001846	.0009609
%RSD	.1107608	.4432903	.5577418	.7135399	.1837193	.4364891
#1	.5115781	99.8174	.4787334	241.0682	1.004470	.2196736
#2	.5124098	99.8337	.4835492	243.7926	1.007056	.2194983
#3	.5113267	100.5939	.4832081	240.5959	1.003480	.2212433

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196269	.4641848	1.076399	.2128614	F -.181242	F -.000885
Stddev	.0055535	.0026867	.000618	.0164175	.003075	.000409
%RSD	28.29544	.5787956	.0574256	7.712772	1.696660	46.27373
#1	.0259180	.4655202	1.075785	.2282879	-.181072	-.001227
#2	.0175574	.4659421	1.077021	.1956061	-.184399	-.000996
#3	.0154053	.4610921	1.076391	.2146901	-.178256	-.000431

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: ICSAB01 Acquired: 1/28/2025 12:34:49 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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 -.003919	F -.001182	F -.005722	F -.001366	F -.021535	F -.037982
Stddev	.001434	.000517	.005540	.001321	.004057	.000153
%RSD	36.57800	43.75140	96.83131	96.67866	18.83858	.4018005
#1	-.004500	-.001517	-.007933	-.002705	-.016953	-.037932
#2	-.002286	-.001444	-.009814	-.000064	-.024670	-.038154
#3	-.004971	-.000587	.000583	-.001329	-.022982	-.037861

Elem	Sr4077
Units	ppm
Avg	F -.007272
Stddev	.000270
%RSD	3.708697
#1	-.007096
#2	-.007138
#3	-.007583

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2565.321	52959.84	11344.04	1694.209	3696.458
Stddev	3.274	139.49	84.32	5.336	.963
%RSD	.1276162	.2633873	.7433289	.3149709	.0260397
#1	2565.496	53118.13	11378.70	1697.777	3696.827
#2	2568.504	52906.47	11247.90	1696.775	3697.181
#3	2561.964	52854.91	11405.50	1688.074	3695.365

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV01 Acquired: 1/28/2025 12:39:04 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.986659	4.990793	4.939536	5.085544	5.085713	9.668941	9.081663
Stddev	.028913	.043989	.013096	.029711	.030045	.033025	.073380
%RSD	.5797981	.8813993	.2651278	.5842304	.5907801	.3415552	.8079993
#1	4.975530	4.964926	4.934545	5.069238	5.070031	9.705307	9.112495
#2	4.964966	4.965869	4.929670	5.067555	5.066753	9.660698	9.134596
#3	5.019483	5.041584	4.954394	5.119838	5.120355	9.640819	8.997898

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2322827	2.439920	23.26292	1.007426	2.427178	1.262939	4.832716
Stddev	.0009253	.005744	.05511	.002509	.007846	.006146	.012178
%RSD	.3983317	.2354267	.2369148	.2490072	.3232624	.4866519	.2519955
#1	.2329071	2.440094	23.30326	1.009309	2.429004	1.261006	4.845819
#2	.2327213	2.434090	23.28537	1.004578	2.418580	1.257993	4.830583
#3	.2312197	2.445575	23.20012	1.008390	2.433950	1.269820	4.821744

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.392569	23.12475	2.452255	1.222917	23.66080	2.356555	2.513309
Stddev	.015090	.05621	.005869	.002022	.10926	.006056	.010380
%RSD	.6307123	.2430588	.2393130	.1653670	.4617655	.2569679	.4130036
#1	2.404479	23.09730	2.453218	1.225251	23.77707	2.359523	2.515889
#2	2.397629	23.18940	2.445964	1.221710	23.56026	2.360555	2.501883
#3	2.375599	23.08753	2.457582	1.221789	23.64508	2.349588	2.522156

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.08888	4.572067	5.031224	4.925921	4.655703	5.104991	4.860578
Stddev	.10553	.022596	.026796	.012792	.020137	.017735	.021364
%RSD	.4381005	.4942138	.5325960	.2596884	.4325185	.3474007	.4395425
#1	24.17614	4.586245	5.019452	4.927739	4.675145	5.086580	4.861057
#2	23.97159	4.583946	5.012328	4.912317	4.657026	5.106430	4.838978
#3	24.11892	4.546009	5.061890	4.937707	4.634937	5.121962	4.881699

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV01 Acquired: 1/28/2025 12:39:04 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.911516	4.657926	4.665236
Stddev	.016530	.026796	.021467
%RSD	.3365586	.5752759	.4601474
#1	4.899294	4.687894	4.685078
#2	4.904931	4.649611	4.668183
#3	4.930324	4.636274	4.642449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2748.993	58052.71	11314.78	1828.799	4132.121
Stddev	10.398	112.74	56.53	6.765	9.629
%RSD	.3782514	.1941949	.4996404	.3699123	.2330246
#1	2751.101	57951.82	11276.30	1825.802	4127.604
#2	2758.175	58174.40	11288.37	1836.545	4143.178
#3	2737.702	58031.91	11379.69	1824.051	4125.581

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB01 Acquired: 1/28/2025 12:43:15 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.002765	.0008957	.0010934	.0016228	.0005498	-.001062	-.000725
Stddev	.000772	.0025301	.0006105	.0011129	.0006056	.002230	.000583
%RSD	27.91606	282.4707	55.83781	68.58034	110.1465	210.0747	80.45262
#1	-.002217	-.001825	.0009517	.0003550	.0006881	.000491	-.000673
#2	-.003648	.003178	.0005662	.0020750	-.000113	-.000059	-.000170
#3	-.002430	.001334	.0017623	.0024385	.001074	-.003617	-.001333

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000860	-.000037	-.006434	-.000007	.0001426	-.000355	-.011749
Stddev	.0000369	.000062	.003668	.000112	.0002182	.000378	.004741
%RSD	42.97685	168.6354	57.01475	1512.732	153.0216	106.4993	40.35004
#1	.0000704	-.000074	-.008610	.000069	.0003936	-.000739	-.016365
#2	.0000594	-.000071	-.008492	.000044	.0000361	-.000345	-.011991
#3	.0001282	.000035	-.002199	-.000136	-.000002	.000018	-.006892

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000122	-.015664	.0001626	.0009667	-.031284	.0007218	-.001413
Stddev	.000180	.002024	.0001819	.0001407	.007655	.0013589	.000245
%RSD	147.8661	12.92030	111.8829	14.55213	24.46866	188.2610	17.36491
#1	-.000321	-.014820	.0000308	.0008096	-.037605	.0020245	-.001541
#2	-.000072	-.017973	.0000868	.0010094	-.033474	-.000687	-.001568
#3	.000028	-.014199	.0003702	.0010811	-.022773	.000828	-.001130

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156480	.0035458	-.000242	.0000475	.0007145	-.008758	-.002945
Stddev	.0212297	.0006013	.000341	.0003443	.0006602	.000977	.002102
%RSD	135.6708	16.95961	141.1641	725.1653	92.40495	11.15308	71.36067
#1	-.006308	.0036717	-.000554	-.000350	.0005164	-.009241	-.003188
#2	.036069	.0040742	.000122	.000242	.0001760	-.007634	-.000732
#3	.017183	.0028914	-.000293	.000251	.0014511	-.009399	-.004914

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB01 Acquired: 1/28/2025 12:43:15 Type: Unk
Method: NON EPA-6010-200.7(v2636) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003141	-.003168	.0000266
Stddev	.002483	.000578	.0000098
%RSD	79.03869	18.24782	36.76288
#1	-.002107	-.003836	.0000348
#2	-.005975	-.002829	.0000292
#3	-.001343	-.002841	.0000158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.918	60855.18	11665.59	1948.806	4575.673
Stddev	5.854	281.82	82.30	6.038	11.447
%RSD	.2043241	.4631031	.7054780	.3098524	.2501686
#1	2868.648	60871.13	11623.08	1942.138	4580.401
#2	2867.935	60565.72	11613.25	1953.905	4583.999
#3	2858.171	61128.69	11760.45	1950.374	4562.620

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1076-05 Acquired: 1/28/2025 12:52:10 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004584	-.008879	15.99104	.0028575	.0142284	.0198537	.1733415
Stddev	.001980	.001877	.04385	.0038436	.0009054	.0042376	.0006475
%RSD	43.19671	21.13671	.2742089	134.5070	6.363256	21.34431	.3735307
#1	-.002300	-.011002	16.02435	.0046326	.0135751	.0247421	.1728547
#2	-.005811	-.007442	15.94136	-.001553	.0152619	.0172220	.1730934
#3	-.005641	-.008194	16.00742	.005493	.0138481	.0175970	.1740763

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000093	.0011059	39.76339	.0007432	.0084379	.1012678	2.387657
Stddev	.000036	.0000414	.19042	.0003684	.0001560	.0004152	.014916
%RSD	38.25058	3.740746	.4788772	49.57626	1.848425	.4099850	.6247115
#1	-.000107	.0010685	39.54551	.0004786	.0085286	.1017360	2.404250
#2	-.000120	.0010988	39.84668	.0005870	.0082578	.1011231	2.375361
#3	-.000053	.0011503	39.89796	.0011640	.0085272	.1009444	2.383360

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4868432	2.247141	.0059650	.0007447	325.1910	.0007393	.5798384
Stddev	.0005370	.022975	.0002138	.0001830	4.4113	.0010265	.0017657
%RSD	.1102960	1.022395	3.584086	24.57926	1.356530	138.8489	.3045132
#1	.4863330	2.221318	.0060709	.0005361	325.3218	-.000090	.5818065
#2	.4867931	2.254792	.0057189	.0008784	329.5356	.001887	.5793154
#3	.4874035	2.265315	.0061051	.0008196	320.7158	.000421	.5783933

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.362587	.0512031	.0008635	.0012278	.0004760	1.389789	.0021069
Stddev	.028996	.0005112	.0003902	.0006390	.0004071	.006005	.0017143
%RSD	1.227296	.9984587	45.19266	52.04519	85.52467	.4320706	81.36477
#1	2.395958	.0508252	.0013117	.0019391	.0008703	1.392954	.0007361
#2	2.343551	.0509992	.0005991	.0007020	.0000572	1.382863	.0015555
#3	2.348251	.0517848	.0006797	.0010424	.0005004	1.393548	.0040290

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1076-05 Acquired: 1/28/2025 12:52:10 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.114435	-.009264	.1601251
Stddev	.001565	.001650	.0004899
%RSD	.1403864	17.81266	.3059650
#1	1.116108	-.008367	.1604434
#2	1.113008	-.011168	.1595610
#3	1.114190	-.008256	.1603710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2524.609	53998.08	11433.63	1695.443	3810.139
Stddev	5.542	159.11	89.49	6.942	8.164
%RSD	.2195302	.2946540	.7827333	.4094675	.2142685
#1	2525.814	53829.42	11536.00	1690.814	3804.445
#2	2529.450	54145.50	11370.24	1703.425	3819.492
#3	2518.564	54019.32	11394.65	1692.089	3806.479

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-02 Acquired: 1/28/2025 12:56:33 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008023	-.011468	5.706885	.0062184	.0211068	.0836020	.1162196
Stddev	.006508	.002500	.010988	.0016879	.0013880	.0084557	.0009012
%RSD	81.11538	21.80048	.1925441	27.14368	6.576178	10.11429	.7754068
#1	-.000569	-.009510	5.719455	.0078993	.0210600	.0746354	.1151989
#2	-.012575	-.010610	5.699105	.0062322	.0225176	.0914318	.1165546
#3	-.010925	-.014284	5.702094	.0045236	.0197428	.0847389	.1169054

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000072	.0005881	19.06002	.0005595	.0032669	.0478857	.5857505
Stddev	.000020	.0000075	.04106	.0002572	.0001273	.0001517	.0046092
%RSD	27.00599	1.283398	.2154226	45.96374	3.895225	.3168423	.7868908
#1	-.000086	.0005883	19.01504	.0006419	.0031850	.0477274	.5884092
#2	-.000050	.0005805	19.09548	.0002713	.0032022	.0478998	.5804283
#3	-.000081	.0005956	19.06954	.0007654	.0034135	.0480298	.5884142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2424776	1.575887	.0039833	.0012514	314.3308	.0004849	.7857393
Stddev	.0001752	.022546	.0002062	.0003249	3.1283	.0008714	.0050804
%RSD	.0722441	1.430680	5.177073	25.96079	.9952364	179.6891	.6465767
#1	.2422753	1.556266	.0042210	.0013696	312.1661	-.000515	.7914456
#2	.2425780	1.600515	.0038770	.0008840	317.9175	.001080	.7840647
#3	.2425795	1.570878	.0038519	.0015007	312.9087	.000890	.7817075

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.552514	.0153078	.0005360	.0027053	.0018354	1.040836	.0071715
Stddev	.018330	.0008119	.0001964	.0003927	.0007032	.006747	.0025528
%RSD	1.180660	5.304044	36.64198	14.51626	38.31382	.6482155	35.59658
#1	1.531921	.0148427	.0007624	.0025748	.0026473	1.034226	.0080263
#2	1.567046	.0162453	.0004120	.0023945	.0014216	1.040569	.0043010
#3	1.558576	.0148353	.0004335	.0031467	.0014372	1.047712	.0091874

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-02 Acquired: 1/28/2025 12:56:33 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7084726	-.007625	.0690807
Stddev	.0018105	.000448	.0002282
%RSD	.2555461	5.880392	.3303166
#1	.7092032	-.008141	.0691248
#2	.7064109	-.007331	.0688337
#3	.7098036	-.007403	.0692837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2554.561	54557.18	11585.64	1707.526	3880.727
Stddev	7.496	20.46	61.32	2.703	6.022
%RSD	.2934526	.0375073	.5292567	.1582934	.1551650
#1	2555.737	54544.86	11611.22	1704.413	3875.872
#2	2561.400	54580.80	11515.68	1709.278	3887.465
#3	2546.546	54545.88	11630.04	1708.887	3878.843

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-04 Acquired: 1/28/2025 13:00:57 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007910	-.011611	.0009622	.0059273	.0016481	.0972684	.1986046
Stddev	.002623	.000066	.0011931	.0011445	.0005264	.0046531	.0003897
%RSD	33.16256	.5695567	123.9958	19.30911	31.93892	4.783815	.1962397
#1	-.007113	-.011586	.0009267	.0059718	.0017784	.0919256	.1986128
#2	-.010839	-.011686	-.000213	.0070488	.0020972	.1004323	.1989902
#3	-.005777	-.011561	.002173	.0047611	.0010688	.0994473	.1982109

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000022	-.000280	9.380792	.0008683	-.000272	.0018688	.2219652
Stddev	.000046	.000025	.057580	.0002873	.000195	.0001598	.0029467
%RSD	210.3382	8.856913	.6138076	33.09247	71.81706	8.552829	1.327560
#1	-.000021	-.000309	9.439975	.0010724	-.000237	.0018072	.2247339
#2	-.000068	-.000265	9.377439	.0009928	-.000097	.0020503	.2222937
#3	.000023	-.000267	9.324962	.0005397	-.000483	.0017489	.2188680

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466514	.4229914	.0002394	.0009898	320.8157	.0005950	.1417197
Stddev	.0002922	.0016124	.0003540	.0002285	2.2827	.0010244	.0006278
%RSD	.6263502	.3811823	147.8773	23.08605	.7115167	172.1661	.4430175
#1	.0467712	.4242003	-.000064	.0012186	322.7744	.0000049	.1413421
#2	.0468646	.4211607	.000154	.0009892	318.3089	.0000022	.1424444
#3	.0463183	.4236131	.000628	.0007616	321.3639	.0017778	.1413725

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.038614	.0421674	.0005872	.0013219	.0002113	.2484747	.0039915
Stddev	.057641	.0003125	.0003581	.0004686	.0003691	.0046240	.0015796
%RSD	1.896945	.7410510	60.97610	35.44552	174.7374	1.860959	39.57462
#1	3.031730	.0418144	.0009531	.0011139	.0000528	.2482535	.0054056
#2	2.984724	.0424086	.0002375	.0018585	.0006331	.2439653	.0042821
#3	3.099388	.0422791	.0005711	.0009934	-.000052	.2532054	.0022867

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-04 Acquired: 1/28/2025 13:00:57 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4725302	-.004839	.0186935
Stddev	.0052859	.000284	.0001247
%RSD	1.118632	5.862211	.6671267
#1	.4773945	-.005117	.0186679
#2	.4669052	-.004850	.0185836
#3	.4732908	-.004550	.0188290

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.953	54223.20	11568.76	1694.188	3870.448
Stddev	3.588	181.98	88.62	6.486	2.309
%RSD	.1412050	.3356079	.7659862	.3828553	.0596472
#1	2544.441	54237.42	11532.61	1701.126	3867.904
#2	2541.144	54034.54	11503.93	1688.276	3871.028
#3	2537.273	54397.66	11669.74	1693.162	3872.411

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06 Acquired: 1/28/2025 13:05:23 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009048	-.012691	.0585165	.0078258	.0024227	.0606352	.1390197
Stddev	.001514	.002144	.0006932	.0034532	.0016219	.0064408	.0005112
%RSD	16.72971	16.89248	1.184676	44.12610	66.94493	10.62229	.3676864
#1	-.010662	-.011240	.0592966	.0081320	.0009737	.0544002	.1386594
#2	-.007660	-.011680	.0579711	.0042297	.0041746	.0602416	.1387951
#3	-.008822	-.015154	.0582819	.0111158	.0021197	.0672638	.1396047

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000114	.0002251	25.72561	.0008337	.0013023	.0135619	.1225686
Stddev	.000016	.0001296	.06202	.0000352	.0001304	.0003303	.0066694
%RSD	14.29773	57.57321	.2410982	4.216232	10.01328	2.435770	5.441370
#1	-.000109	.0001018	25.77972	.0008308	.0014150	.0133883	.1212965
#2	-.000102	.0002134	25.65792	.0008702	.0011594	.0139428	.1297825
#3	-.000133	.0003602	25.73917	.0008001	.0013324	.0133545	.1166269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1617594	9.627933	.0009956	.0010744	323.9394	.0003904	.0694744
Stddev	.0000806	.042981	.0002499	.0002391	4.6462	.0002780	.0002217
%RSD	.0498250	.4464171	25.10120	22.25109	1.434278	71.19385	.3190703
#1	.1616670	9.671140	.0012799	.0013209	329.2830	.0004480	.0697143
#2	.1617957	9.585182	.0008961	.0008435	320.8534	.0006351	.0694317
#3	.1618155	9.627478	.0008108	.0010588	321.6819	.0000882	.0692771

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8694093	.0145706	.0007718	-.000139	.0015011	.6256476	.0105889
Stddev	.0380221	.0001007	.0002627	.000491	.0003389	.0035143	.0021208
%RSD	4.373322	.6911580	34.04328	353.1618	22.57625	.5617139	20.02893
#1	.8322637	.0146645	.0010719	.000313	.0018765	.6280617	.0089385
#2	.9082511	.0144642	.0006600	-.000068	.0014087	.6272654	.0098472
#3	.8677130	.0145832	.0005834	-.000661	.0012179	.6216157	.0129810

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06 Acquired: 1/28/2025 13:05:23 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3792961	-.008896	.0482354
Stddev	.0012796	.000521	.0002509
%RSD	.3373517	5.859123	.5200627
#1	.3806992	-.009167	.0481892
#2	.3789955	-.009227	.0485062
#3	.3781936	-.008295	.0480109

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.194	53802.96	10707.21	1709.745	3788.147
Stddev	1.891	174.78	35.40	6.161	10.873
%RSD	.0748966	.3248509	.3305910	.3603568	.2870336
#1	2524.255	53783.73	10689.00	1704.382	3782.281
#2	2527.372	53638.59	10748.01	1708.378	3800.694
#3	2523.957	53986.56	10684.63	1716.475	3781.467

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-01 Acquired: 1/28/2025 13:09:49 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1137155	.0004023	11.31049	-.006809	.2035915	62.26451	.3353339
Stddev	.0071290	.0007455	.03031	.001781	.0021896	.01650	.0003982
%RSD	6.269183	185.2922	.2679844	26.15611	1.075484	.0265035	.1187312
#1	.1162419	-.000454	11.33668	-.008824	.2059753	62.25640	.3349112
#2	.1192374	.000757	11.27729	-.006154	.2031291	62.28350	.3357018
#3	.1056673	.000904	11.31749	-.005448	.2016700	62.25364	.3353887

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067395	.0043716	41.51450	.2526045	.0551399	.5725371	211.1821
Stddev	.0000575	.0000597	.05833	.0005255	.0002181	.0015297	.2531
%RSD	.8529246	1.366122	.1404939	.2080111	.3954944	.2671861	.1198577
#1	.0066781	.0043858	41.51280	.2525752	.0553581	.5739629	210.8912
#2	.0067483	.0043061	41.45704	.2531440	.0551394	.5727271	211.3030
#3	.0067921	.0044229	41.57366	.2520943	.0549220	.5709212	211.3522

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408248	28.78183	.1412207	.0021410	4.643087	.3889722	1.491696
Stddev	.002925	.04821	.0007539	.0006905	.018895	.0013077	.008080
%RSD	.2077103	.1674869	.5338542	32.25196	.4069394	.3362034	.5416391
#1	1.411114	28.72764	.1419006	.0027114	4.624885	.3874646	1.489870
#2	1.405267	28.79793	.1404099	.0023384	4.662606	.3898001	1.484686
#3	1.408362	28.81993	.1413515	.0013733	4.641770	.3896519	1.500532

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.08544	-.338300	.0109112	4.054064	1.596407	5.073902	4.515847
Stddev	.10982	.002975	.0003245	.012525	.000677	.015578	.006169
%RSD	.7280086	.8794684	2.973719	.3089463	.0424114	.3070287	.1366096
#1	14.96496	-.340318	.0106248	4.062432	1.597186	5.057649	4.521827
#2	15.17995	-.334883	.0112636	4.039665	1.595958	5.075352	4.516210
#3	15.11142	-.339699	.0108452	4.060096	1.596078	5.088704	4.509505

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-01 Acquired: 1/28/2025 13:09:49 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.946812	.0602910	-.052662
Stddev	.002039	.0007117	.000351
%RSD	.1047477	1.180486	.6665275
#1	1.946275	.0600802	-.052366
#2	1.945094	.0610843	-.052571
#3	1.949066	.0597085	-.053050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2932.112	62121.01	12560.78	1985.959	4185.814
Stddev	.825	66.16	21.26	4.541	6.644
%RSD	.0281281	.1064997	.1692813	.2286467	.1587157
#1	2931.445	62190.99	12560.51	1991.202	4180.538
#2	2933.034	62112.57	12582.18	1983.425	4193.275
#3	2931.857	62059.48	12539.65	1983.252	4183.630

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-03 Acquired: 1/28/2025 13:13:54 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619070	-.052576	.0249316	-.006009	-.008393	133.6596
Stddev	.0019617	.001448	.0006431	.001554	.000741	.1971
%RSD	3.168820	2.754339	2.579500	25.85440	8.824870	.1474796
#1	.0641474	-.053610	.0242265	-.007715	-.007544	133.7193
#2	.0610764	-.053197	.0254859	-.005637	-.008906	133.8200
#3	.0604972	-.050921	.0250825	-.004675	-.008730	133.4396

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0997065	.0206678	.0127609	48.63387	.3573845	.1745714
Stddev	.0001750	.0000808	.0002821	.05178	.0000780	.0001387
%RSD	.1754731	.3908437	2.210427	.1064670	.0218313	.0794761
#1	.0998973	.0205763	.0128169	48.64254	.3572990	.1746316
#2	.0996685	.0207291	.0124550	48.68076	.3574519	.1744127
#3	.0995537	.0206980	.0130108	48.57830	.3574027	.1746699

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649432	186.1172	1.785079	142.5841	.4263002	.0019425
Stddev	.0001748	.2545	.002302	.3687	.0008916	.0005751
%RSD	.2691713	.1367318	.1289521	.2585769	.2091472	29.60340
#1	.0649847	186.0476	1.787261	142.3270	.4267404	.0019928
#2	.0647514	186.3993	1.785303	143.0065	.4252741	.0024908
#3	.0650935	185.9048	1.782674	142.4189	.4268860	.0013440

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.067757	.4797048	.1753087	87.69898	-.313016	.0005433
Stddev	.014790	.0017599	.0007434	.32610	.002193	.0004276
%RSD	.4821058	.3668780	.4240485	.3718351	.7004446	78.68894
#1	3.069282	.4807305	.1758001	87.74295	-.315406	.0000994
#2	3.081725	.4807113	.1756724	88.00085	-.311098	.0009523
#3	3.052264	.4776726	.1744534	87.35312	-.312543	.0005783

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-03 Acquired: 1/28/2025 13:13:54 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013848	9.106105	2.935834	F 11.92480	.1593706	.4964108
Stddev	.000496	.008390	.021905	.03014	.0054244	.0017240
%RSD	3.584164	.0921350	.7461395	.2527607	3.403642	.3472931
#1	-.013902	9.108605	2.910555	11.95953	.1547680	.4979825
#2	-.014314	9.112960	2.947718	11.90544	.1653511	.4966830
#3	-.013326	9.096749	2.949230	11.90942	.1579928	.4945669

Elem	Sr4077
Units	ppm
Avg	-.109999
Stddev	.000275
%RSD	.2503860
#1	-.109813
#2	-.110315
#3	-.109868

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3233.668	69587.33	14474.73	2174.386	3764.479
Stddev	14.896	129.11	26.76	9.700	10.351
%RSD	.4606524	.1855338	.1848963	.4460968	.2749776
#1	3237.575	69625.35	14450.73	2167.132	3768.402
#2	3246.220	69443.48	14469.87	2170.622	3772.295
#3	3217.207	69693.15	14503.59	2185.403	3752.739

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05 Acquired: 1/28/2025 13:17:59 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1112719	-.000277	.2436694	-.006391	.0067661	65.62377	.3214905
Stddev	.0051580	.001172	.0020556	.003592	.0007652	.12864	.0006369
%RSD	4.635527	422.7498	.8435863	56.20745	11.30905	.1960282	.1981058
#1	.1150294	.000940	.2454490	-.006571	.0065802	65.74089	.3214923
#2	.1053911	-.000374	.2414194	-.002712	.0061110	65.48609	.3208527
#3	.1133952	-.001398	.2441397	-.009891	.0076072	65.64435	.3221264

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073121	.0050154	42.66418	.2992318	.0502016	.1768724	245.7667
Stddev	.0000823	.0002277	.16511	.0009576	.0000764	.0017360	.6905
%RSD	1.125702	4.540607	.3870046	.3200112	.1521056	.9814799	.2809775
#1	.0073401	.0048925	42.85335	.2981264	.0502473	.1763889	245.0405
#2	.0073768	.0048756	42.54903	.2997621	.0501135	.1754295	246.4150
#3	.0072195	.0052782	42.59016	.2998069	.0502441	.1787989	245.8444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.215782	30.47243	.0884915	-.000330	.3966660	.4993137	.4951002
Stddev	.004394	.19859	.0003810	.000508	.0119636	.0015818	.0001174
%RSD	.3614093	.6517103	.4305564	153.9381	3.016037	.3167963	.0237103
#1	1.220207	30.69542	.0882239	-.000796	.4046351	.5007134	.4952357
#2	1.211420	30.31461	.0889277	-.000406	.4024537	.4975976	.4950359
#3	1.215720	30.40727	.0883229	.000212	.3829092	.4996302	.4950290

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.35785	-.417245	.0082169	.0176688	1.127250	5.648700	4.699150
Stddev	.05296	.006318	.0001659	.0004848	.001474	.015153	.010956
%RSD	.3964564	1.514263	2.018610	2.743601	.1307862	.2682556	.2331478
#1	13.39195	-.423458	.0080319	.0178277	1.128892	5.634863	4.711719
#2	13.38475	-.410826	.0083525	.0171245	1.126039	5.664893	4.694109
#3	13.29684	-.417451	.0082663	.0180542	1.126821	5.646343	4.691621

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05 Acquired: 1/28/2025 13:17:59 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5623505	.0316289	-.169028
Stddev	.0017077	.0001818	.000774
%RSD	.3036778	.5748443	.4577016
#1	.5631001	.0314822	-.168282
#2	.5603962	.0315722	-.169826
#3	.5635553	.0318323	-.168977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2854.459	61153.29	12659.38	1917.831	4087.189
Stddev	12.489	121.12	77.99	11.519	9.390
%RSD	.4375241	.1980638	.6160903	.6006300	.2297352
#1	2865.892	61129.80	12572.58	1904.743	4095.473
#2	2856.356	61045.63	12723.59	1922.320	4089.104
#3	2841.131	61284.44	12681.96	1926.429	4076.989

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08 Acquired: 1/28/2025 13:22:04 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004950	-.007332	.0003363	.0048214	.0012020	.0151123	-.003017
Stddev	.000905	.001322	.0003618	.0011529	.0008535	.0038783	.000962
%RSD	18.28494	18.02904	107.5852	23.91115	71.00670	25.66290	31.88433
#1	-.004825	-.007793	.0000531	.0035040	.0005637	.0157685	-.004022
#2	-.004114	-.008362	.0002119	.0053145	.0021715	.0186206	-.002922
#3	-.005911	-.005842	.0007438	.0056458	.0008709	.0109478	-.002106

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000157	-.000241	.0090910	.0005656	-.000222	.0006984	-.001120
Stddev	.000036	.000083	.0004241	.0000955	.000091	.0002263	.003101
%RSD	23.16985	34.25150	4.665004	16.87796	40.88599	32.40246	276.7928
#1	-.000123	-.000208	.0094525	.0006754	-.000250	.0004382	.002149
#2	-.000196	-.000335	.0091964	.0005196	-.000295	.0008080	-.001489
#3	-.000152	-.000180	.0086242	.0005020	-.000121	.0008490	-.004021

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426267	.0305086	-.000655	.0014466	-.074484	.0001343	.0011355
Stddev	.0007018	.0020616	.000173	.0003124	.010150	.0013137	.0002783
%RSD	1.646299	6.757339	26.40930	21.59349	13.62654	978.3520	24.51060
#1	.0419467	.0281807	-.000837	.0010935	-.062844	.0016512	.0010098
#2	.0425848	.0321034	-.000636	.0015594	-.081488	-.000626	.0014545
#3	.0433484	.0312417	-.000493	.0016868	-.079119	-.000623	.0009423

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.048021	-.000903	.0003659	.0008329	.0008894	.0066740	.0007211
Stddev	.016525	.000195	.0000900	.0003176	.0002823	.0037986	.0018162
%RSD	34.41195	21.54670	24.58486	38.13882	31.74063	56.91642	251.8740
#1	-.041487	-.000798	.0002650	.0009304	.0006021	.0022908	.0006105
#2	-.035762	-.001128	.0004379	.0010903	.0008998	.0087232	-.001037
#3	-.066814	-.000783	.0003947	.0004779	.0011664	.0090079	.002590

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08 Acquired: 1/28/2025 13:22:04 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012409	-.004509	-.000058
Stddev	.0049544	.000788	.000019
%RSD	399.2512	17.47313	33.82645
#1	-.004460	-.004369	-.000074
#2	.004503	-.005358	-.000036
#3	.003680	-.003801	-.000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.049	60583.39	12052.61	1875.943	4532.906
Stddev	6.046	57.18	104.55	4.923	12.432
%RSD	.2184967	.0943845	.8674394	.2624370	.2742564
#1	2771.861	60550.62	12173.29	1880.829	4538.860
#2	2769.024	60649.42	11989.71	1870.984	4541.240
#3	2760.263	60550.13	11994.82	1876.017	4518.617

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08DUP Acquired: 1/28/2025 13:26:25 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006477	-.007689	.0010221	.0049488	.0015367	.0140842	-.003710
Stddev	.001048	.001298	.0003549	.0004154	.0014731	.0076291	.000527
%RSD	16.18086	16.88386	34.72080	8.393774	95.86224	54.16758	14.21601
#1	-.005378	-.006191	.0007983	.0050429	.0001560	.0133081	-.004202
#2	-.006589	-.008385	.0014312	.0053090	.0030876	.0220717	-.003775
#3	-.007465	-.008491	.0008367	.0044944	.0013666	.0068729	-.003154

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000151	-.000223	.0066777	.0007579	-.000472	.0006789	-.001335
Stddev	.000029	.000095	.0077823	.0001068	.000057	.0002615	.003003
%RSD	19.20274	42.47971	116.5410	14.09594	12.10704	38.51764	224.8417
#1	-.000171	-.000181	.0121747	.0006390	-.000449	.0009192	.001807
#2	-.000118	-.000157	-.002227	.0008458	-.000537	.0007173	-.004175
#3	-.000165	-.000332	.010086	.0007889	-.000430	.0004004	-.001638

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421419	.0239888	-.000588	.0013996	-.090172	-.000247	.0009873
Stddev	.0001344	.0039686	.000195	.0003032	.015230	.000611	.0003809
%RSD	.3189667	16.54367	33.22005	21.66306	16.89033	246.9171	38.57871
#1	.0419907	.0196432	-.000701	.0016749	-.106593	-.000831	.0006342
#2	.0421873	.0274213	-.000701	.0010746	-.076509	-.000300	.0013910
#3	.0422478	.0249020	-.000363	.0014494	-.087414	.000388	.0009367

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033314	-.001187	.0003578	.0008534	.0006626	-.000374	.0015669
Stddev	.007276	.000132	.0003274	.0002701	.0002665	.005306	.0015582
%RSD	21.84094	11.09701	91.49496	31.64785	40.21638	1420.598	99.43888
#1	-.026574	-.001135	.0001407	.0007059	.0008644	.005735	.0027000
#2	-.041028	-.001089	.0001984	.0006893	.0007630	-.003836	-.000210
#3	-.032339	-.001336	.0007344	.0011652	.0003605	-.003019	.002211

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08DUP Acquired: 1/28/2025 13:26:25 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0011127	-.004979	-.000046
Stddev	.0012843	.000778	.000054
%RSD	115.4176	15.62856	115.3562
#1	.0011549	-.005765	-.000071
#2	-.000192	-.004964	.000015
#3	.002375	-.004209	-.000083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2761.530	59773.93	11766.45	1854.322	4500.332
Stddev	5.865	79.11	63.36	6.647	3.692
%RSD	.2123941	.1323530	.5384551	.3584656	.0820326
#1	2760.432	59683.30	11839.56	1853.744	4498.043
#2	2767.866	59809.37	11727.76	1847.983	4504.590
#3	2756.291	59829.14	11732.01	1861.239	4498.361

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08LX5 Acquired: 1/28/2025 13:30:45 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001243	-.002190	.0010933	.0011740	-.000795	.0002434	-.000161
Stddev	.004115	.001476	.0005570	.0012364	.001508	.0050204	.000641
%RSD	331.1745	67.42504	50.95024	105.3181	189.6127	2062.470	397.8392
#1	-.002628	-.001512	.0004508	.0012313	-.001229	.0053591	-.000597
#2	.003387	-.003883	.0014413	-.000090	-.002039	.0000472	.000575
#3	-.004487	-.001174	.0013877	.002381	.000882	-.004676	-.000461

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000133	-.000079	-.003668	.0001945	-.000156	-.000129	-.007440
Stddev	.0000355	.000039	.007328	.0002477	.000133	.000371	.001783
%RSD	266.1998	49.51722	199.7903	127.3431	85.19193	288.1494	23.97114
#1	-.000028	-.000040	-.000100	.0003739	-.000215	.000149	-.006703
#2	.000034	-.000077	-.012097	-.000088	-.000004	-.000550	-.006143
#3	.000034	-.000118	.001193	.000298	-.000249	.000015	-.009474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083135	-.012666	-.000440	.0009719	-.042619	.0012284	-.001019
Stddev	.0000944	.016660	.000200	.0002890	.004149	.0012803	.000128
%RSD	1.135799	131.5305	45.40237	29.73452	9.735724	104.2246	12.51694
#1	.0083264	-.028090	-.000416	.0009995	-.047341	.0016657	-.001155
#2	.0082132	-.014911	-.000650	.0012460	-.039552	.0022327	-.000902
#3	.0084007	.005003	-.000253	.0006701	-.040966	-.000213	-.001001

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002440	-.001251	-.000286	-.000549	.0006242	-.007022	-.002619
Stddev	.045537	.000523	.000119	.000531	.0004454	.006389	.004034
%RSD	1865.956	41.80975	41.47822	96.79443	71.35305	90.98961	154.0100
#1	-.043019	-.001142	-.000355	-.001004	.0006593	-.011993	-.003017
#2	.046809	-.000790	-.000353	-.000678	.0010509	-.009257	.001599
#3	-.011111	-.001819	-.000149	.000035	.0001623	.000185	-.006440

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08LX5 Acquired: 1/28/2025 13:30:45 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004971	-.001677	-.000076
Stddev	.001508	.000653	.000021
%RSD	30.33995	38.93353	28.04858
#1	-.004251	-.001245	-.000052
#2	-.006704	-.001357	-.000091
#3	-.003957	-.002428	-.000085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2851.404	60766.67	11630.65	1966.271	4542.506
Stddev	9.307	252.14	18.74	9.950	17.218
%RSD	.3264011	.4149269	.1610968	.5060444	.3790484
#1	2858.950	60483.60	11615.59	1960.125	4551.157
#2	2854.258	60849.26	11624.73	1960.937	4553.684
#3	2841.004	60967.16	11651.63	1977.751	4522.678

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV02 Acquired: 1/28/2025 13:42:12 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.885734	4.933907	4.900723	4.988725	5.064396	9.807810	9.399872
Stddev	.027761	.048921	.020722	.023281	.016192	.005374	.019974
%RSD	.5682111	.9915309	.4228387	.4666774	.3197136	.0547916	.2124941
#1	4.891160	4.920464	4.886254	4.993064	5.058182	9.802153	9.421519
#2	4.855660	4.893111	4.891453	4.963580	5.052231	9.808431	9.395943
#3	4.910381	4.988144	4.924462	5.009532	5.082774	9.812847	9.382155

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2316737	2.414614	23.61626	1.005133	2.406844	1.258603	4.893434
Stddev	.0010777	.009131	.07358	.001800	.007654	.004774	.041673
%RSD	.4651895	.3781388	.3115519	.1790420	.3180040	.3792980	.8516040
#1	.2312964	2.410790	23.53482	1.005499	2.405827	1.257131	4.851042
#2	.2308354	2.408017	23.63602	1.003178	2.399749	1.254739	4.894913
#3	.2328893	2.425035	23.67794	1.006721	2.414955	1.263940	4.934348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.282426	23.44003	2.435611	1.214833	24.75235	2.398232	2.507784
Stddev	.007762	.06570	.010294	.002361	.08607	.005650	.003390
%RSD	.3400669	.2803022	.4226461	.1943101	.3477313	.2356042	.1351636
#1	2.276202	23.36565	2.432090	1.212676	24.75806	2.399662	2.505826
#2	2.279954	23.46428	2.427539	1.214468	24.66357	2.392004	2.511698
#3	2.291123	23.49016	2.447203	1.217355	24.83543	2.403029	2.505828

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.65454	4.551641	5.030243	4.875836	4.753797	5.146284	4.820492
Stddev	.02263	.013487	.019693	.024765	.013325	.008280	.027357
%RSD	.0917896	.2963041	.3914944	.5079174	.2803125	.1608884	.5675057
#1	24.67921	4.547564	5.025746	4.863837	4.749933	5.144323	4.828611
#2	24.63474	4.540662	5.013187	4.859355	4.742831	5.139161	4.789995
#3	24.64967	4.566695	5.051796	4.904314	4.768628	5.155368	4.842871

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV02 Acquired: 1/28/2025 13:42:12 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.829945	4.820203	4.763584
Stddev	.023861	.017952	.044850
%RSD	.4940244	.3724236	.9415130
#1	4.821499	4.827192	4.798124
#2	4.811455	4.799808	4.712896
#3	4.856880	4.833609	4.779731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2778.224	58590.01	11356.06	1830.665	4198.750
Stddev	5.178	167.06	43.88	6.294	9.785
%RSD	.1863708	.2851330	.3864313	.3437856	.2330500
#1	2780.639	58660.50	11370.90	1834.396	4205.471
#2	2781.752	58710.28	11390.59	1823.399	4203.254
#3	2772.279	58399.26	11306.67	1834.201	4187.524

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB02 Acquired: 1/28/2025 13:46:23 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000213	-.000251	.0008977	-.000188	-.000110	.0017726	-.002449
Stddev	.001546	.000741	.0006674	.000891	.000890	.0007640	.000588
%RSD	727.4495	295.3073	74.34566	473.0398	811.1105	43.10016	24.02226
#1	-.001722	-.000250	.0002981	-.000488	.000766	.0008905	-.002961
#2	.001368	.000490	.0016168	-.000891	-.001013	.0022042	-.001806
#3	-.000284	-.000993	.0007782	.000814	-.000083	.0022230	-.002579

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000598	-.000031	-.010848	.0000545	-.000216	-.000361	-.009431
Stddev	.0000450	.000053	.004736	.0003015	.000116	.000194	.001575
%RSD	75.25946	169.6640	43.65993	553.7315	53.55230	53.79622	16.69832
#1	.0000122	-.000091	-.005488	.0001936	-.000163	-.000564	-.008578
#2	.0000656	-.000011	-.014470	-.000291	-.000137	-.000177	-.008467
#3	.0001016	.000008	-.012586	.000261	-.000349	-.000342	-.011249

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000228	-.004283	-.000364	.0012937	-.020235	.0002337	-.001489
Stddev	.000084	.006254	.000039	.0002717	.007811	.0016253	.000150
%RSD	36.96898	146.0163	10.58708	20.99701	38.59975	695.4890	10.09554
#1	-.000295	-.003196	-.000329	.0013270	-.020259	-.000059	-.001496
#2	-.000255	-.011010	-.000405	.0015472	-.012412	.001985	-.001336
#3	-.000133	.001356	-.000358	.0010070	-.028033	-.001226	-.001636

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240807	.0025741	-.000041	.0000885	.0008355	-.000218	-.006177
Stddev	.0252457	.0004417	.000242	.0007372	.0000270	.004175	.001664
%RSD	104.8379	17.16067	594.3328	832.6189	3.232176	1913.473	26.94291
#1	.0276281	.0030562	-.000267	.0009312	.0008630	.004048	-.004299
#2	-.002751	.0024775	.000215	-.000228	.0008090	-.004295	-.007470
#3	.047365	.0021887	-.000070	-.000437	.0008344	-.000407	-.006761

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB02 Acquired: 1/28/2025 13:46:23 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004634	-.002610	.0000076
Stddev	.004334	.000896	.0000240
%RSD	93.52771	34.33558	315.3302
#1	.000276	-.001709	-.000020
#2	-.007928	-.002620	.000019
#3	-.006249	-.003501	.000024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2843.883	61113.73	11894.25	1928.997	4561.379
Stddev	4.440	159.15	8.78	6.560	4.049
%RSD	.1561319	.2604082	.0738292	.3400764	.0887761
#1	2847.608	61251.79	11901.19	1929.970	4565.570
#2	2838.969	61149.72	11897.19	1935.016	4557.488
#3	2845.071	60939.67	11884.38	1922.005	4561.078

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08MS Acquired: 1/28/2025 13:51:24 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7742971	1.843720	.9264757	1.832583	.7918175	1.953989	.1815976
Stddev	.0077286	.003093	.0026157	.008889	.0028974	.003275	.0002482
%RSD	.9981466	.1677511	.2823293	.4850573	.3659171	.1676197	.1367040
#1	.7658971	1.841557	.9237117	1.823582	.7890659	1.955376	.1813117
#2	.7758872	1.847262	.9268032	1.832812	.7915451	1.950249	.1817221
#3	.7811070	1.842340	.9289123	1.841355	.7948415	1.956343	.1817589

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1767919	.1829865	.9766747	.4220275	.1906344	.3088516	2.936231
Stddev	.0004860	.0004438	.0069645	.0012646	.0004905	.0016495	.016582
%RSD	.2748908	.2425509	.7130825	.2996581	.2572814	.5340715	.5647461
#1	.1765413	.1827918	.9824602	.4229945	.1902127	.3076871	2.935257
#2	.1764824	.1826733	.9786193	.4205964	.1905179	.3081285	2.953279
#3	.1773521	.1834944	.9689445	.4224916	.1911727	.3107391	2.920157

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1844959	1.838694	.4766217	.0728949	2.644457	.2891344	.2035340
Stddev	.0004626	.002415	.0013665	.0001917	.016362	.0000906	.0011338
%RSD	.2507162	.1313682	.2866992	.2629140	.6187258	.0313251	.5570774
#1	.1840816	1.838934	.4759123	.0726739	2.641936	.2890621	.2033312
#2	.1849950	1.836167	.4757558	.0729967	2.661934	.2892360	.2047555
#3	.1844112	1.840980	.4781969	.0730143	2.629502	.2891050	.2025152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.362580	.2320603	.4380203	.6560707	.1897226	.7044925	5.162018
Stddev	.041494	.0011213	.0016667	.0017880	.0002257	.0051337	.019834
%RSD	.4431949	.4831773	.3805171	.2725273	.1189650	.7287123	.3842283
#1	9.403411	.2314239	.4369672	.6563386	.1895869	.7019938	5.159273
#2	9.320452	.2314021	.4371519	.6541638	.1899832	.7103972	5.143700
#3	9.363877	.2333550	.4399420	.6577095	.1895979	.7010865	5.183082

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08MS Acquired: 1/28/2025 13:51:24 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.011752	.1880747	.1880910
Stddev	.001485	.0005175	.0003567
%RSD	12.63793	.2751586	.1896395
#1	-.010182	.1877634	.1881268
#2	-.013134	.1886721	.1884284
#3	-.011941	.1877886	.1877177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2797.363	60209.38	11584.06	1874.785	4537.825
Stddev	9.077	114.93	5.32	9.134	11.654
%RSD	.3244836	.1908778	.0459401	.4872045	.2568147
#1	2806.637	60092.09	11589.94	1871.297	4548.934
#2	2796.956	60214.27	11579.57	1867.910	4538.848
#3	2788.497	60321.79	11582.68	1885.150	4525.693

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08MSD Acquired: 1/28/2025 13:55:25 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7778260	1.861394	.9304829	1.848527	.7992537	1.960990	.1875212
Stddev	.0045906	.008935	.0013076	.012836	.0060091	.006488	.0003977
%RSD	.5901859	.4800331	.1405289	.6943761	.7518327	.3308680	.2120721
#1	.7726594	1.851699	.9315546	1.834524	.7960384	1.967321	.1872416
#2	.7793828	1.869298	.9290260	1.851323	.7955365	1.954355	.1879764
#3	.7814357	1.863187	.9308682	1.859734	.8061863	1.961296	.1873455

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1743848	.1831784	.9853478	.4200923	.1899571	.3095376	3.005913
Stddev	.0002408	.0002732	.0056186	.0013287	.0000831	.0009494	.004137
%RSD	.1381099	.1491481	.5702110	.3162863	.0437431	.3067121	.1376180
#1	.1745658	.1831761	.9892810	.4207460	.1898925	.3097808	3.005752
#2	.1744771	.1829063	.9878496	.4209676	.1899279	.3084903	3.010127
#3	.1741115	.1834527	.9789129	.4185634	.1900508	.3103418	3.001859

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1888358	1.848592	.4778448	.0726971	2.841214	.2920181	.2034330
Stddev	.0009338	.010181	.0004716	.0003920	.009718	.0008513	.0012858
%RSD	.4944818	.5507324	.0986886	.5391925	.3420421	.2915355	.6320569
#1	.1894815	1.838629	.4781455	.0723281	2.850124	.2929748	.2026578
#2	.1892608	1.848171	.4773013	.0726546	2.842667	.2913440	.2027239
#3	.1877651	1.858977	.4780875	.0731086	2.830852	.2917356	.2049172

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.791471	.2288012	.4372528	.6577600	.1936845	.7232564	5.225542
Stddev	.047887	.0009855	.0021546	.0017576	.0002616	.0036303	.014910
%RSD	.4890674	.4307117	.4927585	.2672075	.1350588	.5019325	.2853287
#1	9.840375	.2292472	.4357201	.6572033	.1935649	.7262490	5.209945
#2	9.744671	.2276715	.4363220	.6563482	.1935041	.7192180	5.239654
#3	9.789368	.2294847	.4397163	.6597285	.1939845	.7243022	5.227029

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08MSD Acquired: 1/28/2025 13:55:25 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007327	.1958279	.1911448
Stddev	.002250	.0004757	.0005142
%RSD	30.70774	.2429105	.2689914
#1	-.008167	.1963394	.1916148
#2	-.004778	.1957454	.1912240
#3	-.009036	.1953988	.1905957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2778.727	60335.97	11754.19	1882.023	4497.425
Stddev	11.042	105.23	29.82	12.021	10.512
%RSD	.3973879	.1743992	.2537264	.6387438	.2337349
#1	2779.281	60284.62	11728.73	1892.831	4495.295
#2	2789.482	60266.28	11746.83	1884.162	4508.839
#3	2767.419	60457.01	11787.00	1869.075	4488.141

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08A Acquired: 1/28/2025 13:59:27 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7712290	1.843818	.9192710	1.834787	.7970625	1.966115	.1850308
Stddev	.0047952	.005437	.0021748	.005743	.0039568	.008177	.0008508
%RSD	.6217593	.2948596	.2365799	.3130254	.4964189	.4158790	.4598315
#1	.7727051	1.846412	.9198027	1.832115	.7925095	1.975463	.1859970
#2	.7751126	1.837570	.9168797	1.830866	.7996691	1.960296	.1843934
#3	.7658693	1.847472	.9211307	1.841379	.7990088	1.962584	.1847022

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1739872	.1811568	.9784448	.4230500	.1887887	.3079011	3.004973
Stddev	.0000626	.0002357	.0032823	.0004579	.0005389	.0002873	.006340
%RSD	.0359833	.1301149	.3354634	.1082507	.2854390	.0933066	.2109698
#1	.1740414	.1812356	.9818318	.4228701	.1887875	.3077808	3.006221
#2	.1739187	.1808918	.9752783	.4235706	.1882504	.3076935	3.010596
#3	.1740015	.1813430	.9782243	.4227094	.1893281	.3082290	2.998102

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1860089	1.845827	.4727609	.0731748	2.774298	.2909113	.2054214
Stddev	.0005643	.007575	.0004604	.0003460	.012232	.0012933	.0005464
%RSD	.3033834	.4103701	.0973838	.4729004	.4409209	.4445677	.2659824
#1	.1854953	1.838730	.4729109	.0731953	2.779089	.2904337	.2051310
#2	.1859185	1.844948	.4722442	.0728189	2.783409	.2899247	.2050814
#3	.1866130	1.853803	.4731276	.0735101	2.760395	.2923755	.2060516

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.698569	.2283448	.4418248	.6488293	.1941418	.7344582	5.052043
Stddev	.034629	.0006824	.0005546	.0014234	.0008314	.0047583	.015362
%RSD	.3570502	.2988425	.1255306	.2193739	.4282178	.6478720	.3040662
#1	9.699268	.2288093	.4417897	.6494481	.1936990	.7342667	5.059700
#2	9.732843	.2275614	.4412885	.6472012	.1951009	.7297986	5.034358
#3	9.663597	.2286639	.4423961	.6498385	.1936257	.7393095	5.062071

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1194-08A Acquired: 1/28/2025 13:59:27 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.010119	.1931081	.1902035
Stddev	.003494	.0004129	.0001569
%RSD	34.53066	.2138462	.0825081
#1	-.013361	.1932814	.1902503
#2	-.010576	.1926368	.1900284
#3	-.006418	.1934062	.1903316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2801.472	59785.34	11735.99	1845.304	4593.029
Stddev	2.566	67.95	25.79	8.881	3.137
%RSD	.0916115	.1136503	.2197620	.4812943	.0683054
#1	2803.540	59807.10	11761.14	1850.165	4590.249
#2	2798.600	59709.18	11737.22	1850.693	4592.408
#3	2802.276	59839.74	11709.61	1835.053	4596.431

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166283BL Acquired: 1/28/2025 14:03:30 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000497	.0002790	.0004830	-.000199	-.000094	-.000249	-.002704
Stddev	.001455	.0009748	.0003416	.002365	.000924	.002864	.000758
%RSD	292.5341	349.3404	70.72581	1190.526	980.3550	1150.309	28.04115
#1	-.001485	-.000388	.0008766	.000846	.000714	-.002080	-.003557
#2	.001173	-.000173	.0003093	.001464	-.001101	.003052	-.002106
#3	-.001180	.001398	.0002632	-.002906	.000105	-.001719	-.002449

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000861	-.000004	-.006456	.0000160	-.000077	-.000346	-.009444
Stddev	.0000355	.000080	.005050	.0005482	.000031	.000086	.002676
%RSD	41.30367	1794.189	78.22039	3417.021	40.62147	24.84975	28.34066
#1	.0000772	.000043	-.006780	.0001262	-.000092	-.000248	-.011129
#2	.0000558	-.000097	-.001252	.0005008	-.000041	-.000410	-.006358
#3	.0001252	.000041	-.011335	-.000579	-.000099	-.000378	-.010845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000041	-.011041	-.000456	.0010235	-.066908	-.000106	-.001491
Stddev	.0001358	.007822	.000241	.0001910	.005064	.000622	.000015
%RSD	3286.867	70.84751	52.92272	18.66515	7.568477	586.4309	1.013250
#1	-.000044	-.015096	-.000271	.0011934	-.072695	-.000450	-.001474
#2	-.000101	-.002024	-.000729	.0008167	-.064742	-.000481	-.001503
#3	.000158	-.016003	-.000367	.0010604	-.063288	.000612	-.001495

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.049699	-.000596	-.000057	.0000302	.0003498	-.007307	-.001895
Stddev	.018877	.000812	.000043	.0002653	.0004347	.009506	.000409
%RSD	37.98257	136.1457	75.99221	878.7708	124.2800	130.1060	21.60306
#1	-.067523	.000275	-.000019	-.000214	-.000118	.002861	-.002161
#2	-.029921	-.001332	-.000104	-.000008	.000742	-.015973	-.001424
#3	-.051652	-.000732	-.000047	.000312	.000425	-.008807	-.002100

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166283BL Acquired: 1/28/2025 14:03:30 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007002	-.002633	-.000025
Stddev	.000496	.000369	.000001
%RSD	7.086496	14.00103	4.708765
#1	-.006521	-.002313	-.000026
#2	-.007512	-.003036	-.000024
#3	-.006974	-.002551	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2884.507	60307.15	11763.43	1904.328	4688.598
Stddev	4.691	166.20	38.83	.945	10.482
%RSD	.1626134	.2755957	.3301087	.0496408	.2235552
#1	2889.605	60139.42	11719.06	1904.264	4700.688
#2	2883.539	60471.79	11779.99	1905.303	4683.051
#3	2880.375	60310.23	11791.24	1903.416	4682.056

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166283BS Acquired: 1/28/2025 14:07:50 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7660727	1.950117	.9357504	1.910201	.7593796	1.818173
Stddev	.0043803	.021130	.0013258	.011847	.0019359	.009242
%RSD	.5717865	1.083501	.1416812	.6202053	.2549322	.5083160
#1	.7638322	1.927533	.9367957	1.909649	.7577333	1.816546
#2	.7632657	1.953414	.9342592	1.898640	.7588932	1.809853
#3	.7711200	1.969404	.9361965	1.922315	.7615123	1.828121

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1695639	.1789613	.1827012	.9140936	.3931372	.1830801
Stddev	.0006235	.0010190	.0005721	.0035595	.0012725	.0007402
%RSD	.3676936	.5694022	.3131516	.3894036	.3236714	.4043184
#1	.1688512	.1789885	.1824947	.9111665	.3931795	.1831196
#2	.1700082	.1799665	.1822610	.9180559	.3918442	.1823209
#3	.1698324	.1779290	.1833479	.9130583	.3943881	.1837998

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2981435	2.777200	.1726603	1.742155	.4644501	.0721617
Stddev	.0003568	.030056	.0016663	.011358	.0016106	.0006472
%RSD	.1196801	1.082248	.9650818	.6519754	.3467713	.8968536
#1	.2983345	2.748053	.1707892	1.729114	.4636788	.0726149
#2	.2977319	2.775457	.1739843	1.747465	.4633701	.0714205
#3	.2983642	2.808089	.1732074	1.749885	.4663012	.0724497

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.544408	.2670588	.1956867	8.980821	.2512432	.3903041
Stddev	.027803	.0021757	.0008219	.069848	.0020311	.0000758
%RSD	1.092710	.8146940	.4200075	.7777492	.8084181	.0194178
#1	2.531493	.2654691	.1960478	8.947547	.2517860	.3903068
#2	2.525411	.2695384	.1947461	8.933831	.2529477	.3903785
#3	2.576319	.2661689	.1962663	9.061085	.2489958	.3902270

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166283BS Acquired: 1/28/2025 14:07:50 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6428445	.1769173	F .6701935	5.289410	F -.013579	.1783053
Stddev	.0015081	.0015129	.0027384	.035389	.003076	.0016127
%RSD	.2346012	.8551637	.4086050	.6690450	22.65046	.9044526
#1	.6415082	.1752789	.6716442	5.255558	-.016914	.1766510
#2	.6425458	.1772112	.6670349	5.286515	-.012969	.1798729
#3	.6444797	.1782617	.6719014	5.326158	-.010854	.1783920

Elem	Sr4077
Units	ppm
Avg	.1738756
Stddev	.0002555
%RSD	.1469342
#1	.1736272
#2	.1738622
#3	.1741376

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2900.642	60392.94	11736.49	1928.504	4596.061
Stddev	5.756	223.05	38.28	8.055	6.931
%RSD	.1984235	.3693276	.3261870	.4177013	.1508063
#1	2897.547	60514.79	11748.35	1935.309	4599.012
#2	2907.283	60528.52	11693.68	1930.593	4601.028
#3	2897.096	60135.51	11767.43	1919.610	4588.143

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06DUP Acquired: 1/28/2025 14:11:51 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008417	-.011624	.0577325	.0086977	.0012260	.0891856	.1492699
Stddev	.004423	.001377	.0011333	.0007779	.0009330	.0018046	.0012144
%RSD	52.55561	11.84672	1.962943	8.943933	76.10323	2.023393	.8135313
#1	-.008674	-.010126	.0566375	.0084745	.0007319	.0875381	.1486717
#2	-.003870	-.011909	.0576596	.0095628	.0006440	.0911143	.1484707
#3	-.012705	-.012836	.0589005	.0080557	.0023022	.0889044	.1506673

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000153	.0001968	26.46170	.0007041	.0015380	.0137155	.1368035
Stddev	.000046	.0000799	.12052	.0000865	.0001696	.0003935	.0049933
%RSD	29.88019	40.60100	.4554457	12.28844	11.02479	2.868858	3.649945
#1	-.000118	.0001086	26.47255	.0006451	.0015676	.0141174	.1320174
#2	-.000137	.0002643	26.33613	.0006639	.0016908	.0136980	.1364122
#3	-.000205	.0002177	26.57643	.0008034	.0013556	.0133310	.1419808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1701569	10.09294	.0013778	.0008568	381.1007	.0009655	.0691259
Stddev	.0014986	.05243	.0002325	.0002372	3.5248	.0013812	.0010579
%RSD	.8807272	.5195097	16.87733	27.68069	.9248869	143.0483	1.530330
#1	.1685875	10.14125	.0011436	.0011198	384.6709	-.000139	.0692533
#2	.1703103	10.03718	.0013811	.0006592	381.0078	.000521	.0701144
#3	.1715730	10.10039	.0016086	.0007914	377.6233	.002514	.0680102

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.066198	.0136795	.0007642	.0006621	.0019167	.6954689	.0076314
Stddev	.003124	.0005592	.0003880	.0006565	.0004538	.0036637	.0026047
%RSD	.2929631	4.087627	50.77412	99.14569	23.67583	.5267913	34.13117
#1	1.065988	.0135948	.0003227	.0000049	.0024219	.6940235	.0104848
#2	1.063185	.0131676	.0010508	.0013179	.0017846	.6996349	.0053815
#3	1.069422	.0142762	.0009190	.0006636	.0015436	.6927485	.0070277

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06DUP Acquired: 1/28/2025 14:11:51 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3805640	-.008545	.0504667
Stddev	.0038611	.000738	.0002100
%RSD	1.014583	8.634698	.4160389
#1	.3812183	-.008676	.0506209
#2	.3764175	-.009209	.0502276
#3	.3840562	-.007751	.0505516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2528.479	54089.39	11376.22	1714.146	3791.201
Stddev	4.406	128.02	66.27	11.759	4.040
%RSD	.1742625	.2366784	.5825036	.6860218	.1065611
#1	2524.533	54091.99	11399.24	1720.721	3788.979
#2	2533.233	53960.10	11427.91	1700.570	3795.864
#3	2527.671	54216.09	11301.52	1721.147	3788.760

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06LX5 Acquired: 1/28/2025 14:16:18 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001812	-.000514	.0127699	.0035006	-.000298	.0184190	.0301013
Stddev	.002115	.001246	.0005612	.0028730	.000237	.0013019	.0008273
%RSD	116.7271	242.5581	4.395027	82.06997	79.50759	7.068378	2.748520
#1	-.003592	.000887	.0134067	.0067825	-.000167	.0198142	.0310482
#2	-.002370	-.001499	.0123473	.0022791	-.000571	.0172366	.0295186
#3	.000526	-.000930	.0125558	.0014403	-.000155	.0182061	.0297370

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000501	.0000255	5.438820	.0001754	.0002007	.0025970	.0206223
Stddev	.0000175	.0000747	.005392	.0002751	.0001628	.0003012	.0020387
%RSD	34.94529	293.4002	.0991379	156.8301	81.08711	11.59683	9.886050
#1	.0000692	-.000040	5.438615	.0001455	.0002233	.0026726	.0196835
#2	.0000348	.000010	5.433533	.0004642	.0003510	.0022653	.0229613
#3	.0000464	.000107	5.444311	-.000084	.0000278	.0028532	.0192221

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0344987	2.075571	.0000256	.0009057	71.96791	.0016348	.0121314
Stddev	.0004074	.005430	.0002010	.0002389	1.09707	.0008409	.0002045
%RSD	1.180834	.2616261	785.8582	26.37995	1.524384	51.43888	1.686065
#1	.0344360	2.075058	-.000087	.0010645	71.14023	.0006657	.0119057
#2	.0341263	2.070415	-.000094	.0010215	71.55124	.0021716	.0121838
#3	.0349338	2.081239	.000258	.0006309	73.21227	.0020672	.0123045

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2145228	.0018972	-.000037	.0003199	.0008919	.1206455	-.002511
Stddev	.0086589	.0001877	.000048	.0008161	.0004777	.0034731	.001390
%RSD	4.036371	9.894415	129.2851	255.1343	53.56402	2.878797	55.33248
#1	.2082904	.0019301	-.000073	.0004356	.0004616	.1167490	-.001064
#2	.2244099	.0016952	.000018	.0010719	.0014060	.1217720	-.003835
#3	.2108682	.0020662	-.000057	-.000548	.0008081	.1234156	-.002636

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06LX5 Acquired: 1/28/2025 14:16:18 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0757168	-.002670	.0101078
Stddev	.0017497	.000884	.0001146
%RSD	2.310795	33.09913	1.134019
#1	.0747207	-.003607	.0101055
#2	.0746928	-.001852	.0099943
#3	.0777371	-.002551	.0102235

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2787.770	59180.26	11560.71	1901.723	4280.840
Stddev	15.120	96.94	95.32	13.354	15.547
%RSD	.5423610	.1638079	.8245414	.7021989	.3631667
#1	2797.150	59222.25	11479.79	1908.332	4280.270
#2	2795.832	59249.13	11536.55	1910.484	4296.664
#3	2770.328	59069.40	11665.79	1886.354	4265.587

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06MS Acquired: 1/28/2025 14:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8151507	1.795929	.9686156	1.954043	.8034124	1.940417	.2894880
Stddev	.0008255	.013545	.0038572	.001652	.0012606	.007602	.0007211
%RSD	.1012638	.7541845	.3982205	.0845414	.1569030	.3917885	.2490802
#1	.8153067	1.788807	.9678587	1.955917	.8022848	1.944655	.2903206
#2	.8158870	1.787432	.9651930	1.953416	.8031791	1.944956	.2890776
#3	.8142584	1.811549	.9727952	1.952797	.8047733	1.931641	.2890659

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1720974	.1916793	21.51337	.4077732	.1938468	.3035700	3.059947
Stddev	.0006618	.0007493	.03318	.0019881	.0006005	.0012835	.014780
%RSD	.3845392	.3909326	.1542449	.4875452	.3097901	.4228025	.4830124
#1	.1723766	.1913638	21.47505	.4100650	.1932820	.3021073	3.061811
#2	.1713418	.1911393	21.53239	.4065126	.1937809	.3040942	3.073707
#3	.1725738	.1925348	21.53267	.4067419	.1944776	.3045083	3.044324

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3113781	9.604456	.4828761	.0733224	286.1467	.2825756	.2684000
Stddev	.0011292	.023843	.0017335	.0003506	1.1892	.0025817	.0020355
%RSD	.3626380	.2482544	.3589846	.4782083	.4155962	.9136406	.7583699
#1	.3124055	9.630973	.4821304	.0734246	287.1968	.2798760	.2705639
#2	.3115597	9.597613	.4816402	.0736106	284.8553	.2828301	.2665235
#3	.3101692	9.584782	.4848576	.0729320	286.3881	.2850206	.2681125

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.92324	.2309084	.4256532	.6691727	.1846400	1.257767	5.927059
Stddev	.05356	.0005386	.0019037	.0026349	.0004155	.004302	.021843
%RSD	.4902905	.2332405	.4472369	.3937487	.2250162	.3420236	.3685387
#1	10.97038	.2309843	.4242350	.6679038	.1846408	1.258041	5.927088
#2	10.93435	.2314050	.4249079	.6674123	.1850550	1.261925	5.905200
#3	10.86501	.2303359	.4278168	.6722019	.1842241	1.253334	5.948887

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06MS Acquired: 1/28/2025 14:20:38 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3721327	.1793724	.2187572
Stddev	.0030608	.0001579	.0002199
%RSD	.8225163	.0880529	.1005133
#1	.3708299	.1793797	.2189837
#2	.3699387	.1795265	.2185446
#3	.3756294	.1792109	.2187433

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.220	55464.30	11349.33	1726.527	3863.518
Stddev	6.550	120.10	6.98	5.978	13.852
%RSD	.2562297	.2165358	.0614793	.3462560	.3585299
#1	2561.831	55330.04	11345.44	1722.611	3870.965
#2	2557.807	55501.35	11357.39	1733.408	3872.053
#3	2549.023	55561.51	11345.17	1723.562	3847.536

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06MSD Acquired: 1/28/2025 14:24:48 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7929495	1.778708	.9587176	1.914439	.7921128	1.939608	.2900921
Stddev	.0040560	.004992	.0006585	.005394	.0034774	.007742	.0009862
%RSD	.5115040	.2806742	.0686891	.2817344	.4390084	.3991373	.3399609
#1	.7912801	1.780057	.9581245	1.914909	.7926263	1.938582	.2910274
#2	.7899946	1.773180	.9594262	1.908825	.7884072	1.932430	.2890619
#3	.7975737	1.782888	.9586020	1.919582	.7953050	1.947811	.2901870

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1728763	.1902552	21.60958	.4127819	.1925500	.2980116	3.110768
Stddev	.0004050	.0002240	.01936	.0027010	.0004924	.0006815	.030439
%RSD	.2342957	.1177176	.0895761	.6543492	.2557153	.2286806	.9785202
#1	.1724111	.1903646	21.58724	.4140290	.1925262	.2975053	3.127860
#2	.1730670	.1899976	21.62130	.4146341	.1920700	.2977431	3.128820
#3	.1731508	.1904035	21.62021	.4096827	.1930539	.2987865	3.075624

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3127209	9.664625	.4784658	.0738738	291.8830	.2812648	.2692828
Stddev	.0003139	.038388	.0008187	.0004080	.8497	.0007765	.0001624
%RSD	.1003908	.3972008	.1711157	.5522367	.2911063	.2760752	.0603093
#1	.3128981	9.633777	.4785414	.0737673	291.0581	.2821465	.2691691
#2	.3129060	9.707616	.4776119	.0735297	292.7555	.2806827	.2692105
#3	.3123584	9.652482	.4792441	.0743245	291.8353	.2809653	.2694688

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.15378	.2313768	.4258989	.6629592	.1856754	1.301190	5.745168
Stddev	.03827	.0010897	.0011940	.0002643	.0003678	.008800	.007995
%RSD	.3431423	.4709787	.2803390	.0398708	.1981002	.6763267	.1391589
#1	11.19061	.2318594	.4247325	.6631398	.1852508	1.301739	5.748688
#2	11.15653	.2301291	.4258454	.6630818	.1858967	1.309703	5.736018
#3	11.11421	.2321419	.4271187	.6626558	.1858788	1.292128	5.750800

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06MSD Acquired: 1/28/2025 14:24:48 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3644425	.1800534	.2189704
Stddev	.0001862	.0005064	.0002518
%RSD	.0510821	.2812464	.1149703
#1	.3642490	.1802373	.2192443
#2	.3644583	.1794807	.2187491
#3	.3646203	.1804421	.2189177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.502	54621.19	11346.78	1716.051	3947.733
Stddev	2.497	224.54	22.86	6.662	3.974
%RSD	.0959134	.4110917	.2015044	.3882328	.1006665
#1	2605.429	54551.15	11372.68	1716.211	3950.575
#2	2604.397	54440.01	11329.38	1709.311	3949.433
#3	2600.681	54872.40	11338.28	1722.632	3943.192

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06A Acquired: 1/28/2025 14:28:58 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8030369	1.780022	.9656265	1.932942	.7933752	1.959296	.2919536
Stddev	.0048488	.001293	.0023357	.006118	.0028145	.005112	.0010378
%RSD	.6038122	.0726444	.2418822	.3165091	.3547478	.2609349	.3554721
#1	.8030339	1.781515	.9634975	1.930911	.7910405	1.963931	.2926307
#2	.7981896	1.779289	.9652572	1.928097	.7925848	1.953812	.2907588
#3	.8078872	1.779262	.9681249	1.939817	.7965004	1.960146	.2924713

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1705065	.1911893	21.62750	.4092329	.1926792	.2996008	3.086256
Stddev	.0009283	.0005902	.03066	.0007657	.0004928	.0007782	.019618
%RSD	.5444650	.3087017	.1417436	.1871009	.2557537	.2597621	.6356474
#1	.1713537	.1907925	21.63213	.4093310	.1922876	.2993732	3.068095
#2	.1706515	.1909078	21.65558	.4099448	.1925175	.2989617	3.083611
#3	.1695141	.1918675	21.59480	.4084229	.1932325	.3004675	3.107062

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3131849	9.672637	.4810634	.0726627	288.4063	.2832813	.2667361
Stddev	.0006238	.029380	.0009637	.0004503	1.8922	.0002535	.0006746
%RSD	.1991783	.3037478	.2003211	.6196491	.6560813	.0894934	.2529213
#1	.3130741	9.697980	.4819235	.0721836	288.6844	.2831124	.2668195
#2	.3126239	9.679498	.4800219	.0727274	290.1441	.2835728	.2673652
#3	.3138567	9.640434	.4812447	.0730771	286.3905	.2831587	.2660237

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.06531	.2277831	.4247613	.6681172	.1876301	1.291382	5.847739
Stddev	.09846	.0006608	.0011335	.0012039	.0005385	.005859	.006016
%RSD	.8898270	.2901065	.2668562	.1801985	.2870147	.4536827	.1028726
#1	11.02913	.2283779	.4239943	.6671565	.1880143	1.291796	5.842169
#2	10.99005	.2270718	.4242265	.6677274	.1870145	1.285328	5.854119
#3	11.17674	.2278997	.4260633	.6694677	.1878614	1.297023	5.846928

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-06A Acquired: 1/28/2025 14:28:58 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3644139	.1799049	.2200735
Stddev	.0020152	.0009722	.0005982
%RSD	.5530008	.5404022	.2718271
#1	.3660115	.1803458	.2204715
#2	.3621499	.1787903	.2193856
#3	.3650803	.1805784	.2203634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.723	55470.53	11380.97	1717.333	3903.482
Stddev	6.723	97.16	38.73	5.038	5.672
%RSD	.2601910	.1751623	.3403084	.2933552	.1452996
#1	2585.296	55509.42	11354.37	1720.597	3906.449
#2	2589.520	55359.95	11363.14	1711.530	3907.056
#3	2576.353	55542.22	11425.40	1719.870	3896.942

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV03 Acquired: 1/28/2025 14:33:07 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	5.054412	5.090791	5.055456	5.107049	5.144293	9.926011	9.468645
Stddev	.009112	.023046	.008339	.009295	.011568	.023302	.064603
%RSD	.1802822	.4526923	.1649521	.1820074	.2248609	.2347556	.6822871
#1	5.044350	5.064295	5.046248	5.099401	5.131999	9.946200	9.418686
#2	5.056780	5.101900	5.057621	5.104351	5.145919	9.900512	9.541600
#3	5.062107	5.106179	5.062499	5.117394	5.154962	9.931320	9.445648

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2468162	2.504864	24.03059	1.036033	2.497307	1.291077	4.844529
Stddev	.0013615	.005374	.12897	.002235	.005010	.002143	.017239
%RSD	.5516202	.2145393	.5367109	.2157442	.2005980	.1659790	.3558344
#1	.2471546	2.502115	23.99676	1.035333	2.493335	1.289751	4.841121
#2	.2453174	2.501420	23.92190	1.034232	2.495653	1.289931	4.829249
#3	.2479765	2.511056	24.17310	1.038534	2.502935	1.293549	4.863217

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.304393	23.90997	2.519097	1.260930	23.34112	2.428229	2.576901
Stddev	.011711	.16857	.004762	.001383	.04391	.005160	.010741
%RSD	.5082192	.7050171	.1890309	.1096857	.1881434	.2125172	.4168309
#1	2.302764	23.84963	2.516870	1.261482	23.35769	2.428244	2.565683
#2	2.293581	23.77986	2.515856	1.261951	23.37434	2.423061	2.587092
#3	2.316833	24.10040	2.524564	1.259356	23.29133	2.433382	2.577929

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.72449	4.857419	5.141335	5.038570	4.779171	5.040199	5.133644
Stddev	.04602	.014708	.010576	.012457	.009382	.025641	.021783
%RSD	.1939619	.3028001	.2057075	.2472353	.1963120	.5087276	.4243259
#1	23.67419	4.860015	5.133544	5.031284	4.779911	5.014279	5.112138
#2	23.76447	4.841586	5.137087	5.031473	4.769441	5.040765	5.133098
#3	23.73480	4.870657	5.153375	5.052954	4.788162	5.065552	5.155695

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV03 Acquired: 1/28/2025 14:33:07 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.026753	4.732905	4.781212
Stddev	.025920	.014499	.073617
%RSD	.5156377	.3063532	1.539711
#1	5.003973	4.747210	4.696843
#2	5.021331	4.733287	4.832387
#3	5.054955	4.718219	4.814405

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2751.633	57856.23	10906.06	1835.597	4123.221
Stddev	3.761	159.18	51.43	10.601	5.926
%RSD	.1366706	.2751239	.4715270	.5774971	.1437308
#1	2752.487	57992.45	10926.52	1847.320	4123.148
#2	2754.894	57894.97	10944.11	1826.686	4129.184
#3	2747.519	57681.25	10847.56	1832.785	4117.332

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB03 Acquired: 1/28/2025 14:37:19 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0007867	.0015278	.0000289	.0007376	-.000898	.0014765	-.001178
Stddev	.0015467	.0008870	.0001513	.0019705	.000292	.0033550	.000915
%RSD	196.5997	58.05449	522.9938	267.1348	32.48407	227.2249	77.67165
#1	-.000262	.0015901	-.000124	.0030033	-.000701	.0014079	-.002110
#2	.002563	.0023820	.000032	-.000577	-.001233	.0048653	-.000281
#3	.000059	.0006113	.000179	-.000213	-.000760	-.001844	-.001144

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000990	.0000014	-.004002	.0000581	-.000042	-.000111	-.010022
Stddev	.0000205	.0000365	.005138	.0001042	.000252	.000346	.001283
%RSD	20.68900	2655.268	128.3914	179.1526	597.9217	311.2097	12.80389
#1	.0000877	-.000006	-.007982	.0000001	.000229	-.000200	-.008651
#2	.0001226	.000041	.001799	.0001784	-.000084	-.000404	-.010223
#3	.0000866	-.000031	-.005823	-.000004	-.000271	.000270	-.011194

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	-.002986	-.000194	.0008765	.0109257	-.000103	-.001333
Stddev	.000061	.002214	.000176	.0001447	.0155832	.001720	.000090
%RSD	7051.445	74.12692	90.51349	16.51237	142.6284	1676.499	6.721862
#1	.000047	-.004192	-.000360	.0007458	-.006709	.001697	-.001284
#2	.000020	-.000432	-.000214	.0008516	.016644	-.001732	-.001436
#3	-.000070	-.004335	-.000010	.0010320	.022842	-.000273	-.001278

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0273977	.0035056	-.000062	-.000023	.0010229	-.005839	-.005869
Stddev	.0345662	.0004574	.000134	.000400	.0002869	.007484	.000644
%RSD	126.1643	13.04897	217.3158	1730.946	28.04206	128.1763	10.96504
#1	.0414759	.0032846	-.000196	.000260	.0007331	-.002118	-.005711
#2	-.011986	.0040315	.000072	-.000480	.0010289	-.000944	-.005320
#3	.052703	.0032006	-.000061	.000151	.0013067	-.014453	-.006577

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB03 Acquired: 1/28/2025 14:37:19 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003152	.0000100	.0000145
Stddev	.003945	.0011884	.0000133
%RSD	125.1513	11907.78	91.71231
#1	-.002443	-.000154	.0000203
#2	-.007403	-.001088	.0000240
#3	.000390	.001272	-.000001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2871.001	60092.09	11338.84	1945.916	4602.168
Stddev	7.163	81.06	81.06	11.879	9.871
%RSD	.2494929	.1348888	.7148668	.6104535	.2144850
#1	2875.783	60002.70	11431.69	1950.824	4608.122
#2	2874.454	60112.77	11302.62	1932.370	4607.608
#3	2862.766	60160.81	11282.21	1954.555	4590.774

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166211TB Acquired: 1/28/2025 14:41:40 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009236	-.011624	-.000031	.0099538	.0019364	.0062209
Stddev	.001048	.000852	.001366	.0026174	.0003577	.0063777
%RSD	11.35146	7.325256	4407.232	26.29543	18.47064	102.5201
#1	-.008182	-.011549	.001019	.0104116	.0015244	.0120589
#2	-.009247	-.012511	-.001575	.0071377	.0021674	.0071895
#3	-.010279	-.010813	.000463	.0123121	.0021173	-.000586

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003163	-.000158	-.000274	-.001455	.0007628	-.000478
Stddev	.000315	.000050	.000049	.002300	.0001343	.000220
%RSD	9.968465	31.36550	17.84890	158.1020	17.60336	46.05682
#1	-.002919	-.000203	-.000327	-.002105	.0008952	-.000404
#2	-.003519	-.000105	-.000263	.001100	.0006267	-.000304
#3	-.003052	-.000166	-.000232	-.003359	.0007665	-.000725

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011966	-.002099	.0007289	-.001006	-.000135	.0011009
Stddev	.0002730	.001851	.0001214	.009656	.000428	.0001926
%RSD	22.81782	88.15324	16.64931	960.1417	318.0642	17.49112
#1	.0010219	-.003924	.0005945	.007860	-.000213	.0009710
#2	.0015112	-.000224	.0008305	.000417	.000327	.0010095
#3	.0010565	-.002150	.0007615	-.011294	-.000519	.0013221

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 339.9094	.0009107	.0009309	-.006977	.0006125	.0007856
Stddev	2.2873	.0020880	.0002684	.019029	.0004447	.0000912
%RSD	.6729100	229.2852	28.83256	272.7337	72.60885	11.61022
#1	341.3720	.0032850	.0010927	-.009130	.0001269	.0006815
#2	341.0827	.0000859	.0006211	.013037	.0007106	.0008512
#3	337.2736	-.000639	.0010789	-.024837	.0009999	.0008242

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166211TB Acquired: 1/28/2025 14:41:40 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028957	.0010671	.0098117	.0035724	F .0365089	-.003922
Stddev	.0006095	.0006899	.0058567	.0017001	.0016337	.000936
%RSD	21.04775	64.65750	59.69060	47.58998	4.474786	23.87131
#1	.0022222	.0009802	.0163269	.0054440	.0382964	-.002842
#2	.0030555	.0004247	.0049841	.0031497	.0350931	-.004423
#3	.0034093	.0017963	.0081242	.0021235	.0361372	-.004501

Elem	Sr4077
Units	ppm
Avg	-.000046
Stddev	.000013
%RSD	29.56394
#1	-.000051
#2	-.000030
#3	-.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.134	54397.01	11382.14	1719.683	3863.526
Stddev	5.889	56.71	38.73	6.507	9.817
%RSD	.2323101	.1042437	.3402751	.3783908	.2540890
#1	2541.377	54331.70	11357.12	1716.995	3873.856
#2	2534.347	54433.72	11362.56	1714.951	3862.404
#3	2529.677	54425.62	11426.75	1727.104	3854.318

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166266BL Acquired: 1/28/2025 14:46:08 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000689	-.001435	.0002956	.0015156	-.000868	.0014305	-.001391
Stddev	.001127	.001487	.0002164	.0027581	.000712	.0019633	.000892
%RSD	163.6347	103.6870	73.21983	181.9889	82.01275	137.2475	64.10304
#1	-.000678	-.003152	.0003742	-.001669	-.000625	-.000230	-.001640
#2	-.001821	-.000564	.0000508	.003089	-.000310	.000924	-.000401
#3	.000433	-.000588	.0004616	.003126	-.001670	.003598	-.002132

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000614	-.000123	-.006963	.0002066	-.000215	-.000305	-.006998
Stddev	.0000273	.000040	.006041	.0001564	.000122	.000206	.001876
%RSD	44.42992	32.68935	86.74733	75.67065	56.72332	67.71498	26.80234
#1	.0000430	-.000107	-.013938	.0003199	-.000121	-.000524	-.005111
#2	.0000927	-.000170	-.003520	.0002718	-.000353	-.000115	-.008862
#3	.0000484	-.000094	-.003432	.0000282	-.000172	-.000275	-.007020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000899	-.008594	-.000162	.0010109	.0322049	-.000072	-.001384
Stddev	.0000629	.010949	.000125	.0002784	.0093855	.001019	.000209
%RSD	69.97749	127.4123	76.97037	27.54116	29.14317	1408.734	15.08153
#1	.0000228	-.015940	-.000047	.0008641	.0391286	.001078	-.001624
#2	.0000992	-.013832	-.000295	.0008366	.0359636	-.000863	-.001259
#3	.0001475	.003991	-.000144	.0013320	.0215226	-.000432	-.001267

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.043668	-.000454	-.000113	-.000881	.0011852	-.004639	-.005069
Stddev	.021740	.000449	.000220	.000450	.0007676	.001171	.001909
%RSD	49.78374	98.77824	194.6849	51.07183	64.76188	25.23348	37.66430
#1	-.018634	-.000521	-.000040	-.000629	.0002991	-.003890	-.007254
#2	-.057795	.000024	.000061	-.000614	.0016139	-.005988	-.003722
#3	-.054574	-.000866	-.000360	-.001400	.0016427	-.004039	-.004232

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166266BL Acquired: 1/28/2025 14:46:08 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005776	-.000422	-.000019
Stddev	.001963	.000553	.000010
%RSD	33.98535	131.1359	53.07816
#1	-.004394	-.000215	-.000025
#2	-.004911	-.000002	-.000026
#3	-.008022	-.001048	-.000007

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2891.442	62461.29	11961.40	1945.465	4664.269
Stddev	3.483	246.65	20.30	5.835	9.539
%RSD	.1204565	.3948906	.1697101	.2999482	.2045057
#1	2892.928	62443.05	11939.02	1951.157	4665.889
#2	2893.935	62224.26	11978.63	1939.496	4672.894
#3	2887.462	62716.56	11966.55	1945.744	4654.024

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166266BS Acquired: 1/28/2025 14:50:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7774011	1.952453	.9551449	1.944739	.7714439	1.824925
Stddev	.0043871	.013034	.0025683	.010445	.0046678	.000830
%RSD	.5643259	.6675596	.2688915	.5370864	.6050731	.0455010
#1	.7732353	1.959084	.9522029	1.946120	.7713069	1.824628
#2	.7769877	1.937437	.9562927	1.933672	.7668462	1.824283
#3	.7819802	1.960839	.9569392	1.954424	.7761788	1.825863

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1697217	.1820133	.1867379	.9214745	.3986609	.1869229
Stddev	.0002839	.0004343	.0006271	.0055332	.0012166	.0003241
%RSD	.1672797	.2385824	.3357999	.6004746	.3051744	.1733847
#1	.1697219	.1816976	.1862005	.9247931	.3974452	.1868421
#2	.1700056	.1825085	.1865862	.9245436	.3998785	.1866468
#3	.1694378	.1818339	.1874269	.9150869	.3986591	.1872797

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3033527	2.796475	.1737486	1.754079	.4748129	.0728180
Stddev	.0010651	.020285	.0012254	.015850	.0016069	.0001377
%RSD	.3511127	.7253715	.7052820	.9035880	.3384292	.1890903
#1	.3031200	2.773156	.1723416	1.766371	.4730608	.0729637
#2	.3024232	2.806226	.1745819	1.759676	.4751600	.0726901
#3	.3045150	2.810043	.1743224	1.736190	.4762179	.0728001

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.564660	.2703166	.1993980	8.909878	.2546198	.3943467
Stddev	.017414	.0022580	.0012260	.034110	.0008014	.0011573
%RSD	.6790126	.8353141	.6148492	.3828309	.3147405	.2934616
#1	2.552837	.2681309	.1985334	8.872351	.2537984	.3936749
#2	2.556485	.2701785	.2008011	8.918285	.2553995	.3936821
#3	2.584658	.2726405	.1988596	8.938999	.2546616	.3956829

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166266BS Acquired: 1/28/2025 14:50:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6546828	.1769178	F .6682210	5.460458	F -.015150	.1808394
Stddev	.0014534	.0002624	.0012734	.025294	.001171	.0007910
%RSD	.2220035	.1483022	.1905680	.4632183	7.727182	.4373914
#1	.6541012	.1766161	.6692003	5.452311	-.013955	.1805668
#2	.6536103	.1770928	.6667814	5.440242	-.015200	.1802207
#3	.6563370	.1770444	.6686813	5.488821	-.016294	.1817306

Elem	Sr4077
Units	ppm
Avg	.1755419
Stddev	.0003203
%RSD	.1824342
#1	.1753137
#2	.1754039
#3	.1759080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2894.610	60701.36	11752.52	1931.186	4563.939
Stddev	4.789	72.90	50.05	3.051	7.960
%RSD	.1654377	.1200988	.4258372	.1579862	.1744111
#1	2896.371	60693.27	11743.63	1928.462	4571.485
#2	2898.269	60632.85	11707.51	1930.613	4564.711
#3	2889.190	60777.97	11806.41	1934.483	4555.622

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05DUP Acquired: 1/28/2025 14:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1128682	-.000352	.2385902	-.010084	.0060436	64.01962	.3145561
Stddev	.0034021	.003042	.0006870	.002820	.0004704	.10389	.0008230
%RSD	3.014222	864.9651	.2879393	27.96632	7.783288	.1622759	.2616344
#1	.1141490	-.002106	.2391814	-.008374	.0062081	63.91855	.3143117
#2	.1090116	.003161	.2378365	-.008539	.0055130	64.01418	.3154736
#3	.1154439	-.002110	.2387526	-.013340	.0064097	64.12612	.3138830

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077126	.0061023	42.19160	.2974598	.0499980	.1881768	232.8239
Stddev	.0001715	.0003409	.08351	.0008789	.0001100	.0002595	.6978
%RSD	2.223879	5.586653	.1979340	.2954713	.2199016	.1378947	.2996906
#1	.0076308	.0061913	42.21497	.2967147	.0500778	.1879346	232.5558
#2	.0079097	.0063898	42.26094	.2972356	.0498726	.1884507	232.3001
#3	.0075973	.0057257	42.09889	.2984290	.0500435	.1881450	233.6160

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.208588	29.93991	.0877980	-.003119	.3608155	.4903223	.4915349
Stddev	.002167	.07969	.0000429	.000193	.0074526	.0010692	.0019052
%RSD	.1793367	.2661794	.0489020	6.198076	2.065499	.2180608	.3875995
#1	1.210275	29.99065	.0877934	-.003214	.3627964	.4907110	.4900397
#2	1.209346	29.98103	.0877575	-.003246	.3525726	.4911428	.4908850
#3	1.206143	29.84806	.0878430	-.002896	.3670776	.4891131	.4936800

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.21302	-.441318	.0081345	.0176916	1.112447	5.268850	4.714124
Stddev	.07983	.004775	.0004517	.0013296	.002196	.032213	.015928
%RSD	.6536682	1.082023	5.552759	7.515286	.1974183	.6113887	.3378877
#1	12.16292	-.444679	.0086385	.0166796	1.109925	5.248120	4.706533
#2	12.17106	-.443424	.0079987	.0191974	1.113480	5.252468	4.703411
#3	12.30509	-.435852	.0077662	.0171978	1.113937	5.305962	4.732428

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05DUP Acquired: 1/28/2025 14:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5543031	.0309634	-.157855
Stddev	.0036848	.0005779	.000779
%RSD	.6647643	1.866448	.4932047
#1	.5574462	.0306625	-.157563
#2	.5502479	.0316297	-.157265
#3	.5552153	.0305981	-.158738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2955.233	62041.42	12189.03	1980.009	4203.833
Stddev	7.630	113.34	63.52	4.220	6.053
%RSD	.2581696	.1826883	.5211630	.2131352	.1439947
#1	2947.172	62102.10	12153.59	1984.627	4198.470
#2	2956.185	62111.50	12151.13	1976.352	4202.632
#3	2962.342	61910.66	12262.37	1979.049	4210.396

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05LX5 Acquired: 1/28/2025 14:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211749	-.000390	.0516207	-.000457	.0008449	13.69740	.0672723
Stddev	.0013232	.000483	.0008056	.002127	.0001975	.01929	.0003315
%RSD	6.248820	123.9071	1.560660	465.2445	23.37809	.1408222	.4927105
#1	.0222939	-.000244	.0511358	-.002272	.0008343	13.67623	.0675492
#2	.0215164	.000003	.0525507	-.000983	.0010475	13.70199	.0673627
#3	.0197145	-.000929	.0511757	.001883	.0006529	13.71398	.0669050

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017378	.0003942	9.230940	.0638912	.0098995	.0419897	50.21258
Stddev	.0000285	.0000181	.048741	.0007370	.0000883	.0004150	.26134
%RSD	1.642070	4.595852	.5280188	1.153571	.8916721	.9884620	.5204700
#1	.0017358	.0004151	9.177888	.0637150	.0099665	.0424448	49.98503
#2	.0017104	.0003849	9.241192	.0632582	.0097994	.0416320	50.15470
#3	.0017673	.0003827	9.273740	.0647003	.0099324	.0418923	50.49801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2665874	6.510666	.0180337	-.000173	.0390795	.1049161	.1024879
Stddev	.0014076	.049838	.0001469	.000255	.0058957	.0014149	.0004140
%RSD	.5279886	.7654766	.8146903	146.7420	15.08645	1.348588	.4039700
#1	.2650793	6.453534	.0180403	.000103	.0340640	.1048524	.1021747
#2	.2668164	6.533248	.0181772	-.000226	.0376006	.1063617	.1029573
#3	.2678663	6.545214	.0178836	-.000398	.0455739	.1035341	.1023316

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.558220	-.096151	.0015375	.0016268	.2420230	1.214102	.9724723
Stddev	.021370	.000911	.0000757	.0002630	.0003473	.005636	.0037303
%RSD	.8353369	.9470996	4.925297	16.16459	.1434879	.4641923	.3835857
#1	2.554317	-.096256	.0014826	.0018906	.2417332	1.215771	.9765795
#2	2.539070	-.095193	.0016239	.0013647	.2419280	1.207821	.9715423
#3	2.581271	-.097005	.0015061	.0016251	.2424079	1.218716	.9692949

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05LX5 Acquired: 1/28/2025 14:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1120258	.0055671	-.033906
Stddev	.0013794	.0010830	.000264
%RSD	1.231276	19.45282	.7789875
#1	.1121674	.0046560	-.033682
#2	.1105811	.0052809	-.033837
#3	.1133289	.0067644	-.034197

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.795	61651.62	11914.83	1982.164	4431.333
Stddev	.918	224.27	47.02	9.507	1.066
%RSD	.0316746	.3637735	.3946631	.4796496	.0240635
#1	2897.682	61849.65	11967.41	1992.283	4430.882
#2	2895.850	61697.12	11876.80	1973.417	4430.567
#3	2896.853	61408.08	11900.30	1980.793	4432.551

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05MS Acquired: 1/28/2025 15:02:50 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8423991	1.874662	1.228618	1.735746	.4244154	85.32334
Stddev	.0025814	.005768	.002557	.005963	.0011057	.08785
%RSD	.3064286	.3076952	.2081270	.3435529	.2605263	.1029603
#1	.8414437	1.877054	1.228412	1.735216	.4231869	85.29318
#2	.8404316	1.878849	1.226171	1.730065	.4247285	85.25454
#3	.8453219	1.868082	1.231272	1.741956	.4253308	85.42230

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5161243	.1758076	.1963300	47.04854	.6811945	.2443201
Stddev	.0018364	.0005831	.0008451	.06458	.0022586	.0010131
%RSD	.3558120	.3316602	.4304357	.1372692	.3315588	.4146656
#1	.5155423	.1764801	.1962928	47.12228	.6837512	.2446563
#2	.5146494	.1754991	.1955041	47.00203	.6803621	.2431816
#3	.5181812	.1754436	.1971930	47.02131	.6794703	.2451223

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4645607	237.3710	1.432001	35.45066	.5792546	.0702805
Stddev	.0020852	.4027	.004840	.02529	.0021625	.0003485
%RSD	.4488638	.1696570	.3379985	.0713306	.3733300	.4958934
#1	.4641771	237.5204	1.432809	35.45836	.5798230	.0706611
#2	.4626939	236.9150	1.426808	35.47120	.5768646	.0699769
#3	.4668111	237.6777	1.436386	35.42242	.5810761	.0702036

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.166513	.7301434	.6905480	23.18461	-.188059	.3699937
Stddev	.014249	.0038131	.0033921	.04665	.004635	.0005939
%RSD	.4500018	.5222447	.4912164	.2011997	2.464747	.1605245
#1	3.150435	.7340594	.6921062	23.13232	-.183499	.3698899
#2	3.171522	.7299286	.6928810	23.22196	-.192765	.3694585
#3	3.177581	.7264422	.6866568	23.19954	-.187913	.3706327

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05MS Acquired: 1/28/2025 15:02:50 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6583582	1.199675	5.953543	F 10.58471	.6578476	.2352687
Stddev	.0023469	.005029	.022840	.01940	.0068696	.0016234
%RSD	.3564814	.4191608	.3836335	.1832731	1.044259	.6900194
#1	.6597172	1.202944	5.937076	10.60596	.6657784	.2344760
#2	.6556482	1.193884	5.979617	10.56795	.6540208	.2341940
#3	.6597092	1.202195	5.943935	10.58023	.6537437	.2371362

Elem	Sr4077
Units	ppm
Avg	.0160076
Stddev	.0006254
%RSD	3.906704
#1	.0157895
#2	.0155205
#3	.0167128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.407	61274.16	12373.42	1920.836	4042.879
Stddev	7.279	163.97	40.16	1.487	11.302
%RSD	.2550867	.2675954	.3245387	.0774081	.2795458
#1	2857.696	61085.96	12329.76	1919.243	4043.202
#2	2857.523	61386.15	12408.78	1922.186	4054.016
#3	2845.003	61350.38	12381.73	1921.081	4031.420

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05MSD Acquired: 1/28/2025 15:06:48 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8497754	1.886711	1.243119	1.733559	.4278586	87.21012
Stddev	.0068836	.015143	.001998	.003050	.0007609	.08332
%RSD	.8100443	.8026393	.1606986	.1759117	.1778376	.0955346
#1	.8434351	1.904130	1.243188	1.730062	.4285755	87.25211
#2	.8570969	1.879334	1.245082	1.734952	.4279400	87.11417
#3	.8487943	1.876670	1.241088	1.735663	.4270603	87.26409

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5304511	.1738787	.1982940	47.75386	.6876131	.2474649
Stddev	.0012060	.0006122	.0006526	.05643	.0018978	.0003567
%RSD	.2273504	.3520539	.3291248	.1181631	.2759947	.1441258
#1	.5291764	.1740901	.1989200	47.76189	.6854227	.2470618
#2	.5315739	.1731889	.1976177	47.69384	.6886535	.2477396
#3	.5306031	.1743572	.1983444	47.80584	.6887632	.2475935

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4675505	242.7304	1.459080	35.91380	.5863259	.0714339
Stddev	.0013157	1.3280	.001628	.02406	.0005215	.0003849
%RSD	.2813949	.5470958	.1115821	.0669988	.0889421	.5388412
#1	.4688251	241.4832	1.457201	35.94071	.5860403	.0715093
#2	.4661973	244.1266	1.460049	35.90634	.5869279	.0717756
#3	.4676292	242.5813	1.459991	35.89436	.5860097	.0710169

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.302435	.7424790	.6946544	23.93017	-.184838	.3760183
Stddev	.020731	.0029005	.0031854	.18034	.002140	.0010897
%RSD	.6277534	.3906499	.4585628	.7536213	1.157962	.2898000
#1	3.281435	.7397214	.6913534	23.74828	-.185659	.3756379
#2	3.322887	.7455039	.6977101	24.10893	-.182408	.3751697
#3	3.302982	.7422119	.6948998	23.93331	-.186446	.3772472

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05MSD Acquired: 1/28/2025 15:06:48 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6620156	1.227077	6.147579	F 10.53562	.6571883	.2448723
Stddev	.0014179	.000116	.043401	.04414	.0070326	.0006802
%RSD	.2141781	.0094165	.7059908	.4189656	1.070100	.2777872
#1	.6635325	1.227205	6.098978	10.58617	.6646914	.2445682
#2	.6617907	1.226981	6.182469	10.51598	.6507471	.2456515
#3	.6607236	1.227044	6.161290	10.50470	.6561264	.2443972

Elem	Sr4077
Units	ppm
Avg	.0167417
Stddev	.0010858
%RSD	6.485488
#1	.0177344
#2	.0155822
#3	.0169085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2832.763	60917.52	12365.79	1889.615	4016.442
Stddev	10.256	194.65	27.60	13.362	8.648
%RSD	.3620508	.3195336	.2231657	.7071262	.2153133
#1	2843.337	61047.67	12342.13	1898.653	4026.243
#2	2832.094	60693.75	12396.11	1874.267	4009.885
#3	2822.858	61011.15	12359.14	1895.926	4013.198

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05A Acquired: 1/28/2025 15:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8443026	1.825299	1.241705	1.719624	.4263053	86.20027
Stddev	.0009627	.010413	.001998	.004870	.0024970	.09247
%RSD	.1140231	.5704860	.1609292	.2831869	.5857399	.1072782
#1	.8436285	1.813958	1.240135	1.714920	.4247096	86.27918
#2	.8438741	1.827512	1.243955	1.719307	.4250233	86.09852
#3	.8454051	1.834428	1.241027	1.724644	.4291829	86.22311

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5213695	.1747704	.1979605	47.18437	.6882934	.2467311
Stddev	.0008240	.0005342	.0005336	.07058	.0012189	.0002646
%RSD	.1580386	.3056593	.2695452	.1495886	.1770965	.1072605
#1	.5221076	.1749285	.1982767	47.13263	.6889787	.2465005
#2	.5204805	.1752077	.1982603	47.26478	.6868861	.2470200
#3	.5215205	.1741750	.1973444	47.15572	.6890156	.2466729

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4661028	240.4892	1.429864	35.36306	.5856884	.0708395
Stddev	.0012545	1.0307	.001765	.02923	.0006342	.0006619
%RSD	.2691461	.4285744	.1234571	.0826650	.1082858	.9343113
#1	.4654405	240.4873	1.431303	35.33068	.5863019	.0705749
#2	.4675496	239.4595	1.427895	35.38751	.5857280	.0703508
#3	.4653182	241.5209	1.430395	35.37097	.5850353	.0715927

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.208745	.7328170	.6999980	23.43407	-.188660	.3721432
Stddev	.020357	.0008691	.0012191	.13999	.001985	.0007347
%RSD	.6344316	.1185987	.1741613	.5973688	1.052149	.1974244
#1	3.219015	.7319217	.7011574	23.44414	-.187517	.3717065
#2	3.185299	.7328720	.6987269	23.28932	-.190953	.3729915
#3	3.221922	.7336573	.7001098	23.56875	-.187511	.3717317

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: Q1169-05A Acquired: 1/28/2025 15:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6623131	1.216039	6.469424	F 10.70112	.6554219	.2384402
Stddev	.0014528	.002404	.013914	.01781	.0070250	.0013329
%RSD	.2193498	.1976610	.2150740	.1664344	1.071827	.5590236
#1	.6607705	1.218020	6.475016	10.68361	.6477327	.2399581
#2	.6636553	1.213365	6.453584	10.70053	.6570286	.2374604
#3	.6625134	1.216734	6.479673	10.71922	.6615043	.2379021

Elem	Sr4077
Units	ppm
Avg	.0161112
Stddev	.0010043
%RSD	6.233400
#1	.0162458
#2	.0170413
#3	.0150463

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2842.983	60533.76	12384.74	1898.604	4019.552
Stddev	1.391	187.82	40.86	3.182	4.733
%RSD	.0489266	.3102762	.3298980	.1676022	.1177599
#1	2841.643	60625.27	12418.77	1895.630	4014.135
#2	2842.886	60658.29	12339.42	1901.960	4022.889
#3	2844.420	60317.73	12396.02	1898.224	4021.633

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166268BL Acquired: 1/28/2025 15:14:43 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000137	.0002816	.0010254	.0024811	-.000156	.0005932	-.001413
Stddev	.002790	.0007472	.0007931	.0005330	.000429	.0069956	.000844
%RSD	2032.986	265.2931	77.35209	21.48445	275.0347	1179.224	59.69642
#1	.001977	.0007585	.0010503	.0021761	-.000580	-.000537	-.001405
#2	-.003299	.0006659	.0018058	.0030966	.000278	.008085	-.002261
#3	.000911	-.000579	.0002201	.0021706	-.000166	-.005768	-.000574

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000431	-.000026	-.003923	.0002261	-.000195	.0000615	-.008015
Stddev	.0000155	.000065	.004647	.0002370	.000034	.0000520	.002602
%RSD	35.97504	248.3270	118.4354	104.8094	17.69258	84.44084	32.46042
#1	.0000314	.000000	-.001352	.0003979	-.000179	.0001044	-.008563
#2	.0000372	.000022	-.009287	-.000044	-.000171	.0000038	-.005183
#3	.0000607	-.000101	-.001130	.000325	-.000235	.0000764	-.010299

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000012	-.005402	-.000444	.0009044	-.058370	.0008651	-.001725
Stddev	.000161	.012705	.000335	.0003640	.006137	.0021641	.000138
%RSD	1376.835	235.1983	75.50070	40.24719	10.51439	250.1425	7.972710
#1	.000112	-.019825	-.000195	.0007123	-.054308	-.001160	-.001884
#2	.000047	-.000514	-.000825	.0006767	-.055373	.003145	-.001650
#3	-.000194	.004133	-.000312	.0013242	-.065430	.000610	-.001642

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.117871	-.001052	-.000177	-.000325	.0006726	-.007410	-.004442
Stddev	.042611	.000362	.000127	.000722	.0005960	.005246	.001234
%RSD	36.15074	34.40863	71.71656	222.1669	88.61476	70.79594	27.77124
#1	-.166162	-.001244	-.000322	.000383	.0008750	-.002679	-.004301
#2	-.101895	-.001277	-.000125	-.001060	.0000018	-.013052	-.005740
#3	-.085557	-.000634	-.000085	-.000297	.0011411	-.006500	-.003285

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166268BL Acquired: 1/28/2025 15:14:43 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006009	.0003277	-.000026
Stddev	.003051	.0007832	.000019
%RSD	50.78066	238.9622	73.82653
#1	-.002884	-.000140	-.000044
#2	-.006161	-.000109	-.000029
#3	-.008981	.001232	-.000006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2914.210	60501.56	11602.54	1958.227	4697.899
Stddev	4.288	88.91	59.97	2.059	2.859
%RSD	.1471249	.1469625	.5168629	.1051455	.0608622
#1	2913.017	60536.99	11610.87	1960.310	4701.076
#2	2918.968	60400.39	11657.91	1958.179	4695.532
#3	2910.645	60567.29	11538.84	1956.193	4697.088

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166268BS Acquired: 1/28/2025 15:19:04 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7835634	1.899340	.9706569	1.944935	.7879083	1.836653
Stddev	.0032350	.012091	.0023740	.009741	.0011696	.002742
%RSD	.4128615	.6365790	.2445805	.5008537	.1484405	.1493060
#1	.7860273	1.885380	.9699470	1.938271	.7868785	1.837691
#2	.7847629	1.906488	.9687189	1.940419	.7891799	1.838725
#3	.7798999	1.906151	.9733049	1.956115	.7876667	1.833543

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1717294	.1875876	.1896975	.9334175	.4021242	.1898619
Stddev	.0007288	.0017955	.0008152	.0106879	.0009082	.0008436
%RSD	.4244191	.9571812	.4297241	1.145023	.2258535	.4443258
#1	.1725241	.1896392	.1893864	.9454464	.4017740	.1893346
#2	.1710920	.1868209	.1890836	.9250135	.4031554	.1894163
#3	.1715721	.1863026	.1906224	.9297928	.4014432	.1908349

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3079496	2.810868	.1795927	1.794770	.4826279	.0736591
Stddev	.0006261	.017770	.0002169	.017944	.0021424	.0000604
%RSD	.2033110	.6321888	.1207465	.9998201	.4439016	.0819650
#1	.3073045	2.791689	.1797905	1.794685	.4817593	.0735901
#2	.3079894	2.826773	.1793608	1.776868	.4810561	.0737020
#3	.3085548	2.814144	.1796268	1.812757	.4850681	.0736852

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.498619	.2742203	.2012036	8.704031	.2619483	.4006077
Stddev	.024052	.0026740	.0019776	.084995	.0022750	.0013770
%RSD	.9626234	.9751182	.9828948	.9765068	.8684765	.3437376
#1	2.471016	.2772386	.2020870	8.617002	.2644299	.3991965
#2	2.509766	.2732745	.2025855	8.708258	.2599613	.4006787
#3	2.515076	.2721477	.1989383	8.786835	.2614539	.4019479

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: PB166268BS Acquired: 1/28/2025 15:19:04 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6693728	.1824167	F .6678008	5.689559	F -.015908	.1849305
Stddev	.0030131	.0008132	.0053484	.022247	.002228	.0009104
%RSD	.4501389	.4457835	.8009028	.3910102	14.00288	.4922840
#1	.6668561	.1818899	.6617296	5.668719	-.014856	.1838830
#2	.6685506	.1833533	.6698557	5.686971	-.014401	.1855309
#3	.6727116	.1820071	.6718169	5.712986	-.018466	.1853776

Elem	Sr4077
Units	ppm
Avg	.1796372
Stddev	.0002349
%RSD	.1307835
#1	.1799054
#2	.1794681
#3	.1795380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2898.331	61221.51	11527.91	1967.975	4553.119
Stddev	2.976	265.07	121.01	15.620	2.377
%RSD	.1026918	.4329678	1.049754	.7937053	.0522141
#1	2896.625	61261.79	11393.61	1960.262	4552.872
#2	2896.600	60938.61	11561.60	1957.711	4555.610
#3	2901.767	61464.14	11628.50	1985.951	4550.875

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV04 Acquired: 1/28/2025 15:32:42 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.846200	4.761511	4.918472	4.931073	5.026281	9.750950	9.322812
Stddev	.014362	.009098	.014526	.012962	.022235	.009747	.048843
%RSD	.2963516	.1910655	.2953340	.2628665	.4423808	.0999622	.5239101
#1	4.839458	4.759022	4.908874	4.919296	5.003065	9.754833	9.272524
#2	4.836451	4.753917	4.911358	4.928961	5.028394	9.758157	9.325844
#3	4.862693	4.771594	4.935184	4.944961	5.047385	9.739860	9.370069

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2358785	2.429814	23.59769	1.009151	2.419780	1.255662	4.915766
Stddev	.0012730	.006959	.06751	.002790	.008254	.003889	.041189
%RSD	.5396907	.2864010	.2860918	.2764859	.3411184	.3096850	.8378869
#1	.2369183	2.425437	23.59633	1.006251	2.412967	1.252589	4.889009
#2	.2362586	2.426167	23.66587	1.011817	2.417413	1.254363	4.895093
#3	.2344588	2.437838	23.53087	1.009383	2.428959	1.260033	4.963197

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.300461	23.61839	2.447021	1.222713	24.20737	2.385933	2.526746
Stddev	.002249	.11350	.007904	.001416	.30718	.004672	.013014
%RSD	.0977534	.4805637	.3230151	.1158274	1.268947	.1958157	.5150548
#1	2.298148	23.63505	2.442554	1.221247	23.95872	2.380584	2.511741
#2	2.300595	23.72264	2.442362	1.222818	24.11264	2.388002	2.533538
#3	2.302639	23.49748	2.456147	1.224073	24.55076	2.389213	2.534959

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.01835	4.626947	4.995176	4.895582	4.770088	5.130525	4.973146
Stddev	.29417	.034020	.014428	.013086	.008115	.023573	.025686
%RSD	1.224776	.7352496	.2888446	.2673010	.1701256	.4594578	.5164855
#1	23.74718	4.662132	4.983299	4.885441	4.765033	5.103580	4.949197
#2	23.97677	4.624484	4.990996	4.890951	4.765783	5.147339	4.969968
#3	24.33110	4.594226	5.011233	4.910354	4.779449	5.140655	5.000272

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV04 Acquired: 1/28/2025 15:32:42 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.839244	4.789937	4.799281
Stddev	.012986	.024334	.088395
%RSD	.2683535	.5080222	1.841847
#1	4.831075	4.780463	4.704866
#2	4.832439	4.771764	4.812904
#3	4.854219	4.817583	4.880075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.521	59011.42	11307.05	1881.425	4232.411
Stddev	2.513	162.26	53.34	9.297	3.482
%RSD	.0890746	.2749614	.4717380	.4941676	.0822707
#1	2823.653	59197.68	11263.60	1892.148	4232.130
#2	2822.160	58900.76	11290.97	1876.524	4236.025
#3	2818.750	58935.82	11366.58	1875.603	4229.078

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB04 Acquired: 1/28/2025 15:36:53 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.001690	.0009472	.0003421	.0019732	-.000551	-.001259	-.000081
Stddev	.002322	.0018219	.0005957	.0019234	.000960	.006274	.000448
%RSD	137.3348	192.3527	174.1285	97.47815	174.2081	498.1869	555.6079
#1	-.004013	.0017347	.0003745	.0041867	-.001636	-.003163	-.000500
#2	.000630	-.001136	-.000269	.0010252	-.000208	-.006361	.000392
#3	-.001688	.002243	.000921	.0007078	.000191	.005746	-.000135

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000751	-.000104	-.015080	-.000011	-.000103	-.000164	-.013247
Stddev	.0000668	.000068	.003770	.000149	.000031	.000048	.002443
%RSD	89.02838	65.42923	24.99779	1362.694	29.80319	29.60667	18.44175
#1	.0000145	-.000135	-.010883	.000136	-.000071	-.000147	-.011055
#2	.0001468	-.000152	-.018178	-.000006	-.000132	-.000218	-.015880
#3	.0000639	-.000026	-.016178	-.000163	-.000105	-.000126	-.012805

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000813	-.007360	-.000316	.0011777	-.050987	.0002926	-.001333
Stddev	.0003805	.002807	.000243	.0001558	.009553	.0015537	.000244
%RSD	467.9585	38.13497	76.84808	13.22653	18.73648	530.8832	18.31157
#1	.0003774	-.004244	-.000118	.0012422	-.041122	.0007026	-.001575
#2	-.000348	-.009689	-.000587	.0012909	-.051647	-.001425	-.001087
#3	.000214	-.008148	-.000243	.0010001	-.060194	.001600	-.001338

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.074481	.0050809	-.000226	.0000440	.0010328	-.003956	-.005716
Stddev	.016240	.0005354	.000067	.0004344	.0001021	.008186	.001023
%RSD	21.80358	10.53810	29.72823	988.0703	9.880747	206.9355	17.90273
#1	-.092595	.0056980	-.000165	-.000216	.0010992	-.011995	-.005111
#2	-.061225	.0048039	-.000215	-.000198	.0010840	.004370	-.006897
#3	-.069622	.0047406	-.000298	.000545	.0009153	-.004243	-.005139

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB04 Acquired: 1/28/2025 15:36:53 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004104	-.000538	.0000488
Stddev	.002236	.000388	.0000114
%RSD	54.46777	72.11393	23.36997
#1	-.002196	-.000244	.0000357
#2	-.006564	-.000978	.0000563
#3	-.003553	-.000392	.0000545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2920.341	61113.34	11647.61	1986.851	4665.723
Stddev	3.280	175.12	5.50	8.007	4.604
%RSD	.1123069	.2865483	.0471782	.4030132	.0986695
#1	2921.918	61115.93	11641.86	1991.356	4670.997
#2	2916.571	60936.94	11652.80	1991.592	4662.514
#3	2922.535	61287.15	11648.16	1977.606	4663.656

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LR1 Acquired: 1/28/2025 15:42:43 Type: Unk
Method: NON EPA-6010-200.7(v2637) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482909	.0867882	.0255637	-.031180	-.016298	2057.655	.0139934
Stddev	.0177561	.0096617	.0002744	.003117	.008738	5.115	.0009167
%RSD	36.76897	11.13245	1.073506	9.998161	53.61215	.2485825	6.550651
#1	.0346012	.0978242	.0252597	-.029627	-.013917	2051.749	.0129565
#2	.0419175	.0826848	.0257932	-.029144	-.008997	2060.684	.0146960
#3	.0683540	.0798554	.0256383	-.034768	-.025979	2060.532	.0143277

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072310	.0446517	1923.943	.0030267	.0322781	-.547347	1009.814
Stddev	.0002135	.0004076	7.112	.0003476	.0004424	.002064	1.834
%RSD	2.952166	.9128374	.3696538	11.48320	1.370714	.3771815	.1816655
#1	.0073039	.0441839	1918.313	.0032621	.0323255	-.547433	1008.263
#2	.0069906	.0448411	1921.581	.0031904	.0318138	-.545240	1009.339
#3	.0073984	.0449302	1931.936	.0026275	.0326949	-.549367	1011.839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113333	1675.798	.0078333	-.003790	2032.997	.0161407	.0767905
Stddev	.0009289	4.892	.0006961	.000143	17.305	.0017186	.0034520
%RSD	8.196269	.2918986	8.885758	3.771081	.8512043	10.64782	4.495375
#1	.0123969	1679.987	.0083659	-.003625	2052.250	.0146399	.0807584
#2	.0106813	1670.422	.0080883	-.003862	2018.740	.0157665	.0744773
#3	.0109217	1676.985	.0070457	-.003883	2027.999	.0180156	.0751359

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1288.311	^ *****	-.010544	.0124215	-.034530	.1462755	.0573731
Stddev	5.615	-----	.002077	.0020798	.000454	.0046707	.0072393
%RSD	.4358052	-----	19.69559	16.74325	1.313768	3.193098	12.61799
#1	1294.794	^ -----	-.012163	.0122930	-.034537	.1502915	.0519659
#2	1285.146	^ -----	-.011267	.0104089	-.034074	.1473850	.0655975
#3	1284.994	^ -----	-.008202	.0145625	-.034981	.1411499	.0545560

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LR1 Acquired: 1/28/2025 15:42:43 Type: Unk
Method: NON EPA-6010-200.7(v2637) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.215140	-.308820	-.998286
Stddev	.007804	.001314	.001788
%RSD	3.627194	.4254180	.1791509
#1	-.219380	-.307441	-.996779
#2	-.219905	-.308960	-.997816
#3	-.206134	-.310057	-1.00026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.631	40575.82	9688.362	1264.799	2452.251
Stddev	12.157	18.95	38.810	1.834	6.112
%RSD	.6356396	.0467040	.4005793	.1449986	.2492596
#1	1926.640	40561.96	9720.883	1262.916	2459.292
#2	1904.846	40597.42	9698.802	1266.580	2449.162
#3	1906.405	40568.08	9645.400	1264.901	2448.301

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LR2 Acquired: 1/28/2025 15:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2637) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031397	-.027260	234.4107	-.004655	.0022995	.0482639	^F *****
Stddev	.0022409	.001943	1.0223	.001666	.0008521	.0064757	-----
%RSD	71.37310	7.126679	.4361309	35.79897	37.05768	13.41729	-----
#1	.0005569	-.025327	233.4832	-.005879	.0013183	.0556938	^ -----
#2	.0042946	-.029212	234.2420	-.002757	.0028543	.0438192	^ -----
#3	.0045676	-.027242	235.5069	-.005328	.0027257	.0452787	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002571	-.005730	.2332964	.0091582	-.017048	270.7431	-.018616
Stddev	.000012	.000141	.0089698	.0005068	.000419	.4766	.001923
%RSD	.4697989	2.453682	3.844823	5.533388	2.458673	.1760374	10.32914
#1	-.002579	-.005632	.2429369	.0086027	-.017176	270.1993	-.017387
#2	-.002576	-.005667	.2251969	.0092768	-.016580	271.0883	-.020832
#3	-.002557	-.005891	.2317554	.0095952	-.017389	270.9416	-.017629

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.52183	-.095720	45.42284	.0048889	.2535159	-.010244	38.41964
Stddev	.17353	.008508	.19781	.0002262	.0018115	.001593	.20200
%RSD	.3730106	8.888434	.4354927	4.625984	.7145447	15.54906	.5257623
#1	46.53348	-.095674	45.24101	.0046941	.2554996	-.008520	38.62385
#2	46.34276	-.087235	45.39404	.0048356	.2530990	-.011661	38.41513
#3	46.68924	-.104251	45.63348	.0051369	.2519493	-.010551	38.21994

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2077928	.0013019	-.008247	-.005239	-.034757	-.011488	.1821932
Stddev	.0308406	.0002988	.000323	.000721	.000572	.003368	.0055607
%RSD	14.84200	22.95403	3.920001	13.76237	1.644695	29.31700	3.052092
#1	.2055919	.0009622	-.007888	-.005631	-.034999	-.015151	.1771799
#2	.2396749	.0014192	-.008339	-.005680	-.034104	-.008526	.1812255
#3	.1781116	.0015244	-.008514	-.004407	-.035168	-.010786	.1881742

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: LR2 Acquired: 1/28/2025 15:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2637) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.014273	-.000555	.0015329
Stddev	.002877	.000217	.0002207
%RSD	20.15752	39.13349	14.39712
#1	-.015722	-.000793	.0014115
#2	-.010959	-.000368	.0013995
#3	-.016137	-.000505	.0017876

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2664.680	58976.50	11915.29	1828.597	4318.840
Stddev	6.253	67.89	102.30	4.814	15.352
%RSD	.2346805	.1151186	.8585791	.2632571	.3554724
#1	2669.742	58899.42	11923.80	1831.930	4330.806
#2	2666.609	59002.67	12013.07	1823.078	4324.185
#3	2657.690	59027.41	11809.00	1830.782	4301.530

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV05 Acquired: 1/28/2025 15:52:17 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.891190	4.783709	4.941971	4.956827	5.010890	9.613504	9.152498
Stddev	.002519	.017705	.011150	.017313	.010544	.010085	.111562
%RSD	.0515041	.3701150	.2256239	.3492746	.2104314	.1049056	1.218926
#1	4.892119	4.777865	4.929193	4.972898	5.019879	9.604428	9.151033
#2	4.888338	4.803598	4.946994	4.938495	4.999283	9.624361	9.264785
#3	4.893113	4.769665	4.949727	4.959087	5.013507	9.611723	9.041675

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2387896	2.444533	23.40847	1.009356	2.428570	1.260967	4.816787
Stddev	.0011344	.004177	.05805	.001683	.002599	.000680	.015520
%RSD	.4750708	.1708829	.2479929	.1667785	.1070052	.0539167	.3222104
#1	.2400320	2.439710	23.47529	1.007568	2.425617	1.261201	4.802455
#2	.2378089	2.446861	23.37977	1.010910	2.430511	1.260201	4.833271
#3	.2385279	2.447027	23.37037	1.009590	2.429581	1.261499	4.814634

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.265504	23.38467	2.458798	1.224823	23.33252	2.357430	2.462507
Stddev	.003754	.04166	.002742	.001609	.17966	.004008	.008032
%RSD	.1657099	.1781414	.1115146	.1313686	.7700158	.1699982	.3261791
#1	2.268300	23.42312	2.455701	1.223626	23.14349	2.358691	2.455130
#2	2.266974	23.34041	2.459777	1.224191	23.50107	2.360656	2.461328
#3	2.261237	23.39048	2.460916	1.226652	23.35299	2.352944	2.471064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.43125	4.668382	4.983184	4.920853	4.692579	4.992806	5.047865
Stddev	.16447	.026436	.004807	.007320	.003267	.048049	.022516
%RSD	.7019110	.5662826	.0964664	.1487486	.0696128	.9623690	.4460518
#1	23.24279	4.690116	4.981350	4.912447	4.696120	4.948095	5.023047
#2	23.54578	4.638952	4.979564	4.925818	4.691933	4.986711	5.053562
#3	23.50517	4.676079	4.988638	4.924294	4.689683	5.043612	5.066985

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCV05 Acquired: 1/28/2025 15:52:17 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.888206	4.652037	4.734022
Stddev	.005889	.005879	.056466
%RSD	.1204809	.1263810	1.192779
#1	4.881406	4.645267	4.787007
#2	4.891546	4.654991	4.674622
#3	4.891667	4.655854	4.740436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.697	58581.93	11161.87	1878.567	4171.071
Stddev	4.566	66.36	72.07	9.132	3.663
%RSD	.1636641	.1132758	.6456942	.4861001	.0878132
#1	2786.501	58604.48	11078.65	1882.912	4171.523
#2	2794.926	58507.23	11204.00	1884.715	4174.487
#3	2787.663	58634.07	11202.96	1868.074	4167.203

Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB05 Acquired: 1/28/2025 15:56:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000004	.0006334	.0019950	.0011392	-.000382	.0072241	-.001332
Stddev	.001723	.0001607	.0008345	.0007511	.001243	.0013472	.000251
%RSD	44060.36	25.37074	41.82659	65.93120	325.2921	18.64797	18.84143
#1	.001884	.0008162	.0012103	.0019909	-.001600	.0075986	-.001494
#2	-.001493	.0005698	.0028716	.0008554	.000885	.0083444	-.001043
#3	-.000403	.0005143	.0019032	.0005714	-.000432	.0057294	-.001459

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000323	-.000056	-.000228	.0001399	-.000109	.0002043	-.006177
Stddev	.0000509	.000014	.010416	.0002310	.000104	.0003609	.004786
%RSD	157.4871	25.53835	4566.402	165.0760	95.20869	176.6908	77.47533
#1	.0000909	-.000061	.008961	.0001688	-.000138	-.000126	-.009063
#2	-.000002	-.000067	-.011544	-.000104	.000006	.000149	-.008815
#3	.000008	-.000040	.001899	.000355	-.000197	.000590	-.000653

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001277	-.006049	-.000428	.0008712	.0716139	.0003220	-.001384
Stddev	.0002268	.014672	.000201	.0002976	.0100572	.0006916	.000209
%RSD	177.5385	242.5537	47.01441	34.16019	14.04369	214.7940	15.10170
#1	.0001492	-.014123	-.000445	.0007152	.0603913	.0010498	-.001157
#2	-.000109	.010887	-.000219	.0012144	.0746392	-.000327	-.001426
#3	.000343	-.014911	-.000621	.0006841	.0798113	.000243	-.001569

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0341053	.0035279	.0001070	-.000204	.0008169	-.004198	-.003752
Stddev	.0185475	.0006119	.0002839	.000454	.0001984	.003763	.001375
%RSD	54.38300	17.34330	265.3900	222.4800	24.29189	89.64214	36.65135
#1	.0221734	.0041156	.0003179	-.000106	.0006189	-.000141	-.002962
#2	.0554736	.0035737	.0002190	.000193	.0010158	-.004879	-.002955
#3	.0246689	.0028944	-.000216	-.000699	.0008161	-.007574	-.005340

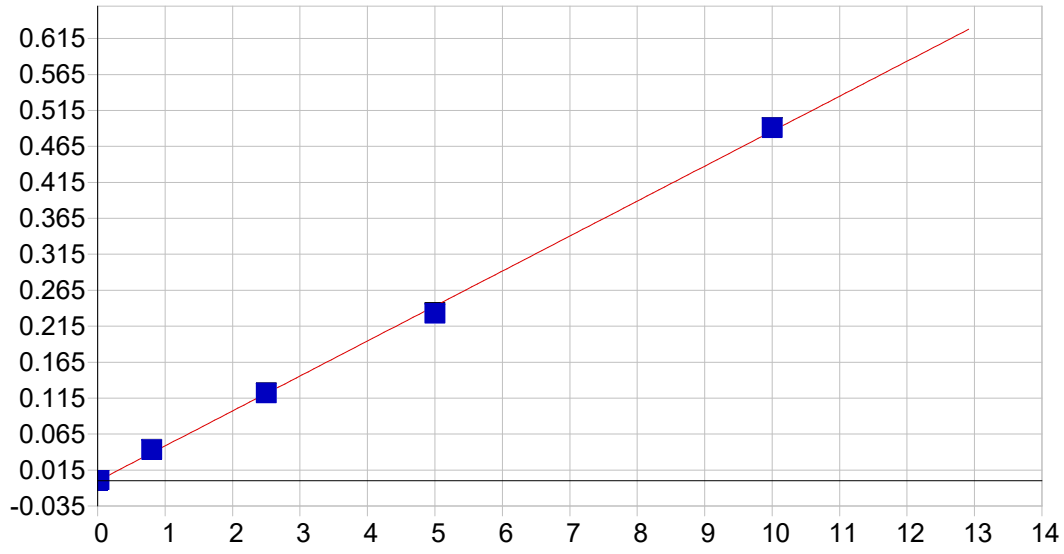
Reviewed By:Jaswal
On:1/30/2025 7:27:36 AM
Inst Id :P4
LB :LB134457

Sample Name: CCB05 Acquired: 1/28/2025 15:56:29 Type: Unk
Method: NON EPA-6010-200.7(v2495) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005598	.0006089	.0000132
Stddev	.003080	.0010321	.0000625
%RSD	55.01075	169.5017	473.7701
#1	-.003795	-.000070	.0000794
#2	-.003846	.000100	.0000050
#3	-.009154	.001797	-.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2897.505	60712.41	11536.53	1987.488	4604.471
Stddev	3.606	380.43	59.59	15.666	8.542
%RSD	.1244601	.6266031	.5165287	.7882277	.1855089
#1	2897.420	60292.30	11579.17	1969.551	4604.335
#2	2901.153	61033.61	11468.44	1998.487	4613.079
#3	2893.942	60811.33	11561.98	1994.427	4595.998

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



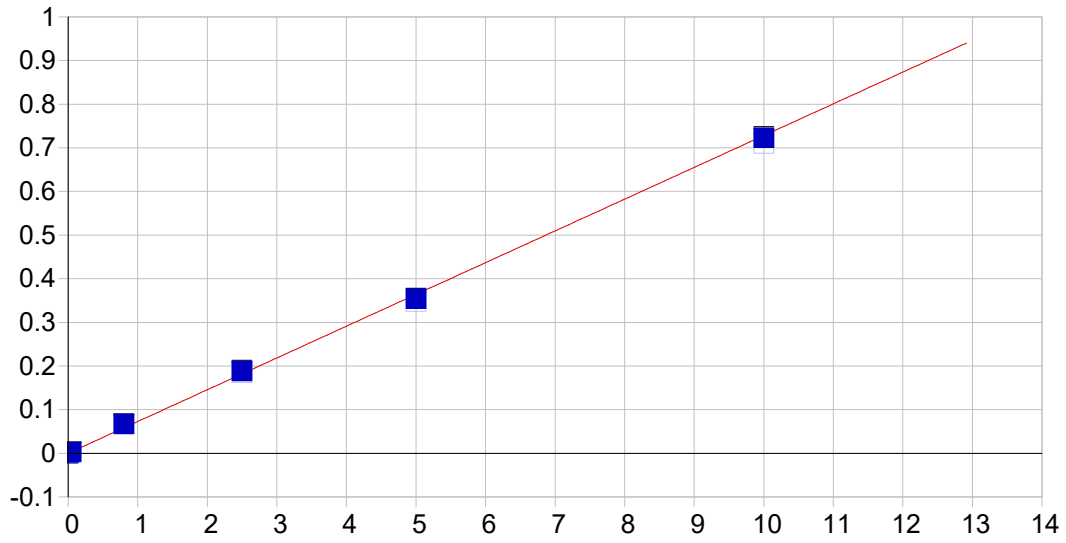
As 189.042 {479}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000115	Re-Slope:	1.000000
A1 (Gain):	0.048628	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999412	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.003045		
Predicted MQL:	0.010151		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00012	.000	1
S1	.02000	.02228	.002	11.4	.00096	.000	1
S3	2.5000	2.5106	.011	.422	.12184	.000	1
S4	5.0000	4.7909	-.209	-4.18	.23259	.001	1
S5	10.000	10.101	.101	1.01	.49053	.000	1
S2	.80000	.89566	.096	12.0	.04340	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



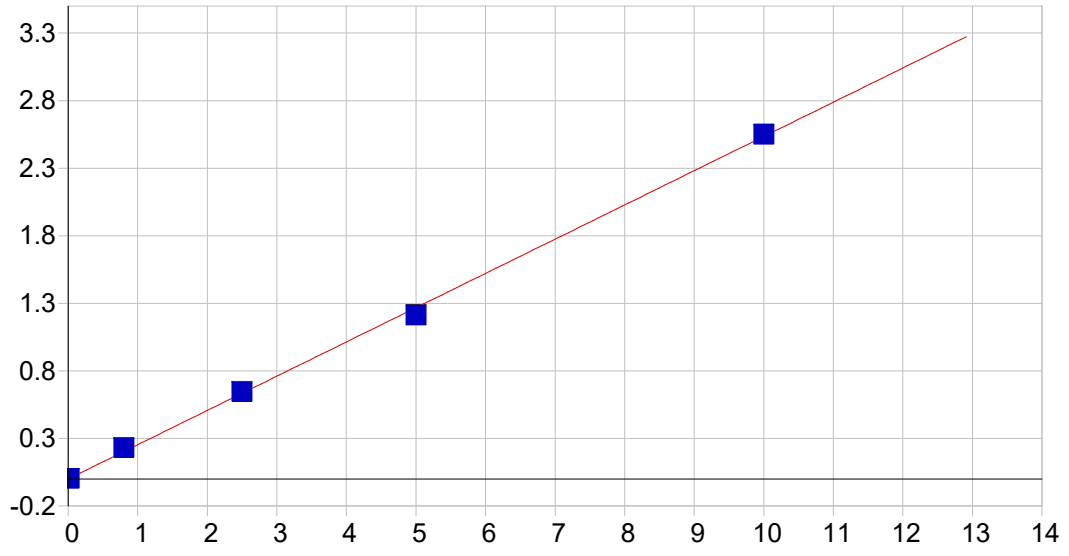
Tl 190.856 {477}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000018	Re-Slope:	1.000000
A1 (Gain):	0.072794	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999308	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.001846		
Predicted MQL:	0.006153		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00002	.000	1
S1	.04000	.04045	.000	1.12	.00277	.000	1
S3	2.5000	2.5838	.084	3.35	.18475	.003	1
S4	5.0000	4.8651	-.135	-2.70	.34746	.001	1
S5	10.000	9.9322	-.068	-.678	.70961	.003	1
S2	.80000	.91849	.118	14.8	.06581	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



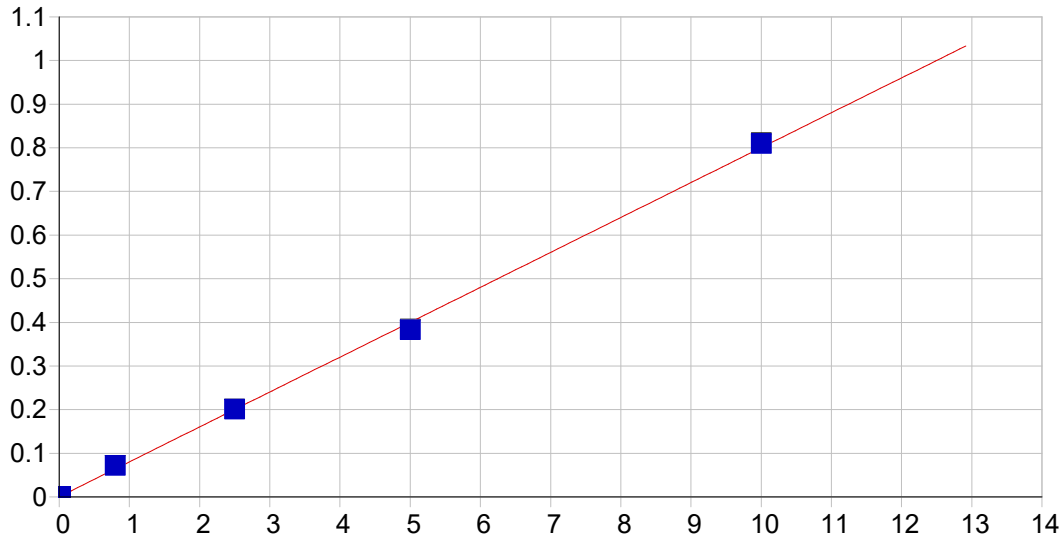
Pb 220.353 {453}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000193	Re-Slope:	1.000000
A1 (Gain):	0.253504	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999300	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.001138		
Predicted MQL:	0.003795		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00019	.000	1
S1	.01200	.01088	-.001	-9.35	.00250	.000	1
S3	2.5000	2.5458	.046	1.83	.64448	.002	1
S4	5.0000	4.7855	-.215	-4.29	1.2116	.004	1
S5	10.000	10.060	.060	.598	2.5472	.003	1
S2	.80000	.90998	.110	13.7	.23027	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



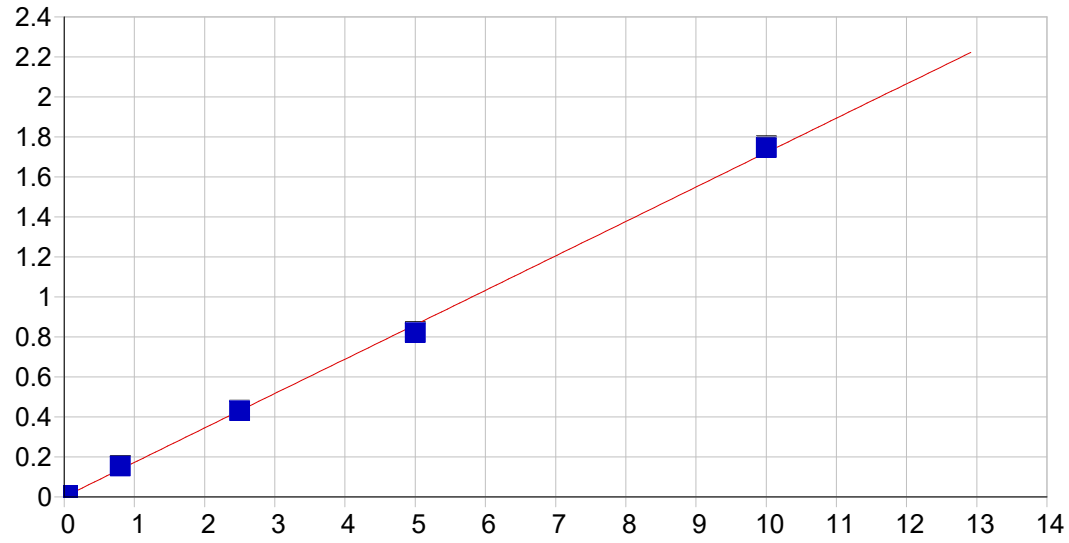
Se 196.090 {472}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000348	Re-Slope:	1.000000
A1 (Gain):	0.079994	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999396	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	0.002495		
Predicted MQL:	0.008316		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00035	.000	1
S1	.02000	.01869	-.001	-6.56	.00184	.000	1
S3	2.5000	2.5057	.006	.228	.20074	.000	1
S4	5.0000	4.7814	-.219	-4.37	.38272	.002	1
S5	10.000	10.120	.120	1.20	.80971	.001	1
S2	.80000	.89389	.094	11.7	.07184	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



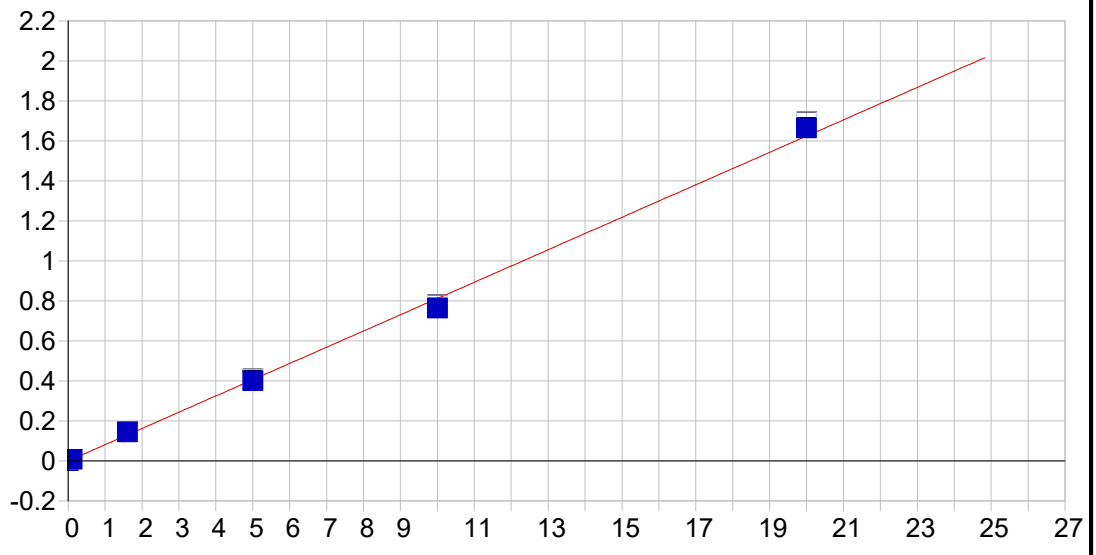
Sb 206.833 {463}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000500	Re-Slope:	1.000000
A1 (Gain):	0.172067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999357	Status:	OK.
Std Error of Est:	0.000229		
Predicted MDL:	0.001417		
Predicted MQL:	0.004724		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00050	.000	1
S1	.05000	.04830	-.002	-3.40	.00883	.000	1
S3	2.5000	2.5016	.002	.064	.43211	.001	1
S4	5.0000	4.7629	-.237	-4.74	.82237	.004	1
S5	10.000	10.147	.147	1.47	1.7511	.004	1
S2	.80000	.89070	.091	11.3	.15414	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



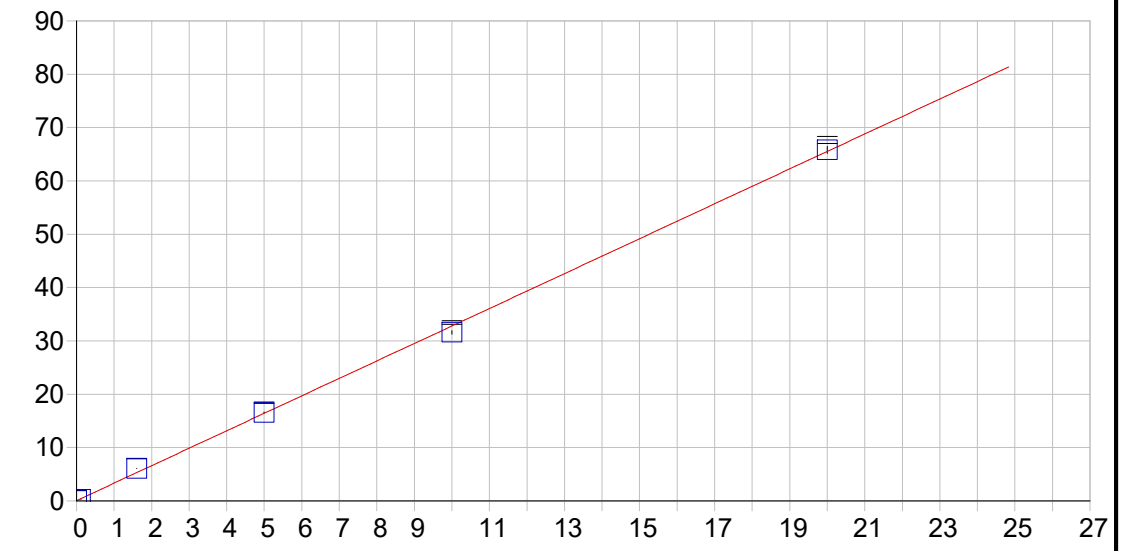
Al 396.152 { 85}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000034	Re-Slope:	1.000000
A1 (Gain):	0.081207	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999111	Status:	OK.
Std Error of Est:	0.000259		
Predicted MDL:	0.007237		
Predicted MQL:	0.024124		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.10000	.09269	-.007	-7.31	.00812	.000	1
S3	5.0000	4.9356	-.064	-1.29	.40865	.001	1
S4	10.000	9.4017	-.598	-5.98	.77921	.001	1
S5	20.000	20.499	.499	2.50	1.6962	.002	1
S2	1.6000	1.7711	.171	10.7	.14631	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



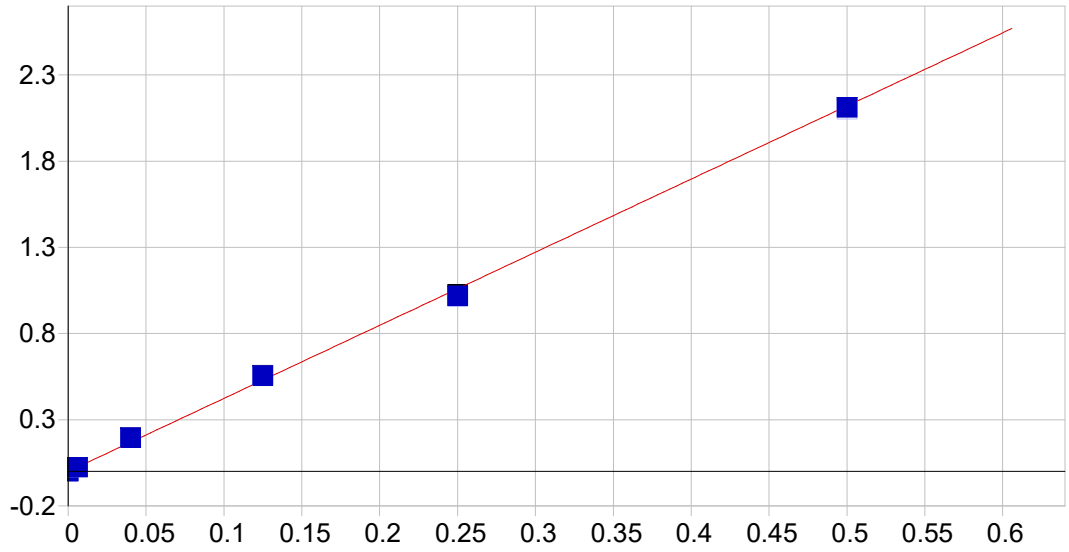
Ba 493.409 { 68}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.056872	Re-Slope:	1.000000
A1 (Gain):	3.273722	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999317	Status:	OK.
Std Error of Est:	0.008978		
Predicted MDL:	0.000601		
Predicted MQL:	0.002002		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.05685	.001	1
S1	.10000	.09550	-.004	-4.50	.36952	.002	1
S3	5.0000	5.0394	.039	.788	16.554	.130	1
S4	10.000	9.6404	-.360	-3.60	31.617	.331	1
S5	20.000	20.083	.083	.417	65.804	.657	1
S2	1.6000	1.8413	.241	15.1	6.0848	.029	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



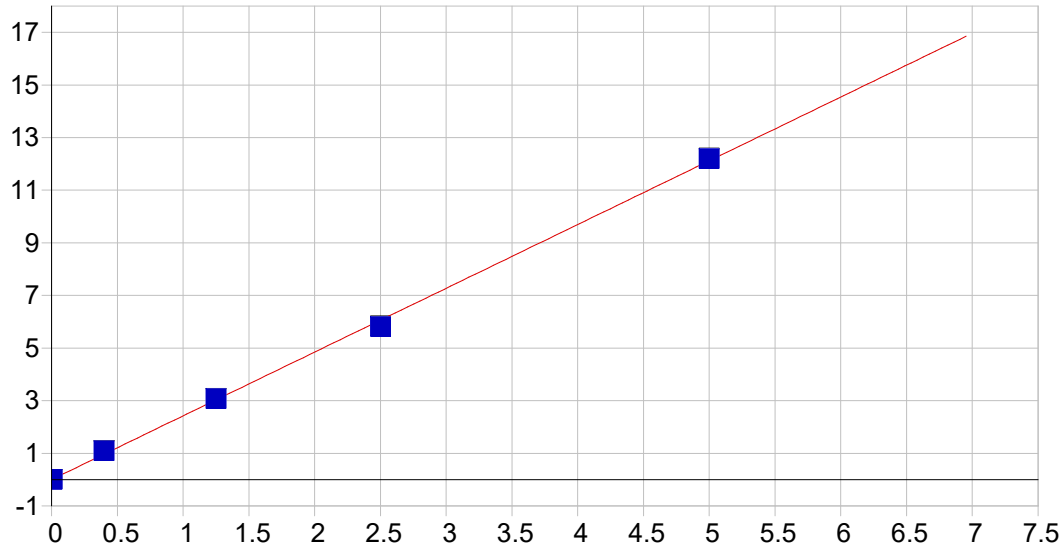
Be 234.861 {144}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000385	Re-Slope:	1.000000
A1 (Gain):	4.241482	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999059	Status:	OK.
Std Error of Est:	0.000527		
Predicted MDL:	0.000064		
Predicted MQL:	0.000212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00039	.000	1
S1	.00600	.00576	-.000	-4.02	.02385	.000	1
S3	.12500	.13104	.006	4.83	.55302	.003	1
S4	.25000	.24014	-.010	-3.95	1.0134	.009	1
S5	.50000	.49769	-.002	-.462	2.1011	.001	1
S2	.04000	.04638	.006	16.0	.19558	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



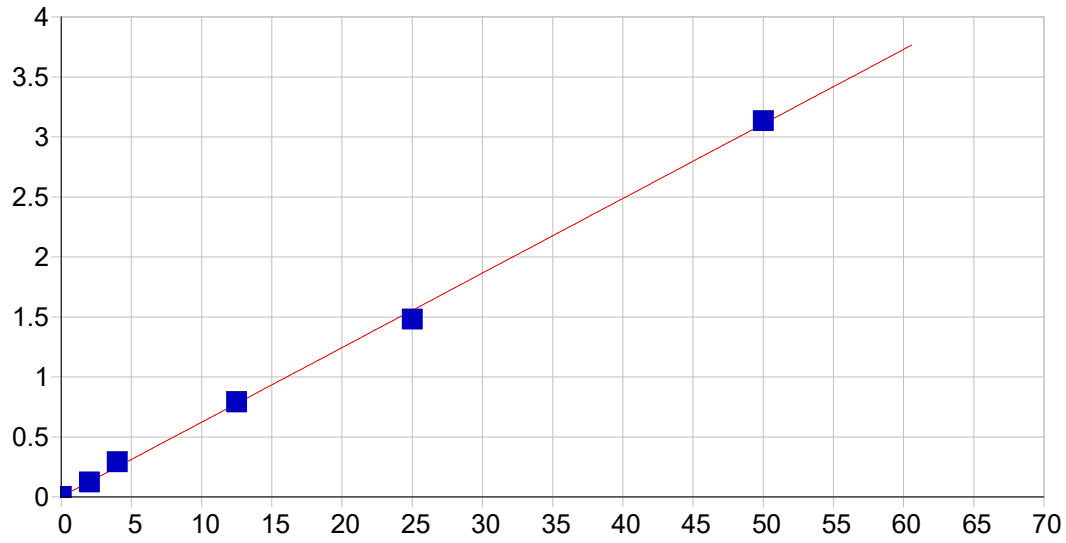
Cd 226.502 {449}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	2.423805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999379	Status:	OK.
Std Error of Est:	0.000776		
Predicted MDL:	0.000091		
Predicted MQL:	0.000302		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.00600	.00584	-.000	-2.63	.01424	.000	1
S3	1.2500	1.2686	.019	1.49	3.0774	.005	1
S4	2.5000	2.3977	-.102	-4.09	5.8165	.019	1
S5	5.0000	5.0320	.032	.639	12.206	.012	1
S2	.40000	.45186	.052	13.0	1.0960	.004	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



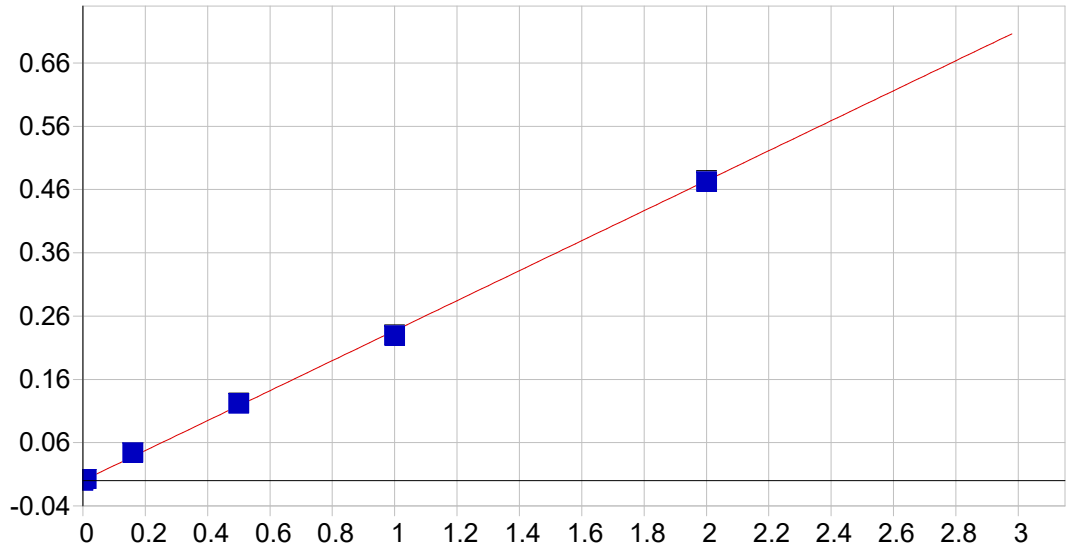
Ca 373.690 { 90}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001549	Re-Slope:	1.000000
A1 (Gain):	0.062122	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999054	Status:	OK.
Std Error of Est:	0.001431		
Predicted MDL:	0.009141		
Predicted MQL:	0.030472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00154	.000	1
S2	4.0000	4.6672	.667	16.7	.29149	.000	1
S3	12.500	12.686	.186	1.49	.78965	.005	1
S4	25.000	23.800	-1.20	-4.80	1.4801	.001	1
S5	50.000	50.410	.410	.821	3.1331	.004	1
S1	2.0000	1.9359	-.064	-3.21	.12181	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



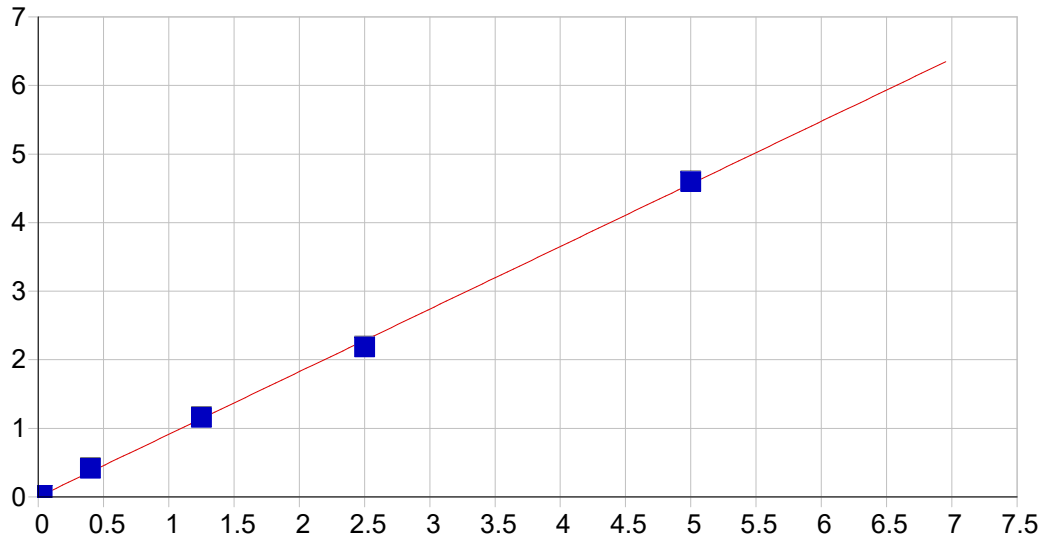
Cr 267.716 {126}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.236997	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999240	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.000358		
Predicted MQL:	0.001195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01000	.00963	-.000	-3.70	.00228	.000	1
S3	.50000	.51496	.015	2.99	.12207	.000	1
S4	1.0000	.96702	-.033	-3.30	.22924	.001	1
S5	2.0000	1.9930	-.007	-.348	.47248	.001	1
S2	.16000	.18535	.025	15.8	.04393	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



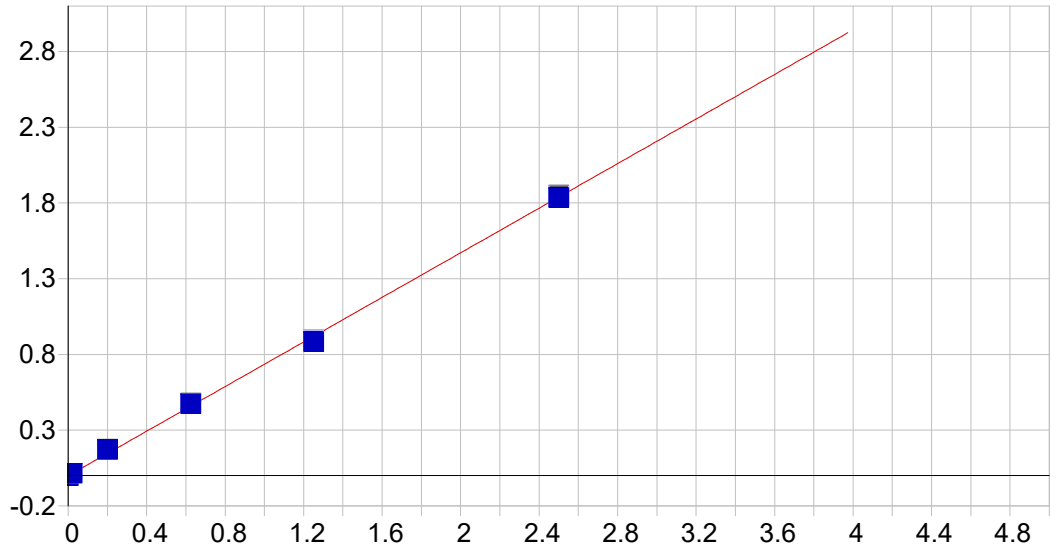
Co 228.616 {448}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	0.912841	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999293	Status:	OK.
Std Error of Est:	0.000699		
Predicted MDL:	0.000214		
Predicted MQL:	0.000712		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.03000	.02893	-.001	-3.56	.02642	.000	1
S3	1.2500	1.2702	.020	1.62	1.1616	.003	1
S4	2.5000	2.3915	-.109	-4.34	2.1871	.009	1
S5	5.0000	5.0337	.034	.675	4.6029	.005	1
S2	.40000	.45562	.056	13.9	.41666	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



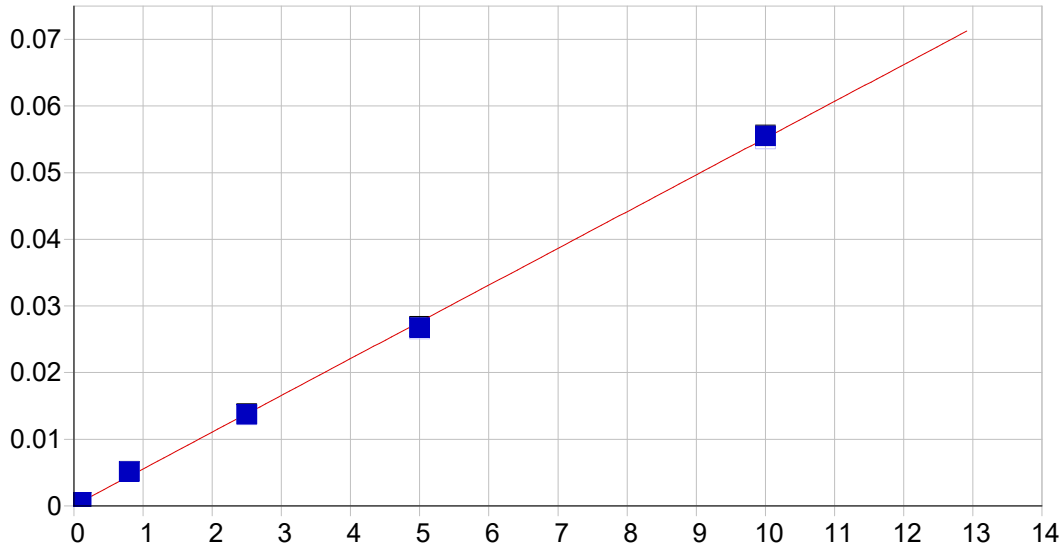
Cu 224.700 {450}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000881	Re-Slope:	1.000000
A1 (Gain):	0.736040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999127	Status:	OK.
Std Error of Est:	0.000364		
Predicted MDL:	0.000431		
Predicted MQL:	0.001437		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00088	.000	1
S1	.02000	.02148	.001	7.41	.01507	.000	1
S3	.62500	.64438	.019	3.10	.47669	.001	1
S4	1.2500	1.2033	-.047	-3.74	.89133	.004	1
S5	2.5000	2.4922	-.008	-.312	1.8466	.004	1
S2	.20000	.23366	.034	16.8	.17215	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



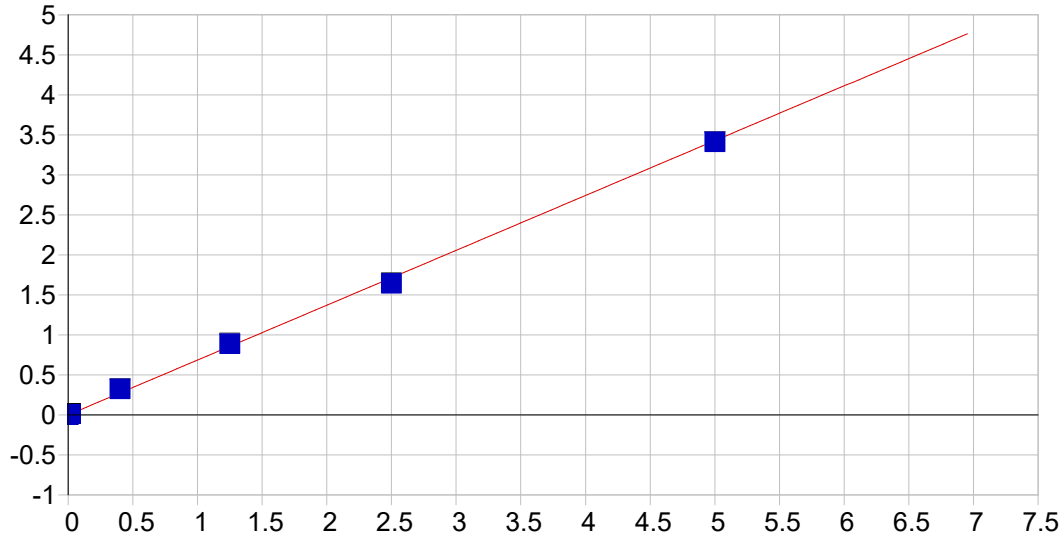
Fe 240.488 {140}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.005513	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999251	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.005041		
Predicted MQL:	0.016802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00005	.000	1
S1	.10000	.08666	-.013	-13.3	.00052	.000	1
S3	2.5000	2.4822	-.018	-.712	.01361	.000	1
S4	5.0000	4.8456	-.154	-3.09	.02653	.000	1
S5	10.000	10.059	.059	.586	.05503	.000	1
S2	.80000	.92683	.127	15.9	.00512	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



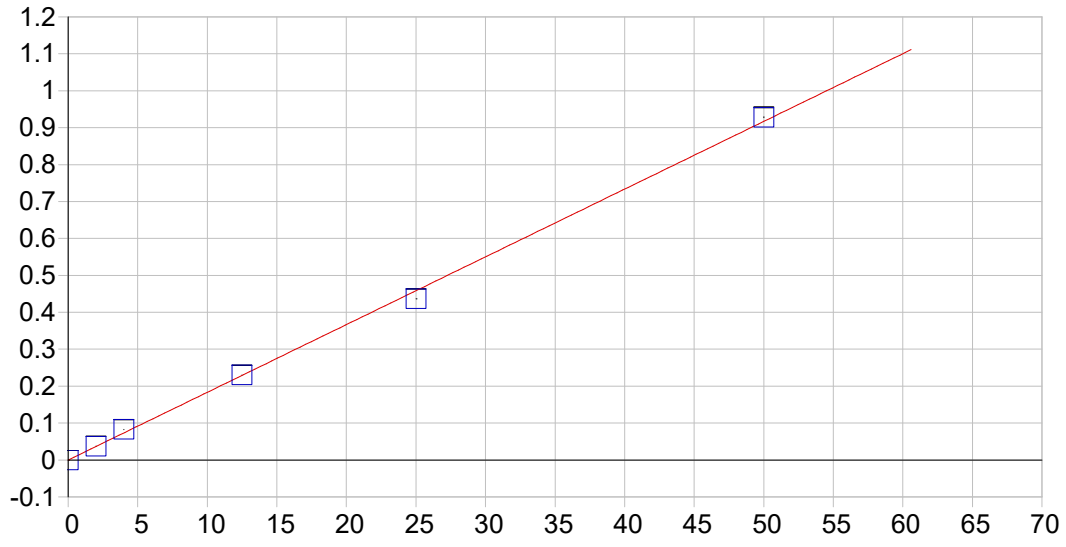
Mn 257.610 {131}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000103	Re-Slope:	1.000000
A1 (Gain):	0.685517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998965	Status:	OK.
Std Error of Est:	0.000518		
Predicted MDL:	0.000347		
Predicted MQL:	0.001156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00010	.000	1
S1	.02000	.02043	.000	2.14	.01411	.000	1
S3	1.2500	1.2971	.047	3.77	.88947	.006	1
S4	2.5000	2.4007	-.099	-3.97	1.6462	.004	1
S5	5.0000	4.9791	-.021	-.419	3.4140	.001	1
S2	.40000	.47267	.073	18.2	.32418	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



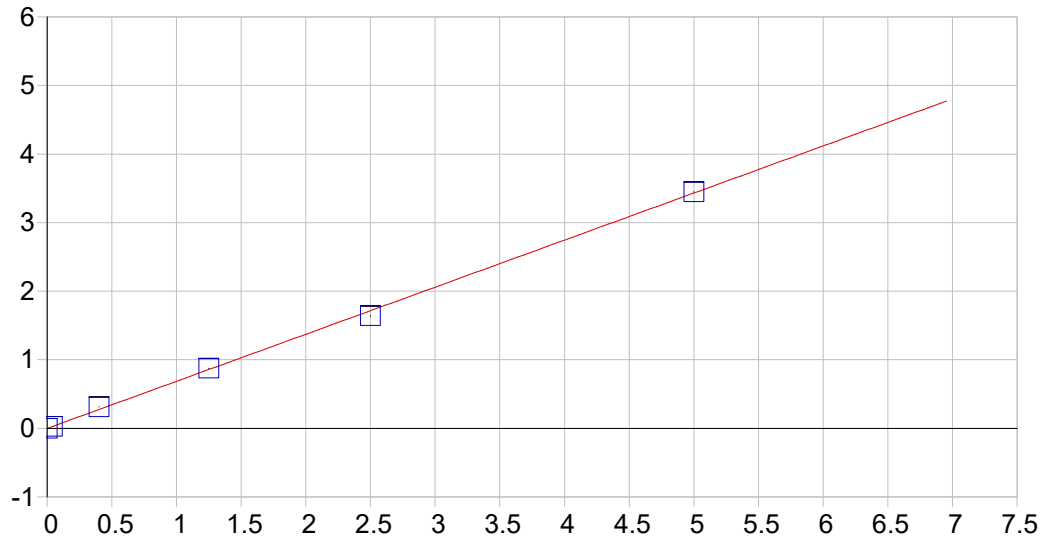
Mg 279.079 {121}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000112	Re-Slope:	1.000000
A1 (Gain):	0.018342	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999311	Status:	OK.
Std Error of Est:	0.000360		
Predicted MDL:	0.013963		
Predicted MQL:	0.046545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00023	-.000	.000	-.00012	.000	1
S2	4.0000	4.5013	.501	12.5	.08245	.000	1
S3	12.500	12.551	.051	.412	.23011	.000	1
S4	25.000	23.800	-1.20	-4.80	.43643	.000	1
S5	50.000	50.605	.605	1.21	.92809	.001	1
S1	2.0000	2.0428	.043	2.14	.03736	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



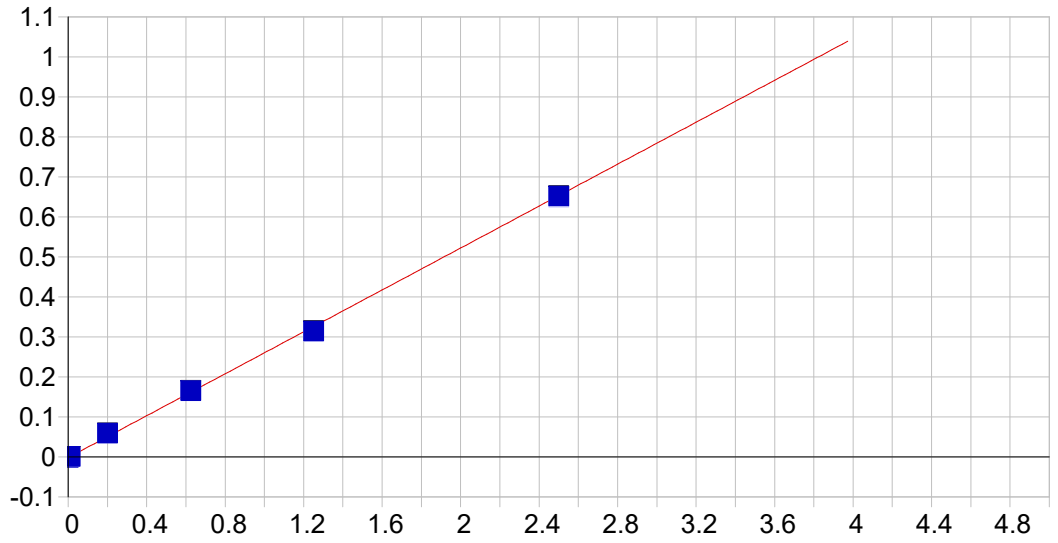
Ni 231.604 {446}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000283	Re-Slope:	1.000000
A1 (Gain):	0.686319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999280	Status:	OK.
Std Error of Est:	0.000612		
Predicted MDL:	0.000318		
Predicted MQL:	0.001061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00029	.000	1
S1	.04000	.03901	-.001	-2.48	.02649	.000	1
S3	1.2500	1.2744	.024	1.95	.87434	.002	1
S4	2.5000	2.3932	-.107	-4.27	1.6422	.006	1
S5	5.0000	5.0267	.027	.534	3.4496	.004	1
S2	.40000	.45672	.057	14.2	.31317	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



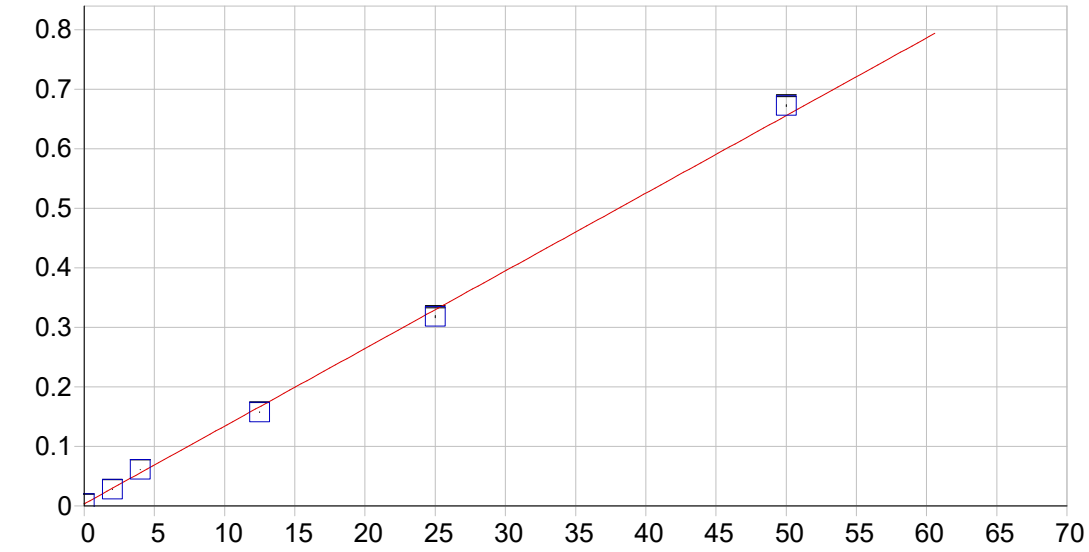
Ag 328.068 {103}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001844	Re-Slope:	1.000000
A1 (Gain):	0.262026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999193	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	0.000435		
Predicted MQL:	0.001452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00184	.000	1
S1	.01000	.01015	.000	1.51	.00080	.000	1
S3	.62500	.63967	.015	2.35	.16512	.001	1
S4	1.2500	1.2074	-.043	-3.41	.31323	.000	1
S5	2.5000	2.4945	-.006	-.221	.64918	.001	1
S2	.20000	.23329	.033	16.6	.05908	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



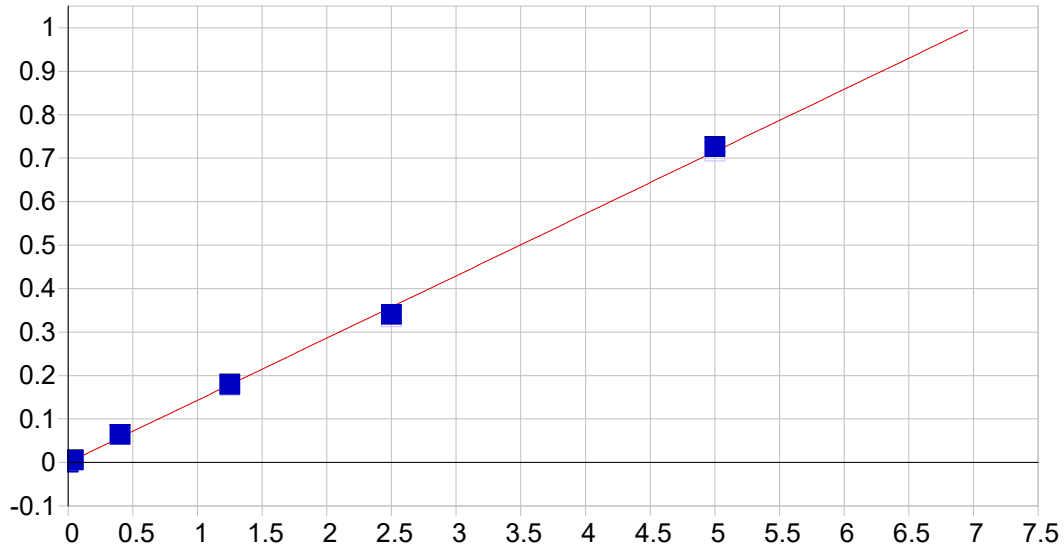
Na 589.592 { 57}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003543	Re-Slope:	1.000000
A1 (Gain):	0.013048	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999175	Status:	OK.
Std Error of Est:	0.000281		
Predicted MDL:	0.014112		
Predicted MQL:	0.047040		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	.00354	.000	1
S2	4.0000	4.4166	.417	10.4	.06117	.000	1
S3	12.500	11.809	-.691	-5.52	.15763	.001	1
S4	25.000	24.118	-.882	-3.53	.31823	.002	1
S5	50.000	51.287	1.29	2.57	.67273	.002	1
S1	2.0000	1.8684	-.132	-6.58	.02792	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



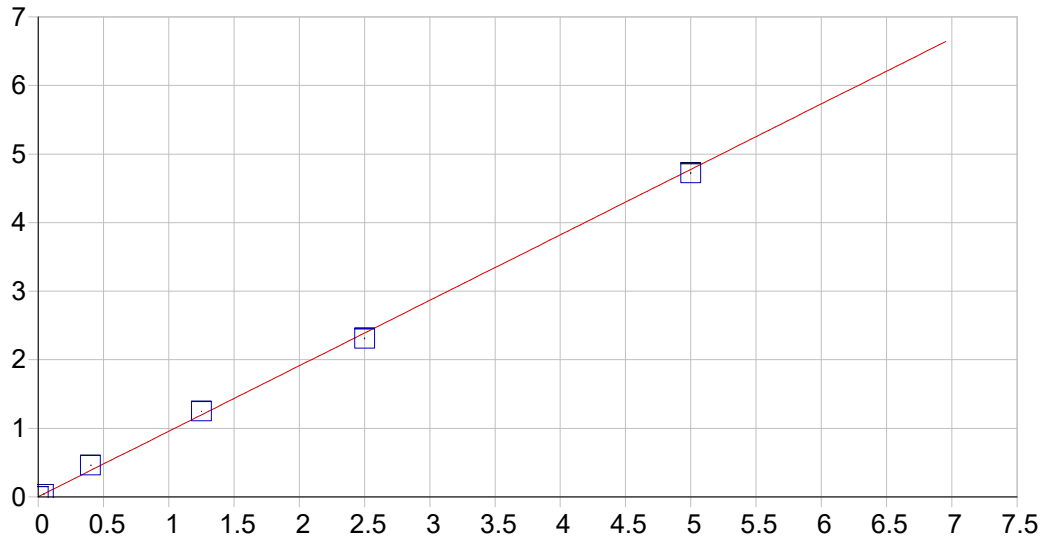
V 292.402 {115}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000075	Re-Slope:	1.000000
A1 (Gain):	0.143059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999260	Status:	OK.
Std Error of Est:	0.000127		
Predicted MDL:	0.001831		
Predicted MQL:	0.006102		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.04000	.03811	-.002	-4.73	.00531	.000	1
S3	1.2500	1.2534	.003	.271	.17678	.001	1
S4	2.5000	2.3757	-.124	-4.97	.33472	.001	1
S5	5.0000	5.0745	.074	1.49	.71559	.001	1
S2	.40000	.44831	.048	12.1	.06338	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



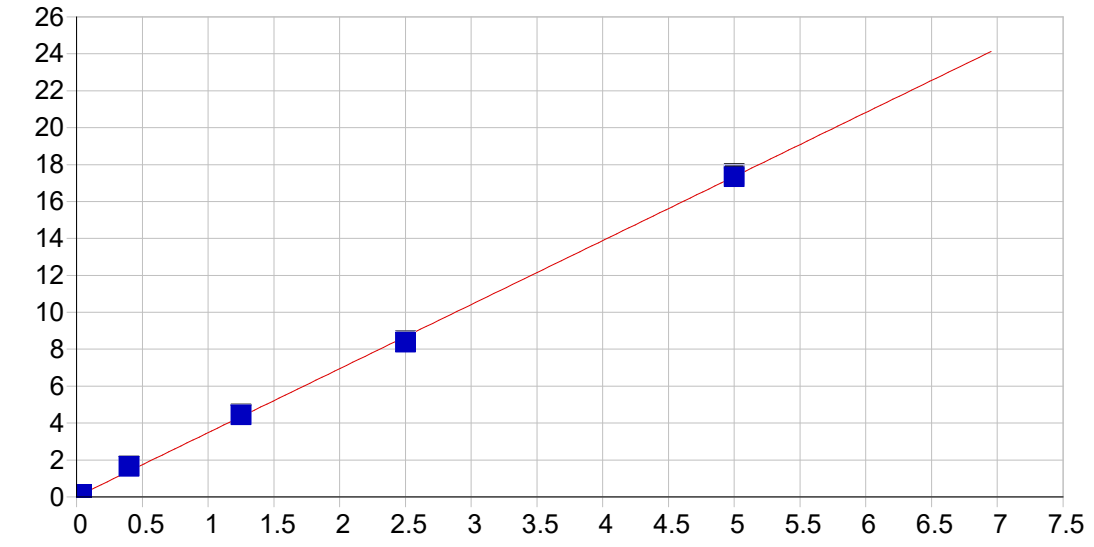
Zn 206.200 {464}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002712	Re-Slope:	1.000000
A1 (Gain):	0.954743	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998781	Status:	OK.
Std Error of Est:	0.001107		
Predicted MDL:	0.000206		
Predicted MQL:	0.000687		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00271	.000	1
S1	.04000	.03908	-.001	-2.30	.04002	.000	1
S3	1.2500	1.3058	.056	4.46	1.2494	.001	1
S4	2.5000	2.4189	-.081	-3.25	2.3121	.008	1
S5	5.0000	4.9446	-.055	-1.11	4.7235	.010	1
S2	.40000	.48171	.082	20.4	.46262	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



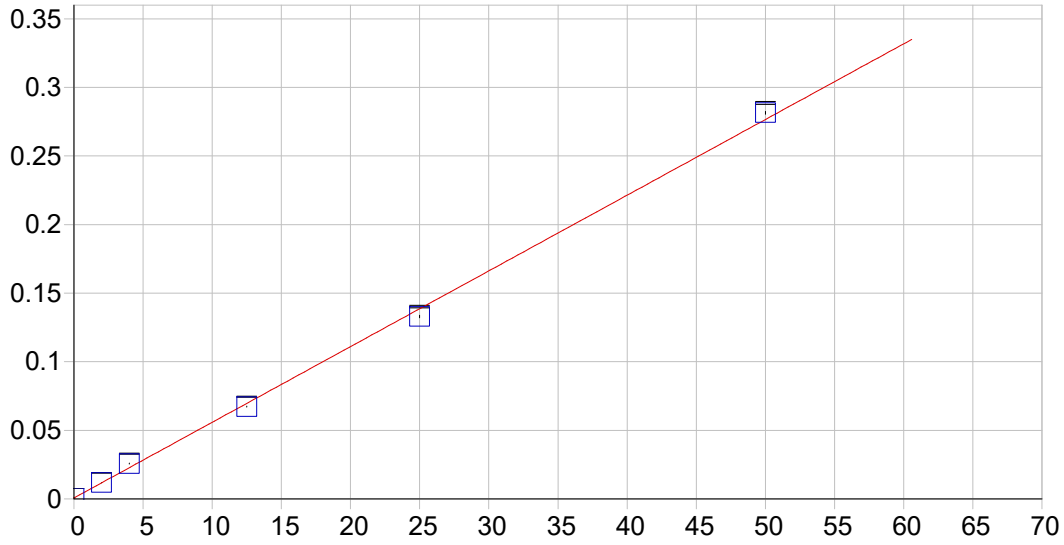
Zn 213.856 {158}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010233	Re-Slope:	1.000000
A1 (Gain):	3.468470	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999084	Status:	OK.
Std Error of Est:	0.003510		
Predicted MDL:	0.000239		
Predicted MQL:	0.000797		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01022	.001	1
S1	.04000	.03822	-.002	-4.45	.14376	.001	1
S3	1.2500	1.2749	.025	1.99	4.4623	.022	1
S4	2.5000	2.4114	-.089	-3.55	8.4342	.025	1
S5	5.0000	4.9924	-.008	-.152	17.447	.061	1
S2	.40000	.47311	.073	18.3	1.6608	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



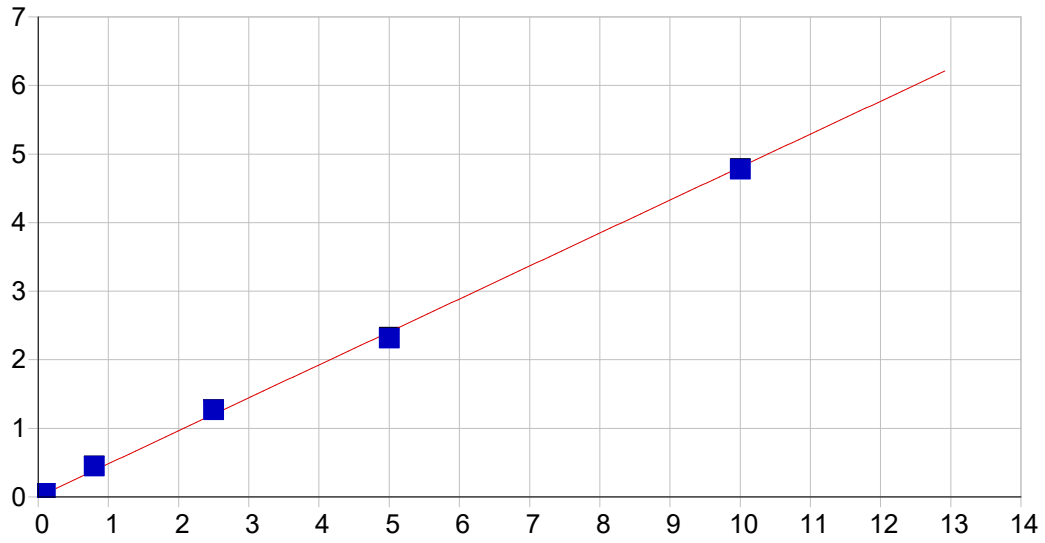
K 766.490 { 44}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000684	Re-Slope:	1.000000
A1 (Gain):	0.005518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999219	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.040789		
Predicted MQL:	0.135965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00068	.000	1
S2	4.0000	4.5400	.540	13.5	.02574	.000	1
S3	12.500	12.068	-.432	-3.46	.06728	.000	1
S4	25.000	23.975	-1.03	-4.10	.13299	.001	1
S5	50.000	50.890	.890	1.78	.28152	.001	1
S1	2.0000	2.0272	.027	1.36	.01187	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



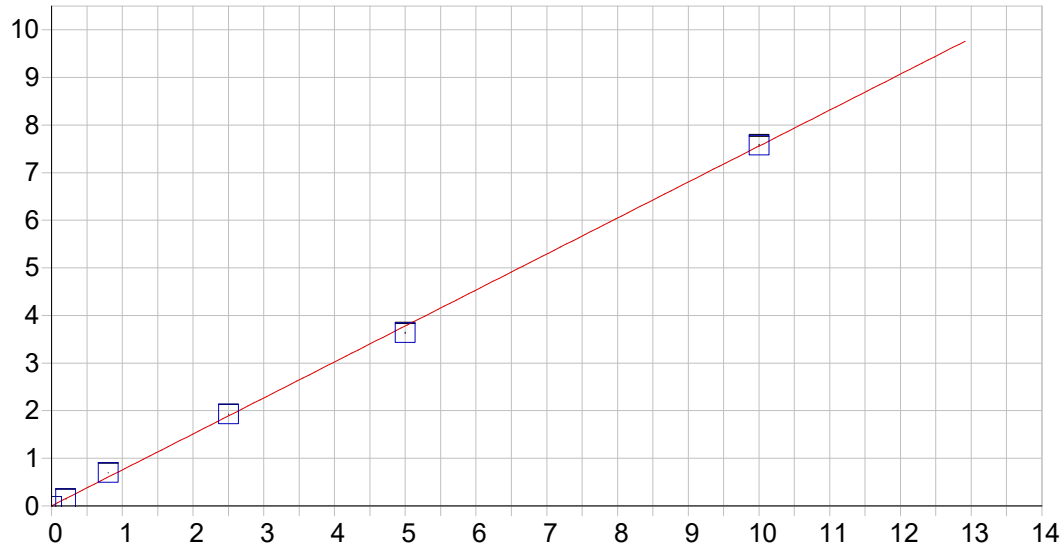
B 249.678 {135}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002450	Re-Slope:	1.000000
A1 (Gain):	0.480672	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999047	Status:	OK.
Std Error of Est:	0.001101		
Predicted MDL:	0.000720		
Predicted MQL:	0.002401		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00244	.000	1
S1	.10000	.09939	-.001	-.610	.05002	.000	1
S3	2.5000	2.6319	.132	5.28	1.2652	.008	1
S4	5.0000	4.8068	-.193	-3.86	2.3082	.017	1
S5	10.000	9.9350	-.065	-.650	4.7685	.008	1
S2	.80000	.92690	.127	15.9	.44724	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



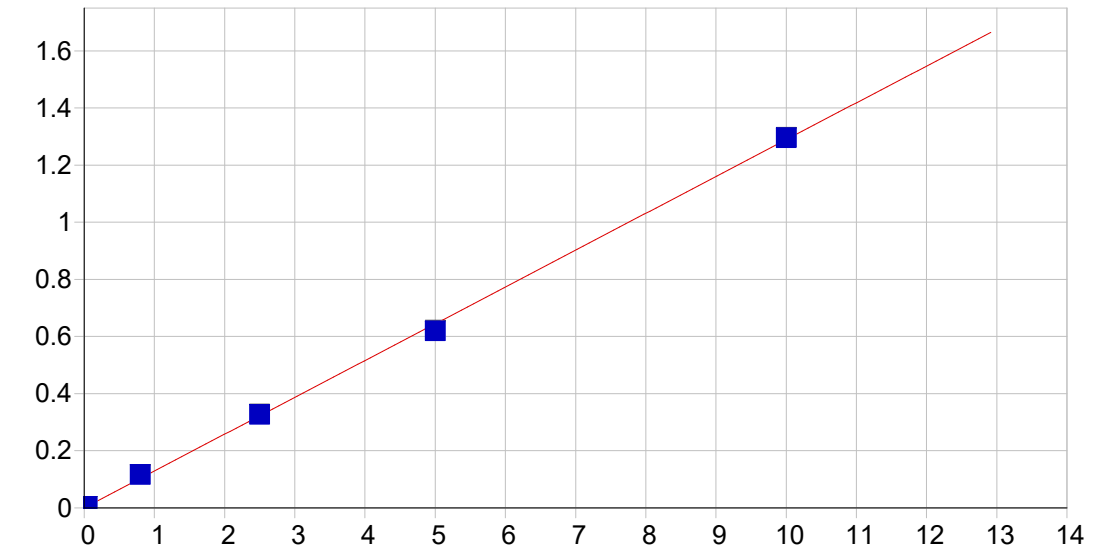
Mo 202.030 {467}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000402	Re-Slope:	1.000000
A1 (Gain):	0.755847	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999294	Status:	OK.
Std Error of Est:	0.002115		
Predicted MDL:	0.000274		
Predicted MQL:	0.000913		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00038	.000	1
S1	.20000	.19662	-.003	-1.69	.14902	.000	1
S3	2.5000	2.5491	.049	1.96	1.9271	.001	1
S4	5.0000	4.8122	-.188	-3.76	3.6377	.015	1
S5	10.000	10.022	.022	.220	7.5755	.018	1
S2	.80000	.92006	.120	15.0	.69582	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



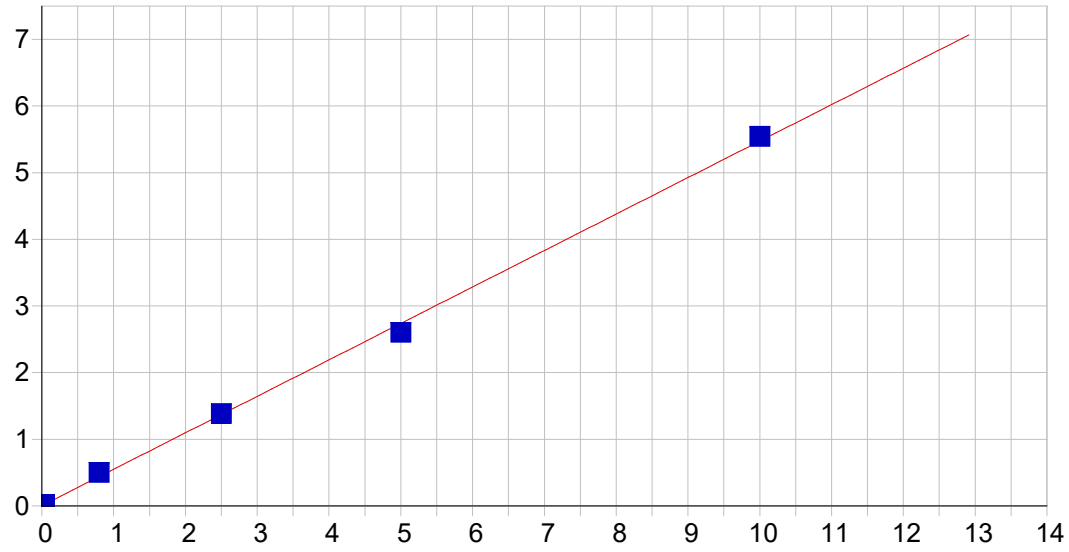
Sn 189.989 {478}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000212	Re-Slope:	1.000000
A1 (Gain):	0.128895	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999415	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.000788		
Predicted MQL:	0.002626		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00021	.000	1
S1	.04000	.03893	-.001	-2.69	.00522	.000	1
S3	2.5000	2.5391	.039	1.56	.32716	.000	1
S4	5.0000	4.8066	-.193	-3.87	.61910	.002	1
S5	10.000	10.053	.053	.533	1.2947	.001	1
S2	.80000	.90203	.102	12.8	.11637	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



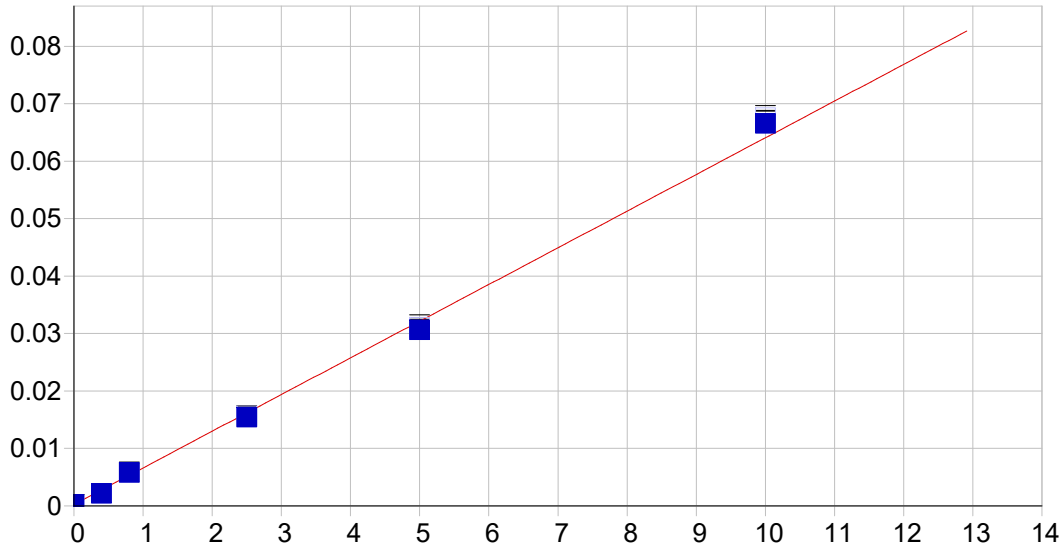
Ti 336.121 {100}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002585	Re-Slope:	1.000000
A1 (Gain):	0.547125	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999195	Status:	OK.
Std Error of Est:	0.000728		
Predicted MDL:	0.000699		
Predicted MQL:	0.002329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00258	.000	1
S1	.04000	.03754	-.002	-6.15	.02311	.000	1
S3	2.5000	2.5227	.023	.907	1.3823	.007	1
S4	5.0000	4.7481	-.252	-5.04	2.5994	.003	1
S5	10.000	10.122	.122	1.22	5.5387	.003	1
S2	.80000	.90959	.110	13.7	.50009	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



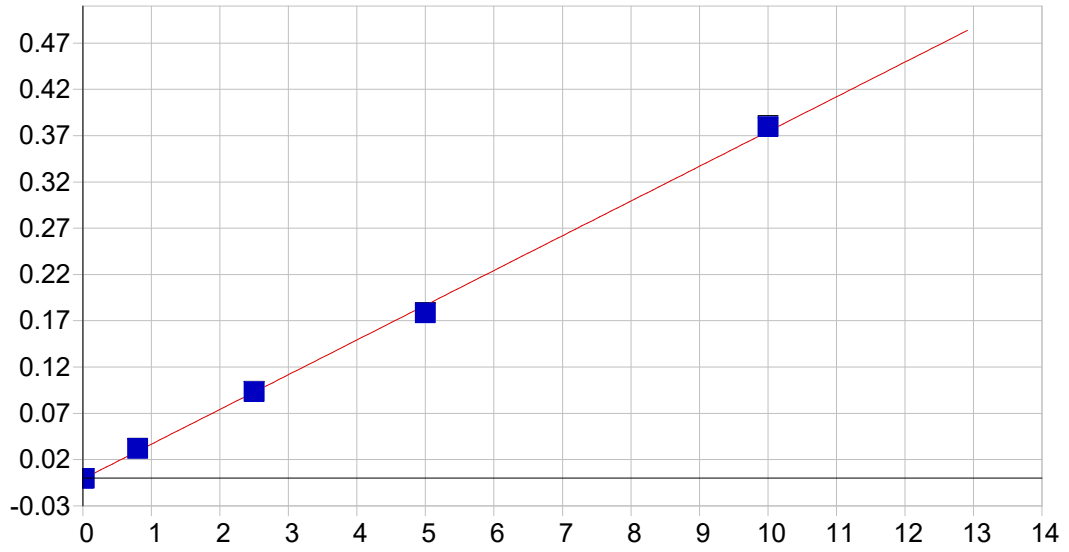
Si 288.158 {117}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000233	Re-Slope:	1.000000
A1 (Gain):	0.006384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998337	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.007540		
Predicted MQL:	0.025133		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	.00023	.000	1
S1	.40000	.30008	-.100	-25.0	.00215	.000	1
S3	2.5000	2.3771	-.123	-4.92	.01565	.000	1
S4	5.0000	4.7586	-.241	-4.83	.03109	.000	1
S5	10.000	10.394	.394	3.94	.06755	.000	1
S2	.80000	.86919	.069	8.65	.00586	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



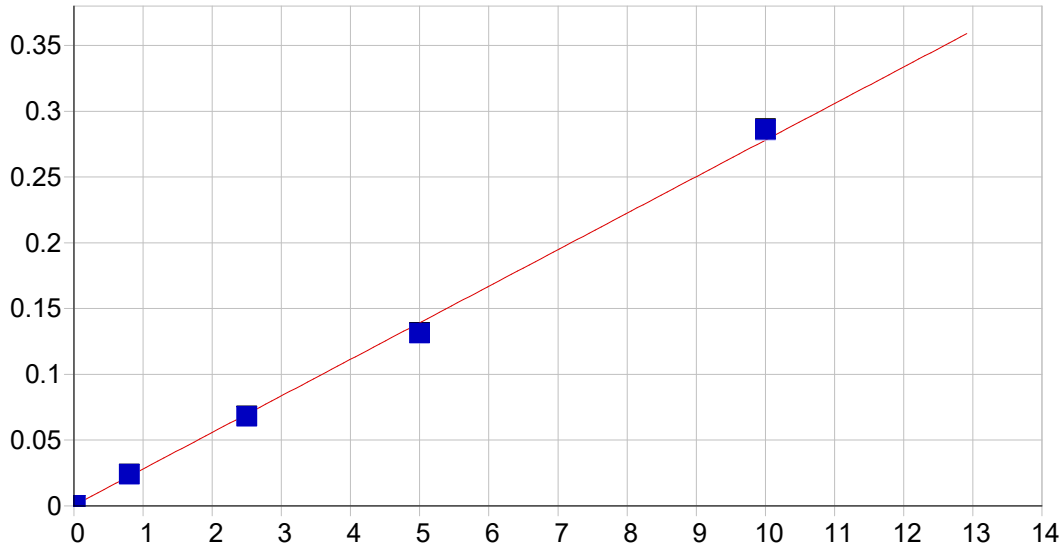
P 177.495 {490}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000817	Re-Slope:	1.000000
A1 (Gain):	0.037523	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999481	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.002434		
Predicted MQL:	0.008112		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00082	.000	1
S1	.02000	.01916	-.001	-4.19	-.00010	.000	1
S3	2.5000	2.5147	.015	.586	.09353	.000	1
S4	5.0000	4.7735	-.226	-4.53	.17827	.000	1
S5	10.000	10.139	.139	1.39	.37959	.001	1
S2	.80000	.87316	.073	9.15	.03194	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



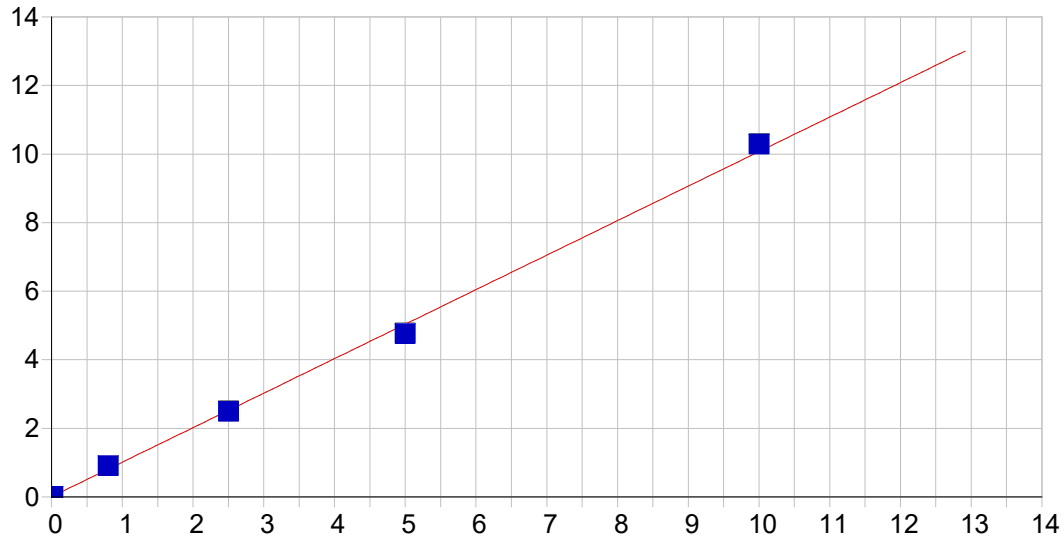
S 182.034 {485}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000320	Re-Slope:	1.000000
A1 (Gain):	0.027778	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999204	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.003355		
Predicted MQL:	0.011185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00032	.000	1
S1	.02000	.01770	-.002	-11.5	.00079	.000	1
S3	2.5000	2.4417	-.058	-2.33	.06797	.000	1
S4	5.0000	4.7196	-.280	-5.61	.13106	.000	1
S5	10.000	10.289	.289	2.89	.28540	.001	1
S2	.80000	.85189	.052	6.49	.02393	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



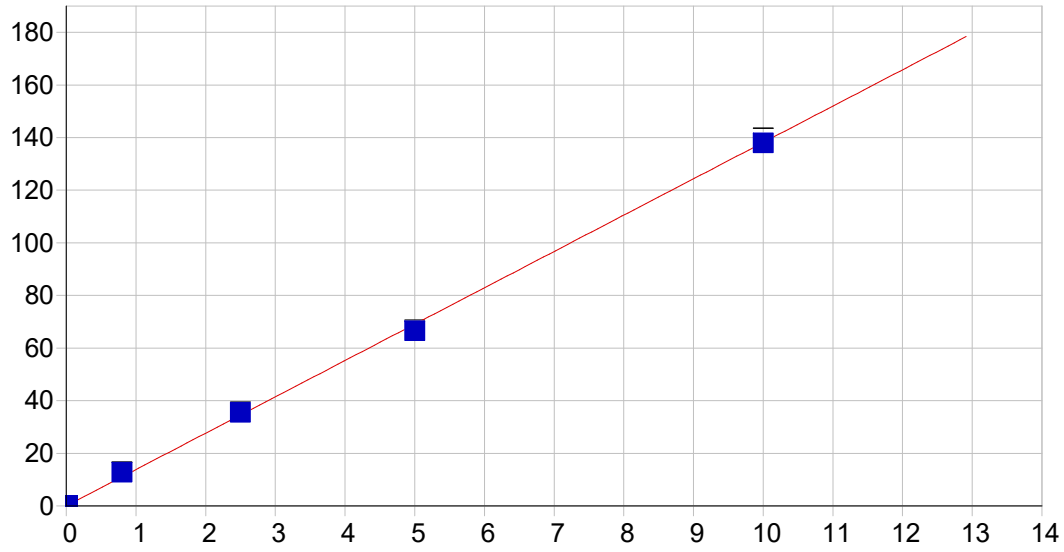
Li 670.784 { 50}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006268	Re-Slope:	1.000000
A1 (Gain):	1.006518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999119	Status:	OK.
Std Error of Est:	0.000991		
Predicted MDL:	0.001086		
Predicted MQL:	0.003619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00627	.001	1
S5	10.000	10.215	.215	2.15	10.297	.008	1
S4	5.0000	4.7239	-.276	-5.52	4.7655	.010	1
S3	2.5000	2.4658	-.034	-1.37	2.4904	.013	1
S1	.02000	.01800	-.002	-10.0	.02474	.001	1
S2	.80000	.89729	.097	12.2	.91014	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



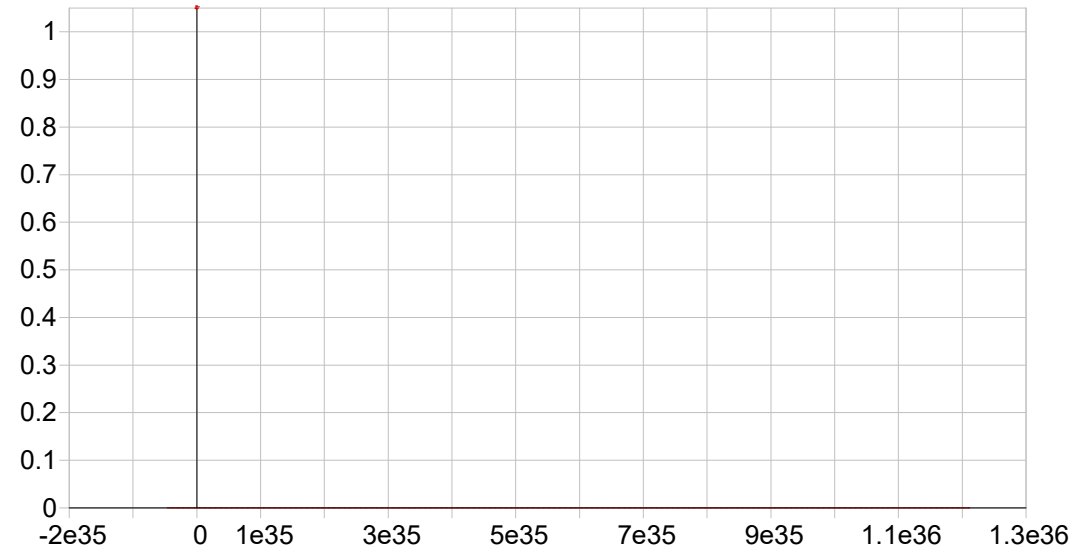
Sr 407.771 { 83}

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002912	Re-Slope:	1.000000
A1 (Gain):	13.815287	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999211	Status:	OK.
Std Error of Est:	0.012881		
Predicted MDL:	0.000047		
Predicted MQL:	0.000157		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00288	.000	1
S1	.02000	.01923	-.001	-3.85	.26995	.002	1
S3	2.5000	2.5729	.073	2.92	35.583	.125	1
S4	5.0000	4.8152	-.185	-3.70	66.595	.267	1
S5	10.000	9.9862	-.014	-.138	138.10	1.79	1
S2	.80000	.92649	.126	15.8	12.814	.058	1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

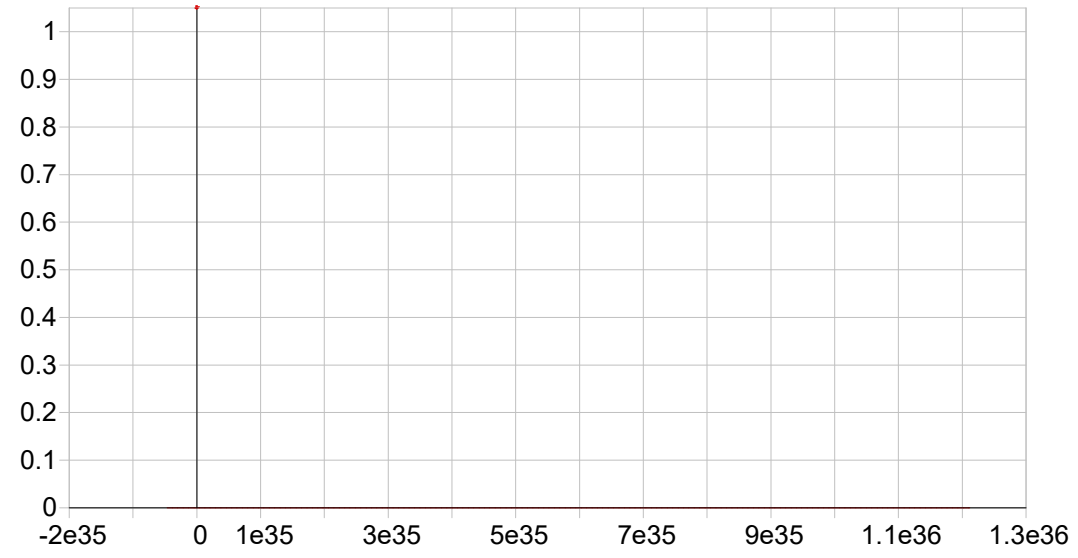


Y 224.306 {450}*

Date of Fit:	1/29/2025 14:30:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

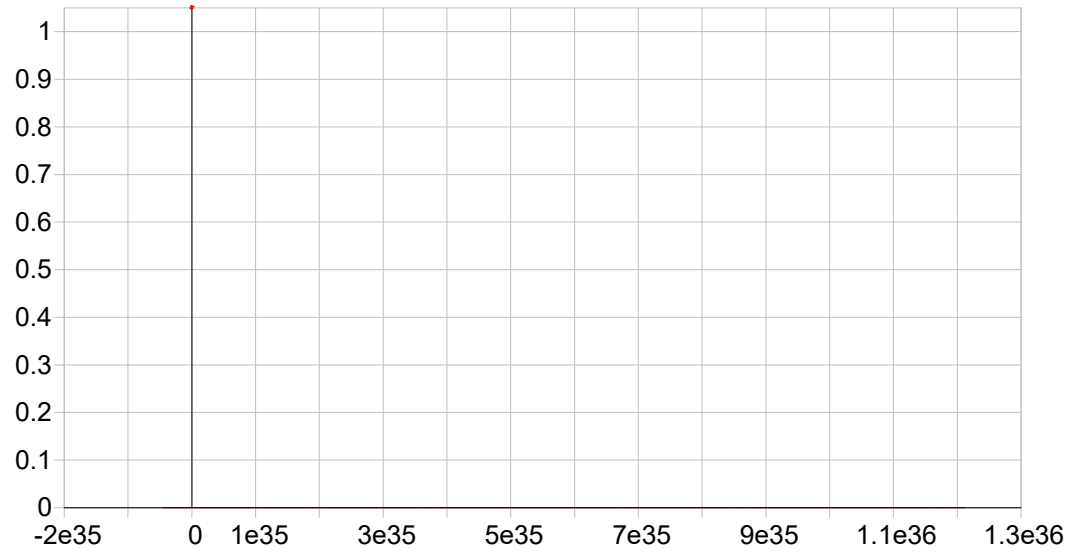
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



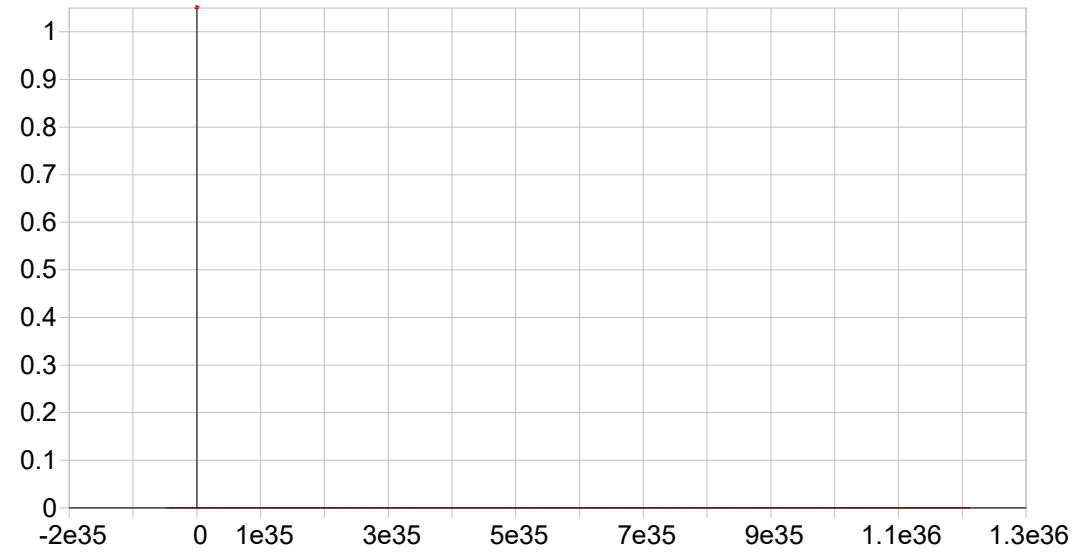
Y 371.030 { 91}*

Date of Fit:	<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

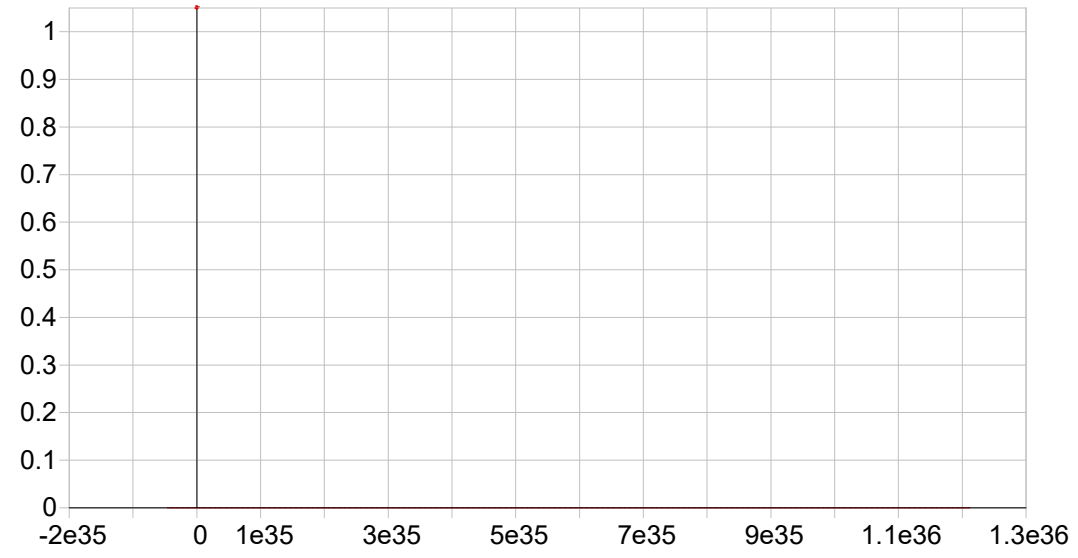
Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477



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	
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	

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

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:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S0 Acquired: 1/29/2025 10:51:04 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	-.00012	.00002	-.00019	.00035	.00050	-.00003	.05685	-.00039
Stddev	.00009	.00009	.00007	.00025	.00004	.00008	.00121	.00016
%RSD	78.253	509.61	36.252	72.833	7.3710	237.66	2.1285	41.338
#1	-.00020	.00008	-.00027	.00062	.00051	-.00003	.05554	-.00031
#2	-.00002	.00006	-.00017	.00032	.00046	-.00012	.05794	-.00057
#3	-.00012	-.00008	-.00014	.00011	.00053	.00004	.05706	-.00028

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	.00001	.00154	-.00001	.00013	-.00088	.00005	.00010	-.00012
Stddev	.00021	.00009	.00007	.00008	.00014	.00001	.00012	.00019
%RSD	2276.9	5.7105	867.03	63.442	15.935	21.689	119.08	162.02
#1	-.00015	.00160	-.00009	.00022	-.00101	.00004	-.00003	.00001
#2	-.00007	.00144	.00005	.00008	-.00073	.00004	.00021	-.00033
#3	.00024	.00157	.00001	.00008	-.00091	.00006	.00012	-.00003

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	-.00029	-.00184	.00354	.00007	.01022	.00068	.00244	.00038
Stddev	.00007	.00003	.00016	.00030	.00101	.00003	.00008	.00005
%RSD	25.282	1.7203	4.3891	394.99	9.8983	4.5953	3.2843	13.808
#1	-.00020	-.00182	.00337	-.00005	.00979	.00066	.00252	.00044
#2	-.00032	-.00184	.00361	.00041	.00949	.00072	.00244	.00033
#3	-.00034	-.00188	.00366	-.00014	.01137	.00068	.00236	.00038

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	.00021	.00258	.00023	-.00082	.00032	.00627	.00288
Stddev	.00006	.00019	.00003	.00005	.00010	.00081	.00038
%RSD	30.702	7.2938	12.535	6.5433	31.328	12.930	13.067
#1	.00015	.00267	.00025	-.00078	.00023	.00550	.00285
#2	.00028	.00237	.00020	-.00088	.00030	.00712	.00327
#3	.00021	.00272	.00025	-.00079	.00043	.00619	.00252

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S0 Acquired: 1/29/2025 10:51:04 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2784.6	57496.	9976.2	2097.6	4207.7
Stddev	2.0	90.	26.2	1.8	4.2
%RSD	.07043	.15676	.26308	.08425	.10090
#1	2783.3	57394.	9956.6	2099.2	4206.8
#2	2786.8	57565.	9965.9	2097.9	4212.3
#3	2783.6	57530.	10006.	2095.7	4203.9

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S1 Acquired: 1/29/2025 10:55:29 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.00096	.00277	.00250	.00184	.00883	.00812	.36952	.02385
Stddev	.00014	.00014	.00010	.00018	.00020	.00036	.00194	.00000
%RSD	14.558	5.0412	4.1309	9.8462	2.2890	4.3894	.52632	.01942
#1	.00093	.00265	.00262	.00203	.00860	.00774	.37177	.02385
#2	.00084	.00292	.00243	.00184	.00891	.00845	.36849	.02385
#3	.00112	.00275	.00246	.00166	.00898	.00818	.36831	.02385

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	.01424	.12181	.00228	.02642	.01507	.00052	.01411	.03736
Stddev	.00017	.00061	.00005	.00003	.00037	.00003	.00022	.00006
%RSD	1.1753	.49798	2.0841	.11658	2.4567	5.8175	1.5365	.16798
#1	.01441	.12251	.00224	.02646	.01475	.00055	.01431	.03729
#2	.01422	.12141	.00233	.02642	.01548	.00049	.01388	.03741
#3	.01408	.12151	.00225	.02640	.01499	.00051	.01415	.03738

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	.02649	.00080	.02792	.00531	.14376	.01187	.05002	.14902
Stddev	.00023	.00005	.00023	.00024	.00096	.00014	.00047	.00012
%RSD	.86826	6.7223	.83883	4.4407	.66627	1.2065	.94215	.07884
#1	.02627	.00083	.02770	.00511	.14486	.01201	.05028	.14889
#2	.02673	.00083	.02817	.00557	.14310	.01188	.04948	.14904
#3	.02646	.00074	.02790	.00525	.14333	.01172	.05030	.14913

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	.00522	.02311	.00215	-.00010	.00079	.02474	.26995
Stddev	.00003	.00023	.00001	.00007	.00003	.00062	.00183
%RSD	.56888	1.0144	.35077	70.690	3.8103	2.5164	.67646
#1	.00525	.02308	.00216	-.00004	.00077	.02514	.27141
#2	.00523	.02335	.00215	-.00017	.00077	.02403	.27053
#3	.00519	.02289	.00215	-.00007	.00082	.02507	.26790

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S1 Acquired: 1/29/2025 10:55:29 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2719.7	55469.	9960.6	2017.2	4056.5
Stddev	6.9	97.	29.1	7.6	2.9
%RSD	.25433	.17510	.29193	.37653	.07231
#1	2712.8	55403.	9930.8	2008.4	4053.2
#2	2726.7	55425.	9988.9	2021.2	4058.8
#3	2719.7	55581.	9962.1	2021.9	4057.5

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S2 Acquired: 1/29/2025 10:59:50 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.04340	.06581	.23027	.07184	.15414	.14631	6.0848	.19558
Stddev	.00046	.00058	.00078	.00032	.00092	.00045	.0293	.00058
%RSD	1.0609	.87824	.33933	.44430	.59872	.31055	.48207	.29686
#1	.04375	.06536	.23092	.07148	.15376	.14665	6.1182	.19573
#2	.04287	.06560	.22940	.07193	.15346	.14580	6.0730	.19494
#3	.04357	.06646	.23048	.07210	.15519	.14649	6.0632	.19607

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	1.0960	.29149	.04393	.41666	.17215	.00512	.32418	.08245
Stddev	.0041	.00027	.00006	.00229	.00112	.00003	.00053	.00016
%RSD	.37336	.09195	.12936	.55047	.65211	.66446	.16424	.19080
#1	1.0971	.29179	.04389	.41663	.17223	.00515	.32410	.08229
#2	1.0915	.29130	.04399	.41438	.17099	.00508	.32474	.08261
#3	1.0994	.29136	.04391	.41897	.17324	.00512	.32369	.08246

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	.31317	.05908	.06117	.06338	1.6608	.02574	.44724	.69582
Stddev	.00100	.00012	.00013	.00024	.0035	.00032	.00172	.00343
%RSD	.31929	.19520	.22048	.38632	.20969	1.2481	.38549	.49237
#1	.31300	.05911	.06132	.06320	1.6637	.02544	.44923	.69533
#2	.31227	.05917	.06107	.06365	1.6618	.02608	.44629	.69267
#3	.31425	.05895	.06112	.06327	1.6570	.02570	.44619	.69947

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	.11637	.50009	.00586	.03194	.02393	.91014	12.814
Stddev	.00044	.00151	.00005	.00021	.00008	.00347	.058
%RSD	.37392	.30229	.81209	.65394	.34956	.38145	.45126
#1	.11638	.50175	.00587	.03185	.02388	.91297	12.879
#2	.11594	.49973	.00590	.03179	.02387	.91117	12.791
#3	.11681	.49879	.00581	.03218	.02402	.90627	12.770

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S2 Acquired: 1/29/2025 10:59:50 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2718.5	55391.	9798.6	2012.5	4021.6
Stddev	7.2	157.	6.5	4.6	7.7
%RSD	.26576	.28402	.06646	.22905	.19153
#1	2718.9	55567.	9792.1	2017.0	4019.2
#2	2725.5	55266.	9798.6	2012.8	4030.2
#3	2711.0	55339.	9805.1	2007.8	4015.3

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S3 Acquired: 1/29/2025 11:03:55 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.12184	.18475	.64448	.20074	.43211	.40865	16.554	.55302
Stddev	.00015	.00252	.00173	.00035	.00120	.00055	.130	.00294
%RSD	.12240	1.3618	.26842	.17636	.27813	.13478	.78636	.53159
#1	.12166	.18661	.64431	.20112	.43147	.40860	16.541	.55055
#2	.12193	.18575	.64285	.20043	.43137	.40812	16.691	.55224
#3	.12192	.18189	.64630	.20065	.43350	.40922	16.431	.55628

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	3.0774	.78965	.12207	1.1616	.47669	.01361	.88947	.23011
Stddev	.0054	.00454	.00037	.0028	.00064	.00009	.00574	.00040
%RSD	.17548	.57434	.29919	.24370	.13501	.69557	.64521	.17463
#1	3.0802	.79100	.12171	1.1621	.47599	.01372	.88954	.23050
#2	3.0712	.78460	.12205	1.1585	.47681	.01358	.88370	.22970
#3	3.0809	.79336	.12244	1.1641	.47726	.01354	.89518	.23013

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	.87434	.16512	.15763	.17678	4.4623	.06728	1.2652	1.9271
Stddev	.00228	.00051	.00050	.00083	.0215	.00028	.0085	.0014
%RSD	.26125	.30754	.31898	.46907	.48273	.41380	.67010	.07532
#1	.87441	.16457	.15811	.17680	4.4381	.06759	1.2611	1.9265
#2	.87201	.16520	.15711	.17593	4.4698	.06706	1.2596	1.9260
#3	.87658	.16558	.15767	.17759	4.4791	.06719	1.2749	1.9288

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	.32716	1.3823	.01565	.09353	.06797	2.4904	35.583
Stddev	.00022	.0068	.00006	.00013	.00022	.0133	.125
%RSD	.06582	.49348	.38014	.13908	.32648	.53446	.35213
#1	.32712	1.3817	.01569	.09339	.06817	2.4894	35.438
#2	.32739	1.3758	.01558	.09365	.06773	2.4776	35.654
#3	.32697	1.3894	.01568	.09353	.06800	2.5041	35.657

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S3 Acquired: 1/29/2025 11:03:55 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2657.4	54871.	9477.4	1965.4	3863.9
Stddev	5.2	74.	22.6	8.3	10.6
%RSD	.19422	.13520	.23889	.42157	.27331
#1	2655.9	54908.	9493.2	1974.7	3861.0
#2	2663.1	54786.	9487.5	1958.9	3875.6
#3	2653.1	54920.	9451.5	1962.4	3855.1

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S4 Acquired: 1/29/2025 11:08:10 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.23259	.34746	1.2116	.38272	.82237	.77921	31.617	1.0134
Stddev	.00103	.00104	.0043	.00175	.00392	.00109	.331	.0085
%RSD	.44344	.29832	.35774	.45612	.47714	.13961	1.0469	.83941
#1	.23195	.34630	1.2113	.38205	.82035	.77848	31.941	1.0166
#2	.23204	.34780	1.2074	.38141	.81987	.77869	31.629	1.0199
#3	.23378	.34829	1.2160	.38470	.82689	.78046	31.280	1.0038

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	5.8165	1.4801	.22924	2.1871	.89133	.02653	1.6462	.43643
Stddev	.0189	.0008	.00073	.0091	.00366	.00019	.0040	.00028
%RSD	.32547	.05711	.31782	.41430	.41094	.70375	.24431	.06421
#1	5.8226	1.4810	.22845	2.1892	.88858	.02643	1.6480	.43614
#2	5.7953	1.4798	.22941	2.1771	.88992	.02641	1.6490	.43670
#3	5.8316	1.4794	.22988	2.1948	.89549	.02674	1.6416	.43646

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	1.6422	.31323	.31823	.33472	8.4342	.13299	2.3082	3.6377
Stddev	.0059	.00030	.00177	.00060	.0254	.00093	.0170	.0147
%RSD	.35597	.09708	.55756	.17882	.30101	.69558	.73474	.40271
#1	1.6432	.31357	.31649	.33479	8.4358	.13244	2.3150	3.6274
#2	1.6360	.31298	.31817	.33409	8.4588	.13246	2.3207	3.6313
#3	1.6476	.31314	.32004	.33528	8.4081	.13405	2.2889	3.6545

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	.61910	2.5994	.03109	.17827	.13106	4.7655	66.595
Stddev	.00220	.0029	.00042	.00043	.00049	.0098	.267
%RSD	.35541	.11143	1.3654	.24400	.37137	.20524	.40123
#1	.61964	2.5987	.03073	.17839	.13100	4.7544	66.444
#2	.61669	2.6026	.03098	.17779	.13061	4.7695	66.903
#3	.62099	2.5969	.03156	.17864	.13157	4.7726	66.438

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S4 Acquired: 1/29/2025 11:08:10 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2578.6	52887.	9547.5	1866.9	3720.2
Stddev	7.7	130.	57.4	3.5	6.2
%RSD	.29883	.24612	.60086	.18641	.16587
#1	2585.9	52869.	9503.4	1864.2	3721.9
#2	2579.2	53026.	9526.7	1865.7	3725.3
#3	2570.6	52768.	9612.3	1870.9	3713.3

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S5 Acquired: 1/29/2025 11:12:23 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.49053	.70961	2.5472	.80971	1.7511	1.6962	65.804	2.1011
Stddev	.00033	.00289	.0033	.00103	.0040	.0020	.657	.0009
%RSD	.06684	.40696	.12807	.12745	.23021	.11970	.99843	.04263
#1	.49015	.70814	2.5445	.81006	1.7482	1.6938	66.395	2.1002
#2	.49068	.71294	2.5463	.80854	1.7493	1.6976	65.921	2.1010
#3	.49075	.70776	2.5508	.81051	1.7557	1.6971	65.097	2.1020

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	12.206	3.1331	.47248	4.6029	1.8466	.05503	3.4140	.92809
Stddev	.012	.0037	.00136	.0052	.0039	.00016	.0008	.00142
%RSD	.09861	.11789	.28804	.11356	.20910	.29649	.02473	.15316
#1	12.201	3.1293	.47236	4.6016	1.8462	.05502	3.4137	.92732
#2	12.198	3.1335	.47118	4.5984	1.8430	.05487	3.4134	.92973
#3	12.220	3.1367	.47390	4.6086	1.8506	.05520	3.4150	.92723

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	3.4496	.64918	.67273	.71559	17.447	.28152	4.7685	7.5755
Stddev	.0040	.00093	.00170	.00096	.061	.00098	.0078	.0184
%RSD	.11719	.14323	.25266	.13379	.35129	.34879	.16289	.24229
#1	3.4488	.64932	.67387	.71449	17.409	.28200	4.7672	7.5637
#2	3.4460	.64818	.67078	.71605	17.414	.28039	4.7769	7.5662
#3	3.4540	.65002	.67355	.71624	17.518	.28216	4.7615	7.5966

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	1.2947	5.5387	.06755	.37959	.28540	10.297	138.10
Stddev	.0010	.0034	.00041	.00113	.00071	.008	1.79
%RSD	.07327	.06158	.60923	.29744	.24812	.07812	1.2938
#1	1.2944	5.5347	.06716	.37962	.28463	10.305	136.41
#2	1.2940	5.5405	.06749	.37845	.28602	10.289	139.97
#3	1.2958	5.5408	.06798	.38071	.28556	10.297	137.92

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: S5 Acquired: 1/29/2025 11:12:23 Type: Cal
Method: NON EPA-6010-200.7(v2639) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2456.8	51386.	9275.2	1752.5	3487.0
Stddev	4.8	153.	14.4	6.3	4.5
%RSD	.19536	.29790	.15570	.36200	.12875
#1	2454.8	51469.	9291.6	1759.3	3483.1
#2	2462.3	51480.	9264.1	1751.5	3491.9
#3	2453.4	51209.	9270.1	1746.7	3486.2

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICV01 Acquired: 1/29/2025 11:16:39 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9920509	1.012665	.9826453	1.001322	.9840614	2.420046
Stddev	.0008079	.005796	.0035350	.002963	.0021449	.008984
%RSD	.0814326	.5723088	.3597473	.2959321	.2179617	.3712203
#1	.9925615	1.017206	.9801160	1.003798	.9864478	2.409673
#2	.9911195	1.014650	.9811354	1.002130	.9822943	2.425116
#3	.9924716	1.006137	.9866845	.998039	.9834420	2.425348

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4777587	.4821321	.4902501	9.548401	.5173518	.4926736
Stddev	.0025657	.0044867	.0011713	.020978	.0008161	.0015519
%RSD	.5370378	.9305891	.2389132	.2196984	.1577473	.3150024
#1	.4752465	.4780075	.4891060	9.524193	.5178768	.4910923
#2	.4776549	.4869093	.4901976	9.561253	.5164116	.4927340
#3	.4803749	.4814793	.4914468	9.559756	.5177670	.4941944

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5119800	9.940609	.4905044	5.684938	.4950745	.2495549
Stddev	.0015255	.067640	.0039565	.033436	.0019122	.0003650
%RSD	.2979693	.6804395	.8066262	.5881509	.3862369	.1462427
#1	.5122197	9.976884	.4860800	5.647099	.4928970	.2499606
#2	.5103488	9.862570	.4917302	5.697213	.4958463	.2494509
#3	.5133715	9.982374	.4937029	5.710501	.4964800	.2492533

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.445386	.4859666	.9963819	9.837966	F .0131760	F -.000474
Stddev	.091413	.0027460	.0057912	.081495	.0015260	.000097
%RSD	.9678057	.5650585	.5812219	.8283719	11.58137	20.45580
#1	9.485889	.4839141	.9982484	9.881984	.0146475	-.000364
#2	9.340719	.4848997	.9898876	9.743928	.0132795	-.000547
#3	9.509550	.4890859	1.001010	9.887986	.0116009	-.000511

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICV01 Acquired: 1/29/2025 11:16:39 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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 -.000809	F -.000792	F -.020134	F .0026081	F -.002067	F -.004044
Stddev	.000953	.000477	.002771	.0020972	.001902	.000368
%RSD	117.8596	60.29858	13.76536	80.41145	92.01235	9.100839
#1	-.001906	-.001298	-.019824	.0003295	-.004235	-.003954
#2	-.000188	-.000350	-.023047	.0030374	-.001289	-.003730
#3	-.000332	-.000727	-.017530	.0044574	-.000678	-.004449

Elem	Sr4077
Units	ppm
Avg	F -.008814
Stddev	.000027
%RSD	.3018520
#1	-.008825
#2	-.008783
#3	-.008833

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2674.386	54312.61	10218.14	1888.739	4021.175
Stddev	8.208	86.96	79.91	15.767	10.754
%RSD	.3069039	.1601022	.7820614	.8347906	.2674396
#1	2670.549	54225.59	10291.88	1877.369	4025.209
#2	2683.810	54399.50	10133.23	1906.738	4029.328
#3	2668.800	54312.75	10229.30	1882.109	4008.987

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LLICV01 Acquired: 1/29/2025 11:32:53 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227645	.0390204	.0118154	.0195475	.0487235	.0974708
Stddev	.0017751	.0010674	.0009021	.0007618	.0009948	.0018145
%RSD	7.797720	2.735509	7.634530	3.897087	2.041687	1.861601
#1	.0233191	.0401741	.0107800	.0201195	.0475879	.0972793
#2	.0207783	.0388194	.0124308	.0198401	.0494411	.0993734
#3	.0241962	.0380679	.0122355	.0186827	.0491414	.0957596

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865219	.0057407	.0058047	1.896940	.0099395	.0287749
Stddev	.0003830	.0000562	.0001261	.009149	.0001783	.0002277
%RSD	.4426084	.9788887	2.171696	.4823173	1.794211	.7913338
#1	.0861692	.0057225	.0058994	1.891903	.0097639	.0290126
#2	.0864672	.0056958	.0058530	1.891417	.0101205	.0285587
#3	.0869292	.0058037	.0056616	1.907501	.0099341	.0287533

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215001	.0833891	.0182770	1.998113	.0388151	.0109553
Stddev	.0003125	.0028814	.0000333	.018332	.0001723	.0003570
%RSD	1.453487	3.455318	.1819961	.9174481	.4437799	3.258638
#1	.0217925	.0863459	.0183109	1.984554	.0387543	.0112929
#2	.0215371	.0832317	.0182758	1.990816	.0386814	.0109914
#3	.0211708	.0805896	.0182443	2.018970	.0390095	.0105817

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.677991	.0375602	.0402926	1.914134	.0931584	.2040461
Stddev	.015314	.0009871	.0001821	.031809	.0007673	.0003725
%RSD	.9126266	2.628155	.4518116	1.661808	.8236655	.1825471
#1	1.674656	.0364492	.0404046	1.887633	.0938562	.2043203
#2	1.694697	.0383363	.0403907	1.949410	.0923367	.2036220
#3	1.664619	.0378953	.0400826	1.905360	.0932824	.2041960

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LLICV01 Acquired: 1/29/2025 11:32:53 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0386264	.0367822	F .3114675	.0175363	.0165220	F .0152546
Stddev	.0005502	.0001073	.0107435	.0018316	.0018728	.0012229
%RSD	1.424538	.2918345	3.449333	10.44450	11.33536	8.016596
#1	.0391645	.0367451	.3055229	.0191133	.0156679	.0142314
#2	.0380648	.0366983	.3238696	.0179682	.0186697	.0149234
#3	.0386497	.0369032	.3050101	.0155273	.0152285	.0166090

Elem	Sr4077
Units	ppm
Avg	.0183221
Stddev	.0000098
%RSD	.0534612
#1	.0183191
#2	.0183331
#3	.0183142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.111	53551.65	10135.79	1817.893	3974.935
Stddev	6.419	215.99	28.68	5.541	11.428
%RSD	.2468758	.4033360	.2829211	.3047770	.2874972
#1	2594.586	53623.45	10133.90	1819.411	3968.738
#2	2607.153	53308.90	10165.37	1811.752	3988.123
#3	2598.595	53722.61	10108.11	1822.517	3967.944

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICB01 Acquired: 1/29/2025 11:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0001587	-.001815	-.000284	.0010482	-.001246	.0033597	-.003298
Stddev	.0023620	.001074	.000951	.0009748	.001633	.0042147	.000442
%RSD	1488.010	59.18452	334.3460	92.99508	131.0582	125.4491	13.41199
#1	-.001875	-.000706	-.001351	-.000077	.000639	.0070344	-.003160
#2	-.000399	-.002850	.000476	.001588	-.002167	.0042855	-.002941
#3	.002750	-.001887	.000022	.001634	-.002210	-.001241	-.003793

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000879	-.000085	-.018220	-.000094	-.000213	-.000270	-.016152
Stddev	.0000353	.000053	.001462	.000098	.000126	.000353	.004452
%RSD	40.18265	61.95081	8.022402	104.9152	59.48235	131.0099	27.56572
#1	.0000515	-.000026	-.019704	-.000205	-.000355	-.000253	-.011347
#2	.0000902	-.000127	-.016782	-.000056	-.000171	-.000630	-.016973
#3	.0001220	-.000103	-.018175	-.000020	-.000112	.000075	-.020137

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000062	-.013460	-.000221	.0006729	-.115323	-.000904	-.002655
Stddev	.000191	.010301	.000292	.0002388	.010158	.000886	.000247
%RSD	307.4701	76.53276	131.8445	35.48370	8.808178	98.09384	9.303262
#1	.000010	-.023333	-.000544	.0005211	-.119286	-.000186	-.002462
#2	-.000279	-.002779	-.000146	.0009482	-.122902	-.001894	-.002569
#3	.000082	-.014268	.000025	.0005496	-.103781	-.000631	-.002933

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241305	-.001666	-.000479	-.000286	-.000580	-.011033	-.000098
Stddev	.0150462	.000584	.000050	.000365	.000270	.004297	.001436
%RSD	62.35342	35.04160	10.38311	127.5801	46.61362	38.94602	1466.979
#1	.0078422	-.002223	-.000535	-.000531	-.000480	-.015938	.001330
#2	.0375098	-.001059	-.000444	.000133	-.000886	-.009222	-.000082
#3	.0270394	-.001717	-.000457	-.000459	-.000374	-.007937	-.001541

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICB01 Acquired: 1/29/2025 11:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003638	-.004207	-.000209
Stddev	.002792	.001012	.000081
%RSD	76.76624	24.04988	38.93302
#1	-.003856	-.003162	-.000247
#2	-.000742	-.004278	-.000263
#3	-.006314	-.005182	-.000115

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2683.016	53988.56	9868.148	1853.167	4147.910
Stddev	5.315	123.42	27.927	5.692	1.408
%RSD	.1981078	.2286043	.2830047	.3071755	.0339366
#1	2677.064	53969.32	9837.717	1848.307	4146.339
#2	2687.289	54120.47	9892.605	1859.430	4149.056
#3	2684.695	53875.89	9874.121	1851.764	4148.336

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CRI01 Acquired: 1/29/2025 11:41:36 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234348	.0388462	.0103874	.0189484	.0490657	.0948343
Stddev	.0019232	.0015187	.0011039	.0006818	.0008563	.0124452
%RSD	8.206503	3.909534	10.62693	3.598274	1.745300	13.12309
#1	.0214077	.0403402	.0116544	.0197330	.0497639	.1078525
#2	.0252337	.0373040	.0098748	.0186132	.0481102	.0830547
#3	.0236629	.0388942	.0096331	.0184991	.0493230	.0935956

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0862342	.0057156	.0056818	1.881126	.0094607	.0282083
Stddev	.0009577	.0001025	.0000476	.010559	.0002424	.0002811
%RSD	1.110593	1.793437	.8383768	.5612970	2.561775	.9964966
#1	.0873347	.0058178	.0056434	1.888698	.0094103	.0284341
#2	.0857784	.0056128	.0056669	1.869064	.0092474	.0278935
#3	.0855895	.0057161	.0057351	1.885615	.0097242	.0282975

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211657	.0838471	.0185786	1.992843	.0377351	.0102610
Stddev	.0003046	.0038721	.0002163	.021117	.0001746	.0003730
%RSD	1.439156	4.618065	1.164317	1.059654	.4627754	3.635124
#1	.0213570	.0793762	.0183805	1.999967	.0378051	.0102040
#2	.0208144	.0861232	.0185458	1.969085	.0375363	.0106592
#3	.0213255	.0860419	.0188094	2.009476	.0378638	.0099197

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.662587	.0386534	.0388870	1.920522	.0920173	.1991837
Stddev	.018437	.0016539	.0004048	.038610	.0011735	.0011117
%RSD	1.108919	4.278731	1.041052	2.010382	1.275265	.5581335
#1	1.673920	.0385864	.0392543	1.884347	.0919221	.1979002
#2	1.672528	.0403397	.0384530	1.961176	.0908944	.1998070
#3	1.641313	.0370340	.0389536	1.916042	.0932355	.1998440

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CRI01 Acquired: 1/29/2025 11:41:36 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0379208	.0367408	.3128364	.0159388	.0163878	F .0124559
Stddev	.0010822	.0005741	.0084029	.0013110	.0003688	.0001592
%RSD	2.853740	1.562616	2.686046	8.225252	2.250604	1.277773
#1	.0385515	.0362261	.3126729	.0145834	.0166934	.0126250
#2	.0385395	.0366362	.3213199	.0160328	.0164919	.0124337
#3	.0366712	.0373600	.3045164	.0172003	.0159781	.0123091

Elem	Sr4077
Units	ppm
Avg	.0180865
Stddev	.0001501
%RSD	.8296871
#1	.0182466
#2	.0179490
#3	.0180639

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2631.567	53470.02	9960.785	1848.973	4002.173
Stddev	1.956	146.80	86.822	10.627	2.086
%RSD	.0743190	.2745423	.8716379	.5747625	.0521235
#1	2633.707	53301.15	9908.428	1838.277	3999.807
#2	2629.871	53567.20	10061.01	1849.113	4002.962
#3	2631.124	53541.70	9912.92	1859.530	4003.749

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICSA01 Acquired: 1/29/2025 11:45:55 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099037	.0136104	.0075910	-.003377	-.003294	243.5500
Stddev	.0049544	.0042041	.0019127	.000929	.002331	1.3729
%RSD	50.02533	30.88884	25.19743	27.51816	70.76586	.5636875
#1	.0150637	.0184531	.0097496	-.002309	-.003540	242.5197
#2	.0051843	.0114812	.0061069	-.004004	-.000850	245.1086
#3	.0094632	.0108969	.0069165	-.003817	-.005492	243.0219

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031689	.0030576	.0009480	227.3080	.0580249	.0019204
Stddev	.0003135	.0000457	.0002292	.4311	.0005292	.0001975
%RSD	9.893504	1.495014	24.17826	.1896409	.9119310	10.28487
#1	.0032129	.0030060	.0007050	226.8794	.0584823	.0019807
#2	.0034581	.0030737	.0009787	227.7415	.0581470	.0016998
#3	.0028357	.0030931	.0011603	227.3030	.0574453	.0020808

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193684	97.63694	.0100364	249.1325	.0024708	-.001729
Stddev	.0003516	.55725	.0003283	.4478	.0001524	.000301
%RSD	1.815531	.5707323	3.270770	.1797279	6.167266	17.40183
#1	.0190721	98.13266	.0096598	248.6172	.0022965	-.002046
#2	.0192761	97.03381	.0101873	249.4274	.0025792	-.001693
#3	.0197570	97.74434	.0102622	249.3527	.0025365	-.001447

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.059345	.0035812	.0009278	.2547609	F -.129434	-.000943
Stddev	.006638	.0006293	.0001831	.0395044	.004797	.000275
%RSD	11.18548	17.57309	19.72981	15.50647	3.706123	29.15982
#1	-.059492	.0028994	.0010066	.2095751	-.125103	-.001254
#2	-.065908	.0037045	.0007185	.2719420	-.134590	-.000839
#3	-.052635	.0041398	.0010582	.2827654	-.128610	-.000735

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICSA01 Acquired: 1/29/2025 11:45:55 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.002901	-.001009	.0035196	-.000600	-.018180	F -.040406
Stddev	.001019	.000494	.0015653	.003089	.003336	.000154
%RSD	35.11751	48.97946	44.47398	514.5595	18.34691	.3807389
#1	-.003774	-.001514	.0034568	-.004160	-.018787	-.040258
#2	-.001782	-.000526	.0019866	.000992	-.021171	-.040565
#3	-.003148	-.000987	.0051154	.001367	-.014583	-.040395

Elem	Sr4077
Units	ppm
Avg	-.005275
Stddev	.000725
%RSD	13.75007
#1	-.005837
#2	-.004456
#3	-.005532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2373.372	47607.32	9547.979	1637.563	3314.795
Stddev	9.161	130.04	56.635	8.880	8.058
%RSD	.3859782	.2731552	.5931653	.5422595	.2430892
#1	2383.933	47490.51	9593.574	1633.579	3323.982
#2	2368.613	47747.44	9484.582	1647.737	3308.927
#3	2367.571	47584.03	9565.783	1631.372	3311.477

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICSAB01 Acquired: 1/29/2025 12:02:30 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1102567	.0942703	.0545766	.0430081	.5882878	238.1415
Stddev	.0054958	.0015490	.0038177	.0018739	.0038391	1.8482
%RSD	4.984559	1.643133	6.995131	4.357031	.6525852	.7761124
#1	.1039474	.0932070	.0502445	.0408806	.5881833	236.7753
#2	.1128207	.0960475	.0574494	.0444136	.5845020	237.4046
#3	.1140019	.0935565	.0560359	.0437301	.5921780	240.2445

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5521818	.4823408	.9693651	219.8880	.5570787	.4864101
Stddev	.0004143	.0022496	.0024620	.3002	.0025716	.0005246
%RSD	.0750240	.4664011	.2539797	.1365406	.4616144	.1078454
#1	.5518265	.4816268	.9682873	219.5685	.5582510	.4861784
#2	.5520820	.4805349	.9676258	219.9313	.5588551	.4860412
#3	.5526368	.4848608	.9721822	220.1643	.5541298	.4870106

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4955592	93.26665	.4425056	239.7672	.9640877	.2089301
Stddev	.0020132	.51318	.0013218	.4282	.0016148	.0006955
%RSD	.4062566	.5502318	.2987088	.1785924	.1674999	.3328875
#1	.4953924	93.43646	.4412542	239.2763	.9637874	.2081537
#2	.4936346	93.67340	.4438880	239.9615	.9626441	.2091401
#3	.4976507	92.69008	.4423744	240.0638	.9658316	.2094963

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.024671	.4521897	1.023694	.3308282	F -.134687	F -.001308
Stddev	.012938	.0025940	.002513	.0569832	.002352	.000656
%RSD	52.44388	.5736451	.2454993	17.22440	1.746008	50.15206
#1	-.038839	.4493559	1.026346	.2665939	-.132982	-.000755
#2	-.021692	.4544467	1.023387	.3505947	-.133709	-.002033
#3	-.013481	.4527666	1.021348	.3752962	-.137370	-.001138

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: ICSAB01 Acquired: 1/29/2025 12:02:30 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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 -.003273	F -.001521	F -.008416	F .0051188	F -.013058	F -.041297
Stddev	.000573	.000265	.005613	.0058906	.002503	.000660
%RSD	17.50928	17.44944	66.69235	115.0776	19.16874	1.599267
#1	-.002636	-.001319	-.014435	.0095155	-.014866	-.041645
#2	-.003746	-.001822	-.007486	-.001574	-.010201	-.041711
#3	-.003437	-.001422	-.003326	.007415	-.014108	-.040536

Elem	Sr4077
Units	ppm
Avg	F -.003737
Stddev	.000621
%RSD	16.62340
#1	-.003978
#2	-.004202
#3	-.003032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2340.505	47334.57	9430.126	1619.891	3277.982
Stddev	6.500	167.31	26.825	12.223	1.801
%RSD	.2777273	.3534666	.2844600	.7545659	.0549434
#1	2337.880	47283.11	9449.606	1612.238	3275.935
#2	2347.908	47199.04	9441.243	1613.446	3278.693
#3	2335.728	47521.57	9399.530	1633.987	3279.320

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV01 Acquired: 1/29/2025 12:06:42 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.891106	5.019158	4.897358	4.893750	4.901992	9.806662	9.210103
Stddev	.024331	.027767	.025907	.017722	.023267	.044517	.058957
%RSD	.4974437	.5532154	.5290072	.3621331	.4746353	.4539491	.6401379
#1	4.885629	5.005126	4.884291	4.882518	4.886291	9.782418	9.149759
#2	4.869980	5.001208	4.880586	4.884553	4.890962	9.779528	9.267568
#3	4.917708	5.051141	4.927197	4.914180	4.928722	9.858039	9.212981

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2432871	2.439007	23.86252	1.014548	2.428335	1.233636	4.805797
Stddev	.0001464	.011025	.09617	.004495	.011517	.003882	.010876
%RSD	.0601622	.4520420	.4030010	.4430083	.4742911	.3146671	.2263035
#1	.2432239	2.437350	23.84833	1.013811	2.426261	1.231924	4.813447
#2	.2431829	2.428904	23.77424	1.019365	2.417996	1.230904	4.793347
#3	.2434544	2.450767	23.96499	1.010467	2.440749	1.238079	4.810596

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319640	24.15599	2.437254	1.235206	23.33746	2.404636	2.498190
Stddev	.007005	.09419	.010714	.002437	.03417	.008604	.003348
%RSD	.3019789	.3899087	.4395955	.1972701	.1464199	.3577898	.1340233
#1	2.316685	24.15516	2.434865	1.236352	23.35316	2.400367	2.494868
#2	2.314596	24.06223	2.427935	1.236859	23.36097	2.399001	2.498138
#3	2.327638	24.25059	2.448960	1.232408	23.29827	2.414539	2.501564

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.09162	4.758868	5.008456	4.909184	4.735685	4.991017	4.913970
Stddev	.03512	.006619	.019303	.016265	.012261	.036796	.013558
%RSD	.1457658	.1390905	.3854046	.3313276	.2589015	.7372415	.2759085
#1	24.12413	4.761282	4.998676	4.903861	4.731617	4.948781	4.910662
#2	24.09636	4.751381	4.996001	4.896248	4.725975	5.008141	4.902371
#3	24.05438	4.763941	5.030692	4.927445	4.749462	5.016131	4.928875

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV01 Acquired: 1/29/2025 12:06:42 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.771144	4.689474	4.730371
Stddev	.026867	.009959	.038505
%RSD	.5631150	.2123714	.8139915
#1	4.757502	4.690113	4.772974
#2	4.753835	4.679211	4.698052
#3	4.802095	4.699098	4.720088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2517.294	51237.39	9473.740	1730.619	3672.496
Stddev	7.886	42.93	34.570	10.956	12.991
%RSD	.3132756	.0837863	.3649027	.6330962	.3537421
#1	2523.172	51280.91	9484.544	1740.833	3678.500
#2	2520.378	51195.07	9501.617	1731.979	3681.400
#3	2508.332	51236.18	9435.058	1719.046	3657.589

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB01 Acquired: 1/29/2025 12:10:54 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000933	-.001156	-.001062	-.001105	-.000898	.0018118	-.002140
Stddev	.001392	.001078	.000778	.002231	.000384	.0059417	.000611
%RSD	149.1813	93.22562	73.23444	201.9566	42.74150	327.9433	28.57148
#1	.000190	-.001558	-.001690	.000814	-.000572	.0069286	-.002510
#2	-.002491	.000065	-.000192	-.000575	-.000801	-.004705	-.001434
#3	-.000499	-.001974	-.001303	-.003553	-.001322	.003212	-.002476

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001273	.0000252	-.020310	-.000085	-.000126	-.000785	-.010003
Stddev	.0000758	.0000740	.001215	.000236	.000106	.000260	.005575
%RSD	59.51869	293.7381	5.981700	276.1671	84.10586	33.17375	55.73231
#1	.0000844	-.000057	-.019937	.000099	-.000188	-.000675	-.016323
#2	.0002148	.000086	-.021668	-.000004	-.000188	-.001083	-.007900
#3	.0000827	.000047	-.019326	-.000351	-.000004	-.000598	-.005785

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000286	-.010952	.0000172	.0009267	-.072777	.0006354	-.002501
Stddev	.000155	.009963	.0001432	.0003588	.018109	.0001019	.000257
%RSD	54.12297	90.96618	833.4901	38.71737	24.88346	16.04449	10.26644
#1	-.000146	-.001865	.0001820	.0005269	-.065317	.0005194	-.002764
#2	-.000453	-.021605	-.000054	.0010327	-.059589	.0007106	-.002251
#3	-.000260	-.009386	-.000077	.0012206	-.093425	.0006760	-.002487

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1178835	.0072746	-.000335	-.000350	.0000389	-.011900	-.001977
Stddev	.0134612	.0009863	.000197	.000104	.0004048	.007125	.001571
%RSD	11.41907	13.55746	58.86632	29.83643	1040.859	59.87471	79.44671
#1	.1316873	.0083869	-.000140	-.000256	.0004191	-.004038	-.001263
#2	.1047933	.0069303	-.000534	-.000332	-.000387	-.013732	-.003777
#3	.1171699	.0065067	-.000331	-.000463	.000084	-.017931	-.000890

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB01 Acquired: 1/29/2025 12:10:54 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005549	-.004837	-.000204
Stddev	.001709	.001378	.000026
%RSD	30.79641	28.48840	12.89061
#1	-.003763	-.004230	-.000173
#2	-.005714	-.006415	-.000219
#3	-.007169	-.003867	-.000218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2584.601	53535.90	9924.590	1808.864	3985.576
Stddev	3.624	1192.32	63.524	37.884	10.157
%RSD	.1402096	2.227145	.6400681	2.094376	.2548521
#1	2583.023	52789.73	9974.541	1792.203	3975.016
#2	2582.034	52906.96	9853.096	1782.165	3986.437
#3	2588.746	54911.01	9946.133	1852.223	3995.276

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-01 Acquired: 1/29/2025 12:15:15 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0379331	.0149391	.1469505	-.009185	-.008170	108.7461	1.030563
Stddev	.0052629	.0017042	.0005470	.000835	.000720	.1194	.002733
%RSD	13.87413	11.40784	.3722551	9.090399	8.811174	.1098087	.2651494
#1	.0332261	.0141782	.1463193	-.009851	-.008034	108.6923	1.033015
#2	.0436154	.0168913	.1472872	-.008248	-.008948	108.6631	1.027617
#3	.0369576	.0137479	.1472450	-.009457	-.007528	108.8830	1.031057

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114357	.0049819	31.77912	.3068323	.1157805	.3085046	195.2284
Stddev	.0000618	.0000473	.09747	.0017266	.0001115	.0006925	.7002
%RSD	.5401438	.9484984	.3067265	.5627106	.0963022	.2244636	.3586768
#1	.0113651	.0049299	31.83432	.3059202	.1158715	.3078177	195.6899
#2	.0114799	.0049938	31.66657	.3088236	.1158140	.3084934	195.5726
#3	.0114621	.0050221	31.83647	.3057530	.1156561	.3092026	194.4226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.749441	48.91085	.2667828	-.000835	2.914459	.1834139	.6168328
Stddev	.029667	.04439	.0001787	.000387	.016550	.0024494	.0032437
%RSD	.5159998	.0907506	.0669740	46.37771	.5678708	1.335463	.5258579
#1	5.779659	48.96098	.2669805	-.000463	2.922327	.1808411	.6198756
#2	5.720358	48.87655	.2667349	-.001236	2.925607	.1836830	.6134200
#3	5.748304	48.89501	.2666329	-.000806	2.895442	.1857177	.6172028

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.06549	-.239080	.0162294	.0035428	1.245626	2.027779	9.917860
Stddev	.05350	.004249	.0003641	.0012806	.004782	.012912	.036352
%RSD	.2961426	1.777333	2.243399	36.14657	.3839257	.6367691	.3665278
#1	18.09151	-.242208	.0164093	.0026446	1.249005	2.029813	9.959329
#2	18.10101	-.234242	.0164684	.0029747	1.240154	2.039554	9.902754
#3	18.00396	-.240790	.0158103	.0050092	1.247719	2.013971	9.891497

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-01 Acquired: 1/29/2025 12:15:15 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8447846	.2315879	-.055617
Stddev	.0070625	.0006561	.000686
%RSD	.8360177	.2833126	1.233739
#1	.8529396	.2308931	-.055468
#2	.8407448	.2316738	-.056365
#3	.8406694	.2321969	-.055018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.751	58436.96	11637.18	1937.518	3519.686
Stddev	11.439	256.26	22.17	13.177	11.307
%RSD	.4036867	.4385190	.1905082	.6800761	.3212386
#1	2820.584	58472.17	11622.08	1922.617	3506.776
#2	2841.254	58164.92	11662.63	1942.307	3527.825
#3	2839.414	58673.79	11626.83	1947.631	3524.458

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-02 Acquired: 1/29/2025 12:19:22 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.064764	.0091379	4.510965	.0053751	-.008026	126.7644
Stddev	.003939	.0023168	.009762	.0027006	.001656	.3514
%RSD	.3699555	25.35382	.2164168	50.24263	20.63265	.2772205
#1	1.069309	.0091369	4.505491	.0080211	-.009665	126.3901
#2	1.062347	.0068216	4.505167	.0026230	-.008058	127.0873
#3	1.062635	.0114552	4.522236	.0054813	-.006354	126.8157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.099837	.0147809	.0180360	24.40346	1.486881	.1221754
Stddev	.001403	.0000375	.0002644	.07780	.003243	.0007436
%RSD	.1275764	.2537521	1.466047	.3188258	.2180860	.6086259
#1	1.098218	.0147880	.0179525	24.31491	1.490045	.1219487
#2	1.100694	.0148144	.0178235	24.43458	1.483565	.1215715
#3	1.100600	.0147404	.0183321	24.46089	1.487033	.1230060

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.136407	238.4049	2.262652	45.72539	.3917053	.0156901
Stddev	.009004	1.4638	.003428	.21091	.0010272	.0002574
%RSD	.2870952	.6139776	.1515188	.4612442	.2622319	1.640255
#1	3.137086	239.9159	2.258779	45.48394	.3914234	.0156600
#2	3.127082	236.9935	2.263877	45.87361	.3908485	.0154491
#3	3.145052	238.3052	2.265299	45.81862	.3928440	.0159611

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.883699	.3313122	5.269836	16.88077	-.278745	.0151087
Stddev	.097807	.0027416	.017771	.13967	.008424	.0004056
%RSD	1.100974	.8274839	.3372143	.8274100	3.022161	2.684788
#1	8.995475	.3290763	5.277453	17.02158	-.270770	.0146710
#2	8.813818	.3343710	5.249526	16.74226	-.287556	.0154720
#3	8.841804	.3304895	5.282528	16.87847	-.277908	.0151829

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-02 Acquired: 1/29/2025 12:19:22 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.985711	1.715857	3.434016	F 12.92462	F 74.18722	.2211033
Stddev	.008773	.003517	.039170	.02489	.23007	.0003131
%RSD	.2938170	.2049895	1.140654	.1925596	.3101162	.1416079
#1	2.986488	1.711802	3.479095	12.91634	74.21621	.2207464
#2	2.976576	1.717688	3.408278	12.90494	73.94403	.2213315
#3	2.994069	1.718080	3.414676	12.95260	74.40141	.2212321

Elem	Sr4077
Units	ppm
Avg	.0455535
Stddev	.0015209
%RSD	3.338711
#1	.0439335
#2	.0469507
#3	.0457764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.174	61132.43	11957.87	2028.836	3587.710
Stddev	7.380	148.42	85.27	5.085	8.062
%RSD	.2465546	.2427841	.7131189	.2506504	.2247136
#1	2988.813	61011.36	12053.95	2030.365	3583.040
#2	3001.695	61298.01	11891.16	2032.981	3597.019
#3	2989.015	61087.92	11928.50	2023.161	3583.070

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-03 Acquired: 1/29/2025 12:23:25 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170120	.0075873	.0978177	-.008086	-.006741	86.10566	.6121489
Stddev	.0037718	.0024149	.0007341	.003718	.000793	.15761	.0011248
%RSD	22.17148	31.82874	.7505146	45.97448	11.76552	.1830390	.1837396
#1	.0155922	.0082806	.0970399	-.010528	-.005973	86.24516	.6126396
#2	.0212877	.0049015	.0979144	-.009923	-.006692	86.13713	.6108622
#3	.0141561	.0095797	.0984986	-.003808	-.007557	85.93469	.6129450

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080817	.0025179	22.98812	.1914788	.1117558	.3545340	128.9737
Stddev	.0000657	.0001911	.07094	.0006285	.0002825	.0013623	.5812
%RSD	.8129158	7.588960	.3085864	.3282322	.2527809	.3842387	.4506010
#1	.0080192	.0023604	23.06000	.1921366	.1116594	.3542859	129.4102
#2	.0080757	.0024629	22.91816	.1914153	.1115341	.3533128	129.1968
#3	.0081502	.0027305	22.98620	.1908844	.1120739	.3560032	128.3140

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.921482	51.94101	.2494437	.0003148	4.194121	.1677154	.4713344
Stddev	.016537	.15734	.0016750	.0001555	.013908	.0013567	.0020680
%RSD	.3360180	.3029299	.6714833	49.39551	.3316053	.8089495	.4387480
#1	4.933288	52.08103	.2479746	.0001971	4.202576	.1689620	.4734256
#2	4.902582	51.77073	.2490888	.0002562	4.201718	.1662704	.4692905
#3	4.928578	51.97126	.2512677	.0004911	4.178069	.1679138	.4712871

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.61249	-.158650	.0088342	-.002653	2.168787	1.971433	5.565119
Stddev	.15173	.000318	.0003635	.001116	.003969	.016882	.020643
%RSD	.6164803	.2003965	4.114125	42.07681	.1829910	.8563525	.3709321
#1	24.66867	-.158941	.0084828	-.001380	2.173142	1.976110	5.541285
#2	24.72811	-.158311	.0092086	-.003466	2.165375	1.985484	5.576793
#3	24.44067	-.158698	.0088111	-.003113	2.167844	1.952706	5.577280

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-03 Acquired: 1/29/2025 12:23:25 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.921629	.1974568	-.029708
Stddev	.007039	.0011949	.000721
%RSD	.3663151	.6051309	2.427007
#1	1.915322	.1984725	-.029766
#2	1.920343	.1961403	-.030398
#3	1.929223	.1977578	-.028959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.738	58559.02	11288.20	1973.250	3680.820
Stddev	6.322	281.90	53.79	19.089	15.888
%RSD	.2204353	.4813895	.4765589	.9674070	.4316519
#1	2870.380	58312.56	11249.64	1955.038	3690.714
#2	2872.310	58498.11	11349.66	1971.602	3689.252
#3	2860.524	58866.39	11265.31	1993.110	3662.493

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04 Acquired: 1/29/2025 12:27:33 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001514	.0170403	.1889688	-.013889	-.009508	134.4790
Stddev	.0032544	.0011784	.0006304	.001592	.000564	.3714
%RSD	3.249494	6.915395	.3336039	11.46404	5.936895	.2761776
#1	.1038709	.0161056	.1894830	-.013900	-.008866	134.6185
#2	.0987554	.0166513	.1882654	-.012291	-.009926	134.0581
#3	.0978278	.0183641	.1891578	-.015475	-.009731	134.7605

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3611392	.0179850	.0166719	20.45980	.3100382	.1630107
Stddev	.0018496	.0000791	.0003232	.08224	.0008735	.0006021
%RSD	.5121506	.4398430	1.938319	.4019424	.2817313	.3693311
#1	.3617897	.0178951	.0170417	20.53711	.3095792	.1629796
#2	.3590523	.0180440	.0164441	20.37340	.3094900	.1624247
#3	.3625757	.0180158	.0165298	20.46890	.3110455	.1636276

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2033898	335.8579	4.371062	66.58098	.3339772	-.003317
Stddev	.0008907	1.6644	.022323	.25256	.0010521	.000317
%RSD	.4379485	.4955630	.5107098	.3793282	.3150189	9.551389
#1	.2030869	334.0321	4.388875	66.67754	.3340825	-.003681
#2	.2026899	336.2510	4.346020	66.29438	.3328764	-.003159
#3	.2043925	337.2905	4.378290	66.77101	.3349727	-.003109

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.94967	.3289853	.7933153	24.43824	-.353727	.0006954
Stddev	.01587	.0014287	.0043756	.03013	.003707	.0001845
%RSD	.1449599	.4342915	.5515605	.1232828	1.047864	26.53925
#1	10.96735	.3296707	.7983617	24.46675	-.357643	.0006970
#2	10.93666	.3273429	.7905759	24.40672	-.350274	.0005100
#3	10.94499	.3299421	.7910084	24.44124	-.353265	.0008791

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04 Acquired: 1/29/2025 12:27:33 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013174	1.827960	2.847321	7.381441	F 140.4602	.2760959
Stddev	.0020088	.007381	.015306	.034570	.3172	.0001154
%RSD	152.4832	.4037688	.5375708	.4683311	.2258490	.0417820
#1	.0016807	1.834265	2.835078	7.370261	140.5332	.2759651
#2	-.000848	1.819842	2.842403	7.353845	140.1129	.2761396
#3	.003120	1.829773	2.864482	7.420217	140.7346	.2761831

Elem	Sr4077
Units	ppm
Avg	-.097152
Stddev	.002445
%RSD	2.516681
#1	-.094330
#2	-.098608
#3	-.098519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3106.482	63958.55	12671.78	2135.109	3484.508
Stddev	4.121	183.03	57.01	7.338	6.206
%RSD	.1326559	.2861644	.4498803	.3436714	.1780905
#1	3101.724	64083.44	12635.58	2130.844	3480.125
#2	3108.917	64043.75	12737.49	2143.582	3491.609
#3	3108.805	63748.45	12642.26	2130.901	3481.791

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04DUP Acquired: 1/29/2025 12:31:45 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1002931	.0180796	.1828021	-.010318	-.010457	133.6822
Stddev	.0016253	.0035262	.0006975	.001168	.001268	.9979
%RSD	1.620570	19.50375	.3815362	11.31863	12.12544	.7464599
#1	.1021566	.0173365	.1831235	-.009002	-.009227	134.1755
#2	.0991683	.0149842	.1820018	-.011232	-.011760	134.3374
#3	.0995545	.0219181	.1832808	-.010720	-.010385	132.5337

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3579271	.0174142	.0159708	20.22547	.3072396	.1586414
Stddev	.0029692	.0000876	.0004949	.12520	.0001934	.0001867
%RSD	.8295669	.5031426	3.098823	.6190194	.0629471	.1176528
#1	.3602432	.0174774	.0155243	20.32646	.3074023	.1585719
#2	.3589584	.0174510	.0165029	20.26457	.3070258	.1588528
#3	.3545797	.0173142	.0158852	20.08539	.3072908	.1584995

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1956258	332.0371	4.319454	65.64094	.3259672	-.002748
Stddev	.0006610	2.2124	.026075	.26082	.0003299	.000312
%RSD	.3378834	.6663076	.6036537	.3973486	.1012010	11.34337
#1	.1950120	332.9480	4.338520	65.78611	.3257040	-.002833
#2	.1963256	329.5147	4.330101	65.79689	.3263373	-.003008
#3	.1955398	333.6486	4.289741	65.33984	.3258604	-.002402

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.00603	.3258173	.7830302	24.49387	-.349259	.0006834
Stddev	.03811	.0024225	.0063288	.08746	.004916	.0002155
%RSD	.3462897	.7435016	.8082396	.3570620	1.407429	31.52853
#1	11.03625	.3257766	.7870630	24.52035	-.351278	.0008054
#2	11.01862	.3282598	.7757360	24.56503	-.352843	.0004346
#3	10.96321	.3234154	.7862916	24.39623	-.343655	.0008102

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04DUP Acquired: 1/29/2025 12:31:45 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006147	1.814306	2.837610	7.078227	F 135.8885	.2735872
Stddev	.0021042	.013806	.003740	.007963	.1871	.0023901
%RSD	342.2958	.7609596	.1317868	.1125039	.1377187	.8736113
#1	-.000365	1.821925	2.841916	7.078552	135.6916	.2760585
#2	.003030	1.822624	2.835738	7.086022	135.9097	.2734155
#3	-.000821	1.798369	2.835176	7.070106	136.0641	.2712876

Elem	Sr4077
Units	ppm
Avg	-.095174
Stddev	.003623
%RSD	3.806622
#1	-.094496
#2	-.091938
#3	-.099088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.599	64476.79	12909.42	2133.753	3574.102
Stddev	3.851	166.03	63.35	18.158	4.604
%RSD	.1219698	.2575024	.4907276	.8509669	.1288151
#1	3161.708	64304.17	12842.32	2123.050	3579.117
#2	3154.072	64635.33	12917.74	2154.718	3570.066
#3	3157.015	64490.86	12968.20	2123.491	3573.123

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04LX5 Acquired: 1/29/2025 12:35:58 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244954	.0031865	.0409137	-.003861	-.004340	32.63439
Stddev	.0014402	.0022750	.0009946	.001555	.001461	.08207
%RSD	5.879570	71.39605	2.430839	40.28625	33.66309	.2514807
#1	.0251589	.0005595	.0413777	-.004329	-.005709	32.70700
#2	.0228430	.0044977	.0415916	-.002125	-.004508	32.65082
#3	.0254842	.0045024	.0397720	-.005129	-.002802	32.54535

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0839746	.0047612	.0000610	5.104660	.0781606	.0329835
Stddev	.0003193	.0000288	.0002292	.002675	.0005537	.0003004
%RSD	.3802909	.6045507	375.9774	.0524040	.7084330	.9107025
#1	.0836173	.0047902	.0002597	5.101705	.0777839	.0333235
#2	.0840743	.0047609	.0001129	5.106917	.0779016	.0328729
#3	.0842323	.0047326	-.000190	5.105357	.0787964	.0327541

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0526445	82.46423	1.075592	16.31378	.0689629	-.000715
Stddev	.0007960	.64013	.002815	.06031	.0013417	.000193
%RSD	1.512107	.7762544	.2616847	.3696841	1.945503	27.05207
#1	.0535571	82.24172	1.077752	16.26620	.0705121	-.000781
#2	.0522836	81.96504	1.076615	16.29352	.0681750	-.000497
#3	.0520928	83.18592	1.072409	16.38161	.0682017	-.000867

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.332966	.0811531	.1961405	5.729769	-.094418	-.000357
Stddev	.020819	.0017988	.0008483	.096549	.001912	.000094
%RSD	.8923942	2.216578	.4325152	1.685043	2.024793	26.29395
#1	2.314037	.0817525	.1952134	5.701048	-.093451	-.000261
#2	2.329596	.0825756	.1963301	5.650840	-.096620	-.000449
#3	2.355264	.0791310	.1968780	5.837420	-.093184	-.000361

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04LX5 Acquired: 1/29/2025 12:35:58 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001116	.4474368	.6667003	1.465902	F 28.62887	.0597798
Stddev	.001090	.0002967	.0019211	.018721	.27438	.0002564
%RSD	97.63004	.0663157	.2881552	1.277064	.9583918	.4288703
#1	-.002220	.4470947	.6689180	1.487517	28.94506	.0595696
#2	-.001087	.4476255	.6656380	1.455289	28.48803	.0600654
#3	-.000041	.4475900	.6655450	1.454898	28.45351	.0597042

Elem	Sr4077
Units	ppm
Avg	-.025168
Stddev	.000839
%RSD	3.335330
#1	-.024723
#2	-.024645
#3	-.026136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2740.167	55188.17	10656.59	1864.848	3852.867
Stddev	19.916	469.09	18.82	15.079	30.592
%RSD	.7268024	.8499805	.1766273	.8086065	.7940033
#1	2717.280	55525.02	10677.70	1877.613	3817.671
#2	2753.554	55387.09	10641.56	1868.721	3873.068
#3	2749.667	54652.40	10650.51	1848.210	3867.862

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04MS Acquired: 1/29/2025 12:40:09 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6935417	1.772221	1.081199	1.367016	.0357796	147.7000
Stddev	.0026818	.017612	.007499	.008255	.0008851	1.0197
%RSD	.3866771	.9937975	.6935526	.6038457	2.473840	.6903894
#1	.6965813	1.792226	1.089742	1.376124	.0367164	146.6711
#2	.6915096	1.765389	1.075706	1.364897	.0356651	148.7103
#3	.6925341	1.759048	1.078149	1.360027	.0349573	147.7187

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5104874	.1588009	.2018885	21.82683	.6218030	.3539621
Stddev	.0047012	.0013356	.0018995	.19446	.0029348	.0025621
%RSD	.9209292	.8410462	.9408487	.8909439	.4719870	.7238246
#1	.5054561	.1574923	.2040478	21.62546	.6208279	.3565476
#2	.5147684	.1601619	.2004758	22.01356	.6194799	.3514241
#3	.5112377	.1587484	.2011418	21.84147	.6251013	.3539146

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4247208	325.1019	4.419662	70.42340	.8035975	.0482298
Stddev	.0028138	1.9645	.036340	.69661	.0061435	.0005375
%RSD	.6625010	.6042827	.8222454	.9891720	.7644936	1.114396
#1	.4279476	324.7201	4.378998	69.71500	.8100274	.0484989
#2	.4227787	323.3564	4.448965	71.10759	.7977876	.0476109
#3	.4234360	327.2294	4.431023	70.44761	.8029774	.0485795

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.31296	.5520876	.9711384	30.17208	-.262717	.2635524
Stddev	.10337	.0073644	.0060204	.20632	.006490	.0011511
%RSD	.8394964	1.333915	.6199321	.6838113	2.470490	.4367601
#1	12.27357	.5447131	.9657317	30.03294	-.258729	.2648618
#2	12.23509	.5594418	.9700574	30.07418	-.270206	.2630953
#3	12.43024	.5521078	.9776261	30.40913	-.259215	.2627001

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04MS Acquired: 1/29/2025 12:40:09 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5725529	2.099477	2.946902	F 12.87167	F 138.6388	.4315160
Stddev	.0044063	.016496	.018060	.08674	1.1685	.0024615
%RSD	.7695974	.7856983	.6128609	.6738482	.8428649	.5704260
#1	.5772811	2.082114	2.953766	12.96404	139.9428	.4290521
#2	.5685611	2.114940	2.926416	12.79195	137.6864	.4339751
#3	.5718166	2.101378	2.960524	12.85902	138.2873	.4315207

Elem	Sr4077
Units	ppm
Avg	.0640584
Stddev	.0036402
%RSD	5.682575
#1	.0612594
#2	.0681736
#3	.0627423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3155.961	65247.74	12315.95	2155.656	3523.084
Stddev	10.929	402.56	92.12	12.016	18.952
%RSD	.3463007	.6169678	.7479457	.5573993	.5379497
#1	3143.413	65504.88	12414.19	2164.827	3502.309
#2	3161.071	65454.53	12231.52	2160.086	3539.430
#3	3163.398	64783.82	12302.12	2142.054	3527.511

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04MSD Acquired: 1/29/2025 12:44:15 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7040600	1.799773	1.093719	1.386024	.0400365	147.5808
Stddev	.0023504	.011995	.002031	.008692	.0024312	.3004
%RSD	.3338336	.6664944	.1856604	.6271082	6.072537	.2035184
#1	.7027210	1.794187	1.091732	1.376430	.0404495	147.4298
#2	.7067739	1.791590	1.095791	1.393373	.0374253	147.3859
#3	.7026850	1.813543	1.093634	1.388268	.0422348	147.9267

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5279750	.1566674	.2022110	22.04006	.6167039	.3578682
Stddev	.0033282	.0004407	.0010534	.09616	.0104275	.0012041
%RSD	.6303761	.2812958	.5209532	.4363078	1.690845	.3364561
#1	.5245538	.1570252	.2010075	22.01606	.6237681	.3569067
#2	.5281695	.1561751	.2026599	21.95818	.6216161	.3592187
#3	.5312017	.1568018	.2029657	22.14595	.6047275	.3574792

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4274241	339.0535	4.508143	71.93402	.8131942	.0508836
Stddev	.0020234	3.7344	.024678	.31188	.0011927	.0005792
%RSD	.4733852	1.101409	.5474161	.4335673	.1466650	1.138351
#1	.4251445	342.9218	4.491164	71.98655	.8120616	.0515460
#2	.4290072	338.7694	4.496814	71.59921	.8130818	.0506331
#3	.4281206	335.4693	4.536452	72.21631	.8144390	.0504718

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.12546	.5585434	.9598246	31.71593	-.217098	.2656788
Stddev	.16412	.0020983	.0148694	.45223	.006549	.0009364
%RSD	1.250359	.3756773	1.549175	1.425888	3.016616	.3524690
#1	13.16082	.5578096	.9688590	31.83270	-.215593	.2649603
#2	13.26901	.5569105	.9679519	32.09833	-.211433	.2653382
#3	12.94655	.5609100	.9426630	31.21677	-.224269	.2667379

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04MSD Acquired: 1/29/2025 12:44:15 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5800114	2.127534	3.048934	F 13.22277	F 141.0672	.4388779
Stddev	.0011673	.006865	.027637	.06026	.3456	.0014996
%RSD	.2012499	.3226720	.9064577	.4557119	.2449560	.3416859
#1	.5788376	2.126184	3.065608	13.16368	140.6760	.4371733
#2	.5800244	2.121444	3.064162	13.28413	141.3311	.4394665
#3	.5811721	2.134973	3.017032	13.22050	141.1943	.4399938

Elem	Sr4077
Units	ppm
Avg	.0525079
Stddev	.0055822
%RSD	10.63121
#1	.0468489
#2	.0526648
#3	.0580101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3110.182	65061.39	12494.31	2169.935	3462.581
Stddev	3.775	921.70	56.91	31.408	6.025
%RSD	.1213855	1.416656	.4554638	1.447404	.1739974
#1	3113.959	64464.97	12465.82	2150.798	3465.106
#2	3106.408	64596.23	12559.83	2152.824	3455.705
#3	3110.179	66122.97	12457.27	2206.182	3466.933

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04A Acquired: 1/29/2025 12:48:21 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6996895	1.802244	1.096343	1.387322	.0374142	148.0335
Stddev	.0030588	.010430	.000917	.003075	.0013083	.1305
%RSD	.4371652	.5787221	.0836458	.2216455	3.496697	.0881761
#1	.6963108	1.804818	1.097275	1.390217	.0366029	148.1362
#2	.7004873	1.790768	1.095442	1.387655	.0389234	147.8866
#3	.7022703	1.811146	1.096312	1.384094	.0367163	148.0776

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5129730	.1559244	.2039274	21.76468	.6208085	.3583350
Stddev	.0020506	.0007264	.0015749	.01939	.0096251	.0014281
%RSD	.3997504	.4658791	.7722846	.0890876	1.550410	.3985301
#1	.5137779	.1561721	.2030631	21.75087	.6252534	.3576600
#2	.5106420	.1551066	.2029739	21.75633	.6274078	.3573696
#3	.5144990	.1564947	.2057452	21.78685	.6097642	.3599755

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4265235	336.3271	4.441703	71.31476	.8152323	.0502185
Stddev	.0033896	6.6380	.011055	.02835	.0024268	.0011123
%RSD	.7947061	1.973677	.2488944	.0397546	.2976794	2.214961
#1	.4254082	339.9876	4.445658	71.32924	.8134632	.0511665
#2	.4238320	340.3289	4.429215	71.33294	.8142348	.0504951
#3	.4303302	328.6647	4.450238	71.28209	.8179988	.0489940

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.87379	.5540363	.9615255	31.45736	-.229890	.2671314
Stddev	.17804	.0044368	.0138124	.52076	.010743	.0007698
%RSD	1.382966	.8008061	1.436511	1.655445	4.673067	.2881657
#1	13.00896	.5564801	.9735325	31.81502	-.222723	.2667949
#2	12.94035	.5489150	.9646135	31.69715	-.224706	.2665871
#3	12.67206	.5567139	.9464304	30.85990	-.242242	.2680121

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1194-04A Acquired: 1/29/2025 12:48:21 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5818140	2.115501	3.298145	F 13.11142	F 141.4267	.4351273
Stddev	.0039553	.006024	.052539	.03495	.4129	.0017466
%RSD	.6798234	.2847732	1.592993	.2665525	.2919257	.4014051
#1	.5792737	2.118309	3.318809	13.09737	141.2107	.4359579
#2	.5797972	2.108585	3.337211	13.08569	141.1666	.4331203
#3	.5863712	2.119609	3.238416	13.15121	141.9027	.4363036

Elem	Sr4077
Units	ppm
Avg	.0529362
Stddev	.0069511
%RSD	13.13117
#1	.0500094
#2	.0479271
#3	.0608722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3110.758	65094.72	12581.27	2157.645	3466.910
Stddev	2.656	905.69	39.72	28.855	5.318
%RSD	.0853732	1.391347	.3157165	1.337360	.1533790
#1	3112.971	64600.56	12570.57	2134.439	3470.445
#2	3111.489	64543.58	12625.25	2148.541	3469.490
#3	3107.813	66140.00	12548.00	2189.954	3460.795

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166298BL Acquired: 1/29/2025 13:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000297	-.001498	.0006926	.0000141	-.000442	.0030661	-.004705
Stddev	.0018176	.002322	.0001345	.0014723	.000333	.0085341	.000667
%RSD	6128.185	155.0516	19.42041	10468.78	75.21048	278.3397	14.17647
#1	.0019949	-.003243	.0005497	.0016046	-.000277	-.006573	-.005438
#2	-.001591	-.002388	.0008168	-.000261	-.000825	.009661	-.004134
#3	-.000315	.001138	.0007113	-.001301	-.000225	.006110	-.004542

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001096	-.000021	-.010377	-.000223	-.000170	-.000366	-.015483
Stddev	.0000316	.000099	.009683	.000253	.000091	.000307	.002603
%RSD	28.88629	471.3234	93.31442	113.3764	53.57158	83.88037	16.81236
#1	.0000813	.000086	-.005086	-.000216	-.000114	-.000713	-.012674
#2	.0001036	-.000041	-.004492	-.000480	-.000121	-.000129	-.017814
#3	.0001438	-.000109	-.021552	.000026	-.000275	-.000256	-.015960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000420	-.003953	.0000154	.0006085	-.141793	.0003462	-.002529
Stddev	.000189	.002812	.0000809	.0000406	.001444	.0004025	.000146
%RSD	44.99841	71.13123	526.6687	6.671675	1.018706	116.2630	5.784017
#1	-.000395	-.004548	-.000009	.0005999	-.143412	.0005608	-.002507
#2	-.000244	-.006419	.000106	.0005729	-.141327	-.000118	-.002395
#3	-.000620	-.000891	-.000050	.0006527	-.140638	.000596	-.002685

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1873485	-.002583	-.000233	-.000170	-.000165	-.014872	-.001612
Stddev	.0073124	.001043	.000113	.000182	.000327	.007833	.002562
%RSD	3.903101	40.38498	48.41566	106.9106	197.9080	52.67021	158.9739
#1	.1865485	-.001649	-.000357	-.000198	-.000320	-.011247	.001346
#2	.1804690	-.002391	-.000136	-.000337	-.000386	-.009507	-.003038
#3	.1950280	-.003708	-.000206	.000024	.000210	-.023860	-.003143

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166298BL Acquired: 1/29/2025 13:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000103	-.006787	-.000213
Stddev	.001845	.000254	.000014
%RSD	1785.811	3.743067	6.611122
#1	.001932	-.006711	-.000213
#2	-.000576	-.006580	-.000199
#3	-.001666	-.007071	-.000227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.573	53493.39	9567.190	1817.764	3985.133
Stddev	41.234	523.46	47.459	19.044	69.038
%RSD	1.585582	.9785498	.4960614	1.047684	1.732397
#1	2611.391	52955.56	9521.763	1797.597	4003.741
#2	2635.320	54001.19	9563.357	1835.442	4042.961
#3	2555.009	53523.41	9616.449	1820.252	3908.699

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV02 Acquired: 1/29/2025 13:12:06 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.908487	4.908968	4.879247	4.897363	4.909444	9.952623	9.283814
Stddev	.014733	.019557	.011796	.013034	.015715	.020770	.083258
%RSD	.3001440	.3983894	.2417528	.2661505	.3200998	.2086880	.8968067
#1	4.905063	4.886968	4.871107	4.902978	4.898260	9.966505	9.328166
#2	4.895768	4.915557	4.873860	4.882463	4.902659	9.962618	9.335506
#3	4.924630	4.924380	4.892775	4.906650	4.927411	9.928745	9.187769

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2414249	2.435189	23.82695	1.024372	2.428461	1.236811	4.812509
Stddev	.0021449	.005567	.18071	.000995	.004069	.001989	.009634
%RSD	.8884457	.2286089	.7584266	.0971004	.1675396	.1607854	.2001920
#1	.2414674	2.430732	23.84782	1.025520	2.426194	1.235715	4.822712
#2	.2435483	2.433405	23.99633	1.023763	2.426030	1.235612	4.803568
#3	.2392591	2.441429	23.63672	1.023834	2.433158	1.239107	4.811246

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.304176	24.40462	2.432497	1.234467	23.55734	2.417437	2.498543
Stddev	.017091	.15182	.005440	.001687	.12988	.010618	.004258
%RSD	.7417248	.6220748	.2236270	.1366886	.5513416	.4392331	.1704168
#1	2.308903	24.45057	2.427629	1.235295	23.62261	2.419187	2.502057
#2	2.318406	24.52815	2.431492	1.235580	23.40777	2.427072	2.499763
#3	2.285220	24.23514	2.438369	1.232525	23.64164	2.406053	2.493808

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.43055	4.714761	5.015703	4.896202	4.748209	5.105946	4.889181
Stddev	.21245	.049402	.010756	.011190	.020153	.039023	.020881
%RSD	.8696243	1.047816	.2144515	.2285413	.4244330	.7642731	.4270845
#1	24.52230	4.708966	5.008549	4.885814	4.760400	5.138341	4.865425
#2	24.18764	4.766805	5.010488	4.894743	4.759279	5.062624	4.897483
#3	24.58171	4.668512	5.028073	4.908050	4.724947	5.116873	4.904633

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV02 Acquired: 1/29/2025 13:12:06 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.736714	4.670795	4.723390
Stddev	.021440	.014751	.076701
%RSD	.4526437	.3158139	1.623849
#1	4.715475	4.674747	4.768127
#2	4.736316	4.683167	4.767218
#3	4.758351	4.654470	4.634825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.199	51044.92	9509.486	1708.311	3683.537
Stddev	3.814	125.59	95.769	4.665	4.636
%RSD	.1515760	.2460416	1.007085	.2730680	.1258500
#1	2517.707	50902.19	9499.450	1703.012	3686.609
#2	2519.028	51138.52	9419.131	1710.124	3685.798
#3	2511.861	51094.06	9609.878	1711.797	3678.205

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB02 Acquired: 1/29/2025 13:16:17 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0015921	-.001956	-.000131	-.000542	-.000916	.0030004	-.002242
Stddev	.0010940	.001196	.000600	.000600	.000753	.0021249	.000682
%RSD	68.71516	61.13495	458.5943	110.7937	82.16719	70.82295	30.41121
#1	.0012730	-.000717	.000164	-.000395	-.001678	.0054538	-.002664
#2	.0028102	-.003103	.000265	-.001202	-.000897	.0017441	-.001456
#3	.0006932	-.002048	-.000821	-.000028	-.000173	.0018032	-.002607

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001255	-.000043	-.018547	.0002038	-.000229	-.000077	-.005978
Stddev	.0000225	.000051	.006911	.0001755	.000118	.000158	.005225
%RSD	17.97410	118.2385	37.26223	86.10859	51.40362	204.3468	87.40371
#1	.0001488	-.000100	-.018049	.0002162	-.000287	.000018	-.008924
#2	.0001038	-.000003	-.025694	.0000225	-.000307	-.000259	.000055
#3	.0001239	-.000026	-.011899	.0003728	-.000094	.000010	-.009065

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000193	-.017777	.0002344	.0006809	-.127216	-.000401	-.002717
Stddev	.000137	.017979	.0001640	.0001418	.007233	.002128	.000260
%RSD	71.27435	101.1366	69.97702	20.82277	5.685779	530.8398	9.565177
#1	-.000175	.001144	.0004007	.0008368	-.135121	.002052	-.002843
#2	-.000338	-.019838	.0000727	.0006464	-.120928	-.001499	-.002418
#3	-.000065	-.034636	.0002297	.0005596	-.125599	-.001755	-.002890

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0789310	.0080555	-.000264	-.000088	.0004939	-.009034	-.002992
Stddev	.0238008	.0003498	.000250	.000465	.0001940	.003469	.002686
%RSD	30.15398	4.341729	94.46374	528.6734	39.26667	38.39672	89.75476
#1	.0781836	.0081339	-.000331	-.000559	.0005228	-.012884	-.001183
#2	.1030967	.0083595	.000012	-.000077	.0002872	-.008069	-.001715
#3	.0555126	.0076733	-.000474	.000372	.0006718	-.006150	-.006079

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB02 Acquired: 1/29/2025 13:16:17 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002869	-.004437	-.000105
Stddev	.002413	.000898	.000044
%RSD	84.08351	20.24106	41.61918
#1	-.002379	-.004962	-.000100
#2	-.000740	-.003400	-.000151
#3	-.005490	-.004949	-.000064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.519	53213.65	9963.599	1788.026	3980.941
Stddev	4.704	224.08	29.229	9.438	7.136
%RSD	.1821449	.4211011	.2933593	.5278670	.1792471
#1	2586.954	53138.48	9981.349	1785.065	3988.457
#2	2583.017	53465.65	9979.584	1798.589	3980.106
#3	2577.586	53036.82	9929.863	1780.423	3974.259

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166298BS Acquired: 1/29/2025 13:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7748793	1.961463	.9342253	1.886503	.7405294	1.857109
Stddev	.0011105	.012202	.0022991	.004091	.0001856	.009179
%RSD	.1433150	.6221054	.2460979	.2168741	.0250688	.4942806
#1	.7741505	1.948032	.9319315	1.881892	.7403777	1.846520
#2	.7743299	1.964489	.9342148	1.889699	.7404742	1.862802
#3	.7761574	1.971867	.9365297	1.887919	.7407364	1.862005

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1723673	.1882869	.1862195	.9173687	.3934287	.1855474
Stddev	.0007283	.0006354	.0004153	.0071014	.0008241	.0002257
%RSD	.4225477	.3374878	.2230123	.7741019	.2094557	.1216115
#1	.1722324	.1887685	.1857551	.9103443	.3928627	.1853686
#2	.1731537	.1885255	.1865552	.9245446	.3930492	.1854727
#3	.1717159	.1875667	.1863483	.9172173	.3943741	.1858010

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2946702	2.772422	.1797810	1.838105	.4676599	.0719195
Stddev	.0003613	.022079	.0012919	.017451	.0003640	.0004556
%RSD	.1226282	.7963670	.7185782	.9493924	.0778439	.6335537
#1	.2946947	2.764833	.1797737	1.840830	.4672526	.0713935
#2	.2950186	2.797294	.1810764	1.854033	.4677734	.0721732
#3	.2942971	2.755139	.1784927	1.819452	.4679536	.0721919

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.472024	.2751175	.1942825	9.090128	.2665067	.3853513
Stddev	.033525	.0026849	.0006037	.030273	.0015747	.0005722
%RSD	1.356177	.9759184	.3107314	.3330367	.5908558	.1484786
#1	2.473671	.2742342	.1936110	9.066463	.2682061	.3848466
#2	2.504695	.2781328	.1944565	9.124242	.2650970	.3852344
#3	2.437705	.2729856	.1947802	9.079679	.2662171	.3859729

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166298BS Acquired: 1/29/2025 13:20:37 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6514879	.1791318	F .6628286	5.513326	F -.012749	.1783771
Stddev	.0030614	.0010819	.0052868	.021986	.001782	.0008921
%RSD	.4699135	.6039580	.7976085	.3987763	13.97937	.5000935
#1	.6479918	.1793308	.6573206	5.488177	-.012792	.1776697
#2	.6536889	.1801004	.6633029	5.522902	-.014509	.1793792
#3	.6527831	.1779643	.6678622	5.528901	-.010945	.1780824

Elem	Sr4077
Units	ppm
Avg	.1749564
Stddev	.0011446
%RSD	.6542207
#1	.1750693
#2	.1760403
#3	.1737595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.410	53204.76	9759.177	1814.509	3928.183
Stddev	5.733	149.32	20.668	7.206	7.822
%RSD	.2207869	.2806480	.2117757	.3971286	.1991169
#1	2592.266	53364.78	9750.190	1821.772	3927.350
#2	2602.952	53069.15	9744.525	1807.361	3936.387
#3	2594.012	53180.35	9782.817	1814.394	3920.811

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1205-01 Acquired: 1/29/2025 13:24:39 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369891	-.003341	.6734229	-.003871	-.000028	40.30252	.7970965
Stddev	.0022115	.001142	.0015559	.001362	.000903	.19168	.0051771
%RSD	5.978718	34.19677	.2310501	35.18558	3206.195	.4756099	.6494921
#1	.0345698	-.002041	.6720993	-.003233	.000314	40.26993	.7964419
#2	.0389064	-.003792	.6751369	-.005434	-.001053	40.50841	.8025697
#3	.0374911	-.004188	.6730325	-.002945	.000654	40.12922	.7922778

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089564	.0071252	36.66882	.1090163	.1090467	.4230502	89.25687
Stddev	.0000220	.0001159	.19812	.0005956	.0003792	.0006321	.29152
%RSD	.2455128	1.625946	.5402848	.5463232	.3477837	.1494139	.3266050
#1	.0089418	.0071525	36.68390	.1085568	.1088732	.4223203	88.92142
#2	.0089816	.0069982	36.85896	.1088030	.1087851	.4234097	89.40034
#3	.0089456	.0072250	36.46359	.1096892	.1094816	.4234206	89.44884

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.320966	24.25352	.1171698	.0000855	3.730649	.1796297	.7473128
Stddev	.015532	.14442	.0003162	.0002621	.018184	.0023675	.0027609
%RSD	.4677088	.5954703	.2698205	306.5424	.4874131	1.318007	.3694378
#1	3.322254	24.31956	.1168885	.0001479	3.713237	.1794314	.7467954
#2	3.335815	24.35311	.1171090	.0003107	3.749517	.1820902	.7448472
#3	3.304830	24.08788	.1175120	-.000202	3.729193	.1773676	.7502957

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.598360	-.101503	.0024362	.0057447	1.316882	2.112063	7.163318
Stddev	.010341	.000404	.0001589	.0003419	.009304	.004289	.006441
%RSD	.2873870	.3983473	6.524467	5.951418	.7065188	.2030859	.0899231
#1	3.593461	-.101036	.0022569	.0061333	1.315345	2.108690	7.158580
#2	3.610240	-.101750	.0024918	.0056108	1.326859	2.116890	7.160721
#3	3.591379	-.101723	.0025598	.0054901	1.308442	2.110608	7.170652

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1205-01 Acquired: 1/29/2025 13:24:39 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7474987	.0273733	.1229360
Stddev	.0045383	.0003984	.0010854
%RSD	.6071374	1.455417	.8828646
#1	.7424760	.0270259	.1229625
#2	.7487156	.0278082	.1240079
#3	.7513045	.0272859	.1218377

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2827.420	58194.43	11114.87	1966.420	3671.778
Stddev	1.627	76.43	75.86	5.320	2.835
%RSD	.0575424	.1313272	.6825208	.2705344	.0772208
#1	2829.110	58138.44	11056.06	1960.286	3674.943
#2	2825.865	58281.50	11088.05	1969.773	3669.471
#3	2827.284	58163.36	11200.50	1969.201	3670.919

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-01 Acquired: 1/29/2025 13:28:44 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624064	-.003566	8.423784	-.000033	.0303068	30.11700	1.106449
Stddev	.0020129	.001883	.041468	.000758	.0022226	.03857	.002941
%RSD	3.225418	52.80987	.4922742	2301.948	7.333598	.1280525	.2658169
#1	.0600979	-.005712	8.469686	.000415	.0284303	30.16135	1.109810
#2	.0637947	-.002187	8.389028	-.000909	.0297289	30.09134	1.105191
#3	.0633267	-.002800	8.412639	.000395	.0327613	30.09832	1.104347

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061029	.0091068	18.34446	.0656296	.0170034	.5373225	60.52062
Stddev	.0000426	.0002440	.04856	.0002311	.0002783	.0014957	.24933
%RSD	.6986652	2.679357	.2646951	.3520941	1.636623	.2783597	.4119730
#1	.0061161	.0093794	18.38149	.0658430	.0169015	.5389459	60.72643
#2	.0060552	.0089088	18.28948	.0656617	.0167904	.5370209	60.59206
#3	.0061374	.0090322	18.36241	.0653842	.0173183	.5360005	60.24337

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.137547	3.708063	.0297048	.0024466	4.865914	.1398342	1.159992
Stddev	.005468	.041741	.0002466	.0002844	.030552	.0009331	.007220
%RSD	.4806636	1.125675	.8302211	11.62458	.6278684	.6672655	.6224409
#1	1.141056	3.696103	.0299444	.0026659	4.895749	.1409084	1.166062
#2	1.131247	3.673607	.0294517	.0025486	4.867299	.1393700	1.161907
#3	1.140338	3.754478	.0297184	.0021252	4.834693	.1392243	1.152007

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.358121	-.075918	.0034530	1.878163	1.040475	2.191161	4.074847
Stddev	.014599	.000601	.0003722	.012319	.002737	.015608	.008085
%RSD	1.074939	.7914905	10.77830	.6559190	.2630275	.7123203	.1984124
#1	1.358582	-.075561	.0038399	1.892076	1.043619	2.194254	4.084182
#2	1.343297	-.076612	.0030976	1.868639	1.039182	2.204992	4.070058
#3	1.372484	-.075582	.0034214	1.873774	1.038625	2.174239	4.070302

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-01 Acquired: 1/29/2025 13:28:44 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.179714	.0018458	.0675274
Stddev	.005695	.0004029	.0002504
%RSD	.4827167	21.82612	.3708092
#1	1.184396	.0015386	.0676704
#2	1.173374	.0023019	.0672382
#3	1.181371	.0016968	.0676734

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.208	58070.09	11144.18	1940.973	3888.850
Stddev	12.664	148.40	28.95	11.055	20.239
%RSD	.4396904	.2555472	.2597500	.5695623	.5204469
#1	2865.723	58022.28	11151.14	1929.974	3865.706
#2	2885.718	57951.48	11169.02	1940.861	3903.232
#3	2889.184	58236.49	11112.40	1952.083	3897.611

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05 Acquired: 1/29/2025 13:32:54 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515147	-.010641	.1444845	-.004927	-.002280	44.23053	1.511043
Stddev	.0014875	.002818	.0005555	.002394	.001203	.09003	.004551
%RSD	2.887602	26.48432	.3844947	48.59654	52.75719	.2035396	.3011650
#1	.0501108	-.011687	.1440859	-.004194	-.001082	44.18555	1.505827
#2	.0530738	-.007450	.1442486	-.007602	-.002270	44.17187	1.514204
#3	.0513595	-.012788	.1451191	-.002984	-.003488	44.33419	1.513098

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082156	.0021856	42.51550	.0955161	.0472443	.1569700	72.73748
Stddev	.0000466	.0001233	.18183	.0008808	.0002670	.0002903	.60310
%RSD	.5668967	5.642813	.4276696	.9220926	.5651040	.1849588	.8291421
#1	.0082471	.0020520	42.37340	.0956707	.0473960	.1573053	72.41144
#2	.0081621	.0022951	42.45269	.0945683	.0469360	.1568056	72.36759
#3	.0082376	.0022098	42.72040	.0963094	.0474007	.1567993	73.43342

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4145386	15.95710	.0991248	-.000110	3.317437	.2682094	.2951684
Stddev	.0017100	.06253	.0001893	.000214	.021493	.0023273	.0008511
%RSD	.4125145	.3918905	.1909860	195.2429	.6478674	.8677059	.2883612
#1	.4130016	15.92483	.0990079	.000086	3.317126	.2657031	.2942353
#2	.4142336	15.91730	.0990232	-.000077	3.296101	.2686228	.2953676
#3	.4163806	16.02918	.0993432	-.000338	3.339083	.2703023	.2959023

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.661980	-.091828	.0013835	-.008307	2.193809	3.535476	7.225192
Stddev	.023482	.000918	.0003152	.001397	.002955	.015878	.033332
%RSD	1.412919	.9998149	22.78075	16.81597	.1347104	.4491130	.4613369
#1	1.640355	-.091310	.0015477	-.007195	2.192531	3.528095	7.192178
#2	1.658626	-.092888	.0010201	-.009875	2.191708	3.524632	7.224564
#3	1.686959	-.091285	.0015827	-.007852	2.197188	3.553701	7.258834

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05 Acquired: 1/29/2025 13:32:54 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5801685	.0324336	.0776335
Stddev	.0010232	.0009504	.0005647
%RSD	.1763625	2.930182	.7274258
#1	.5793071	.0314062	.0772372
#2	.5812995	.0332812	.0782801
#3	.5798990	.0326133	.0773833

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2929.942	60344.34	11735.42	2029.929	3602.880
Stddev	2.372	467.25	51.61	13.998	6.447
%RSD	.0809443	.7743022	.4397755	.6895682	.1789536
#1	2932.678	60456.54	11754.08	2040.287	3610.300
#2	2928.471	60745.27	11775.11	2035.495	3599.698
#3	2928.677	59831.21	11677.08	2014.004	3598.642

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05DUP Acquired: 1/29/2025 13:37:03 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512091	-.009928	.1444276	-.001383	-.002724	44.01235	1.510149
Stddev	.0019994	.001198	.0016149	.001725	.000674	.15214	.008728
%RSD	3.904276	12.06842	1.118126	124.7677	24.75924	.3456815	.5779543
#1	.0496605	-.010205	.1439378	-.000543	-.002267	44.13665	1.519243
#2	.0534662	-.008615	.1462307	-.000238	-.003499	44.05771	1.509364
#3	.0505006	-.010963	.1431144	-.003367	-.002407	43.84268	1.501840

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081429	.0022013	42.30948	.0932198	.0466514	.1543643	71.41306
Stddev	.0000755	.0001688	.05789	.0002984	.0003789	.0005909	.41756
%RSD	.9268716	7.666106	.1368210	.3200814	.8122103	.3827979	.5847082
#1	.0082022	.0021374	42.32219	.0935575	.0463458	.1537359	71.65202
#2	.0081684	.0023926	42.35996	.0929916	.0465330	.1549088	70.93091
#3	.0080579	.0020737	42.24629	.0931104	.0470753	.1544481	71.65624

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4152628	15.92643	.0978007	-.000226	3.244102	.2672385	.2890624
Stddev	.0008652	.04544	.0009195	.000493	.029691	.0012471	.0006124
%RSD	.2083475	.2853098	.9401677	217.9477	.9152301	.4666692	.2118593
#1	.4153225	15.87414	.0967475	-.000025	3.273517	.2686010	.2897663
#2	.4160966	15.95633	.0984438	-.000788	3.214143	.2661534	.2887697
#3	.4143693	15.94882	.0982108	.000134	3.244646	.2669611	.2886513

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.704234	-.091977	.0013474	-.008142	2.189719	3.551705	7.002030
Stddev	.023378	.001067	.0000714	.000283	.009855	.005958	.037052
%RSD	1.371733	1.160448	5.301463	3.481281	.4500749	.1677362	.5291551
#1	1.682349	-.091476	.0013562	-.007968	2.197306	3.548280	6.963590
#2	1.701490	-.093202	.0012720	-.007989	2.193270	3.548252	7.004983
#3	1.728862	-.091251	.0014140	-.008469	2.178580	3.558584	7.037516

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05DUP Acquired: 1/29/2025 13:37:03 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5661916	.0324175	.0787280
Stddev	.0027078	.0003826	.0007812
%RSD	.4782528	1.180273	.9923286
#1	.5662389	.0328401	.0792587
#2	.5688754	.0323180	.0790944
#3	.5634604	.0320945	.0778309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.699	61781.60	11797.09	2078.494	3676.513
Stddev	8.417	70.74	61.39	5.198	15.106
%RSD	.2826807	.1145018	.5203835	.2501019	.4108737
#1	2987.401	61778.64	11818.51	2072.493	3693.953
#2	2972.350	61853.77	11727.86	2081.618	3668.069
#3	2973.344	61712.38	11844.90	2081.371	3667.517

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05LX5 Acquired: 1/29/2025 13:41:12 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104192	-.003910	.0295105	.0015959	-.002846	10.46368	.3512580
Stddev	.0010170	.000174	.0012500	.0027582	.000731	.01775	.0030009
%RSD	9.760550	4.439005	4.235626	172.8256	25.66739	.1695887	.8543275
#1	.0108468	-.003755	.0301248	.0034860	-.002385	10.48389	.3532403
#2	.0092583	-.003878	.0303344	-.001569	-.002465	10.45066	.3527281
#3	.0111526	-.004097	.0280723	.002871	-.003689	10.45649	.3478055

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020172	-.000015	9.907849	.0223304	.0092586	.0364359	16.87167
Stddev	.0000693	.000050	.040544	.0003786	.0000401	.0003854	.10531
%RSD	3.437282	335.2635	.4092064	1.695492	.4332186	1.057740	.6241887
#1	.0019374	-.000017	9.941905	.0221446	.0092793	.0362850	16.92784
#2	.0020522	-.000064	9.863002	.0227660	.0092124	.0368739	16.93699
#3	.0020621	.000036	9.918641	.0220806	.0092842	.0361488	16.75018

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1000130	3.867250	.0198716	.0002066	.6413595	.0625779	.0671006
Stddev	.0002301	.011637	.0003959	.0005733	.0083991	.0005657	.0005450
%RSD	.2301001	.3009008	1.992437	277.5398	1.309583	.9040749	.8122171
#1	.1002698	3.863259	.0201510	-.000348	.6333638	.0620723	.0664752
#2	.0999439	3.858134	.0200452	.000797	.6501109	.0631889	.0674742
#3	.0998253	3.880357	.0194185	.000171	.6406038	.0624724	.0673524

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5668286	-.025046	.0001549	-.002600	.5134814	.9708354	1.420314
Stddev	.0437384	.000615	.0002128	.000532	.0013899	.0082947	.003056
%RSD	7.716336	2.455607	137.4020	20.47436	.2706826	.8543870	.2151684
#1	.5191317	-.024645	.0003720	-.001991	.5142567	.9619106	1.416928
#2	.5762964	-.024738	.0001458	-.002830	.5143108	.9783082	1.422868
#3	.6050577	-.025754	-.000053	-.002978	.5118768	.9722875	1.421145

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05LX5 Acquired: 1/29/2025 13:41:12 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1147735	.0028315	.0180592
Stddev	.0010348	.0006726	.0002307
%RSD	.9016354	23.75547	1.277707
#1	.1139365	.0032916	.0183220
#2	.1159306	.0020595	.0178896
#3	.1144535	.0031434	.0179660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2699.866	54561.78	10205.51	1866.309	3908.759
Stddev	4.879	68.92	31.98	5.827	6.994
%RSD	.1807088	.1263235	.3133271	.3122318	.1789244
#1	2699.086	54560.22	10186.69	1867.087	3905.025
#2	2705.088	54493.65	10242.43	1860.133	3916.827
#3	2695.424	54631.48	10187.41	1871.709	3904.424

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05MS Acquired: 1/29/2025 13:45:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6571363	1.870262	1.069355	1.220894	.4429595	50.03891
Stddev	.0019991	.017047	.008972	.009048	.0033066	.04945
%RSD	.3042079	.9114651	.8389856	.7411123	.7464713	.0988269
#1	.6594337	1.886067	1.078152	1.229108	.4449282	49.98404
#2	.6561812	1.872519	1.069693	1.222379	.4448082	50.05264
#3	.6557939	1.852199	1.060218	1.211195	.4391420	50.08004

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.808112	.1600300	.1889198	42.45120	.4335480	.2688479
Stddev	.008006	.0010457	.0016479	.11344	.0019256	.0025357
%RSD	.4427731	.6534144	.8722558	.2672198	.4441387	.9431627
#1	1.817351	.1601075	.1903442	42.36226	.4356786	.2709254
#2	1.803229	.1589478	.1893002	42.41239	.4330335	.2695960
#3	1.803755	.1610348	.1871150	42.57895	.4319320	.2660223

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3894852	72.49051	.8503539	19.32688	.5821803	.0595864
Stddev	.0027838	.51807	.0001002	.13850	.0055587	.0003874
%RSD	.7147392	.7146774	.0117874	.7166347	.9548020	.6501060
#1	.3911760	72.69847	.8504677	19.17488	.5867483	.0596336
#2	.3910074	72.87230	.8503155	19.35982	.5838012	.0599481
#3	.3862722	71.90077	.8502786	19.44595	.5759913	.0591777

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.266040	.4725308	.4664398	9.666495	.0626582	.3302400
Stddev	.055464	.0020749	.0007444	.087256	.0019936	.0029924
%RSD	1.053244	.4391049	.1595948	.9026668	3.181669	.9061230
#1	5.327715	.4749256	.4671782	9.721192	.0617506	.3326241
#2	5.250150	.4712715	.4656895	9.712427	.0649441	.3312139
#3	5.220255	.4713951	.4664517	9.565868	.0612800	.3268820

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05MS Acquired: 1/29/2025 13:45:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6496539	2.650334	5.299513	F 12.60861	.5191257	.1899887
Stddev	.0059954	.005416	.094788	.09045	.0070420	.0009134
%RSD	.9228599	.2043648	1.788609	.7173999	1.356508	.4807670
#1	.6551696	2.651337	5.370399	12.69591	.5262249	.1907832
#2	.6505192	2.644487	5.336292	12.61463	.5190098	.1889907
#3	.6432729	2.655179	5.191847	12.51530	.5121424	.1901923

Elem	Sr4077
Units	ppm
Avg	.2280484
Stddev	.0006510
%RSD	.2854775
#1	.2284607
#2	.2272978
#3	.2283866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2939.596	60703.96	11475.17	2067.316	3609.597
Stddev	20.730	306.41	53.95	3.226	32.390
%RSD	.7052060	.5047583	.4701532	.1560346	.8973196
#1	2924.557	60475.22	11500.55	2065.440	3581.890
#2	2930.989	60584.58	11511.76	2065.468	3601.694
#3	2963.244	61052.09	11413.21	2071.041	3645.207

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05MSD Acquired: 1/29/2025 13:49:28 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6585300	1.844632	1.063470	1.223200	.4411612	51.13126
Stddev	.0085838	.042373	.024213	.020644	.0095437	.97373
%RSD	1.303483	2.297107	2.276813	1.687724	2.163323	1.904366
#1	.6529385	1.810414	1.043808	1.205018	.4336359	50.60780
#2	.6684133	1.892028	1.090515	1.245642	.4518960	50.53123
#3	.6542383	1.831453	1.056085	1.218942	.4379518	52.25476

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.859593	.1612274	.1879721	43.12883	.4337271	.2672859
Stddev	.028362	.0026812	.0047168	.81273	.0020898	.0063443
%RSD	1.525181	1.663011	2.509302	1.884418	.4818177	2.373615
#1	1.846425	.1595203	.1845664	42.76020	.4354191	.2626756
#2	1.840209	.1598442	.1933558	42.56574	.4313911	.2745215
#3	1.892146	.1643178	.1859940	44.06055	.4343711	.2646605

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3877098	73.61961	.8699142	19.76957	.5788413	.0599499
Stddev	.0077063	.54730	.0161000	.44650	.0127251	.0003985
%RSD	1.987644	.7434224	1.850753	2.258532	2.198379	.6647035
#1	.3814608	74.01165	.8634080	19.56915	.5686927	.0598149
#2	.3963206	72.99432	.8580856	19.45839	.5931180	.0596365
#3	.3853480	73.85285	.8882492	20.28116	.5747132	.0603984

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.402983	.4820500	.4672638	9.825489	.0660413	.3291654
Stddev	.031028	.0096460	.0014659	.072261	.0012882	.0059268
%RSD	.5742697	2.001029	.3137235	.7354431	1.950648	1.800541
#1	5.435030	.4784757	.4662536	9.901322	.0645992	.3239924
#2	5.373087	.4747014	.4665927	9.757429	.0664463	.3356322
#3	5.400833	.4929730	.4689451	9.817714	.0670784	.3278716

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05MSD Acquired: 1/29/2025 13:49:28 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6456600	2.705073	5.465118	F 12.51055	.5155572	.1958522
Stddev	.0163177	.043480	.129123	.28416	.0124423	.0045028
%RSD	2.527293	1.607368	2.362682	2.271391	2.413365	2.299102
#1	.6319083	2.688990	5.479200	12.28478	.5070555	.1934465
#2	.6636910	2.671925	5.329531	12.82964	.5298381	.1930632
#3	.6413809	2.754304	5.586623	12.41723	.5097781	.2010470

Elem	Sr4077
Units	ppm
Avg	.2317892
Stddev	.0045955
%RSD	1.982633
#1	.2295259
#2	.2287644
#3	.2370774

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2953.279	60727.60	11403.68	2064.781	3632.340
Stddev	49.236	300.21	165.96	3.722	74.293
%RSD	1.667164	.4943600	1.455349	.1802834	2.045319
#1	2991.358	60400.29	11484.71	2061.625	3686.145
#2	2897.679	60990.14	11513.56	2068.886	3547.574
#3	2970.799	60792.37	11212.76	2063.832	3663.302

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05A Acquired: 1/29/2025 13:53:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6592358	1.837768	1.067987	1.227936	.4370508	54.00662
Stddev	.0062513	.013189	.003782	.006923	.0030481	.18530
%RSD	.9482652	.7176836	.3541551	.5637958	.6974303	.3431009
#1	.6627426	1.839503	1.069420	1.233707	.4356429	54.14786
#2	.6520184	1.823797	1.063698	1.220260	.4349612	54.07519
#3	.6629465	1.850004	1.070844	1.229842	.4405484	53.79681

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.995994	.1590426	.1890559	42.59349	.4375323	.2709482
Stddev	.011007	.0006088	.0018227	.18830	.0132809	.0021462
%RSD	.5514608	.3827626	.9641160	.4420974	3.035416	.7921117
#1	2.006165	.1590215	.1894537	42.68403	.4376595	.2720658
#2	1.997510	.1596617	.1870672	42.71943	.4507491	.2684738
#3	1.984308	.1584447	.1906469	42.37702	.4241882	.2723049

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3938257	76.85495	.8785121	20.92007	.5902720	.0592299
Stddev	.0024643	2.50572	.0050970	.08647	.0040386	.0017155
%RSD	.6257261	3.260330	.5801878	.4133245	.6841962	2.896274
#1	.3948217	77.23415	.8822853	20.91293	.5915915	.0595781
#2	.3910193	79.14945	.8805373	21.00988	.5857387	.0607445
#3	.3956360	74.18123	.8727138	20.83739	.5934858	.0573671

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.222326	.4822873	.4783397	9.903122	.0602591	.3298318
Stddev	.151025	.0010067	.0118854	.320249	.0044819	.0021407
%RSD	2.891917	.2087414	2.484720	3.233821	7.437774	.6490191
#1	5.272656	.4832956	.4799923	9.980705	.0626824	.3315166
#2	5.341760	.4822844	.4893123	10.17745	.0630076	.3274230
#3	5.052562	.4812821	.4657144	9.55121	.0550872	.3305557

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: Q1209-05A Acquired: 1/29/2025 13:53:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6467387	2.797970	6.605894	F 12.52113	.5645718	.1971987
Stddev	.0037975	.013222	.188014	.09708	.0059079	.0009166
%RSD	.5871746	.4725559	2.846154	.7753081	1.046440	.4647950
#1	.6504563	2.810274	6.677205	12.53225	.5659288	.1981635
#2	.6428661	2.799646	6.747820	12.41898	.5581035	.1963395
#3	.6468938	2.783990	6.392657	12.61218	.5696832	.1970930

Elem	Sr4077
Units	ppm
Avg	.2272110
Stddev	.0020579
%RSD	.9057184
#1	.2284338
#2	.2248351
#3	.2283640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.941	61421.00	11546.83	2073.828	3625.754
Stddev	17.939	1658.51	15.73	44.632	23.872
%RSD	.6081015	2.700241	.1362375	2.152163	.6583879
#1	2937.614	61429.33	11564.40	2072.103	3609.976
#2	2970.521	59758.34	11542.07	2030.083	3653.217
#3	2941.688	63075.33	11534.04	2119.297	3614.068

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166322BL Acquired: 1/29/2025 13:57:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032152	-.001568	-.001260	-.000713	-.000992	-.000689	-.000701
Stddev	.0013533	.001389	.000213	.000902	.001370	.004148	.000836
%RSD	42.08837	88.55685	16.93776	126.4562	138.1557	602.0281	119.2904
#1	.0021594	-.000302	-.001230	-.001742	-.002408	.003255	.000069
#2	.0027457	-.003053	-.001487	-.000339	.000327	-.000308	-.000581
#3	.0047407	-.001349	-.001063	-.000058	-.000895	-.005014	-.001591

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001456	.0000434	-.018037	.0000222	-.000146	-.000287	-.001846
Stddev	.0000452	.0000314	.009931	.0002226	.000288	.000524	.004293
%RSD	31.06478	72.34277	55.05955	1003.103	197.9611	182.1952	232.5146
#1	.0001136	.0000768	-.023693	-.000197	-.000259	-.000692	-.002535
#2	.0001973	.0000145	-.023849	.000248	-.000360	-.000475	.002749
#3	.0001257	.0000389	-.006570	.000016	.000182	.000304	-.005752

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000042	-.002196	-.000049	.0001455	-.147765	-.000499	-.002689
Stddev	.000339	.007762	.000370	.0002350	.007498	.000686	.000343
%RSD	810.2878	353.3952	762.0752	161.4910	5.074052	137.5665	12.74199
#1	.000032	.003157	.000349	-.000070	-.155159	-.000877	-.002871
#2	-.000412	.001352	-.000112	.000396	-.140168	-.000912	-.002294
#3	.000255	-.011098	-.000383	.000111	-.147966	.000293	-.002902

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0625730	-.001710	-.000336	.0001789	.0004373	-.007525	-.000537
Stddev	.0212683	.000670	.000223	.0003574	.0003738	.004376	.002242
%RSD	33.98963	39.16551	66.32337	199.7615	85.48497	58.14987	417.2530
#1	.0535309	-.001134	-.000574	.0005358	.0004064	-.007306	.001903
#2	.0473198	-.002444	-.000131	.0001801	.0000799	-.012006	-.001009
#3	.0868684	-.001551	-.000304	-.000179	.0008256	-.003263	-.002506

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166322BL Acquired: 1/29/2025 13:57:29 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004433	-.006575	-.000170
Stddev	.000613	.000202	.000032
%RSD	13.83622	3.070175	19.06220
#1	-.004314	-.006807	-.000206
#2	-.003888	-.006448	-.000143
#3	-.005097	-.006468	-.000161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.944	53642.97	10069.68	1831.475	4048.318
Stddev	4.251	152.54	77.70	8.259	5.835
%RSD	.1613762	.2843568	.7716217	.4509572	.1441267
#1	2632.302	53764.73	10039.76	1840.627	4041.819
#2	2638.771	53471.87	10011.39	1824.576	4053.105
#3	2630.760	53692.31	10157.89	1829.223	4050.030

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV03 Acquired: 1/29/2025 14:01:50 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.848464	4.997430	4.810434	4.848711	4.815523	9.758629	9.075606
Stddev	.028787	.021013	.005203	.029825	.021889	.033756	.135900
%RSD	.5937362	.4204710	.1081676	.6151022	.4545533	.3459110	1.497421
#1	4.865375	5.021662	4.813955	4.875888	4.833731	9.733764	9.229950
#2	4.815225	4.986386	4.804457	4.816804	4.791237	9.797057	9.022974
#3	4.864791	4.984242	4.812889	4.853440	4.821599	9.745066	8.973893

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2378238	2.403965	23.53815	1.009149	2.388395	1.212905	4.810153
Stddev	.0012228	.003844	.00627	.003278	.005425	.004445	.020267
%RSD	.5141706	.1599136	.0266186	.3248107	.2271239	.3664746	.4213414
#1	.2365934	2.401516	23.53092	1.005650	2.386645	1.215658	4.817043
#2	.2378391	2.401983	23.54160	1.009649	2.384061	1.207777	4.826077
#3	.2390389	2.408396	23.54193	1.012148	2.394478	1.215279	4.787339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.284512	24.07830	2.395435	1.216149	23.57610	2.382438	2.464965
Stddev	.001510	.03190	.003340	.003857	.04703	.006641	.006554
%RSD	.0660954	.1324747	.1394303	.3171349	.1994925	.2787466	.2658763
#1	2.283537	24.04318	2.395410	1.214060	23.59351	2.383348	2.459022
#2	2.286252	24.08625	2.392108	1.220600	23.61195	2.388577	2.471994
#3	2.283749	24.10547	2.398788	1.213787	23.52284	2.375389	2.463879

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.24396	4.610739	4.921519	4.846854	4.677570	5.052561	4.782395
Stddev	.17405	.020803	.016229	.010174	.009019	.028549	.017139
%RSD	.7179141	.4511811	.3297617	.2099035	.1928159	.5650415	.3583836
#1	24.39544	4.586871	4.926384	4.849533	4.671429	5.061253	4.778047
#2	24.28260	4.625019	4.903414	4.835609	4.687925	5.075754	4.767848
#3	24.05383	4.620327	4.934760	4.855420	4.673355	5.020676	4.801289

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV03 Acquired: 1/29/2025 14:01:50 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.704978	4.597275	4.656051
Stddev	.018610	.010250	.065515
%RSD	.3955383	.2229534	1.407086
#1	4.718902	4.593431	4.604238
#2	4.683841	4.608891	4.729694
#3	4.712191	4.589503	4.634221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2544.605	51509.24	9674.742	1734.386	3705.196
Stddev	6.840	32.84	16.867	4.774	1.567
%RSD	.2688055	.0637469	.1743390	.2752624	.0422882
#1	2541.713	51471.37	9685.578	1728.873	3704.179
#2	2552.416	51529.75	9683.338	1737.188	3707.000
#3	2539.686	51526.60	9655.308	1737.096	3704.408

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB03 Acquired: 1/29/2025 14:06:02 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0011547	-.002138	.0004394	-.000821	-.001236	.0000578	-.001993
Stddev	.0020333	.002525	.0006321	.002269	.000658	.0038088	.000985
%RSD	176.0898	118.1251	143.8407	276.4404	53.20912	6593.037	49.42937
#1	-.000979	-.002152	.0011036	.000183	-.001015	-.001370	-.003071
#2	.001372	-.004656	-.000155	.000773	-.000718	-.002831	-.001766
#3	.003071	.000394	.000370	-.003419	-.001976	.004374	-.001141

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001491	.0001925	-.012882	-.000267	.0000793	-.000136	-.011944
Stddev	.0000406	.0000222	.008579	.000213	.0002345	.000301	.001460
%RSD	27.22532	11.55696	66.59923	79.78508	295.8038	221.0510	12.22256
#1	.0001843	.0002018	-.017649	-.000068	.0003495	.000179	-.013279
#2	.0001047	.0002086	-.002978	-.000492	-.000041	-.000168	-.012168
#3	.0001583	.0001671	-.018020	-.000240	-.000071	-.000421	-.010385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000150	-.003864	.0002443	.0004935	-.155820	.0012865	-.002761
Stddev	.000290	.005183	.0002524	.0004336	.014390	.0015767	.000170
%RSD	192.4651	134.1233	103.3068	87.87405	9.235240	122.5599	6.169421
#1	.000176	-.007461	.0003791	.0000068	-.163296	.0005868	-.002585
#2	-.000252	.002076	-.000047	.0008389	-.139230	.0001807	-.002925
#3	-.000376	-.006208	.000401	.0006346	-.164933	.0030920	-.002773

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1192707	.0056687	-.000065	-.000259	.0005781	-.011792	-.001502
Stddev	.0147009	.0009515	.000265	.000159	.0001355	.005752	.001419
%RSD	12.32565	16.78581	411.3532	61.48694	23.43992	48.78401	94.46909
#1	.1135026	.0056583	.000198	-.000107	.0004449	-.005877	-.000078
#2	.1083286	.0066255	-.000333	-.000245	.0007158	-.012131	-.002915
#3	.1359809	.0047225	-.000059	-.000424	.0005735	-.017367	-.001512

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB03 Acquired: 1/29/2025 14:06:02 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005004	-.007032	-.000005
Stddev	.002503	.000824	.000092
%RSD	50.01572	11.72000	1877.779
#1	-.004048	-.006535	-.000108
#2	-.003120	-.006578	.000071
#3	-.007843	-.007983	.000022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.718	54120.81	9942.668	1854.732	4031.601
Stddev	10.217	238.06	51.144	1.521	19.377
%RSD	.3873546	.4398642	.5143940	.0820227	.4806164
#1	2635.987	54182.33	9985.152	1855.339	4027.407
#2	2648.691	54322.07	9956.951	1855.855	4052.730
#3	2628.477	53858.03	9885.900	1853.000	4014.664

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166322BS Acquired: 1/29/2025 14:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7592224	1.974190	.9276686	1.852419	.7336746	1.844242
Stddev	.0002391	.011116	.0039959	.008896	.0025576	.005958
%RSD	.0314914	.5630503	.4307444	.4802518	.3485946	.3230728
#1	.7590289	1.961452	.9236441	1.842569	.7313855	1.840978
#2	.7591486	1.981925	.9277263	1.854818	.7332033	1.840628
#3	.7594897	1.979193	.9316353	1.859870	.7364351	1.851119

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1723679	.1877046	.1849745	.9231085	.3944861	.1855629
Stddev	.0000736	.0010027	.0007388	.0081066	.0007650	.0008616
%RSD	.0427251	.5342048	.3993930	.8781797	.1939157	.4642978
#1	.1724356	.1877853	.1841994	.9143485	.3940061	.1845921
#2	.1723785	.1886645	.1850533	.9246313	.3940840	.1858601
#3	.1722895	.1866640	.1856707	.9303457	.3953683	.1862365

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2935044	2.787022	.1824509	1.852268	.4650995	.0718913
Stddev	.0012376	.012881	.0004364	.017458	.0017770	.0004765
%RSD	.4216537	.4621623	.2391579	.9425286	.3820757	.6627378
#1	.2923325	2.774211	.1829221	1.832182	.4631863	.0716827
#2	.2933822	2.786885	.1820608	1.863797	.4654135	.0724364
#3	.2947985	2.799971	.1823699	1.860824	.4666985	.0715547

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.505202	.2772877	.1942304	9.308934	.2640099	.3898308
Stddev	.024302	.0017076	.0020484	.085009	.0019956	.0015855
%RSD	.9700508	.6158211	1.054608	.9131942	.7558656	.4067138
#1	2.478427	.2771873	.1958986	9.270438	.2647038	.3883694
#2	2.511314	.2790433	.1919442	9.249983	.2655658	.3896063
#3	2.525864	.2756325	.1948485	9.406380	.2617600	.3915165

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: PB166322BS Acquired: 1/29/2025 14:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2639) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6509137	.1799815	F .6656558	5.338273	F -.012386	.1776082
Stddev	.0029432	.0006647	.0064707	.027003	.000846	.0005454
%RSD	.4521649	.3693445	.9720827	.5058403	6.827381	.3070857
#1	.6475237	.1802574	.6599305	5.308821	-.012223	.1777739
#2	.6528169	.1792232	.6643608	5.344133	-.013301	.1780516
#3	.6524005	.1804638	.6726761	5.361864	-.011634	.1769992

Elem	Sr4077
Units	ppm
Avg	.1740660
Stddev	.0007280
%RSD	.4182079
#1	.1736323
#2	.1749065
#3	.1736593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2688.577	53826.06	9922.993	1844.010	4099.674
Stddev	6.850	169.34	35.212	12.052	13.324
%RSD	.2547700	.3145981	.3548499	.6535724	.3250079
#1	2693.208	53941.85	9902.634	1838.707	4111.761
#2	2691.815	53904.62	9902.694	1857.804	4101.876
#3	2680.709	53631.71	9963.652	1835.518	4085.386

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LR1 Acquired: 1/29/2025 14:14:51 Type: Unk
Method: NON EPA-6010-200.7(v2640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0607808	.1005469	.0418209	-.047615	-.020673	2026.465	.0118215
Stddev	.0154473	.0013527	.0021186	.018562	.008145	10.949	.0004753
%RSD	25.41485	1.345362	5.065787	38.98366	39.39949	.5402795	4.020528
#1	.0483738	.0994554	.0408989	-.027551	-.027897	2038.983	.0123697
#2	.0780825	.1001251	.0442442	-.064176	-.022276	2018.675	.0115260
#3	.0558860	.1020603	.0403196	-.051116	-.011845	2021.737	.0115687

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209920	.0288472	1932.257	.0049458	.0306669	-.487590	959.2558
Stddev	.0003313	.0019071	14.523	.0003098	.0004859	.005106	7.4109
%RSD	1.578216	6.610997	.7516172	6.264623	1.584415	1.047279	.7725695
#1	.0213057	.0266538	1948.881	.0045933	.0311625	-.493437	967.1201
#2	.0210246	.0297752	1922.030	.0051750	.0301913	-.484010	952.4021
#3	.0206456	.0301128	1925.862	.0050692	.0306469	-.485322	958.2451

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.026052	1738.300	.0314949	-.014569	1941.043	.0177888	.1735251
Stddev	.000255	15.035	.0006854	.001162	23.548	.0012160	.0005822
%RSD	.9794799	.8649103	2.176129	7.976228	1.213141	6.835964	.3355004
#1	-.025773	1752.191	.0307160	-.015126	1947.141	.0178351	.1728534
#2	-.026273	1722.336	.0317632	-.015347	1960.941	.0189810	.1738390
#3	-.026111	1740.371	.0320056	-.013233	1915.046	.0165502	.1738830

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1247.825	-.929089	-.009934	.0105983	-.033799	.1137076	.0695468
Stddev	14.818	.004939	.001116	.0051454	.000637	.0057449	.0097505
%RSD	1.187535	.5316171	11.23734	48.54937	1.884315	5.052350	14.02003
#1	1264.632	-.934774	-.010656	.0066732	-.034499	.1174936	.0587102
#2	1242.206	-.926635	-.010499	.0164236	-.033253	.1165320	.0776105
#3	1236.639	-.925857	-.008648	.0086981	-.033647	.1070973	.0723196

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LR1 Acquired: 1/29/2025 14:14:51 Type: Unk
Method: NON EPA-6010-200.7(v2640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.199969	-.317907	-.948328
Stddev	.003434	.003665	.007423
%RSD	1.717238	1.152824	.7827842
#1	-.200040	-.322021	-.956217
#2	-.196500	-.314990	-.941479
#3	-.203367	-.316711	-.947289

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1781.707	37035.03	8398.849	1215.242	2234.135
Stddev	7.872	157.87	39.466	4.933	9.681
%RSD	.4418367	.4262769	.4698998	.4059471	.4333187
#1	1788.883	36862.79	8354.315	1210.626	2240.340
#2	1782.950	37069.47	8429.491	1214.657	2239.086
#3	1773.287	37172.85	8412.739	1220.441	2222.980

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LR2 Acquired: 1/29/2025 14:19:48 Type: Unk
Method: NON EPA-6010-200.7(v2640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050843	-.004414	236.0486	.0016117	.0034918	.2613383	^F *****
Stddev	.0035908	.001856	1.6712	.0019044	.0015907	.0051494	-----
%RSD	70.62474	42.05415	.7079995	118.1612	45.55331	1.970398	-----
#1	.0009845	-.006544	235.5610	.0007770	.0037607	.2671325	^ -----
#2	.0065981	-.003141	234.6754	.0002672	.0017839	.2572849	^ -----
#3	.0076703	-.003558	237.9093	.0037910	.0049309	.2595975	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004824	-.004679	.3455054	.0079647	-.008997	255.1854	-.009628
Stddev	.000046	.000121	.0132264	.0003455	.000549	2.1314	.005397
%RSD	.9500589	2.587245	3.828128	4.338423	6.105724	.8352510	56.06138
#1	-.004791	-.004773	.3606949	.0083309	-.008363	253.2390	-.006979
#2	-.004805	-.004542	.3392884	.0079187	-.009304	254.8542	-.015838
#3	-.004876	-.004721	.3365331	.0076444	-.009324	257.4631	-.006066

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.52052	-.011096	45.91382	.0054214	.1478431	-.013618	32.31430
Stddev	.39188	.006392	.33255	.0004666	.0208399	.001097	.42777
%RSD	.9438186	57.61094	.7242897	8.606915	14.09595	8.054030	1.323781
#1	41.74704	-.006704	45.84294	.0058501	.1681467	-.012636	31.95393
#2	41.06802	-.008153	45.62243	.0054897	.1488771	-.014802	32.78704
#3	41.74651	-.018429	46.27610	.0049244	.1265054	-.013416	32.20193

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4242862	-.000746	-.009522	-.005481	-.033005	-.019575	.5835373
Stddev	.0053237	.000135	.000526	.000559	.000649	.006499	.0102142
%RSD	1.254730	18.06705	5.528850	10.20337	1.965337	33.19994	1.750402
#1	.4235582	-.000834	-.009868	-.005356	-.033700	-.023907	.5929133
#2	.4299363	-.000814	-.009783	-.004995	-.032415	-.022715	.5726526
#3	.4193640	-.000591	-.008916	-.006092	-.032900	-.012102	.5850459

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: LR2 Acquired: 1/29/2025 14:19:48 Type: Unk
Method: NON EPA-6010-200.7(v2640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0338464	-.007370	.0013661
Stddev	.0009689	.000968	.0000547
%RSD	2.862612	13.13660	4.006212
#1	.0344506	-.007916	.0013853
#2	.0343597	-.007941	.0014086
#3	.0327288	-.006252	.0013043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2427.283	53279.27	10270.90	1702.450	3910.286
Stddev	19.511	241.66	18.15	9.685	23.711
%RSD	.8038406	.4535800	.1766657	.5688583	.6063672
#1	2439.276	53333.40	10287.06	1706.838	3919.719
#2	2437.805	53015.13	10274.37	1691.348	3927.828
#3	2404.769	53489.28	10251.27	1709.163	3883.310

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV04 Acquired: 1/29/2025 14:24:15 Type: Unk
Method: NON EPA-6010-200.7(v2496) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.814311	4.910933	4.807421	4.819750	4.822640	9.768789	9.122639
Stddev	.009291	.009945	.006005	.019738	.016936	.052046	.062487
%RSD	.1929902	.2025105	.1249104	.4095222	.3511729	.5327793	.6849683
#1	4.811317	4.921702	4.800493	4.838426	4.835246	9.726064	9.089585
#2	4.824730	4.909001	4.810634	4.821723	4.829284	9.826754	9.083620
#3	4.806886	4.902095	4.811135	4.799099	4.803389	9.753550	9.194710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2380034	2.393934	23.44294	1.011748	2.384224	1.224664	4.759379
Stddev	.0016248	.004092	.13885	.016553	.002710	.000307	.087023
%RSD	.6826955	.1709189	.5922883	1.636085	.1136526	.0250574	1.828456
#1	.2361890	2.389209	23.28300	1.030216	2.381219	1.224464	4.853786
#2	.2393243	2.396292	23.53256	.998246	2.384971	1.224511	4.682368
#3	.2384970	2.396301	23.51326	1.006783	2.386482	1.225018	4.741981

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.259714	23.85342	2.392320	1.218870	23.26081	2.376967	2.422581
Stddev	.013240	.19810	.002570	.015256	.36947	.010122	.041962
%RSD	.5859016	.8304758	.1074336	1.251630	1.588359	.4258170	1.732127
#1	2.244436	23.62473	2.389464	1.236208	23.68654	2.367762	2.468363
#2	2.267829	23.97203	2.393048	1.207504	23.02416	2.387806	2.385947
#3	2.266877	23.96350	2.394448	1.212897	23.07172	2.375335	2.413434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.11277	4.622030	4.939605	4.816352	4.664874	5.028827	4.777852
Stddev	.36586	.048712	.008023	.004341	.021299	.090012	.012761
%RSD	1.517300	1.053910	.1624280	.0901301	.4565911	1.789919	.2670969
#1	24.53465	4.565882	4.945001	4.812382	4.643496	5.131267	4.765797
#2	23.88271	4.653002	4.943430	4.820987	4.686093	4.962384	4.776539
#3	23.92095	4.647206	4.930385	4.815688	4.665035	4.992831	4.791219

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCV04 Acquired: 1/29/2025 14:24:15 Type: Unk
Method: NON EPA-6010-200.7(v2496) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.653441	4.586007	4.666889
Stddev	.006845	.017865	.031673
%RSD	.1470938	.3895569	.6786825
#1	4.658033	4.573264	4.662986
#2	4.656715	4.606428	4.637348
#3	4.645573	4.578329	4.700333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2528.679	51253.71	9625.334	1718.455	3699.114
Stddev	.732	725.20	73.100	33.857	5.163
%RSD	.0289467	1.414920	.7594555	1.970186	.1395669
#1	2529.516	50463.38	9709.058	1681.189	3704.525
#2	2528.161	51888.54	9592.761	1747.320	3698.576
#3	2528.359	51409.23	9574.182	1726.857	3694.242

Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB04 Acquired: 1/29/2025 14:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2496) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0019277	-.000355	.0006460	-.000136	-.001173	.0001905	-.004526
Stddev	.0012537	.000644	.0005699	.001573	.000768	.0046670	.000538
%RSD	65.03191	181.3514	88.21592	1155.319	65.53484	2449.441	11.88420
#1	.0019858	.000373	.0012441	.000736	-.002059	.0030485	-.004959
#2	.0031514	-.000851	.0005847	.000808	-.000690	.0027182	-.003924
#3	.0006461	-.000588	.0001093	-.001952	-.000769	-.005195	-.004696

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000711	.0000664	-.017637	.0003723	-.000084	.0003915	-.012978
Stddev	.0000293	.0000110	.003009	.0002650	.000143	.0001496	.000973
%RSD	41.21449	16.55416	17.06117	71.17327	170.9696	38.21893	7.496859
#1	.0000394	.0000738	-.019859	.0000954	-.000246	.0004395	-.013519
#2	.0000767	.0000717	-.014212	.0003979	-.000033	.0005112	-.013561
#3	.0000972	.0000538	-.018839	.0006235	.000027	.0002238	-.011855

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001914	-.011153	.0002323	.0006295	-.039429	-.000935	-.002431
Stddev	.0002547	.004373	.0003189	.0002575	.006659	.000714	.000203
%RSD	133.0711	39.20953	137.2847	40.91080	16.88959	76.34567	8.350123
#1	.0004854	-.015931	.0002112	.0009032	-.036981	-.001608	-.002452
#2	.0000410	-.010179	.0005611	.0005933	-.046966	-.000187	-.002622
#3	.0000477	-.007350	-.000076	.0003920	-.034340	-.001010	-.002218

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1638501	.0037061	-.000117	-.000543	.0001921	-.006240	-.002507
Stddev	.0242866	.0006434	.000252	.001283	.0004880	.002212	.002171
%RSD	14.82243	17.36119	215.1405	236.3215	254.0062	35.44790	86.56542
#1	.1647960	.0040914	-.000203	-.002003	-.000072	-.004674	-.004096
#2	.1391044	.0040636	.000166	-.000028	-.000107	-.005274	-.000034
#3	.1876499	.0029633	-.000314	.000403	.000755	-.008770	-.003392

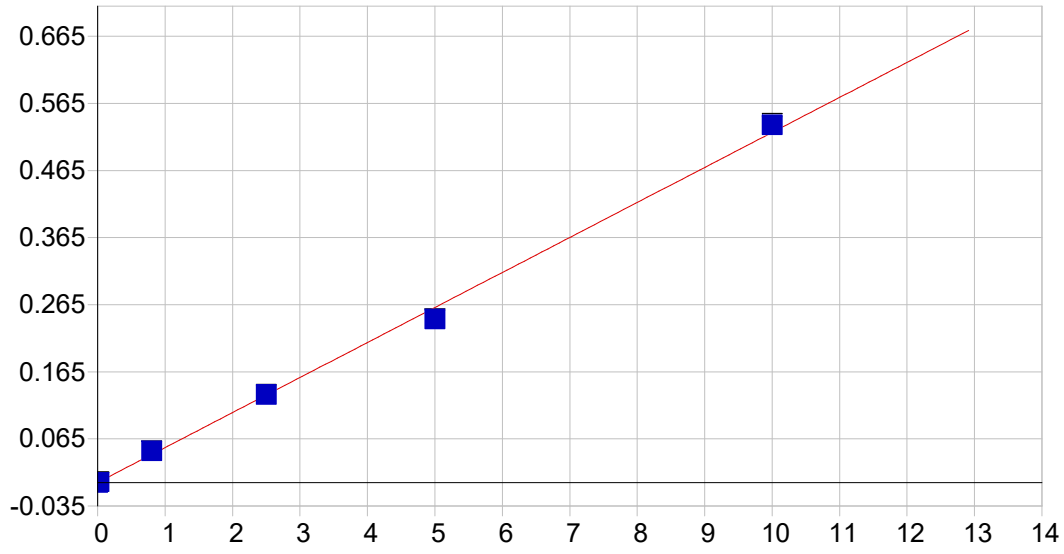
Reviewed By:Jaswal
On:2/4/2025 1:27:33 PM
Inst Id :P4
LB :LB134477

Sample Name: CCB04 Acquired: 1/29/2025 14:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2496) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005825	-.004150	-.000084
Stddev	.000931	.000404	.000027
%RSD	15.98017	9.738149	31.75877
#1	-.005088	-.004275	-.000109
#2	-.006871	-.004477	-.000086
#3	-.005517	-.003698	-.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2622.966	54531.41	9773.320	1845.603	4034.229
Stddev	3.411	208.15	48.387	7.397	7.872
%RSD	.1300556	.3817050	.4950911	.4008153	.1951381
#1	2624.361	54695.99	9742.364	1853.937	4042.599
#2	2619.078	54297.43	9748.517	1843.060	4026.973
#3	2625.459	54600.82	9829.079	1839.813	4033.114

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



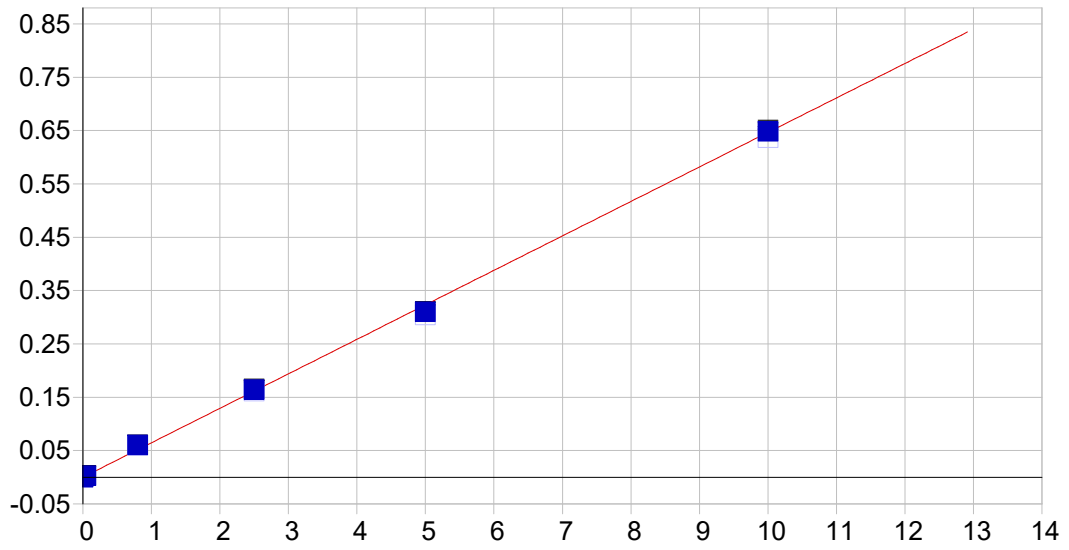
As 189.042 {479}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000098	Re-Slope:	1.000000
A1 (Gain):	0.052187	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998915	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.002703		
Predicted MQL:	0.009010		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00010	.000	1
S1	.02000	.01969	-.000	-1.55	.00092	.000	1
S3	2.5000	2.5111	.011	.445	.13081	.000	1
S4	5.0000	4.6701	-.330	-6.60	.24334	.001	1
S5	10.000	10.216	.216	2.16	.53249	.002	1
S2	.80000	.90288	.103	12.9	.04698	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



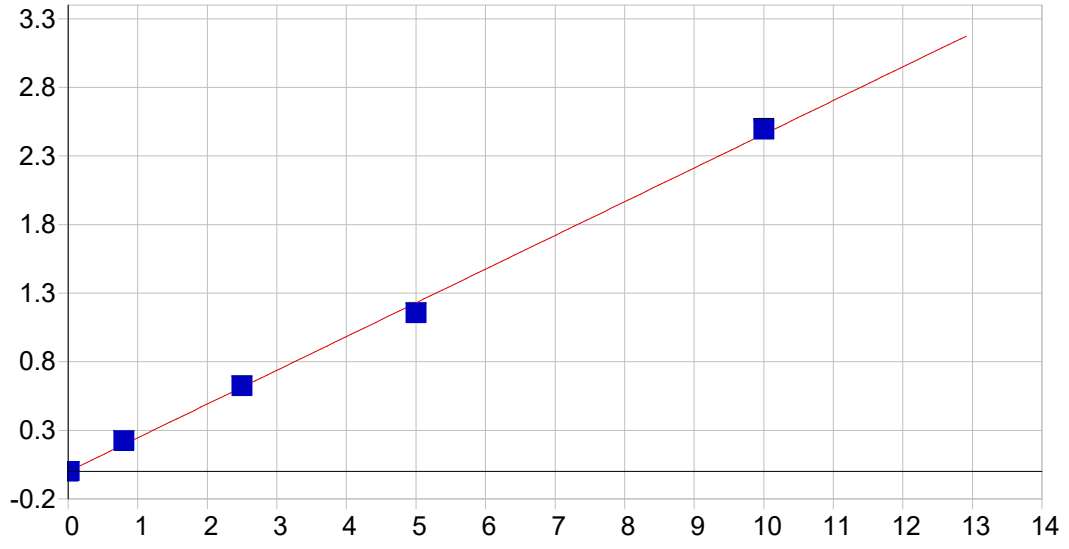
Tl 190.856 {477}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000075	Re-Slope:	1.000000
A1 (Gain):	0.064655	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999116	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.002041		
Predicted MQL:	0.006804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00008	.000	1
S1	.04000	.04059	.001	1.48	.00238	.000	1
S3	2.5000	2.5415	.042	1.66	.16127	.001	1
S4	5.0000	4.7952	-.205	-4.10	.30401	.000	1
S5	10.000	10.030	.030	.297	.63649	.002	1
S2	.80000	.93299	.133	16.6	.05929	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



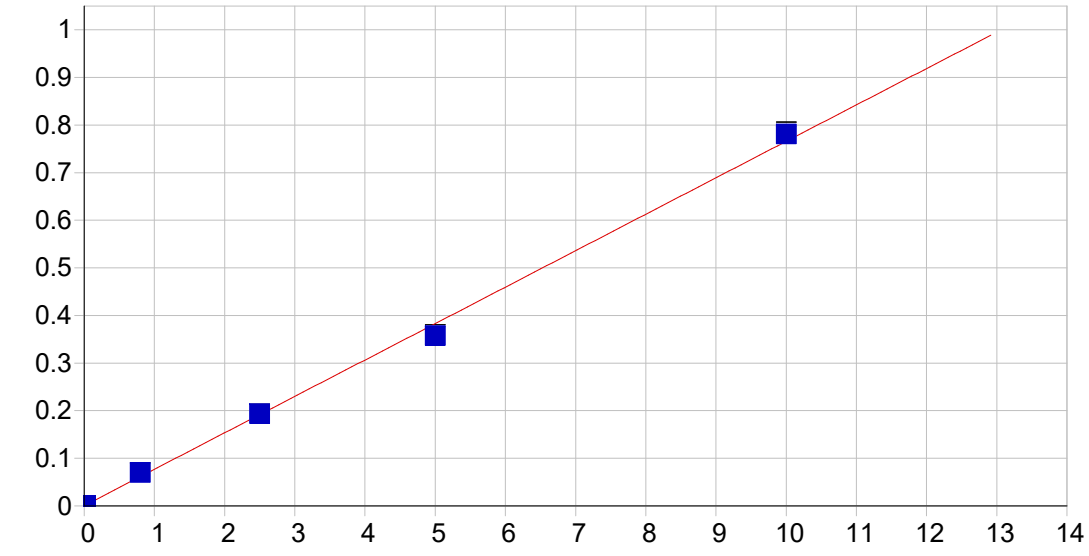
Pb 220.353 {453}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000065	Re-Slope:	1.000000
A1 (Gain):	0.245853	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998999	Status:	OK.
Std Error of Est:	0.000200		
Predicted MDL:	0.001183		
Predicted MQL:	0.003943		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.01200	.01101	-.001	-8.28	.00258	.000	1
S3	2.5000	2.5367	.037	1.47	.62292	.003	1
S4	5.0000	4.7033	-.297	-5.93	1.1549	.004	1
S5	10.000	10.147	.147	1.47	2.4919	.007	1
S2	.80000	.91396	.114	14.2	.22442	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



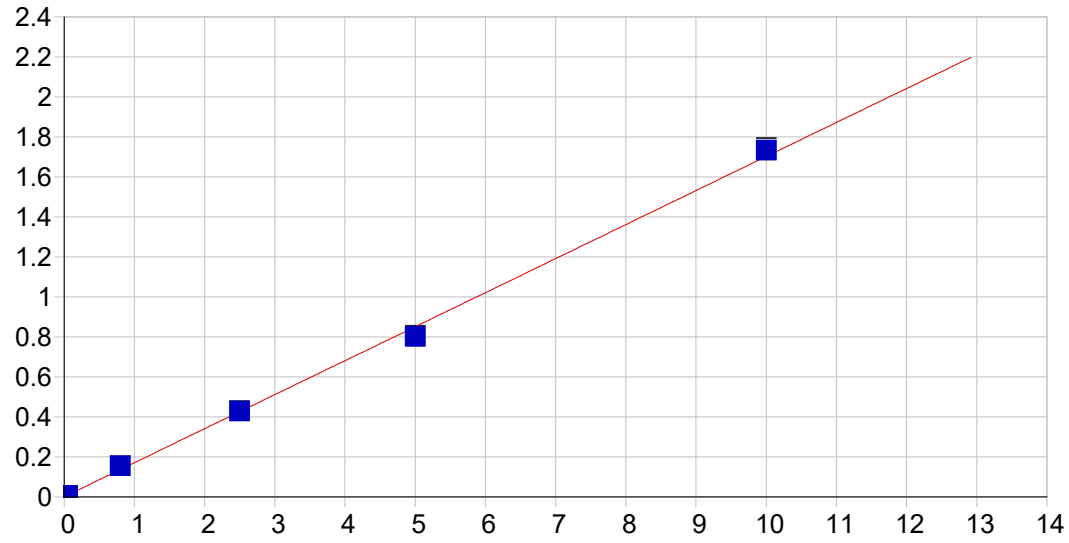
Se 196.090 {472}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000376	Re-Slope:	1.000000
A1 (Gain):	0.076537	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998909	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.002505		
Predicted MQL:	0.008351		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00038	.000	1
S1	.02000	.01822	-.002	-8.92	.00177	.000	1
S3	2.5000	2.5225	.022	.899	.19339	.001	1
S4	5.0000	4.6711	-.329	-6.58	.35779	.002	1
S5	10.000	10.203	.203	2.03	.78105	.004	1
S2	.80000	.90558	.106	13.2	.06967	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



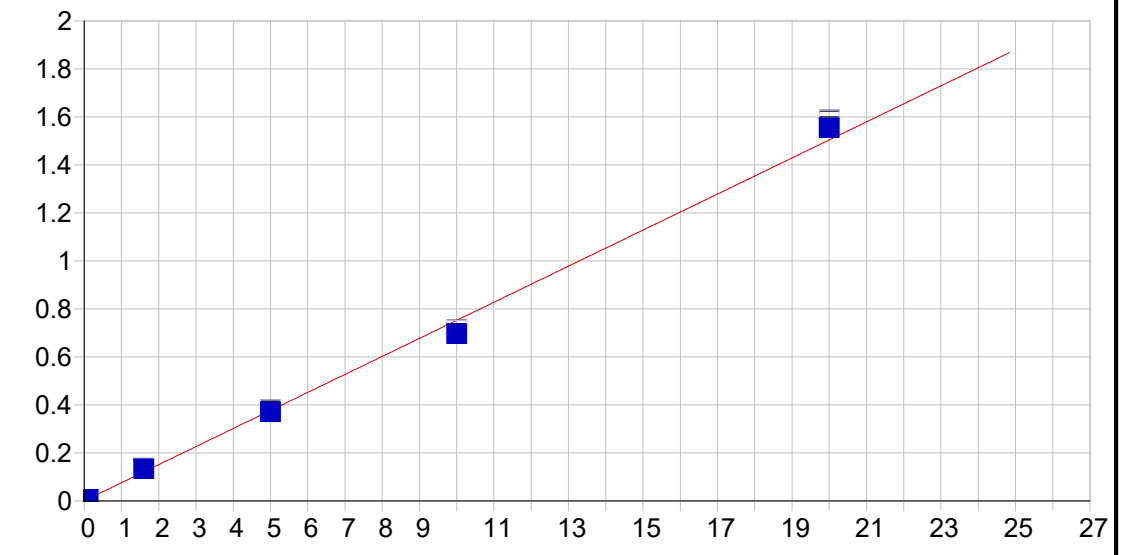
Sb 206.833 {463}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000778	Re-Slope:	1.000000
A1 (Gain):	0.170094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999056	Status:	OK.
Std Error of Est:	0.000275		
Predicted MDL:	0.001414		
Predicted MQL:	0.004714		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00078	.000	1
S1	.05000	.04470	-.005	-10.6	.00840	.000	1
S3	2.5000	2.5141	.014	.566	.42958	.001	1
S4	5.0000	4.7061	-.294	-5.88	.80358	.004	1
S5	10.000	10.180	.180	1.80	1.7370	.009	1
S2	.80000	.90475	.105	13.1	.15504	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



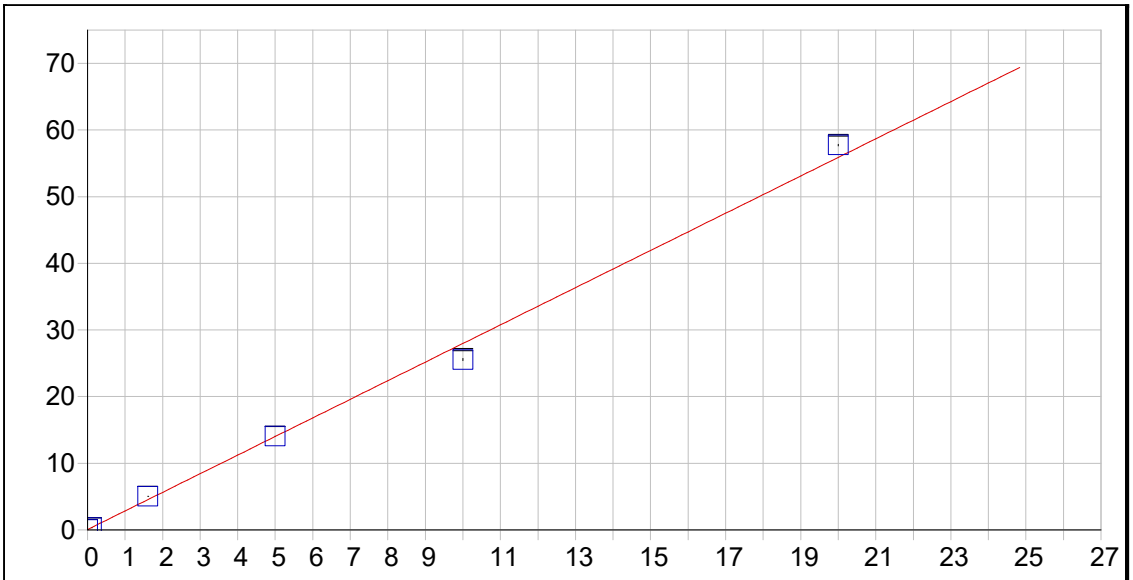
Al 396.152 { 85}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000912	Re-Slope:	1.000000
A1 (Gain):	0.075167	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998734	Status:	OK.
Std Error of Est:	0.000286		
Predicted MDL:	0.008069		
Predicted MQL:	0.026895		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00091	.001	1
S1	.10000	.08589	-.014	-14.1	.00795	.001	1
S3	5.0000	4.9257	-.074	-1.49	.37845	.001	1
S4	10.000	9.2556	-.744	-7.44	.71121	.001	1
S5	20.000	20.677	.677	3.38	1.5843	.003	1
S2	1.6000	1.7566	.157	9.79	.13529	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



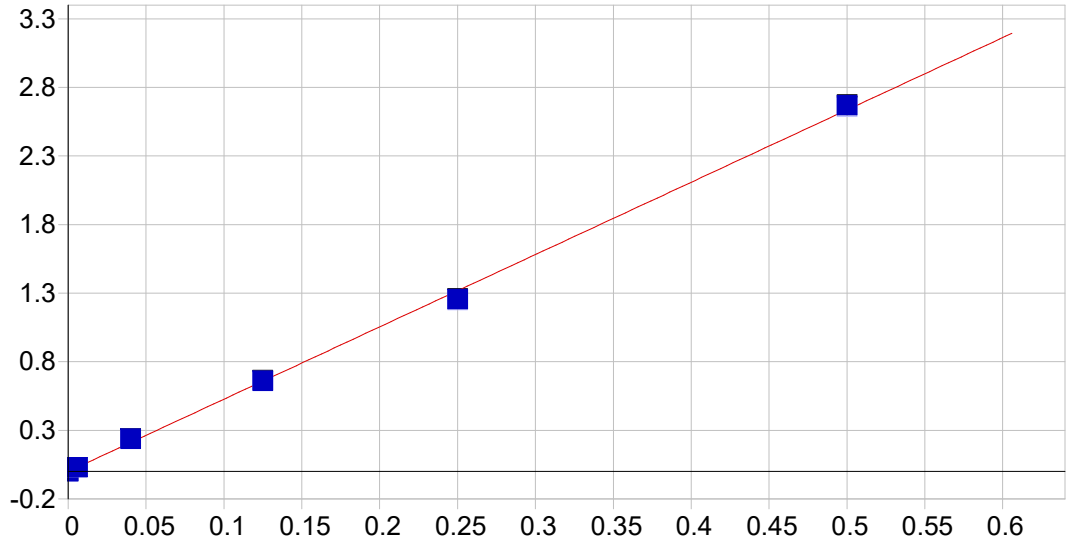
Ba 493.409 { 68}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.056859	Re-Slope:	1.000000
A1 (Gain):	2.791776	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998367	Status:	OK.
Std Error of Est:	0.011845		
Predicted MDL:	0.000704		
Predicted MQL:	0.002347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05685	.002	1
S1	.10000	.09528	-.005	-4.72	.32286	.001	1
S3	5.0000	5.0107	.011	.214	14.046	.014	1
S4	10.000	9.1358	-.864	-8.64	25.562	.153	1
S5	20.000	20.666	.666	3.33	57.752	.118	1
S2	1.6000	1.7920	.192	12.0	5.0597	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



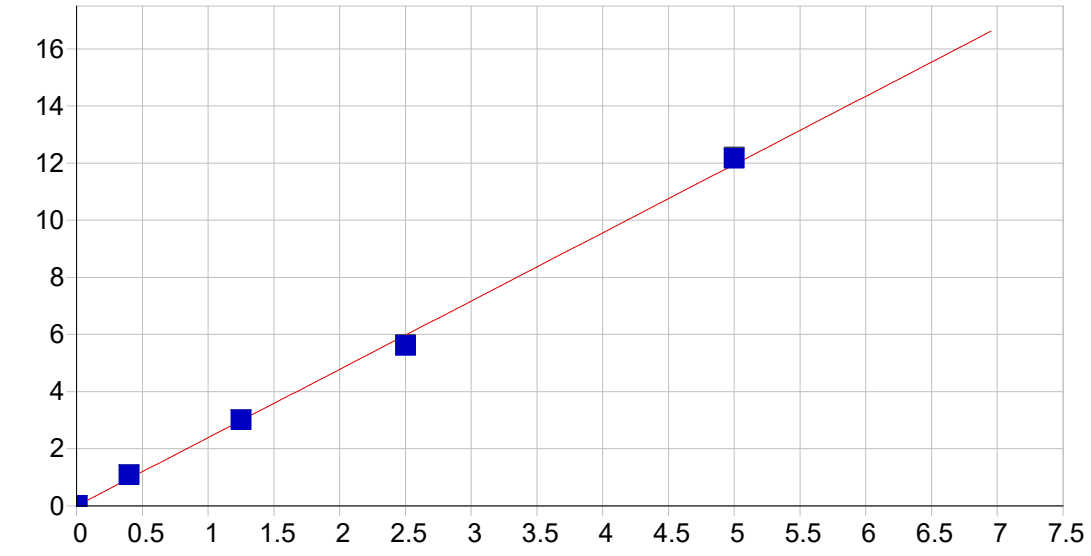
Be 234.861 {144}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000092	Re-Slope:	1.000000
A1 (Gain):	5.272084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999285	Status:	OK.
Std Error of Est:	0.000571		
Predicted MDL:	0.000055		
Predicted MQL:	0.000182		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00009	.000	1
S1	.00600	.00576	-.000	-3.95	.03005	.000	1
S3	.12500	.12553	.001	.426	.65878	.004	1
S4	.25000	.23816	-.012	-4.74	1.2496	.004	1
S5	.50000	.50644	.006	1.29	2.6581	.005	1
S2	.04000	.04510	.005	12.8	.23674	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



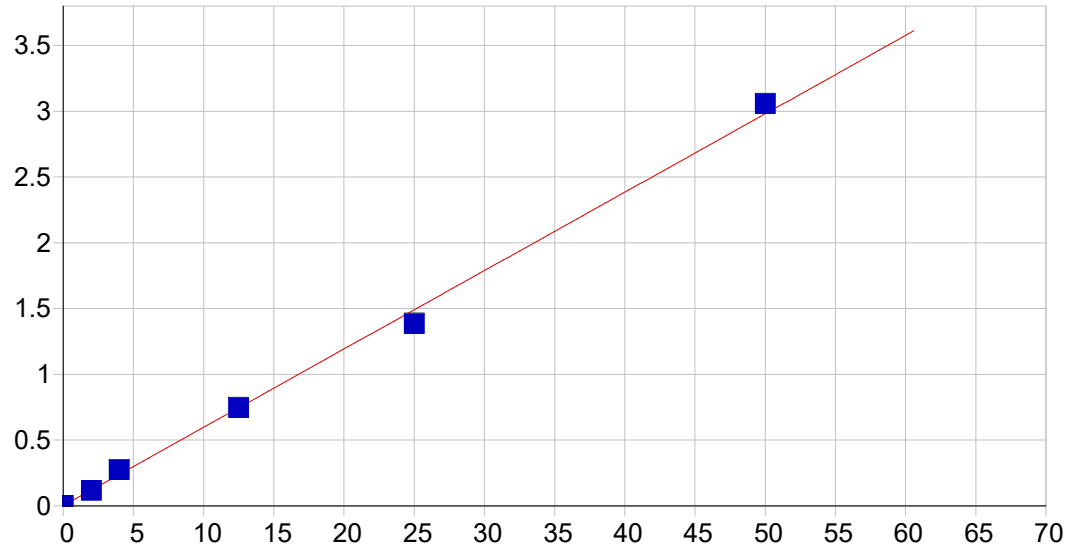
Cd 226.502 {449}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000659	Re-Slope:	1.000000
A1 (Gain):	2.390323	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999037	Status:	OK.
Std Error of Est:	0.000953		
Predicted MDL:	0.000093		
Predicted MQL:	0.000308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00066	.000	1
S1	.00600	.00560	-.000	-6.71	.01411	.000	1
S3	1.2500	1.2584	.008	.673	3.0111	.008	1
S4	2.5000	2.3491	-.151	-6.04	5.6207	.019	1
S5	5.0000	5.0905	.090	1.81	12.178	.037	1
S2	.40000	.45240	.052	13.1	1.0828	.006	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



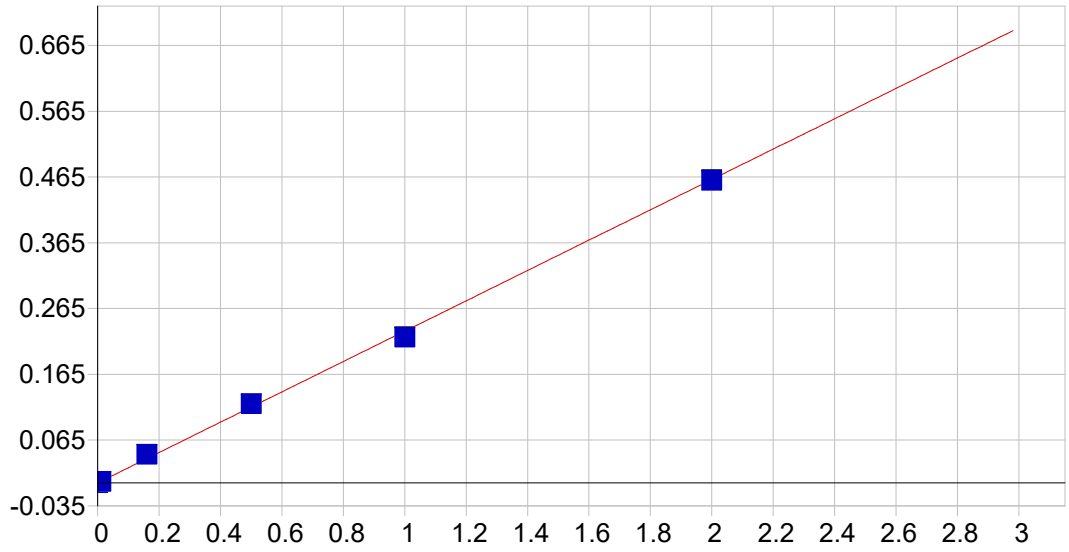
Ca 373.690 { 90}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001660	Re-Slope:	1.000000
A1 (Gain):	0.059577	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998662	Status:	OK.
Std Error of Est:	0.001632		
Predicted MDL:	0.009838		
Predicted MQL:	0.032794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00165	.001	1
S2	4.0000	4.5744	.574	14.4	.27419	.001	1
S3	12.500	12.501	.001	.007	.74643	.002	1
S4	25.000	23.193	-1.81	-7.23	1.3834	.005	1
S5	50.000	51.311	1.31	2.62	3.0586	.002	1
S1	2.0000	1.9212	-.079	-3.94	.11612	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



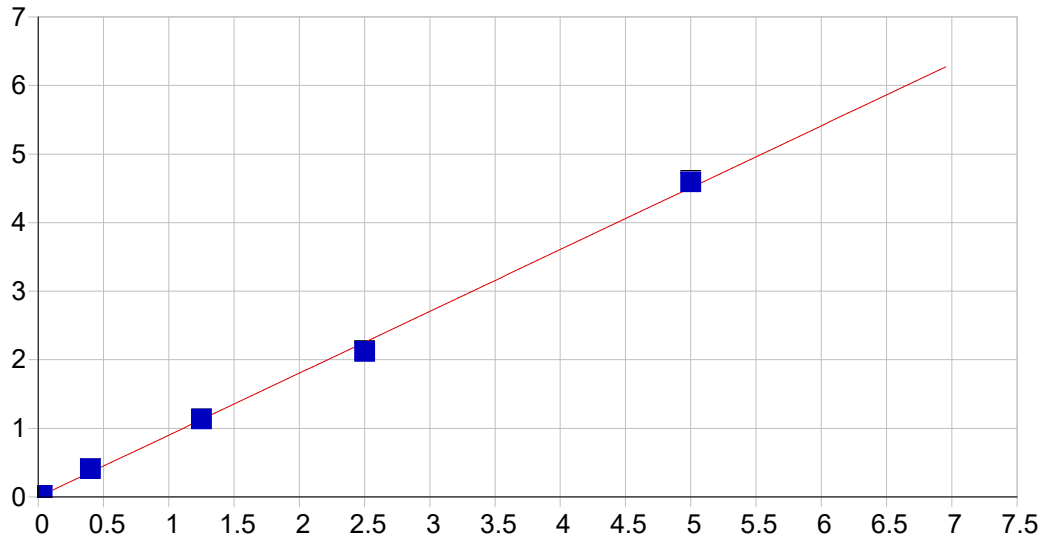
Cr 267.716 {126}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000034	Re-Slope:	1.000000
A1 (Gain):	0.230710	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998983	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.000384		
Predicted MQL:	0.001280		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.01000	.00937	-.001	-6.29	.00213	.000	1
S3	.50000	.52079	.021	4.16	.12015	.000	1
S4	1.0000	.95944	-.041	-4.06	.22139	.001	1
S5	2.0000	1.9924	-.008	-.380	.45977	.001	1
S2	.16000	.18800	.028	17.5	.04335	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



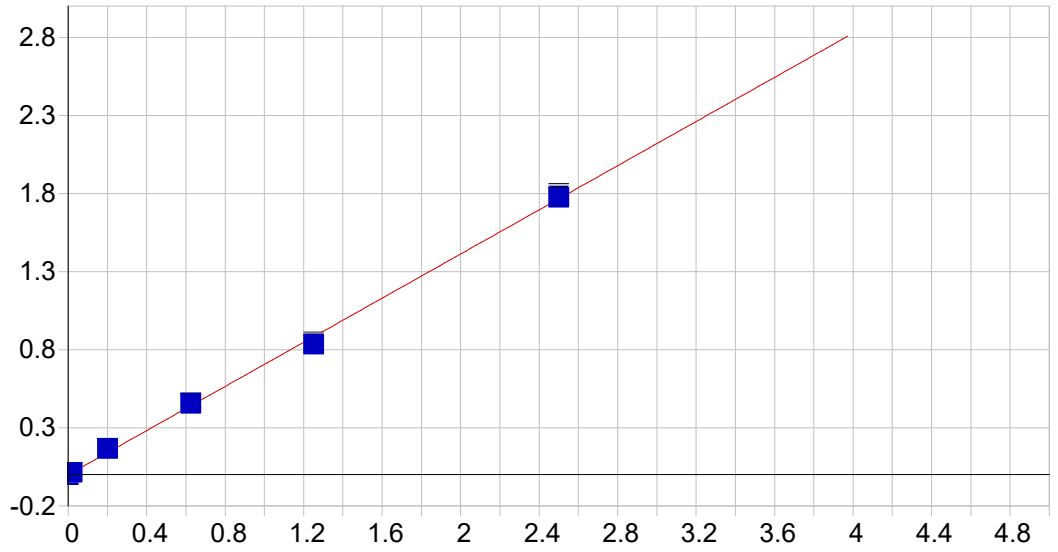
Co 228.616 {448}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000201	Re-Slope:	1.000000
A1 (Gain):	0.901894	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999012	Status:	OK.
Std Error of Est:	0.000816		
Predicted MDL:	0.000218		
Predicted MQL:	0.000727		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.03000	.02862	-.001	-4.60	.02590	.000	1
S3	1.2500	1.2579	.008	.632	1.1366	.004	1
S4	2.5000	2.3494	-.151	-6.02	2.1229	.008	1
S5	5.0000	5.0896	.090	1.79	4.5981	.017	1
S2	.40000	.45450	.054	13.6	.41072	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



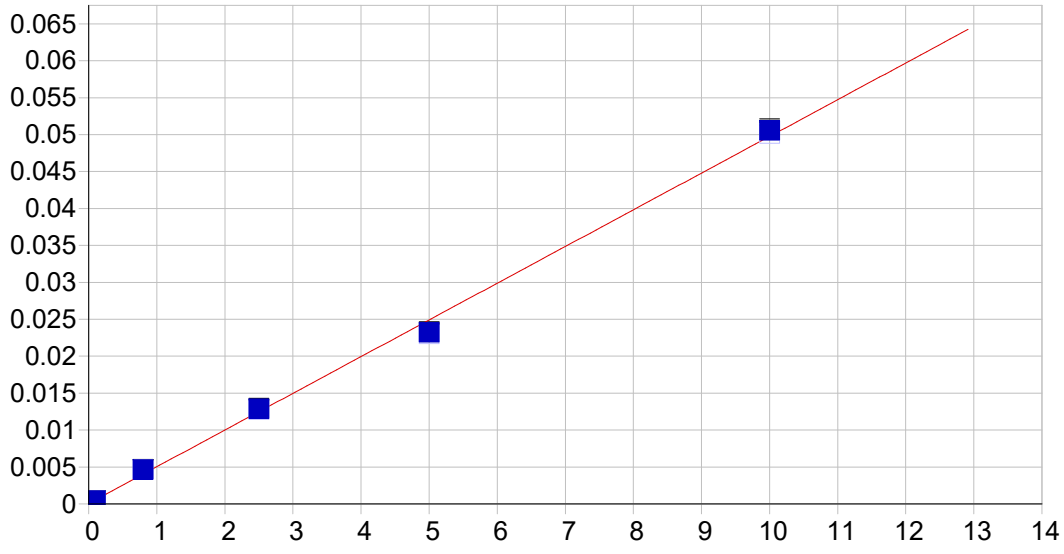
Cu 224.700 {450}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000608	Re-Slope:	1.000000
A1 (Gain):	0.706727	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998845	Status:	OK.
Std Error of Est:	0.000403		
Predicted MDL:	0.000440		
Predicted MQL:	0.001465		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00061	.000	1
S1	.02000	.02146	.001	7.29	.01474	.000	1
S3	.62500	.64411	.019	3.06	.45881	.002	1
S4	1.2500	1.1818	-.068	-5.45	.84305	.005	1
S5	2.5000	2.5119	.012	.475	1.7914	.009	1
S2	.20000	.23571	.036	17.9	.16732	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



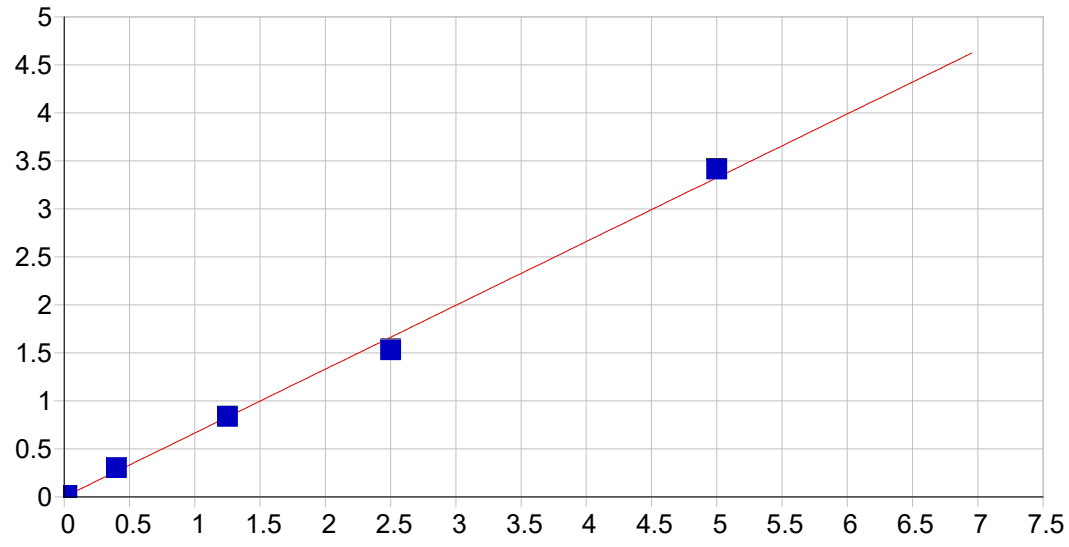
Fe 240.488 {140}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000062	Re-Slope:	1.000000
A1 (Gain):	0.004969	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998562	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.005560		
Predicted MQL:	0.018534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00006	.000	1
S1	.10000	.07665	-.023	-23.3	.00044	.000	1
S3	2.5000	2.5735	.074	2.94	.01275	.000	1
S4	5.0000	4.6623	-.338	-6.75	.02302	.000	1
S5	10.000	10.164	.164	1.64	.05015	.000	1
S2	.80000	.92339	.123	15.4	.00462	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



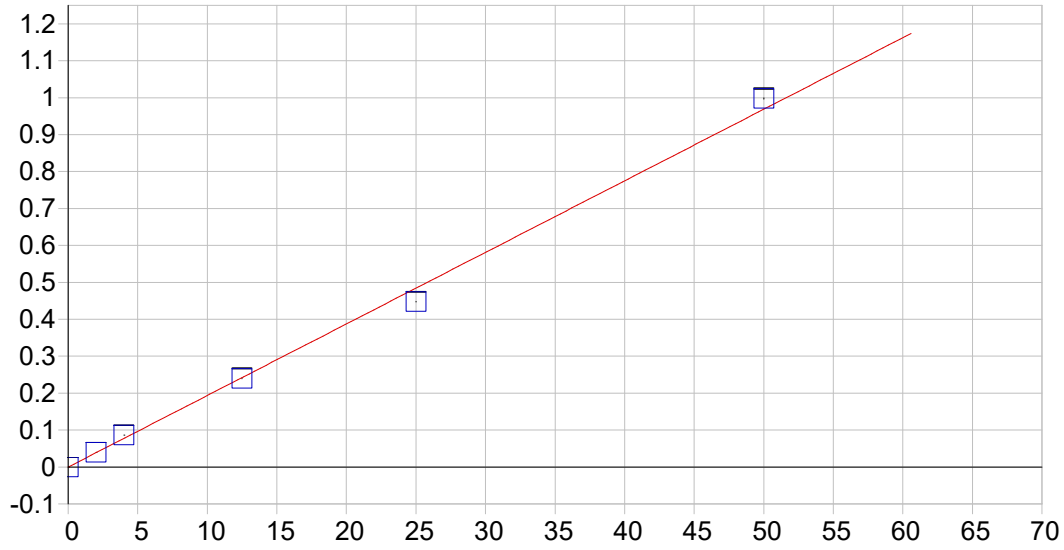
Mn 257.610 {131}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000370	Re-Slope:	1.000000
A1 (Gain):	0.664852	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998521	Status:	OK.
Std Error of Est:	0.000600		
Predicted MDL:	0.000358		
Predicted MQL:	0.001195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00037	.000	1
S1	.02000	.01976	-.000	-1.18	.01352	.000	1
S3	1.2500	1.2588	.009	.705	.83746	.002	1
S4	2.5000	2.3029	-.197	-7.89	1.5318	.008	1
S5	5.0000	5.1316	.132	2.63	3.4128	.007	1
S2	.40000	.45698	.057	14.2	.30425	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



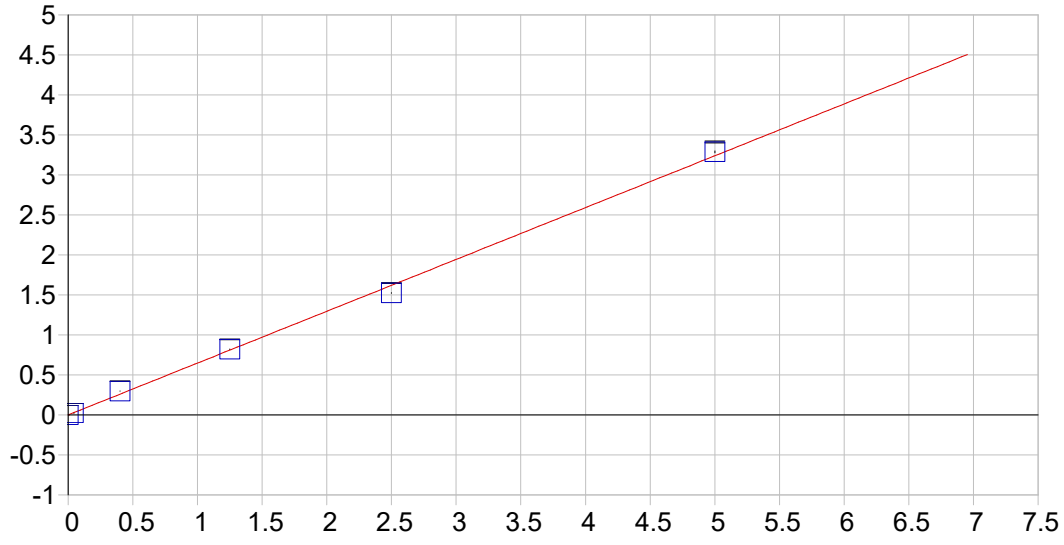
Mg 279.079 {121}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000204	Re-Slope:	1.000000
A1 (Gain):	0.019376	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998693	Status:	OK.
Std Error of Est:	0.000525		
Predicted MDL:	0.013518		
Predicted MQL:	0.045061		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	-.00021	.000	1
S2	4.0000	4.4612	.461	11.5	.08624	.000	1
S3	12.500	12.392	-.108	-.863	.23991	.001	1
S4	25.000	23.099	-1.90	-7.60	.44738	.001	1
S5	50.000	51.502	1.50	3.00	.99770	.002	1
S1	2.0000	2.0457	.046	2.28	.03943	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



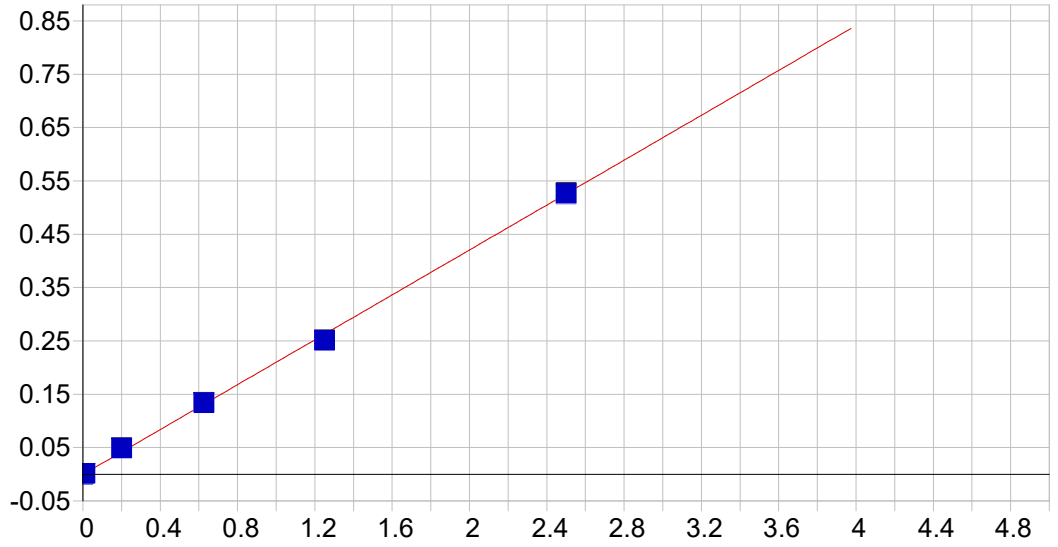
Ni 231.604 {446}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000150	Re-Slope:	1.000000
A1 (Gain):	0.647790	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998972	Status:	OK.
Std Error of Est:	0.000690		
Predicted MDL:	0.000339		
Predicted MQL:	0.001129		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.04000	.03828	-.002	-4.29	.02495	.000	1
S3	1.2500	1.2654	.015	1.23	.81983	.003	1
S4	2.5000	2.3518	-.148	-5.93	1.5236	.005	1
S5	5.0000	5.0755	.075	1.51	3.2880	.010	1
S2	.40000	.45911	.059	14.8	.29756	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



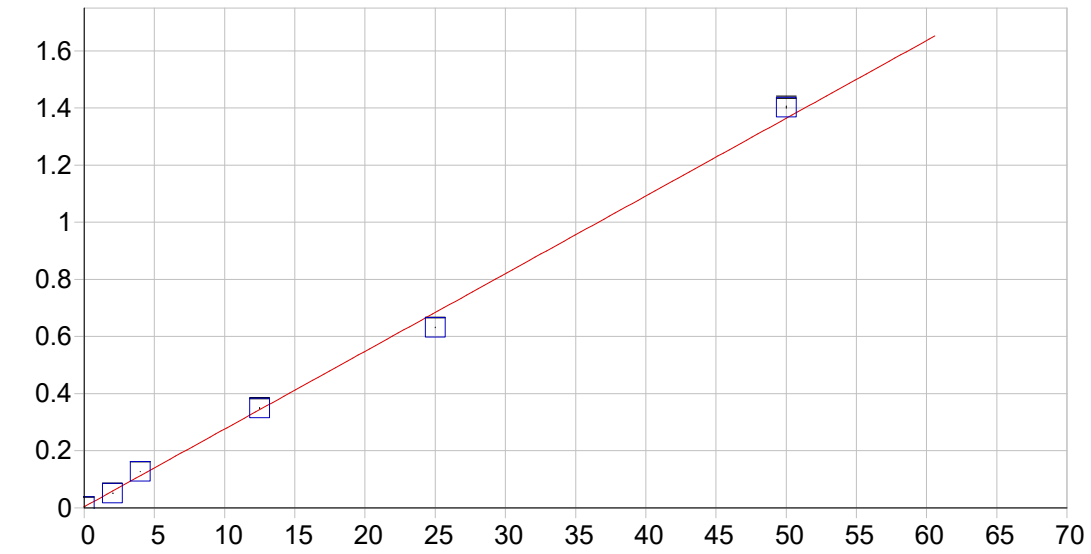
Ag 328.068 {103}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000480	Re-Slope:	1.000000
A1 (Gain):	0.210475	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999025	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.000554		
Predicted MQL:	0.001846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00048	.000	1
S1	.01000	.00963	-.000	-3.75	.00153	.000	1
S3	.62500	.64090	.016	2.54	.13389	.000	1
S4	1.2500	1.1960	-.054	-4.32	.25020	.001	1
S5	2.5000	2.5035	.004	.140	.52436	.001	1
S2	.20000	.23499	.035	17.5	.04881	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



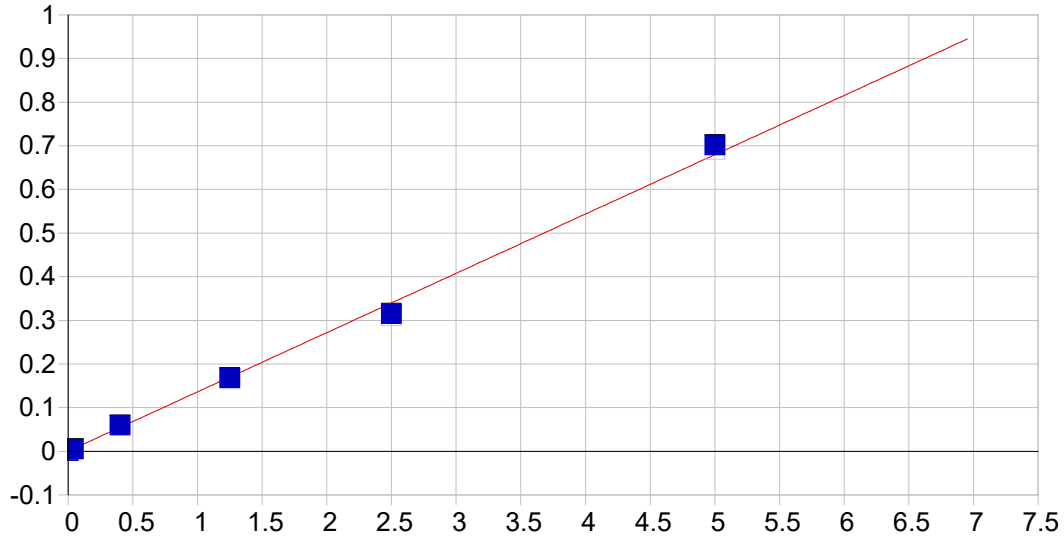
Na 589.592 { 57}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004102	Re-Slope:	1.000000
A1 (Gain):	0.027201	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998420	Status:	OK.
Std Error of Est:	0.000810		
Predicted MDL:	0.007726		
Predicted MQL:	0.025754		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00410	.000	1
S2	4.0000	4.5345	.535	13.4	.12744	.001	1
S3	12.500	12.711	.211	1.69	.34986	.002	1
S4	25.000	23.068	-1.93	-7.73	.63156	.001	1
S5	50.000	51.434	1.43	2.87	1.4031	.004	1
S1	2.0000	1.7526	-.247	-12.4	.05177	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



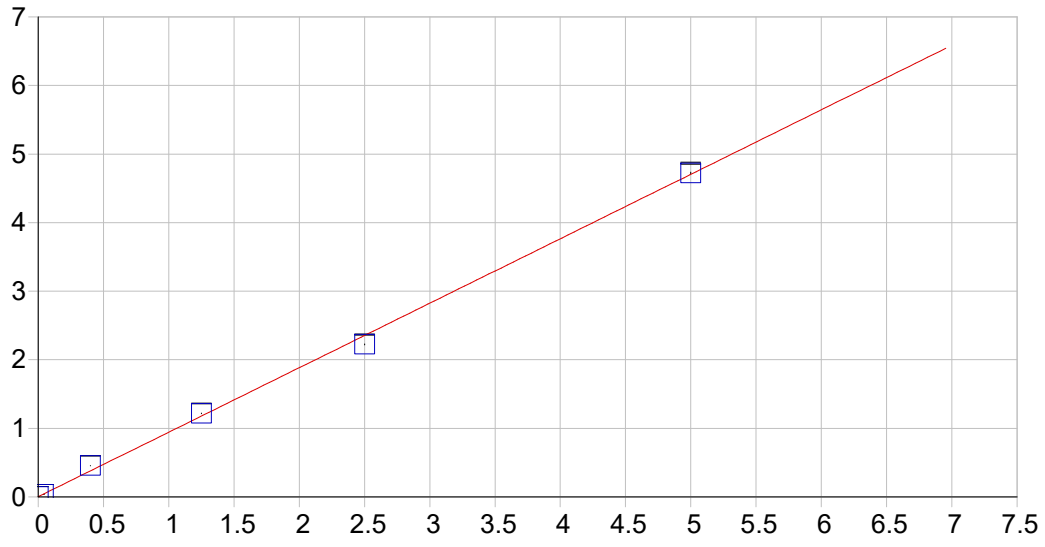
V 292.402 {115}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000207	Re-Slope:	1.000000
A1 (Gain):	0.135872	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998731	Status:	OK.
Std Error of Est:	0.000158		
Predicted MDL:	0.001971		
Predicted MQL:	0.006568		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00021	.000	1
S1	.04000	.03651	-.003	-8.73	.00496	.000	1
S3	1.2500	1.2364	-.014	-1.09	.16572	.001	1
S4	2.5000	2.3175	-.182	-7.30	.31014	.001	1
S5	5.0000	5.1608	.161	3.22	.69150	.001	1
S2	.40000	.43871	.039	9.68	.05902	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



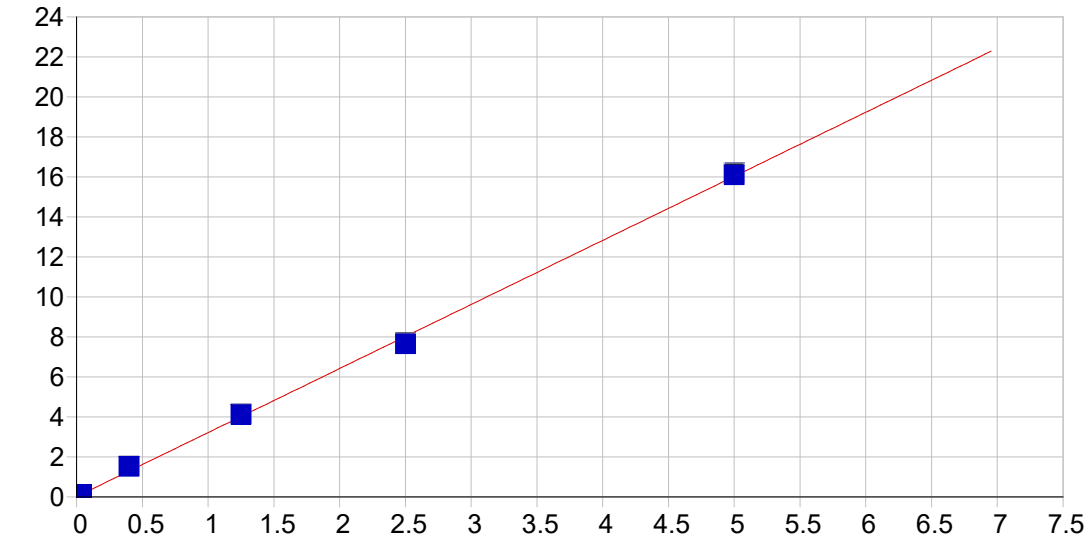
Zn 206.200 {464}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003534	Re-Slope:	1.000000
A1 (Gain):	0.940267	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998626	Status:	OK.
Std Error of Est:	0.001158		
Predicted MDL:	0.000203		
Predicted MQL:	0.000676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00353	.000	1
S1	.04000	.03799	-.002	-5.03	.03925	.000	1
S3	1.2500	1.2910	.041	3.28	1.2174	.004	1
S4	2.5000	2.3622	-.138	-5.51	2.2246	.008	1
S5	5.0000	5.0184	.018	.368	4.7222	.013	1
S2	.40000	.48045	.080	20.1	.45528	.002	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



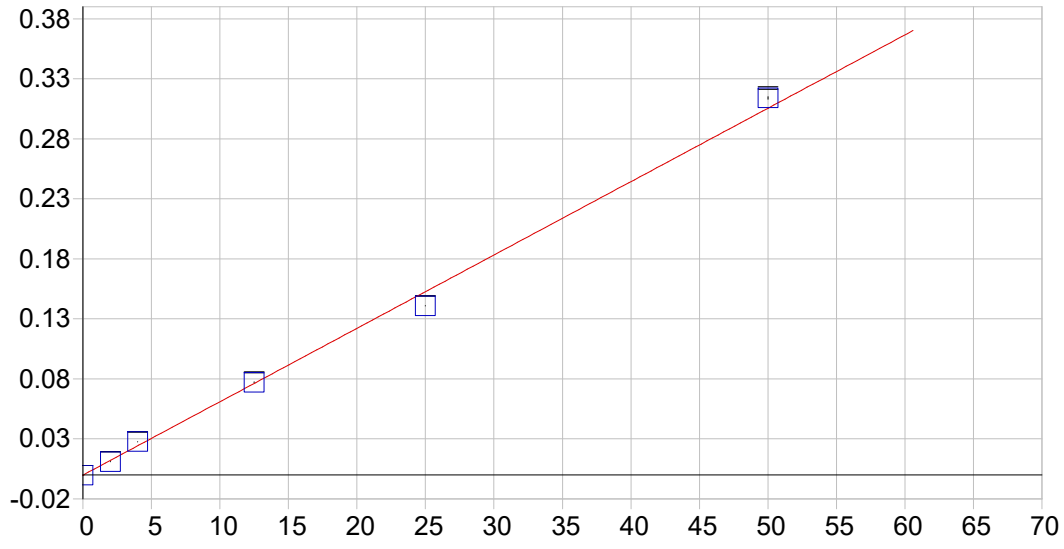
Zn 213.856 {158}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012674	Re-Slope:	1.000000
A1 (Gain):	3.203186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998986	Status:	OK.
Std Error of Est:	0.003411		
Predicted MDL:	0.000252		
Predicted MQL:	0.000840		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01267	.001	1
S1	.04000	.03611	-.004	-9.74	.12922	.002	1
S3	1.2500	1.2791	.029	2.33	4.1377	.006	1
S4	2.5000	2.3837	-.116	-4.65	7.7038	.011	1
S5	5.0000	5.0208	.021	.415	16.207	.018	1
S2	.40000	.47033	.070	17.6	1.5281	.007	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



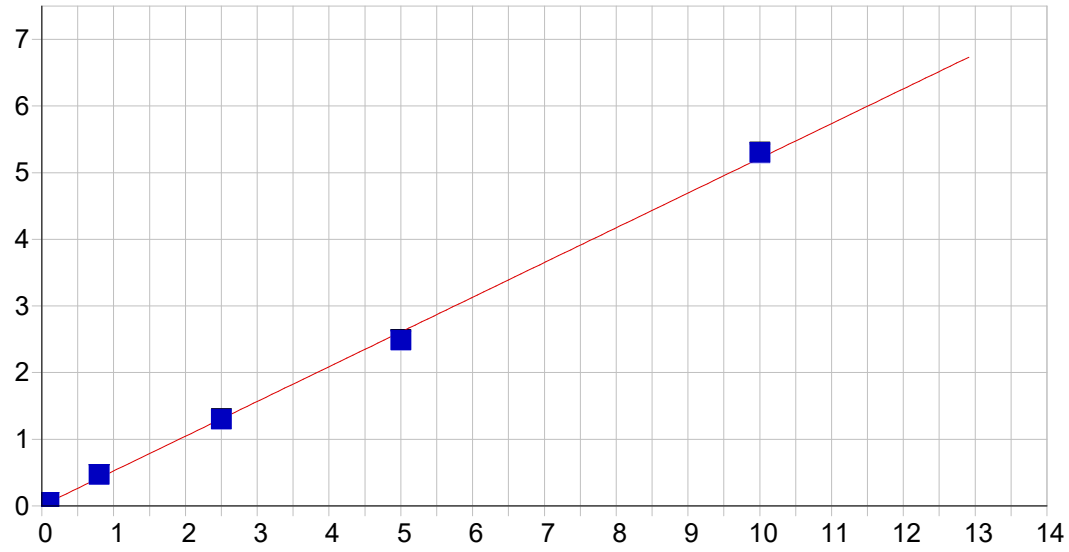
K 766.490 { 44}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000168	Re-Slope:	1.000000
A1 (Gain):	0.006112	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998518	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	0.037828		
Predicted MQL:	0.126092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00017	.000	1
S2	4.0000	4.5418	.542	13.5	.02759	.000	1
S3	12.500	12.645	.145	1.16	.07712	.000	1
S4	25.000	23.073	-1.93	-7.71	.14086	.000	1
S5	50.000	51.409	1.41	2.82	.31405	.001	1
S1	2.0000	1.8313	-.169	-8.44	.01103	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



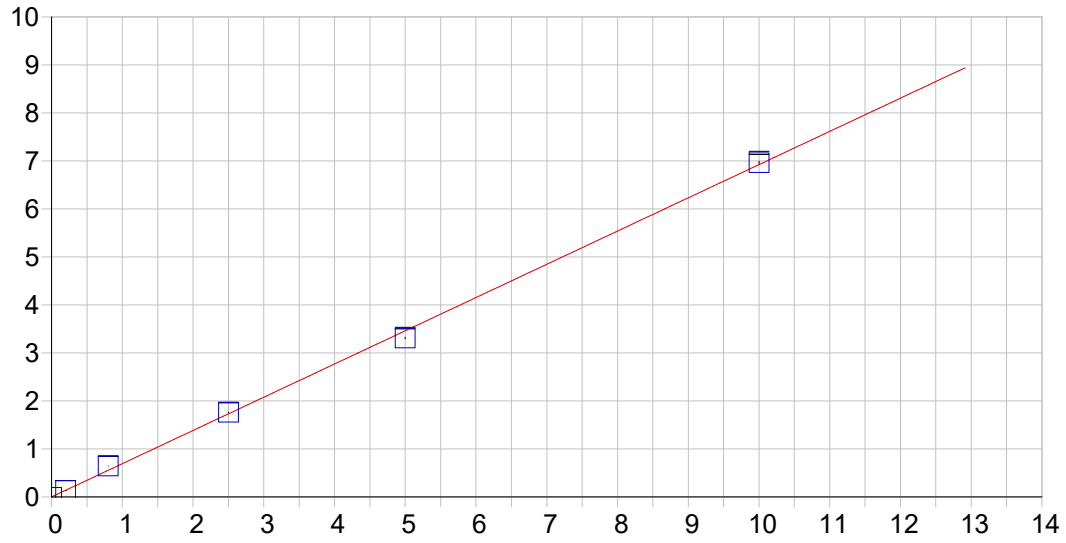
B 249.678 {135}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003446	Re-Slope:	1.000000
A1 (Gain):	0.521201	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999333	Status:	OK.
Std Error of Est:	0.000998		
Predicted MDL:	0.000684		
Predicted MQL:	0.002279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00344	.000	1
S1	.10000	.09779	-.002	-2.21	.05419	.001	1
S3	2.5000	2.4862	-.014	-.553	1.2967	.009	1
S4	5.0000	4.7638	-.236	-4.72	2.4812	.008	1
S5	10.000	10.160	.160	1.60	5.2887	.014	1
S2	.80000	.89225	.092	11.5	.46767	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



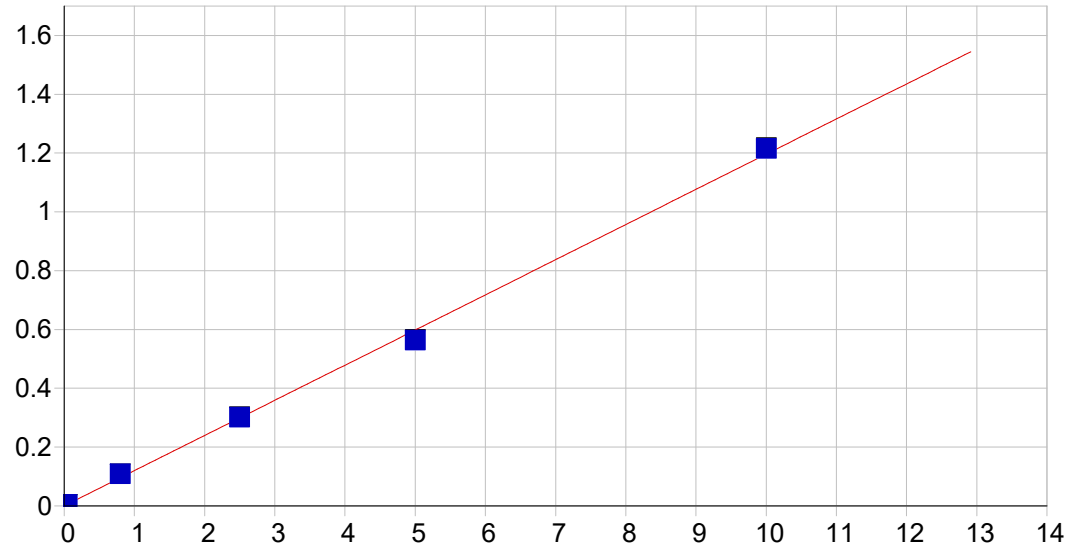
Mo 202.030 {467}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000460	Re-Slope:	1.000000
A1 (Gain):	0.692120	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999146	Status:	OK.
Std Error of Est:	0.002131		
Predicted MDL:	0.000289		
Predicted MQL:	0.000964		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00044	.000	1
S1	.20000	.19362	-.006	-3.19	.13447	.001	1
S3	2.5000	2.5448	.045	1.79	1.7618	.006	1
S4	5.0000	4.7800	-.220	-4.40	3.3088	.017	1
S5	10.000	10.053	.053	.529	6.9583	.032	1
S2	.80000	.92862	.129	16.1	.64317	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



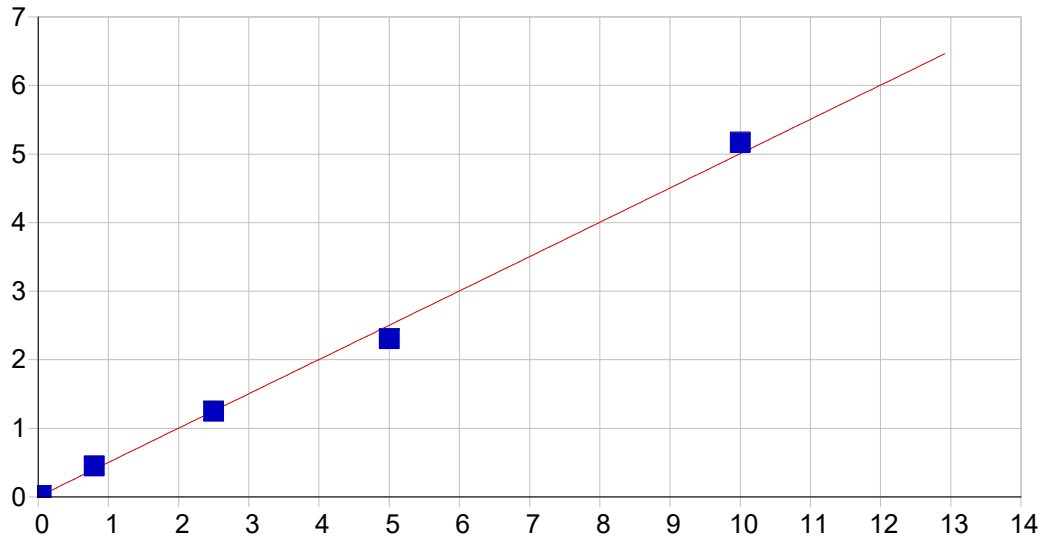
Sn 189.989 {478}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000267	Re-Slope:	1.000000
A1 (Gain):	0.119586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999073	Status:	OK.
Std Error of Est:	0.000171		
Predicted MDL:	0.000836		
Predicted MQL:	0.002788		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00027	.000	1
S1	.04000	.03798	-.002	-5.05	.00480	.000	1
S3	2.5000	2.5231	.023	.924	.30169	.001	1
S4	5.0000	4.7103	-.290	-5.79	.56294	.002	1
S5	10.000	10.162	.162	1.62	1.2143	.002	1
S2	.80000	.90682	.107	13.4	.10861	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



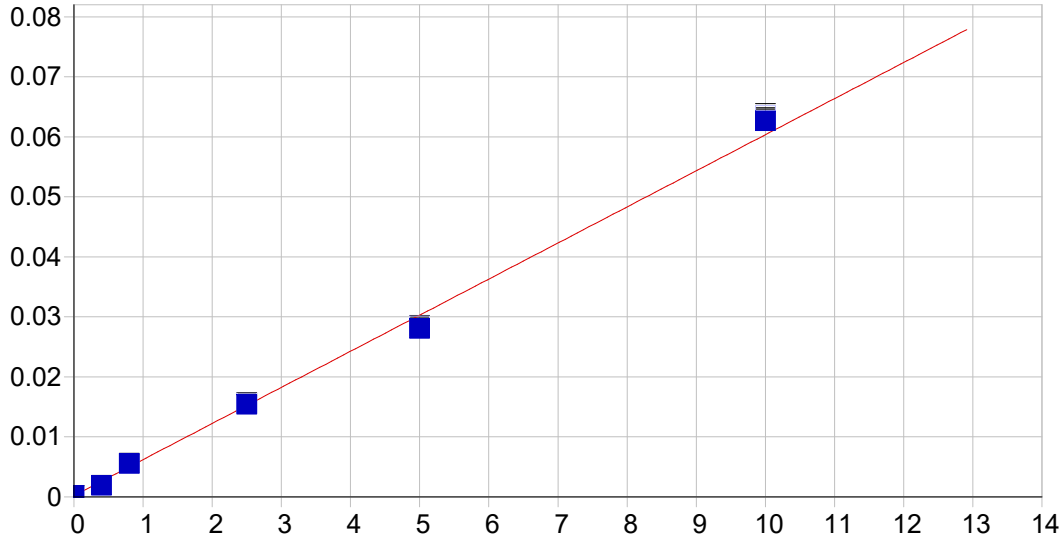
Ti 336.121 {100}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002386	Re-Slope:	1.000000
A1 (Gain):	0.500256	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998544	Status:	OK.
Std Error of Est:	0.000896		
Predicted MDL:	0.000783		
Predicted MQL:	0.002609		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00239	.000	1
S1	.04000	.03805	-.002	-4.87	.02141	.000	1
S3	2.5000	2.4858	-.014	-.568	1.2455	.003	1
S4	5.0000	4.6003	-.400	-7.99	2.3028	.004	1
S5	10.000	10.322	.322	3.22	5.1643	.008	1
S2	.80000	.89370	.094	11.7	.44932	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



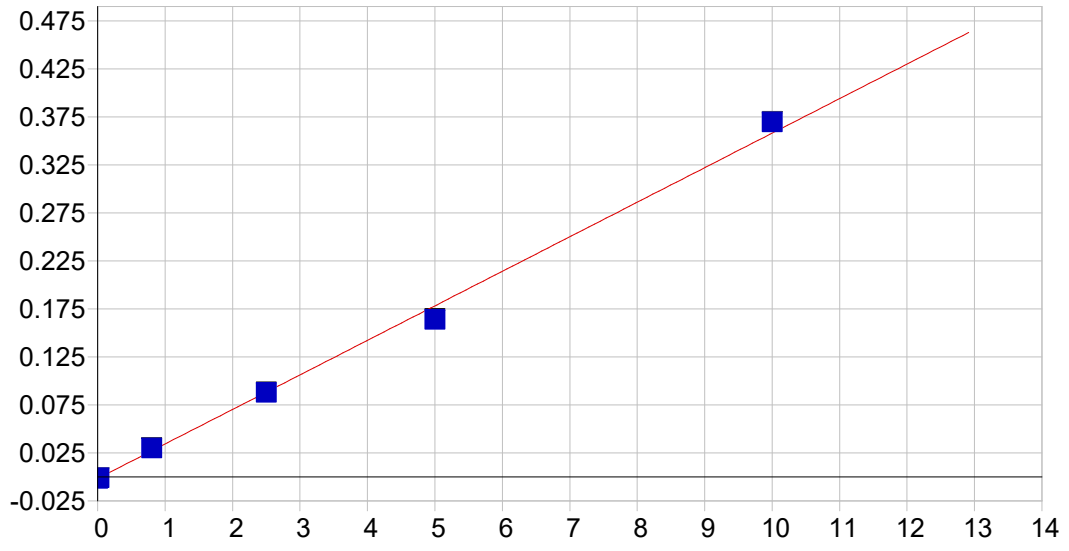
Si 288.158 {117}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000209	Re-Slope:	1.000000
A1 (Gain):	0.006014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997737	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.008193		
Predicted MQL:	0.027308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	.00021	.000	1
S1	.40000	.28011	-.120	-30.0	.00190	.000	1
S3	2.5000	2.5276	.028	1.10	.01563	.000	1
S4	5.0000	4.6263	-.374	-7.47	.02848	.000	1
S5	10.000	10.381	.381	3.81	.06354	.000	1
S2	.80000	.88342	.083	10.4	.00559	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



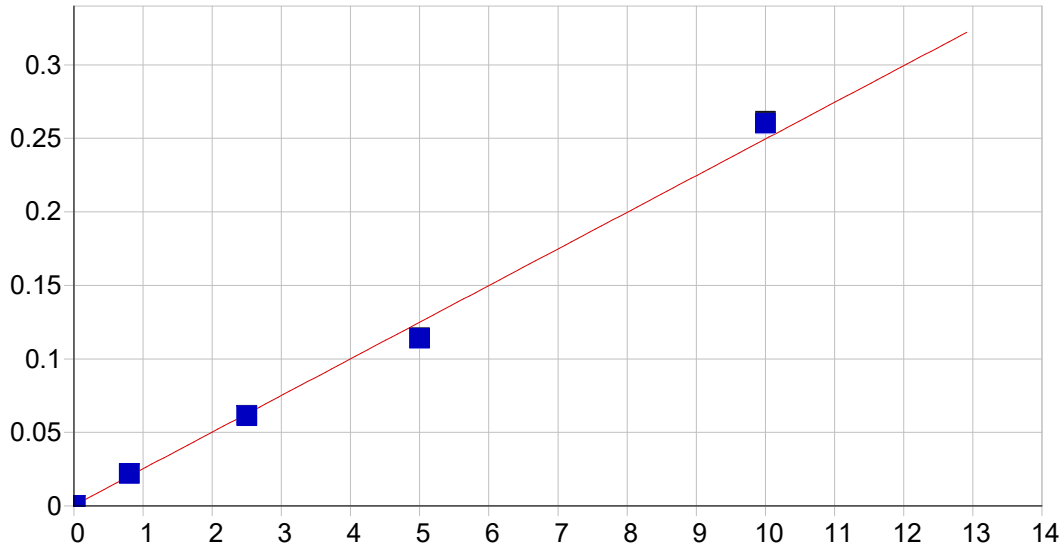
P 177.495 {490}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001694	Re-Slope:	1.000000
A1 (Gain):	0.035978	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998619	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.002614		
Predicted MQL:	0.008714		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00169	.000	1
S1	.02000	.01971	-.000	-1.44	-.00098	.000	1
S3	2.5000	2.4907	-.009	-.372	.08790	.000	1
S4	5.0000	4.6038	-.396	-7.92	.16391	.001	1
S5	10.000	10.321	.321	3.21	.36958	.001	1
S2	.80000	.88454	.085	10.6	.03013	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



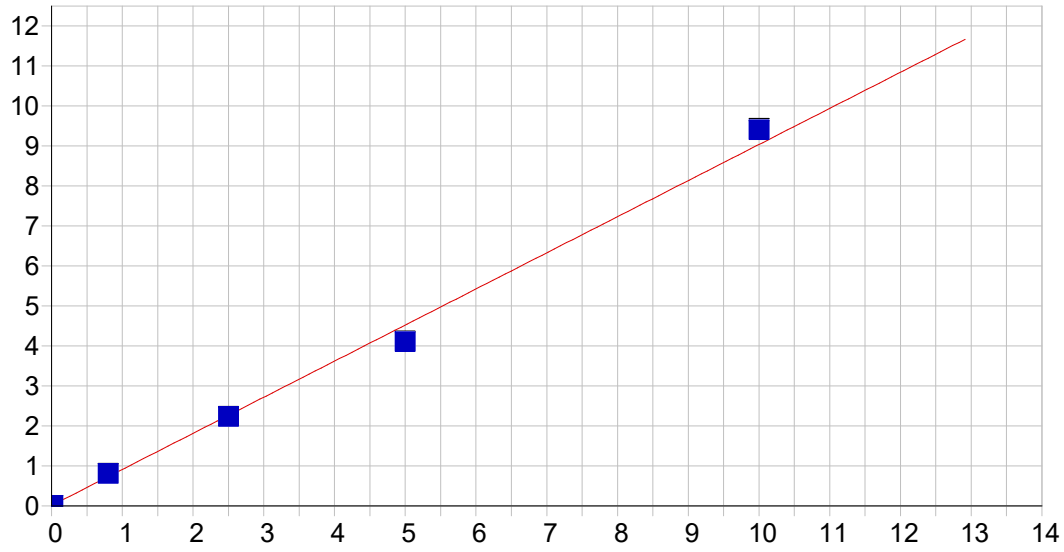
S 182.034 {485}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000348	Re-Slope:	1.000000
A1 (Gain):	0.024919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998199	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.003650		
Predicted MQL:	0.012166		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00035	.000	1
S1	.02000	.01428	-.006	-28.6	.00068	.000	1
S3	2.5000	2.4462	-.054	-2.15	.06114	.000	1
S4	5.0000	4.5592	-.441	-8.82	.11364	.000	1
S5	10.000	10.436	.436	4.36	.25976	.001	1
S2	.80000	.86422	.064	8.03	.02183	.000	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



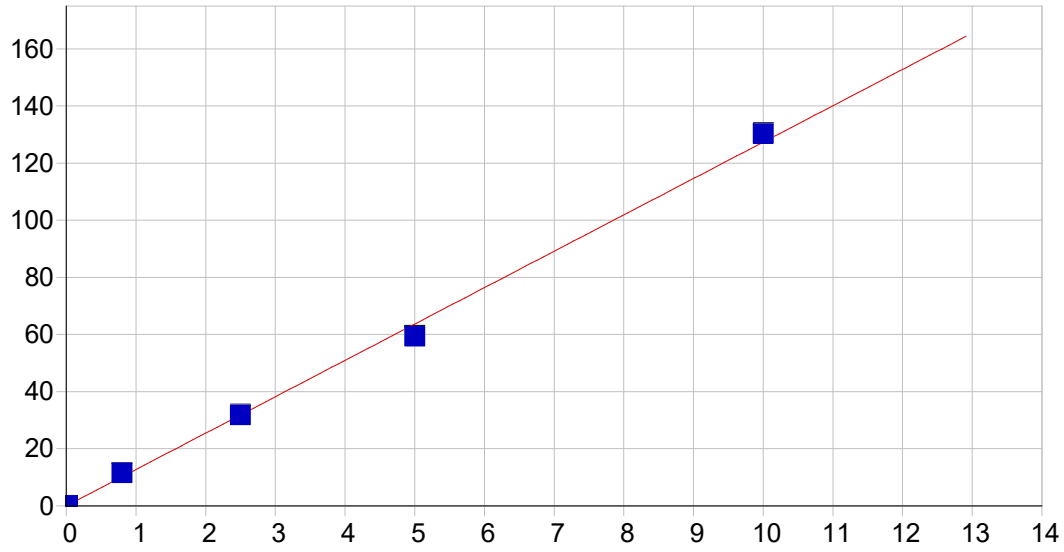
Li 670.784 { 50}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008387	Re-Slope:	1.000000
A1 (Gain):	0.902989	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998127	Status:	OK.
Std Error of Est:	0.001298		
Predicted MDL:	0.001251		
Predicted MQL:	0.004170		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00839	.001	1
S5	10.000	10.407	.407	4.07	9.4138	.026	1
S4	5.0000	4.5408	-.459	-9.18	4.1127	.010	1
S3	2.5000	2.4651	-.035	-1.40	2.2363	.002	1
S1	.02000	.01925	-.001	-3.73	.02610	.000	1
S2	.80000	.88803	.088	11.0	.81092	.001	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493



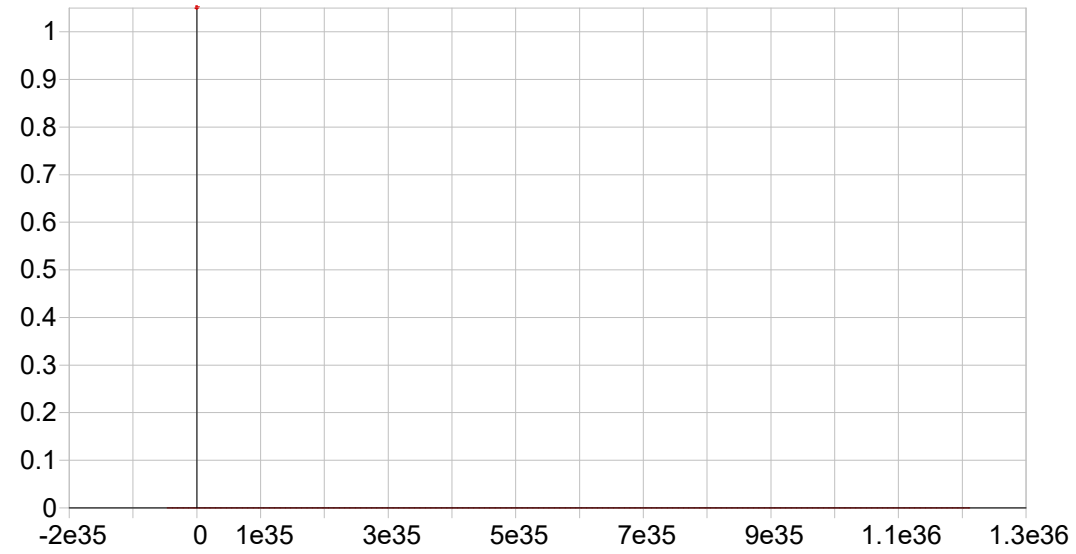
Sr 407.771 { 83}

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005354	Re-Slope:	1.000000
A1 (Gain):	12.734914	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998817	Status:	OK.
Std Error of Est:	0.014539		
Predicted MDL:	0.000053		
Predicted MQL:	0.000175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00535	.000	1
S1	.02000	.01875	-.001	-6.23	.24546	.000	1
S3	2.5000	2.5003	.000	.011	31.878	.250	1
S4	5.0000	4.6580	-.342	-6.84	59.388	.352	1
S5	10.000	10.235	.235	2.35	130.48	.323	1
S2	.80000	.90766	.108	13.5	11.575	.003	1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

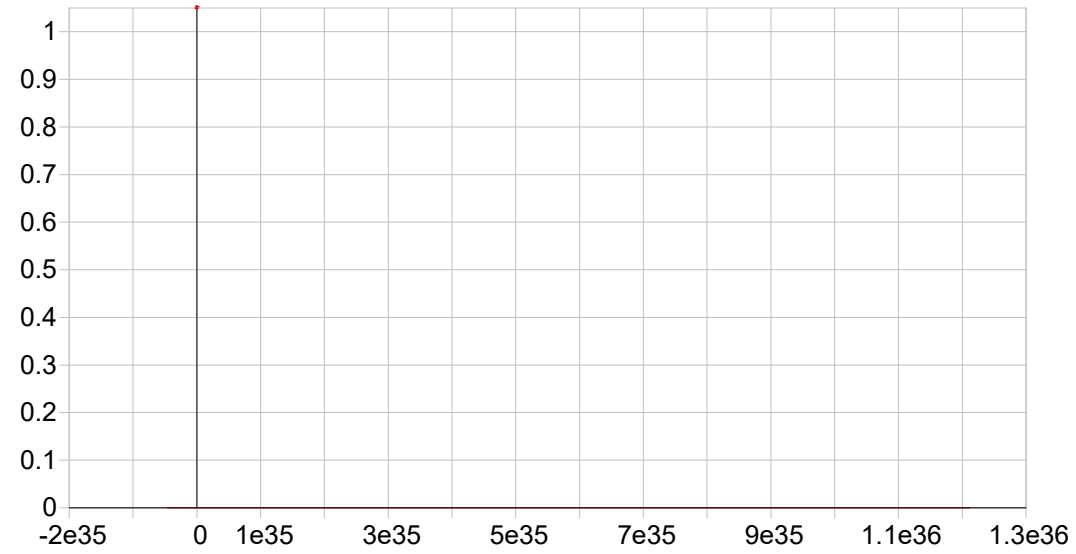


Y 224.306 {450}*

Date of Fit:	1/30/2025 11:46:34	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

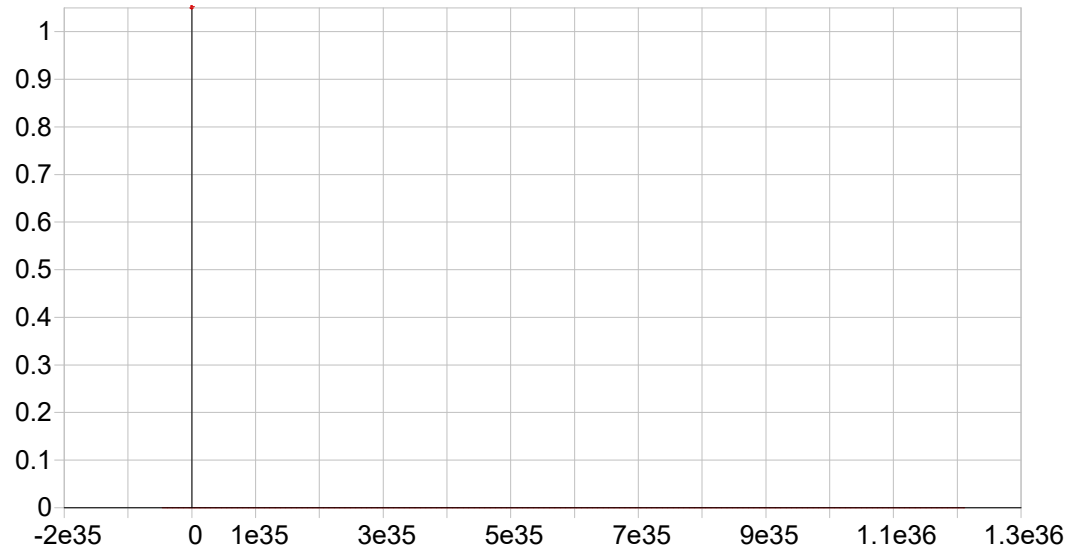
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



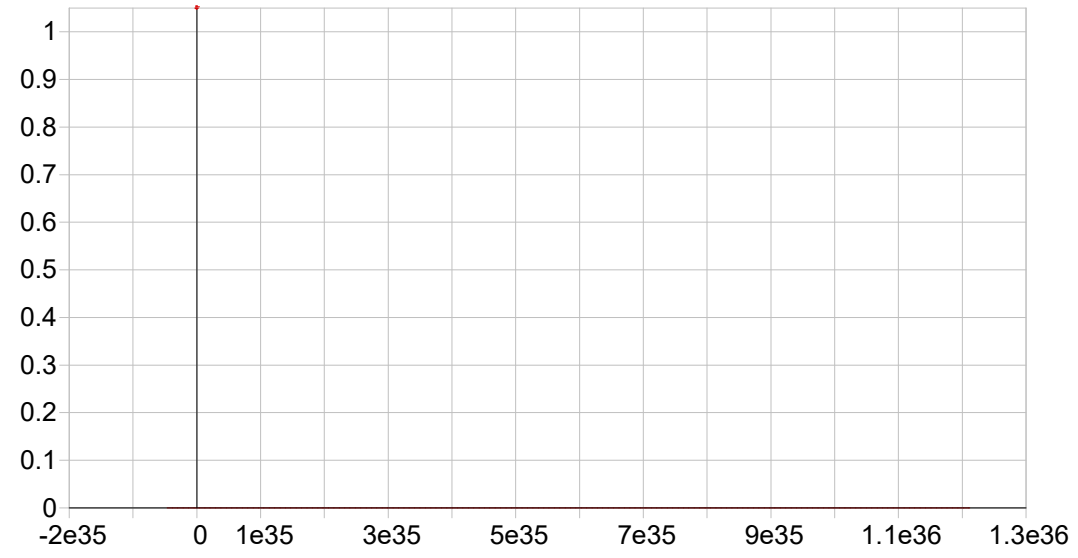
Y 371.030 { 91}*

Date of Fit:	<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:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

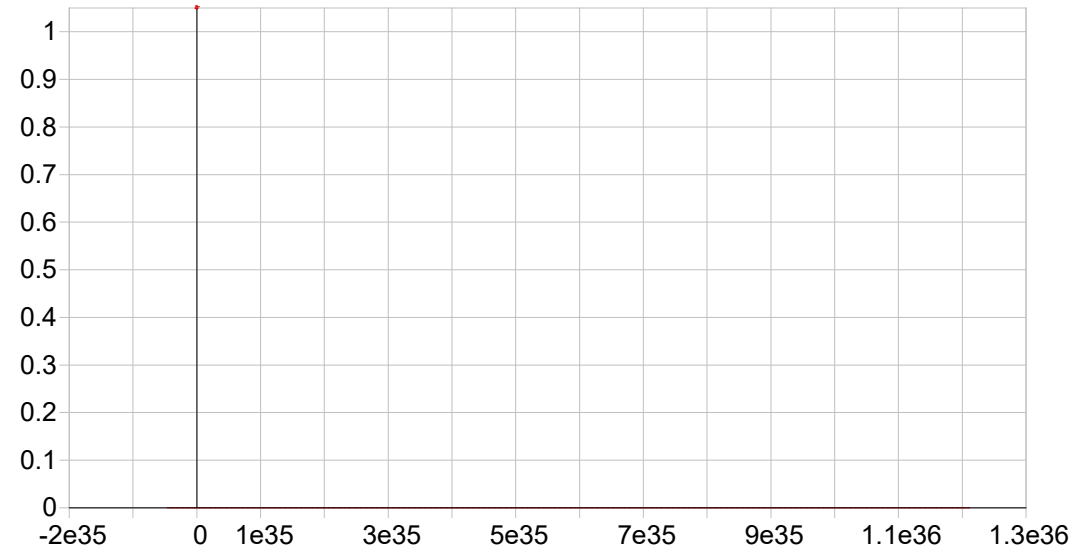


Y 224.306 {150}*

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
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

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

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:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S0 Acquired: 1/30/2025 11:07:59 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	-.00008	-.00006	.00038	.00078	.00091	.05685	-.00009
Stddev	.00017	.00010	.00011	.00005	.00017	.00084	.00164	.00020
%RSD	168.06	133.00	162.10	14.260	21.262	92.381	2.8865	216.75
#1	-.00001	-.00017	.00005	.00042	.00071	.00180	.05585	-.00009
#2	.00001	.00003	-.00015	.00032	.00097	.00083	.05875	-.00030
#3	-.00029	-.00008	-.00010	.00039	.00066	.00012	.05596	.00011

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	.00066	.00165	-.00003	.00020	-.00061	.00006	.00037	-.00021
Stddev	.00030	.00100	.00005	.00012	.00021	.00002	.00017	.00012
%RSD	45.847	60.235	146.19	60.158	35.071	27.196	46.079	59.174
#1	.00101	.00278	.00001	.00031	-.00085	.00006	.00056	-.00010
#2	.00050	.00129	-.00003	.00021	-.00055	.00005	.00023	-.00019
#3	.00047	.00089	-.00009	.00007	-.00044	.00008	.00032	-.00034

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	.00015	-.00048	.00410	.00021	.01267	-.00017	.00344	.00044
Stddev	.00015	.00004	.00030	.00033	.00061	.00015	.00039	.00013
%RSD	103.68	8.9450	7.2703	158.71	4.8467	90.246	11.335	29.068
#1	.00008	-.00053	.00384	.00048	.01302	-.00033	.00389	.00032
#2	.00032	-.00047	.00405	-.00016	.01196	-.00015	.00322	.00057
#3	.00004	-.00044	.00443	.00031	.01302	-.00002	.00322	.00044

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	.00027	.00239	.00021	-.00169	.00035	.00839	.00535
Stddev	.00002	.00016	.00001	.00003	.00007	.00061	.00023
%RSD	7.5498	6.6066	2.4748	1.5694	21.085	7.2419	4.3204
#1	.00028	.00238	.00021	-.00169	.00038	.00770	.00509
#2	.00025	.00223	.00021	-.00172	.00026	.00885	.00555
#3	.00027	.00255	.00021	-.00167	.00040	.00861	.00540

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S0 Acquired: 1/30/2025 11:07:59 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	3084.6	60108.	10327.	2243.2	4533.1
Stddev	7.3	96.	53.	10.6	15.0
%RSD	.23771	.15949	.51500	.47269	.33046
#1	3086.9	60100.	10387.	2237.1	4539.0
#2	3090.6	60017.	10307.	2237.1	4544.3
#3	3076.5	60208.	10286.	2255.5	4516.1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S1 Acquired: 1/30/2025 11:12:23 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.00092	.00238	.00258	.00177	.00840	.00795	.32286	.03005
Stddev	.00008	.00013	.00009	.00008	.00008	.00051	.00090	.00017
%RSD	9.1787	5.4789	3.6175	4.5257	.98484	6.4762	.27832	.58214
#1	.00086	.00251	.00261	.00185	.00838	.00834	.32390	.02985
#2	.00102	.00225	.00248	.00177	.00833	.00737	.32237	.03017
#3	.00089	.00239	.00266	.00169	.00849	.00814	.32232	.03014

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	.01411	.11612	.00213	.02590	.01474	.00044	.01352	.03943
Stddev	.00019	.00020	.00002	.00015	.00026	.00002	.00037	.00015
%RSD	1.3525	.17558	.91084	.58259	1.7708	5.1701	2.7414	.39179
#1	.01417	.11635	.00212	.02577	.01502	.00041	.01378	.03959
#2	.01389	.11599	.00212	.02586	.01451	.00044	.01309	.03928
#3	.01425	.11601	.00215	.02607	.01468	.00046	.01368	.03942

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	.02495	.00153	.05177	.00496	.12922	.01103	.05419	.13447
Stddev	.00003	.00008	.00028	.00028	.00158	.00017	.00052	.00086
%RSD	.11925	5.4188	.53321	5.7213	1.2224	1.5585	.96618	.63831
#1	.02492	.00161	.05189	.00469	.12824	.01120	.05406	.13392
#2	.02495	.00153	.05146	.00526	.12838	.01101	.05477	.13403
#3	.02498	.00145	.05197	.00495	.13105	.01086	.05375	.13546

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	.00480	.02141	.00190	-.00098	.00068	.02610	.24546
Stddev	.00002	.00022	.00002	.00004	.00004	.00037	.00027
%RSD	.51459	1.0395	1.0732	4.2109	5.2656	1.4125	.11117
#1	.00482	.02166	.00191	-.00095	.00066	.02573	.24574
#2	.00478	.02126	.00187	-.00103	.00072	.02610	.24520
#3	.00482	.02130	.00191	-.00097	.00067	.02646	.24543

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S1 Acquired: 1/30/2025 11:12:23 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	3056.8	62585.	10277.	2261.5	4470.6
Stddev	12.5	244.	53.	18.8	12.8
%RSD	.40981	.39051	.51966	.83081	.28595
#1	3062.0	62612.	10335.	2268.2	4475.9
#2	3065.8	62815.	10229.	2276.0	4479.9
#3	3042.5	62328.	10268.	2240.3	4456.1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S2 Acquired: 1/30/2025 11:16:47 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.04698	.05929	.22442	.06967	.15504	.13529	5.0597	.23674
Stddev	.00036	.00021	.00088	.00047	.00070	.00073	.0029	.00132
%RSD	.77689	.36020	.39136	.66842	.45300	.53913	.05733	.55756
#1	.04661	.05906	.22412	.06917	.15431	.13477	5.0574	.23815
#2	.04697	.05947	.22373	.06975	.15510	.13612	5.0630	.23552
#3	.04734	.05936	.22541	.07009	.15571	.13497	5.0587	.23656

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	1.0828	.27419	.04335	.41072	.16732	.00462	.30425	.08624
Stddev	.0062	.00068	.00006	.00235	.00081	.00002	.00037	.00026
%RSD	.57119	.24855	.13781	.57324	.48328	.52044	.12078	.30465
#1	1.0778	.27444	.04341	.40913	.16649	.00464	.30396	.08635
#2	1.0810	.27341	.04334	.40961	.16735	.00463	.30466	.08594
#3	1.0897	.27470	.04329	.41343	.16811	.00459	.30412	.08643

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	.29756	.04881	.12744	.05902	1.5281	.02759	.46767	.64317
Stddev	.00173	.00004	.00054	.00014	.0066	.00016	.00254	.00268
%RSD	.58233	.07625	.42051	.23360	.43442	.57682	.54336	.41624
#1	.29586	.04877	.12684	.05889	1.5288	.02742	.47050	.64029
#2	.29749	.04885	.12788	.05917	1.5212	.02763	.46559	.64365
#3	.29932	.04881	.12761	.05901	1.5345	.02773	.46692	.64558

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	.10861	.44932	.00559	.03013	.02183	.81092	11.575
Stddev	.00059	.00077	.00002	.00010	.00020	.00138	.003
%RSD	.54613	.17184	.38986	.31946	.89753	.17047	.02948
#1	.10824	.44938	.00557	.03002	.02163	.81007	11.576
#2	.10830	.45006	.00560	.03014	.02183	.81251	11.577
#3	.10930	.44852	.00561	.03021	.02203	.81016	11.571

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S2 Acquired: 1/30/2025 11:16:47 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	3002.7	58137.	10365.	2107.7	4383.1
Stddev	16.8	252.	12.	4.8	23.5
%RSD	.55995	.43383	.11814	.22910	.53599
#1	3019.8	58426.	10357.	2109.7	4402.1
#2	3002.0	58024.	10379.	2111.3	4390.5
#3	2986.2	57961.	10359.	2102.2	4356.8

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S3 Acquired: 1/30/2025 11:20:56 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.13081	.16127	.62292	.19339	.42958	.37845	14.046	.65878
Stddev	.00047	.00110	.00276	.00079	.00115	.00079	.014	.00383
%RSD	.35890	.68005	.44325	.41001	.26758	.20940	.09839	.58185
#1	.13087	.16170	.62127	.19272	.42902	.37874	14.054	.66264
#2	.13031	.16002	.62137	.19317	.42881	.37906	14.054	.65872
#3	.13125	.16208	.62610	.19427	.43090	.37755	14.030	.65497

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	3.0111	.74643	.12015	1.1366	.45881	.01275	.83746	.23991
Stddev	.0081	.00179	.00019	.0040	.00200	.00009	.00216	.00126
%RSD	.26962	.24020	.15986	.34809	.43668	.69972	.25779	.52684
#1	3.0033	.74749	.11994	1.1335	.45790	.01267	.83987	.24031
#2	3.0105	.74743	.12022	1.1352	.45743	.01272	.83680	.24092
#3	3.0195	.74436	.12030	1.1411	.46111	.01285	.83571	.23849

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	.81983	.13389	.34986	.16572	4.1377	.07712	1.2967	1.7618
Stddev	.00269	.00012	.00246	.00064	.0056	.00037	.0085	.0060
%RSD	.32822	.08770	.70273	.38668	.13514	.48390	.65632	.34242
#1	.81812	.13392	.34803	.16630	4.1395	.07669	1.3025	1.7596
#2	.81844	.13399	.34889	.16583	4.1421	.07729	1.3007	1.7571
#3	.82293	.13376	.35265	.16503	4.1314	.07738	1.2869	1.7686

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	.30169	1.2455	.01563	.08790	.06114	2.2363	31.878
Stddev	.00094	.0034	.00008	.00044	.00019	.0020	.250
%RSD	.31064	.27308	.53716	.49777	.31527	.09076	.78554
#1	.30070	1.2468	.01556	.08752	.06114	2.2355	32.147
#2	.30179	1.2480	.01562	.08780	.06095	2.2387	31.651
#3	.30257	1.2416	.01572	.08838	.06134	2.2349	31.837

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S3 Acquired: 1/30/2025 11:20:56 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2968.1	57390.	10281.	2062.1	4269.0
Stddev	7.6	59.	77.	1.5	10.5
%RSD	.25661	.10290	.74784	.07061	.24657
#1	2973.7	57371.	10207.	2060.9	4278.2
#2	2971.2	57456.	10275.	2063.7	4271.3
#3	2959.4	57342.	10361.	2061.8	4257.6

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S4 Acquired: 1/30/2025 11:25:05 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.24334	.30401	1.1549	.35779	.80358	.71121	25.562	1.2496
Stddev	.00108	.00048	.0035	.00203	.00404	.00086	.153	.0043
%RSD	.44224	.15855	.30390	.56634	.50268	.12031	.59671	.34205
#1	.24245	.30456	1.1533	.35660	.80116	.71028	25.694	1.2448
#2	.24304	.30370	1.1525	.35663	.80133	.71138	25.598	1.2531
#3	.24453	.30375	1.1589	.36013	.80824	.71196	25.395	1.2509

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	5.6207	1.3834	.22139	2.1229	.84305	.02302	1.5318	.44738
Stddev	.0187	.0045	.00050	.0078	.00504	.00006	.0076	.00104
%RSD	.33192	.32788	.22732	.36641	.59833	.25829	.49640	.23205
#1	5.6109	1.3783	.22123	2.1180	.83880	.02296	1.5230	.44683
#2	5.6089	1.3871	.22195	2.1188	.84174	.02302	1.5368	.44857
#3	5.6422	1.3848	.22098	2.1319	.84862	.02308	1.5355	.44672

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	1.5236	.25020	.63156	.31014	7.7038	.14086	2.4812	3.3088
Stddev	.0055	.00068	.00097	.00137	.0109	.00019	.0085	.0167
%RSD	.35934	.27059	.15295	.44194	.14186	.13442	.34246	.50406
#1	1.5202	.24983	.63213	.30865	7.7163	.14096	2.4719	3.2986
#2	1.5207	.25098	.63044	.31044	7.6961	.14064	2.4884	3.2997
#3	1.5299	.24979	.63211	.31134	7.6990	.14098	2.4834	3.3281

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	.56294	2.3028	.02848	.16391	.11364	4.1127	59.388
Stddev	.00167	.0044	.00011	.00085	.00042	.0096	.352
%RSD	.29706	.18928	.38093	.51606	.36683	.23310	.59221
#1	.56158	2.2978	.02836	.16315	.11341	4.1030	59.687
#2	.56243	2.3048	.02857	.16377	.11338	4.1131	59.001
#3	.56480	2.3058	.02851	.16482	.11412	4.1222	59.477

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S4 Acquired: 1/30/2025 11:25:05 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2964.4	56898.	10003.	2021.0	4229.9
Stddev	13.6	140.	32.	9.1	13.8
%RSD	.45858	.24663	.32321	.44944	.32659
#1	2973.6	56940.	10026.	2015.0	4237.5
#2	2970.7	56742.	9966.0	2016.5	4238.2
#3	2948.7	57013.	10016.	2031.4	4213.9

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S5 Acquired: 1/30/2025 11:29:18 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	.53249	.63649	2.4919	.78105	1.7370	1.5843	57.752	2.6581
Stddev	.00249	.00225	.0066	.00425	.0087	.0030	.118	.0050
%RSD	.46834	.35285	.26523	.54436	.50121	.18903	.20506	.18987
#1	.53066	.63765	2.4871	.77798	1.7299	1.5816	57.830	2.6635
#2	.53149	.63390	2.4891	.77925	1.7344	1.5875	57.616	2.6535
#3	.53533	.63792	2.4994	.78590	1.7467	1.5838	57.811	2.6573

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	12.178	3.0586	.45977	4.5981	1.7914	.05015	3.4128	.99770
Stddev	.037	.0015	.00087	.0170	.0090	.00019	.0067	.00155
%RSD	.30602	.05049	.18889	.36939	.50182	.38734	.19673	.15494
#1	12.140	3.0573	.45942	4.5807	1.7823	.04994	3.4097	.99914
#2	12.180	3.0603	.46076	4.5991	1.7917	.05033	3.4082	.99790
#3	12.215	3.0583	.45913	4.6146	1.8003	.05017	3.4205	.99606

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	3.2880	.52436	1.4031	.69150	16.207	.31405	5.2887	6.9583
Stddev	.0102	.00149	.0043	.00143	.018	.00116	.0135	.0323
%RSD	.31009	.28506	.30937	.20657	.11093	.36907	.25547	.46413
#1	3.2774	.52598	1.3985	.69034	16.186	.31271	5.3026	6.9337
#2	3.2887	.52407	1.4071	.69310	16.214	.31464	5.2757	6.9463
#3	3.2978	.52303	1.4038	.69108	16.220	.31479	5.2876	6.9949

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	1.2143	5.1643	.06354	.36958	.25976	9.4138	130.48
Stddev	.0024	.0082	.00035	.00075	.00134	.0261	.32
%RSD	.20207	.15856	.55247	.20257	.51530	.27740	.24789
#1	1.2126	5.1581	.06315	.36895	.25860	9.3966	130.22
#2	1.2131	5.1612	.06365	.36939	.25945	9.4010	130.37
#3	1.2171	5.1736	.06382	.37041	.26122	9.4438	130.84

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: S5 Acquired: 1/30/2025 11:29:18 Type: Cal
Method: NON EPA-6010-200.7(v2642) Mode: IR Corr. Factor: 1.000000
User: Kareem 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	2762.5	54879.	9491.4	1898.2	3840.6
Stddev	12.1	140.	8.4	7.8	12.4
%RSD	.43774	.25571	.08801	.41169	.32403
#1	2773.4	54949.	9489.6	1906.5	3852.9
#2	2764.5	54718.	9484.1	1891.1	3840.9
#3	2749.5	54971.	9500.5	1897.0	3828.1

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICV01 Acquired: 1/30/2025 11:49:10 Type: Unk
Method: NON EPA-6010-200.7(v2643) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038641	1.022227	.9998470	1.035430	1.001364	2.347596
Stddev	.005033	.014168	.0028933	.001744	.004486	.002339
%RSD	.4846060	1.385996	.2893735	.1684089	.4479438	.0996446
#1	1.039545	1.036244	.9973184	1.036704	.997544	2.345675
#2	1.033216	1.007912	.9992202	1.033443	1.000246	2.346912
#3	1.043160	1.022525	1.003002	1.036144	1.006303	2.350201

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4701312	.4719891	.5024009	9.281204	.5222635	.5039888
Stddev	.0005947	.0018382	.0011535	.018455	.0004312	.0008724
%RSD	.1264873	.3894528	.2296052	.1988433	.0825722	.1731099
#1	.4704870	.4705901	.5024079	9.264885	.5218466	.5036417
#2	.4704618	.4713062	.5012439	9.301232	.5227078	.5033434
#3	.4694447	.4740710	.5035509	9.277494	.5222363	.5049814

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5234620	9.560774	.5194174	5.449877	.5071629	.2521207
Stddev	.0015617	.019795	.0028797	.017736	.0009346	.0006415
%RSD	.2983343	.2070452	.5544170	.3254417	.1842714	.2544261
#1	.5234648	9.557056	.5171556	5.429477	.5073650	.2522114
#2	.5218989	9.582165	.5226593	5.461649	.5061438	.2514387
#3	.5250223	9.543102	.5184374	5.458504	.5079799	.2527120

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.503469	.4546023	1.007175	9.439926	F 2.221673	2.480742
Stddev	.032099	.0015466	.007380	.069087	.013173	.007010
%RSD	.3377645	.3402109	.7327472	.7318607	.5929488	.2825765
#1	9.529662	.4535571	1.001271	9.478448	2.209133	2.481097
#2	9.513085	.4563790	1.004806	9.481162	2.220487	2.473561
#3	9.467661	.4538709	1.015449	9.360166	2.235400	2.487567

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICV01 Acquired: 1/30/2025 11:49:10 Type: Unk
Method: NON EPA-6010-200.7(v2643) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	2.400506	F 2.248241	F 1.791569	F .0060555	F -.013065	F -.004678
Stddev	.005702	.005940	.005390	.0016939	.002316	.000621
%RSD	.2375463	.2641887	.3008769	27.97270	17.72294	13.27255
#1	2.401722	2.243340	1.785991	.0041973	-.010515	-.005009
#2	2.394293	2.254846	1.791965	.0064558	-.013644	-.003961
#3	2.405501	2.246536	1.796750	.0075133	-.015036	-.005062

Elem	Sr4077
Units	ppm
Avg	F -.008854
Stddev	.000040
%RSD	.4469803
#1	-.008894
#2	-.008853
#3	-.008815

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2910.577	57668.79	10635.31	1999.039	4277.889
Stddev	8.686	147.39	31.66	10.347	11.909
%RSD	.2984282	.2555765	.2977129	.5176092	.2783907
#1	2904.061	57688.65	10671.67	2010.306	4266.967
#2	2920.438	57512.49	10620.38	1996.850	4290.586
#3	2907.231	57805.25	10613.87	1989.962	4276.114

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LLICV01 Acquired: 1/30/2025 11:56:31 Type: Unk
Method: NON EPA-6010-200.7(v2644) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213378	.0390327	.0121909	.0191005	.0495333	.0891648
Stddev	.0008302	.0006763	.0000952	.0009878	.0004164	.0009879
%RSD	3.890657	1.732577	.7805640	5.171513	.8406911	1.107990
#1	.0221381	.0398079	.0122814	.0183106	.0500103	.0882742
#2	.0213947	.0385641	.0121997	.0187828	.0492420	.0902275
#3	.0204807	.0387260	.0120917	.0202080	.0493478	.0889927

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0838542	.0055500	.0055966	1.829647	.0097988	.0287006
Stddev	.0005464	.0000397	.0000770	.009495	.0002132	.0000993
%RSD	.6515770	.7150012	1.376432	.5189376	2.176053	.3458323
#1	.0838175	.0055714	.0056828	1.820689	.0100298	.0286903
#2	.0844181	.0055744	.0055346	1.839600	.0096094	.0288046
#3	.0833272	.0055042	.0055724	1.828652	.0097574	.0286069

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0216279	.1058998	.0180437	1.974820	.0386447	.0103864
Stddev	.0002003	.0017230	.0001910	.011105	.0001501	.0001050
%RSD	.9262915	1.627047	1.058736	.5623440	.3885284	1.011121
#1	.0216422	.1041228	.0178402	1.982087	.0385319	.0104116
#2	.0214208	.1075632	.0180715	1.980336	.0385872	.0102711
#3	.0218207	.1060133	.0182192	1.962036	.0388152	.0104765

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.917733	.0348479	.0383095	1.917520	.0934864	.2026015
Stddev	.007478	.0009972	.0003683	.026630	.0003050	.0004377
%RSD	.3899395	2.861439	.9614619	1.388750	.3262100	.2160659
#1	1.924224	.0343648	.0381928	1.887406	.0933008	.2026614
#2	1.909556	.0359946	.0380137	1.937963	.0938384	.2021369
#3	1.919420	.0341844	.0387221	1.927192	.0933201	.2030063

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LLICV01 Acquired: 1/30/2025 11:56:31 Type: Unk
Method: NON EPA-6010-200.7(v2644) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0378005	.0360737	.3229148	.0186322	F .0116099	F .0141384
Stddev	.0007351	.0004660	.0082096	.0020939	.0038098	.0010887
%RSD	1.944548	1.291722	2.542337	11.23799	32.81534	7.700250
#1	.0386442	.0357008	.3233240	.0163746	.0101514	.0140244
#2	.0374588	.0365961	.3145083	.0190114	.0159335	.0152796
#3	.0372985	.0359242	.3309122	.0205105	.0087448	.0131112

Elem	Sr4077
Units	ppm
Avg	.0175412
Stddev	.0000636
%RSD	.3627842
#1	.0174678
#2	.0175750
#3	.0175807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2924.671	57361.31	10784.97	1983.207	4376.960
Stddev	7.985	171.81	48.40	1.634	7.224
%RSD	.2730322	.2995232	.4487994	.0823809	.1650367
#1	2929.045	57172.27	10752.08	1984.114	4379.523
#2	2929.514	57507.95	10762.30	1984.186	4382.554
#3	2915.455	57403.71	10840.55	1981.321	4368.805

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICB01 Acquired: 1/30/2025 12:00:47 Type: Unk
Method: NON EPA-6010-200.7(v2644) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0001909	-.001549	-.000933	-.000061	-.002034	-.010238	-.002373
Stddev	.0014166	.000637	.000715	.000664	.000396	.002152	.000777
%RSD	742.0317	41.15623	76.66299	1086.629	19.49744	21.02160	32.72165
#1	.0005363	-.000814	-.001740	-.000082	-.002163	-.010634	-.002014
#2	-.001366	-.001950	-.000679	-.000715	-.002349	-.007915	-.001841
#3	.001403	-.001883	-.000379	.000613	-.001589	-.012165	-.003264

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000402	-.000334	-.016405	.0001386	-.000279	.0000576	-.018743
Stddev	.0000320	.000008	.004577	.0004077	.000049	.0002406	.004405
%RSD	79.55591	2.437705	27.89879	294.2056	17.39983	417.4859	23.50171
#1	.0000406	-.000343	-.021364	-.000257	-.000332	.0003082	-.014414
#2	.0000080	-.000327	-.012344	.000557	-.000268	.0000363	-.018594
#3	.0000720	-.000331	-.015506	.000116	-.000237	-.000172	-.023220

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000717	.0082517	-.000560	.0005585	-.029503	-.000976	-.003075
Stddev	.000177	.0046425	.000292	.0002989	.000963	.000733	.000391
%RSD	24.74178	56.26179	52.21093	53.52705	3.265155	75.15655	12.73129
#1	-.000697	.0029796	-.000274	.0008829	-.030293	-.001053	-.003063
#2	-.000550	.0117286	-.000548	.0004986	-.029787	-.000207	-.002689
#3	-.000903	.0100468	-.000858	.0002940	-.028430	-.001668	-.003472

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003719	-.001924	-.000531	-.000755	.0005120	-.014287	.0013460
Stddev	.0190443	.000216	.000267	.000403	.0002224	.004373	.0024645
%RSD	5121.119	11.24137	50.30360	53.46889	43.43431	30.60803	183.1067
#1	-.019200	-.001957	-.000225	-.000366	.0007352	-.016596	.0010017
#2	.001476	-.002122	-.000654	-.001171	.0005103	-.017022	.0039645
#3	.018840	-.001693	-.000715	-.000727	.0002904	-.009243	-.000928

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICB01 Acquired: 1/30/2025 12:00:47 Type: Unk
Method: NON EPA-6010-200.7(v2644) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006026	-.004744	-.000453
Stddev	.002425	.000882	.000054
%RSD	40.23711	18.58671	11.88491
#1	-.007799	-.003758	-.000512
#2	-.007017	-.005457	-.000406
#3	-.003263	-.005018	-.000441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.920	57253.34	10801.08	1979.426	4433.357
Stddev	.813	54.21	5.87	12.629	2.638
%RSD	.0277143	.0946832	.0543288	.6380103	.0595076
#1	2935.094	57270.65	10794.49	1965.225	4435.821
#2	2934.034	57192.58	10803.03	1983.657	4433.675
#3	2935.632	57296.77	10805.72	1989.396	4430.574

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CRI01 Acquired: 1/30/2025 12:05:56 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214677	.0399626	.0108915	.0184404	.0470920	.0848645
Stddev	.0016979	.0017698	.0012888	.0005590	.0011223	.0058768
%RSD	7.909122	4.428737	11.83302	3.031557	2.383171	6.924931
#1	.0227181	.0402502	.0102052	.0190824	.0461467	.0896827
#2	.0195347	.0415710	.0100910	.0180611	.0467970	.0783171
#3	.0221503	.0380666	.0123782	.0181777	.0483323	.0865938

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0900585	.0056065	.0055633	1.877699	.0099706	.0284817
Stddev	.0002887	.0000099	.0000560	.001574	.0002743	.0002124
%RSD	.3205153	.1762946	1.006668	.0838080	2.750978	.7455865
#1	.0903914	.0056124	.0055193	1.879330	.0097089	.0282406
#2	.0899060	.0056120	.0055442	1.877579	.0099468	.0286409
#3	.0898781	.0055951	.0056263	1.876189	.0102560	.0285636

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217848	.0815066	.0182064	2.011137	.0380558	.0110591
Stddev	.0002987	.0027698	.0002486	.022087	.0003316	.0001547
%RSD	1.371195	3.398226	1.365502	1.098235	.8714112	1.399158
#1	.0216047	.0786394	.0179611	2.009714	.0379362	.0111321
#2	.0221297	.0817131	.0184582	1.989796	.0384306	.0111638
#3	.0216202	.0841674	.0181997	2.033901	.0378006	.0108813

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.015089	.0346771	.0392611	2.028826	.0908420	.2051829
Stddev	.010914	.0002427	.0004407	.039789	.0004259	.0007292
%RSD	.5415933	.6998875	1.122421	1.961162	.4688774	.3553647
#1	2.015874	.0346692	.0395325	2.063471	.0912444	.2048311
#2	2.003805	.0349237	.0387526	1.985371	.0908858	.2046964
#3	2.025590	.0344385	.0394980	2.037635	.0903959	.2060213

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CRI01 Acquired: 1/30/2025 12:05:56 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0371213	.0371173	.3342037	.0208214	F .0126565	F .0135244
Stddev	.0005387	.0006780	.0071188	.0011596	.0031036	.0011388
%RSD	1.451126	1.826610	2.130066	5.569238	24.52143	8.420498
#1	.0366505	.0376477	.3297071	.0201808	.0124825	.0125044
#2	.0377088	.0373508	.3424113	.0221600	.0158435	.0147532
#3	.0370047	.0363535	.3304929	.0201236	.0096437	.0133157

Elem	Sr4077
Units	ppm
Avg	.0179952
Stddev	.0000541
%RSD	.3005683
#1	.0179757
#2	.0180563
#3	.0179536

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2979.765	56613.25	10730.06	1952.998	4525.637
Stddev	8.309	150.25	34.61	2.562	10.167
%RSD	.2788308	.2653933	.3225474	.1311943	.2246633
#1	2984.096	56553.21	10763.94	1955.790	4527.332
#2	2985.013	56784.23	10694.77	1952.449	4534.851
#3	2970.186	56502.30	10731.48	1950.755	4514.729

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSA01 Acquired: 1/30/2025 12:10:11 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003199	.0110846	.0066703	-.014437	-.003141	234.5447
Stddev	.001780	.0044428	.0006601	.005736	.001669	.8265
%RSD	55.65891	40.08077	9.896173	39.73228	53.13385	.3523770
#1	-.004138	.0070033	.0059788	-.008414	-.001802	234.0000
#2	-.004312	.0104334	.0072938	-.015062	-.002611	235.4957
#3	-.001145	.0158170	.0067383	-.019835	-.005011	234.1384

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019542	.0013624	-.000884	217.8879	.0559845	.0009217
Stddev	.0011828	.0000159	.000040	.8100	.0006134	.0003128
%RSD	60.52644	1.165571	4.551303	.3717289	1.095736	33.94106
#1	.0007403	.0013448	-.000889	217.7490	.0552827	.0007602
#2	.0020190	.0013757	-.000922	218.7584	.0564187	.0007227
#3	.0031033	.0013667	-.000842	217.1565	.0562522	.0012823

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0216648	92.69648	.0034975	233.7081	.0020746	-.000536
Stddev	.0013181	.28510	.0002688	.6442	.0001937	.000229
%RSD	6.083816	.3075663	7.686194	.2756602	9.336322	42.63731
#1	.0201431	92.78898	.0037813	233.3736	.0022726	-.000509
#2	.0224489	92.92385	.0032467	234.4508	.0018855	-.000777
#3	.0224024	92.37661	.0034644	233.3000	.0020657	-.000322

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238307	.0051076	.0010545	.1326165	.0335102	-.000738
Stddev	.0024756	.0017562	.0003738	.0166207	.0006293	.000177
%RSD	10.38808	34.38401	35.45111	12.53289	1.877900	23.96767
#1	.0261504	.0054032	.0009532	.1193417	.0341216	-.000905
#2	.0212243	.0066973	.0007418	.1512573	.0335445	-.000553
#3	.0241174	.0032224	.0014686	.1272506	.0328645	-.000757

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSA01 Acquired: 1/30/2025 12:10:11 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.004196	-.001373	-.001396	.0032325	F -.021104	F -.039289
Stddev	.000805	.000460	.002107	.0033634	.002080	.000547
%RSD	19.17563	33.51490	150.9632	104.0493	9.857202	1.392848
#1	-.005120	-.001382	-.000335	-.000261	-.018742	-.038847
#2	-.003815	-.000908	-.003822	.006448	-.022663	-.039118
#3	-.003653	-.001828	-.000030	.003510	-.021908	-.039901

Elem	Sr4077
Units	ppm
Avg	-.004666
Stddev	.000251
%RSD	5.371879
#1	-.004575
#2	-.004473
#3	-.004949

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2593.214	52220.85	10100.95	1790.111	3605.511
Stddev	3.219	29.76	24.35	5.817	9.831
%RSD	.1241326	.0569928	.2411156	.3249261	.2726629
#1	2596.931	52253.05	10091.17	1783.395	3616.020
#2	2591.397	52194.35	10083.00	1793.482	3596.539
#3	2591.314	52215.17	10128.67	1793.457	3603.974

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSAB01 Acquired: 1/30/2025 12:28:42 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1178742	.1035922	.0570805	.0367826	.6440420	242.8942
Stddev	.0024837	.0019350	.0022566	.0026368	.0026254	.8472
%RSD	2.107089	1.867923	3.953430	7.168604	.4076442	.3487913
#1	.1204026	.1026925	.0557958	.0346533	.6428772	243.5576
#2	.1154378	.1058132	.0596862	.0359625	.6422005	243.1851
#3	.1177823	.1022708	.0557596	.0397320	.6470483	241.9398

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4559168	.4746796	1.019038	224.1034	.5826876	.5135416
Stddev	.0026748	.0042584	.001177	.9768	.0014418	.0003457
%RSD	.5866851	.8971100	.1155285	.4358828	.2474358	.0673234
#1	.4579203	.4787369	1.020373	224.9953	.5816683	.5139402
#2	.4569508	.4750568	1.018596	224.2554	.5820574	.5133626
#3	.4528794	.4702452	1.018147	223.0595	.5843372	.5133222

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5261424	99.94383	.4484625	240.5351	1.015986	.2220095
Stddev	.0011586	.38543	.0020493	.9290	.000657	.0005166
%RSD	.2202131	.3856477	.4569569	.3862366	.0646723	.2327112
#1	.5274770	99.79720	.4505730	241.3212	1.016410	.2225915
#2	.5255563	99.65324	.4483341	240.7742	1.016318	.2216053
#3	.5253939	100.3811	.4464804	239.5099	1.015229	.2218316

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071280	.4633672	1.078107	.1085428	.9678023	1.117590
Stddev	.0111203	.0022638	.003030	.0402153	.0070158	.001641
%RSD	156.0101	.4885451	.2810460	37.05016	.7249254	.1468437
#1	.0090943	.4652977	1.078248	.0750642	.9745783	1.119477
#2	-.004844	.4639283	1.075009	.0974136	.9682597	1.116804
#3	.017134	.4608757	1.081064	.1531507	.9605690	1.116491

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSAB01 Acquired: 1/30/2025 12:28:42 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	1.084430	.9702646	.8827356	F .0089645	F -.023217	F -.040326
Stddev	.001539	.0028575	.0129504	.0041236	.002672	.001097
%RSD	.1419503	.2945083	1.467075	45.99963	11.50952	2.719907
#1	1.085703	.9720905	.8777811	.0130782	-.021558	-.040301
#2	1.082719	.9717318	.8974318	.0089842	-.021793	-.041435
#3	1.084867	.9669716	.8729939	.0048310	-.026299	-.039241

Elem	Sr4077
Units	ppm
Avg	F -.008784
Stddev	.000873
%RSD	9.942682
#1	-.007966
#2	-.008681
#3	-.009704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2536.945	49995.33	10208.55	1699.511	3554.787
Stddev	5.259	112.27	63.77	9.204	6.048
%RSD	.2073046	.2245559	.6246656	.5415418	.1701279
#1	2532.474	50082.28	10155.91	1708.900	3548.874
#2	2542.739	50035.12	10190.29	1699.128	3560.961
#3	2535.621	49868.58	10279.46	1690.505	3554.528

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSADLX20 Acquired: 1/30/2025 12:33:17 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000164	-.002538	-.000533	-.000094	-.002000	11.88625	-.000771
Stddev	.001125	.001292	.000444	.001994	.000644	.01735	.000629
%RSD	686.7787	50.89242	83.22755	2127.410	32.22139	.1459529	81.63176
#1	-.001438	-.001077	-.000064	.001957	-.001415	11.90623	-.000268
#2	.000694	-.003010	-.000589	-.000214	-.001894	11.87752	-.000569
#3	.000253	-.003527	-.000946	-.002024	-.002690	11.87501	-.001477

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001887	-.000480	11.48171	.0026384	-.000132	.0006534	4.807619
Stddev	.0000407	.000077	.02524	.0003542	.000274	.0002149	.021451
%RSD	21.58996	15.97231	.2197879	13.42291	207.7857	32.89665	.4461972
#1	.0002158	-.000487	11.50417	.0030463	-.000401	.0004718	4.783417
#2	.0002085	-.000400	11.48655	.0024095	.000146	.0005976	4.824286
#3	.0001419	-.000552	11.45440	.0024594	-.000140	.0008907	4.815154

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000324	11.87749	-.000221	.0004208	-.021981	.0002915	-.002928
Stddev	.000320	.03822	.000111	.0003373	.005420	.0005489	.000213
%RSD	98.98306	.3218258	50.40050	80.15171	24.65964	188.3289	7.290910
#1	-.000665	11.91917	-.000345	.0004200	-.027182	.0007334	-.002884
#2	-.000030	11.86926	-.000189	.0000839	-.016365	.0004639	-.002739
#3	-.000276	11.84406	-.000129	.0007585	-.022396	-.000323	-.003159

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0399772	-.000266	-.000493	-.001569	.0005307	-.011145	-.002402
Stddev	.0279946	.000170	.000162	.000529	.0009995	.003008	.004329
%RSD	70.02661	64.12350	32.97317	33.67621	188.3340	26.98899	180.1983
#1	.0130696	-.000075	-.000663	-.002049	.0003489	-.008626	-.006390
#2	.0689450	-.000402	-.000476	-.001003	-.000365	-.014475	-.003019
#3	.0379168	-.000320	-.000339	-.001656	.001609	-.010333	.002202

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSADLX20 Acquired: 1/30/2025 12:33:17 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009058	-.006534	-.000594
Stddev	.001176	.000567	.000020
%RSD	12.98565	8.679232	3.440089
#1	-.007832	-.005966	-.000581
#2	-.009166	-.007100	-.000618
#3	-.010177	-.006537	-.000585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2860.718	57297.78	10664.11	1935.764	4246.270
Stddev	3.893	208.57	72.57	10.694	9.510
%RSD	.1360974	.3640079	.6805048	.5524449	.2239595
#1	2861.711	57075.30	10580.37	1923.485	4253.345
#2	2864.018	57329.17	10703.36	1943.037	4250.006
#3	2856.424	57488.88	10708.61	1940.769	4235.460

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSABDLX20 Acquired: 1/30/2025 12:37:33 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0518762	.0526614	.0509015	.0548221	.0493879	11.92245	.0201424
Stddev	.0022758	.0003520	.0011663	.0026070	.0005365	.05016	.0001077
%RSD	4.387044	.6684565	2.291227	4.755382	1.086307	.4207399	.5346620
#1	.0543608	.0523818	.0505000	.0529068	.0496679	11.98023	.0201321
#2	.0513750	.0530567	.0499889	.0577910	.0497265	11.89709	.0202548
#3	.0498926	.0525455	.0522154	.0537685	.0487693	11.89003	.0200402

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247262	.0251658	11.89573	.0296490	.0250654	.0277446	5.297830
Stddev	.0000501	.0000778	.01228	.0001684	.0003606	.0006265	.026552
%RSD	.2027544	.3092889	.1032634	.5680412	1.438543	2.258208	.5011860
#1	.0247385	.0252029	11.90965	.0297358	.0254805	.0275373	5.317112
#2	.0246711	.0250764	11.89112	.0297562	.0248290	.0284485	5.267545
#3	.0247691	.0252181	11.88642	.0294548	.0248869	.0272479	5.308833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226930	12.04829	.0254401	.0134456	.4947027	.0227362	.0490889
Stddev	.0004046	.01920	.0001975	.0004092	.0019231	.0013257	.0003496
%RSD	1.783045	.1593545	.7764593	3.043236	.3887436	5.830860	.7122675
#1	.0223687	12.06992	.0256670	.0131304	.4967134	.0212308	.0487462
#2	.0225638	12.04167	.0253065	.0139080	.4945134	.0232485	.0490755
#3	.0231464	12.03328	.0253469	.0132984	.4928812	.0237294	.0494451

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5498973	.0481007	.0540594	.0506951	.0477993	.0359836	-.000058
Stddev	.0301302	.0001204	.0001568	.0000612	.0008882	.0014501	.003730
%RSD	5.479241	.2503177	.2900582	.1207222	1.858276	4.029768	6470.898
#1	.5788134	.0479752	.0542130	.0507593	.0469535	.0373868	-.004143
#2	.5521940	.0482152	.0540656	.0506374	.0477197	.0360731	.000803
#3	.5186844	.0481118	.0538995	.0506887	.0487247	.0344908	.003167

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: ICSABDLX20 Acquired: 1/30/2025 12:37:33 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007471	-.007491	-.001079
Stddev	.003641	.001464	.000061
%RSD	48.73935	19.54694	5.614207
#1	-.007875	-.009061	-.001052
#2	-.010892	-.007249	-.001037
#3	-.003644	-.006162	-.001149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.806	55882.08	10466.79	1932.676	4209.868
Stddev	4.391	200.98	14.71	11.176	6.671
%RSD	.1538542	.3596574	.1405782	.5782542	.1584534
#1	2851.832	55682.05	10452.77	1920.966	4207.488
#2	2858.838	56084.01	10465.50	1943.227	4217.402
#3	2850.749	55880.17	10482.11	1933.835	4204.714

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV01 Acquired: 1/30/2025 12:41:48 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.953386	5.084099	4.843121	5.006719	5.012849	9.494050	9.134105
Stddev	.025714	.054480	.021464	.034993	.027813	.007148	.038244
%RSD	.5191288	1.071577	.4431838	.6989285	.5548405	.0752915	.4186943
#1	4.948134	5.039949	4.825820	4.984249	5.007219	9.485885	9.092434
#2	4.930703	5.067365	4.836403	4.988870	4.988281	9.497086	9.142281
#3	4.981321	5.144983	4.867140	5.047038	5.043046	9.499179	9.167600

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2369345	2.421921	23.19487	.9877812	2.417222	1.245007	4.693773
Stddev	.0012431	.011121	.06322	.0013583	.011768	.005885	.051221
%RSD	.5246720	.4591654	.2725543	.1375120	.4868556	.4726812	1.091251
#1	.2357339	2.414242	23.22116	.9868321	2.409079	1.245558	4.742909
#2	.2368532	2.416848	23.24070	.9871743	2.411874	1.238866	4.697713
#3	.2382162	2.434674	23.12275	.9893371	2.430715	1.250597	4.640695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.262525	23.18093	2.423855	1.214779	24.06506	2.350334	2.458325
Stddev	.005019	.09440	.010261	.000488	.19205	.007367	.002595
%RSD	.2218422	.4072478	.4233408	.0401969	.7980610	.3134381	.1055745
#1	2.267886	23.11081	2.418445	1.215316	24.24431	2.355961	2.460776
#2	2.261751	23.14371	2.417431	1.214657	24.08852	2.353047	2.455606
#3	2.257938	23.28827	2.435689	1.214362	23.86236	2.341996	2.458594

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.71216	4.708680	4.971425	4.871035	4.600890	4.819142	5.020636
Stddev	.24811	.033759	.027001	.025900	.009938	.057450	.039580
%RSD	1.046338	.7169612	.5431158	.5317133	.2159944	1.192128	.7883549
#1	23.95749	4.673806	4.962942	4.851664	4.608397	4.868787	4.996357
#2	23.71764	4.711030	4.949684	4.860987	4.604653	4.832425	4.999242
#3	23.46136	4.741202	5.001648	4.900453	4.589620	4.756214	5.066309

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV01 Acquired: 1/30/2025 12:41:48 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.902716	4.568281	4.625575
Stddev	.029689	.007236	.048081
%RSD	.6055558	.1583946	1.039466
#1	4.881522	4.576010	4.594469
#2	4.889977	4.567166	4.680954
#3	4.936648	4.561668	4.601302

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2753.495	54667.12	9871.539	1864.443	3948.845
Stddev	10.244	233.65	49.708	2.976	13.379
%RSD	.3720337	.4274057	.5035480	.1595951	.3388189
#1	2753.739	54549.99	9928.931	1861.157	3956.334
#2	2763.615	54515.20	9843.513	1865.218	3956.803
#3	2743.131	54936.17	9842.172	1866.955	3933.398

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB01 Acquired: 1/30/2025 12:47:16 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000455	-.001713	-.000558	.0011151	-.002201	-.001432	-.001554
Stddev	.001430	.001991	.000523	.0019627	.001225	.002941	.000913
%RSD	314.1344	116.1934	93.70786	176.0080	55.66224	205.3426	58.71937
#1	.000948	-.003038	-.000379	.0015598	-.002601	.001853	-.000552
#2	-.000403	-.002679	-.001147	-.001032	-.003177	-.003821	-.001773
#3	-.001910	.000576	-.000148	.002817	-.000826	-.002328	-.002337

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000272	-.000246	-.012112	-.000251	-.000245	-.000217	-.012487
Stddev	.0000392	.000007	.001299	.000328	.000197	.000366	.005121
%RSD	144.4272	2.922678	10.72763	130.3135	80.46839	168.3456	41.01555
#1	.0000719	-.000252	-.010897	.000010	-.000052	.000204	-.015654
#2	-.000001	-.000247	-.013481	-.000619	-.000236	-.000451	-.006578
#3	.000011	-.000238	-.011958	-.000145	-.000445	-.000405	-.015228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000550	-.004199	-.000320	.0006721	-.022460	-.001793	-.002552
Stddev	.000098	.008906	.000180	.0004527	.011580	.000599	.000285
%RSD	17.83249	212.0999	56.02190	67.35380	51.55777	33.38941	11.16807
#1	-.000531	.004444	-.000467	.0002627	-.035062	-.001144	-.002672
#2	-.000657	-.013347	-.000120	.0011583	-.020029	-.002323	-.002227
#3	-.000463	-.003695	-.000374	.0005955	-.012289	-.001913	-.002758

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071960	.0022768	-.000317	-.001028	.0000057	-.005096	-.002052
Stddev	.0160898	.0003855	.000043	.000148	.0007170	.003454	.001072
%RSD	223.5928	16.93303	13.44440	14.38781	12554.87	67.77390	52.23855
#1	-.004287	.0018947	-.000312	-.000987	-.000602	-.001423	-.002892
#2	.025586	.0026656	-.000277	-.000905	.000797	-.008278	-.000845
#3	.000289	.0022701	-.000361	-.001192	-.000178	-.005586	-.002420

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB01 Acquired: 1/30/2025 12:47:16 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004975	-.004989	-.000356
Stddev	.001392	.000366	.000080
%RSD	27.97116	7.344246	22.56943
#1	-.006479	-.004702	-.000424
#2	-.004714	-.005402	-.000376
#3	-.003733	-.004864	-.000267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2847.122	56400.69	10555.79	1917.539	4300.196
Stddev	7.400	356.99	72.12	8.527	10.524
%RSD	.2599090	.6329501	.6831915	.4447023	.2447326
#1	2855.660	56646.61	10500.95	1919.169	4311.117
#2	2843.153	55991.23	10637.48	1908.315	4299.350
#3	2842.555	56564.23	10528.95	1925.135	4290.121

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01 Acquired: 1/30/2025 12:51:36 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002126	-.000453	.1695278	-.002976	-.002200	.0493516	.0672088
Stddev	.001211	.001453	.0006411	.002476	.000277	.0055752	.0009958
%RSD	56.97462	321.1438	.3781607	83.20800	12.57349	11.29680	1.481618
#1	-.002882	.001049	.1701406	-.005119	-.002448	.0522109	.0671660
#2	-.002767	-.001853	.1695810	-.003543	-.001902	.0529170	.0682253
#3	-.000729	-.000553	.1688617	-.000265	-.002252	.0429269	.0662351

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000554	.0007942	13.00729	.0052821	.0000393	.4777320	.7130650
Stddev	.0000399	.0000406	.12896	.0002458	.0000211	.0014291	.0021859
%RSD	72.00130	5.105850	.9914658	4.653632	53.79314	.2991379	.3065509
#1	.0000866	.0007757	13.14354	.0055650	.0000204	.4784727	.7146012
#2	.0000694	.0008407	12.99123	.0051208	.0000353	.4786388	.7140315
#3	.0000104	.0007663	12.88712	.0051605	.0000621	.4760847	.7105625

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142516	3.241187	.0117259	.0978265	25.51267	-.000739	2.060442
Stddev	.0002095	.031779	.0002171	.0008880	.11333	.000338	.016514
%RSD	1.470109	.9804612	1.851675	.9077419	.4442214	45.76382	.8014626
#1	.0144054	3.277125	.0118497	.0968018	25.38183	-.001094	2.042143
#2	.0143364	3.229641	.0118528	.0983083	25.57579	-.000422	2.064951
#3	.0140130	3.216796	.0114752	.0983696	25.58039	-.000700	2.074234

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.765675	.1451247	-.000058	-.000076	.0022325	8.644459	3.038658
Stddev	.006106	.0006795	.000263	.001118	.0002984	.061329	.015818
%RSD	.1621506	.4681991	453.5153	1480.515	13.36724	.7094564	.5205570
#1	3.760328	.1454744	-.000207	-.001092	.0018988	8.576553	3.055750
#2	3.764369	.1455581	.000246	.001122	.0023248	8.661010	3.035691
#3	3.772329	.1443416	-.000213	-.000256	.0024737	8.695814	3.024534

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01 Acquired: 1/30/2025 12:51:36 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.120077	-.009916	.0206578
Stddev	.001771	.000244	.0002275
%RSD	.0567530	2.460894	1.101111
#1	3.120624	-.009812	.0209162
#2	3.118097	-.009741	.0205694
#3	3.121509	-.010194	.0204878

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2903.841	57424.92	10927.24	1948.970	4374.427
Stddev	7.012	494.63	51.37	8.604	2.756
%RSD	.2414765	.8613592	.4701080	.4414774	.0630094
#1	2904.489	57995.88	10875.90	1957.160	4373.536
#2	2896.527	57152.36	10927.19	1949.746	4372.226
#3	2910.506	57126.52	10978.64	1940.004	4377.519

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01DUP Acquired: 1/30/2025 12:55:49 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004231	-.001145	.1704229	-.001564	-.003094	.0820761	.0726908
Stddev	.002862	.000088	.0016969	.000553	.001025	.0154132	.0012299
%RSD	67.63856	7.695337	.9957206	35.32586	33.11837	18.77915	1.691977
#1	-.001261	-.001209	.1723490	-.001141	-.003954	.0737334	.0736776
#2	-.006971	-.001181	.1691479	-.001362	-.003369	.0998624	.0730819
#3	-.004460	-.001044	.1697718	-.002189	-.001960	.0726325	.0713129

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000608	.0007567	13.21515	.0055831	-.000073	.4826757	.7448183
Stddev	.0000441	.0000656	.12375	.0004169	.000213	.0007183	.0081541
%RSD	72.55998	8.674926	.9364049	7.467071	290.7144	.1488252	1.094782
#1	.0000182	.0006832	13.20182	.0051017	.000052	.4818561	.7477781
#2	.0000579	.0008095	13.34502	.0058266	.000048	.4829750	.7355976
#3	.0001063	.0007775	13.09861	.0058209	-.000320	.4831960	.7510792

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138761	3.295684	.0120168	.1004544	26.92031	-.001857	2.090410
Stddev	.0001319	.036733	.0003330	.0017778	.28396	.002045	.014829
%RSD	.9507667	1.114579	2.770948	1.769780	1.054816	110.1410	.7093882
#1	.0139922	3.266903	.0118397	.1025072	26.65695	-.003594	2.074412
#2	.0139034	3.337057	.0124009	.0994123	26.88285	-.002375	2.103695
#3	.0137326	3.283092	.0118097	.0994437	27.22115	.000398	2.093123

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.974885	.1416256	-.000205	.0000348	.0057663	9.061977	3.001578
Stddev	.047803	.0015736	.000083	.0003502	.0015772	.060801	.010868
%RSD	1.202615	1.111080	40.65689	1005.358	27.35201	.6709475	.3620879
#1	3.933942	.1410402	-.000144	-.000163	.0047342	8.998425	2.990650
#2	3.963296	.1434080	-.000171	-.000171	.0075818	9.067913	3.012385
#3	4.027416	.1404287	-.000300	.000439	.0049829	9.119592	3.001698

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01DUP Acquired: 1/30/2025 12:55:49 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.110583	-.008892	.0212562
Stddev	.012853	.000162	.0002190
%RSD	.4132010	1.825287	1.030296
#1	3.096155	-.008707	.0212228
#2	3.120807	-.009010	.0214900
#3	3.114788	-.008959	.0210558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.935	57024.05	11087.07	1914.955	4374.704
Stddev	1.313	337.31	130.38	17.239	6.452
%RSD	.0455695	.5915216	1.175970	.9002468	.1474737
#1	2882.445	57399.14	11081.48	1931.488	4378.741
#2	2880.305	56927.37	10959.57	1897.087	4378.107
#3	2880.057	56745.64	11220.15	1916.291	4367.263

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01LX5 Acquired: 1/30/2025 13:00:02 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001192	.0001226	.0341256	-.002039	-.003134	.0060144	.0121823
Stddev	.000752	.0008995	.0005270	.000604	.001847	.0078934	.0010501
%RSD	63.11180	733.9707	1.544291	29.62781	58.93670	131.2401	8.620019
#1	-.001870	.0001997	.0342540	-.001699	-.001920	-.003099	.0133779
#2	-.001324	.0009811	.0345765	-.002737	-.002223	.010442	.0114094
#3	-.000383	-.000813	.0335463	-.001682	-.005260	.010700	.0117596

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000699	-.000034	2.616094	.0011267	-.000237	.0982587	.1294072
Stddev	.0000141	.000013	.001814	.0000996	.000035	.0005726	.0020589
%RSD	20.13373	37.06003	.0693244	8.837626	14.85207	.5827594	1.590997
#1	.0000556	-.000048	2.615698	.0011423	-.000238	.0987566	.1297349
#2	.0000838	-.000023	2.614511	.0010202	-.000272	.0976330	.1272042
#3	.0000703	-.000031	2.618072	.0012175	-.000201	.0983866	.1312826

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020637	.6561538	.0021234	.0203825	4.988722	-.002033	.4127485
Stddev	.0002839	.0143827	.0000554	.0004920	.012493	.000507	.0014833
%RSD	13.75671	2.191969	2.610063	2.414050	.2504197	24.93300	.3593785
#1	.0023536	.6720432	.0021775	.0209309	4.983777	-.002107	.4123237
#2	.0017863	.6440249	.0020668	.0199797	4.979459	-.001493	.4115239
#3	.0020512	.6523933	.0021258	.0202368	5.002931	-.002499	.4143978

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7748367	.0280098	-.000476	-.000704	.0020365	1.705341	.6197324
Stddev	.0247511	.0005538	.000151	.000462	.0006506	.004386	.0021163
%RSD	3.194363	1.977308	31.77589	65.62710	31.94636	.2571761	.3414803
#1	.7469864	.0283271	-.000462	-.001025	.0027751	1.700905	.6179304
#2	.7943196	.0283321	-.000333	-.000911	.0015483	1.705444	.6220628
#3	.7832041	.0273703	-.000634	-.000175	.0017863	1.709674	.6192040

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01LX5 Acquired: 1/30/2025 13:00:02 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6090907	-.007661	.0037816
Stddev	.0012613	.001093	.0000304
%RSD	.2070832	14.26757	.8029275
#1	.6081559	-.006407	.0037539
#2	.6105253	-.008164	.0037769
#3	.6085908	-.008411	.0038141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2857.507	56252.32	10575.27	1927.732	4303.562
Stddev	6.683	158.79	76.91	10.394	6.111
%RSD	.2338838	.2822826	.7273006	.5392033	.1419885
#1	2850.266	56159.91	10487.10	1921.222	4296.749
#2	2858.814	56435.67	10628.62	1939.720	4305.380
#3	2863.440	56161.38	10610.08	1922.256	4308.557

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01MS Acquired: 1/30/2025 13:04:18 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7871964	1.999085	1.034689	1.927281	.7994714	1.835342	.2384616
Stddev	.0034229	.011243	.001933	.002887	.0018898	.011603	.0027325
%RSD	.4348205	.5624312	.1868576	.1498109	.2363854	.6321821	1.145880
#1	.7836529	1.991835	1.035302	1.924127	.7978870	1.848189	.2408535
#2	.7904843	1.993384	1.032523	1.927923	.8015631	1.825626	.2354836
#3	.7874519	2.012037	1.036240	1.929794	.7989641	1.832212	.2390478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1774190	.1823726	13.81557	.3845461	.1836091	.7500992	3.615641
Stddev	.0009575	.0004777	.14030	.0049657	.0006572	.0025191	.041608
%RSD	.5396872	.2619309	1.015496	1.291302	.3579606	.3358405	1.150789
#1	.1783922	.1822742	13.95486	.3795415	.1832362	.7472254	3.573128
#2	.1764780	.1819519	13.67429	.3894719	.1832231	.7519261	3.656281
#3	.1773867	.1828919	13.81756	.3846249	.1843680	.7511461	3.617514

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1878206	4.965346	.4716358	.1642392	28.47814	.2671535	1.983242
Stddev	.0017590	.060416	.0011757	.0024142	.28316	.0022166	.031336
%RSD	.9365539	1.216751	.2492697	1.469919	.9943095	.8297103	1.580042
#1	.1896994	5.031071	.4715883	.1623560	28.17442	.2692655	1.956470
#2	.1862128	4.912229	.4704847	.1669608	28.73486	.2648453	2.017708
#3	.1875495	4.952739	.4728345	.1634008	28.52515	.2673497	1.975547

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.21363	.3903788	.3999531	.6613919	.1829911	9.342262	8.518012
Stddev	.16907	.0044365	.0012921	.0012824	.0017740	.097169	.019574
%RSD	1.279509	1.136458	.3230665	.1938935	.9694411	1.040107	.2297969
#1	13.05028	.3953620	.3985575	.6616965	.1849732	9.230743	8.520242
#2	13.38789	.3868585	.4001938	.6599847	.1815522	9.408725	8.497418
#3	13.20271	.3889161	.4011078	.6624947	.1824480	9.387317	8.536375

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01MS Acquired: 1/30/2025 13:04:18 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.086286	.1721242	.1918062
Stddev	.011875	.0016637	.0017221
%RSD	.3847761	.9665766	.8978285
#1	3.078939	.1736042	.1936306
#2	3.079933	.1703235	.1902089
#3	3.099986	.1724449	.1915790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.913	57407.12	10848.40	1958.487	4282.572
Stddev	10.870	552.51	106.12	25.269	16.206
%RSD	.3773172	.9624430	.9782100	1.290213	.3784272
#1	2892.715	58000.75	10739.54	1980.904	4297.459
#2	2878.711	56907.89	10951.54	1931.104	4284.948
#3	2871.312	57312.71	10854.13	1963.452	4265.309

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01MSD Acquired: 1/30/2025 13:08:17 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7966628	1.998153	1.035181	1.954798	.8097071	1.846041	.2386888
Stddev	.0019158	.009581	.001837	.003558	.0028512	.008971	.0008804
%RSD	.2404831	.4794888	.1774524	.1820166	.3521254	.4859615	.3688276
#1	.7975854	2.007327	1.036487	1.953604	.8104028	1.850717	.2380015
#2	.7979429	1.998922	1.035975	1.958799	.8121461	1.851707	.2396811
#3	.7944603	1.988211	1.033080	1.951990	.8065725	1.835697	.2383839

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1753526	.1823733	13.80213	.3869611	.1833537	.7544506	3.641401
Stddev	.0005610	.0006763	.03293	.0009400	.0006167	.0022345	.016929
%RSD	.3199220	.3708273	.2385639	.2429299	.3363246	.2961759	.4649089
#1	.1759449	.1829840	13.82188	.3861083	.1834185	.7557972	3.631530
#2	.1748292	.1824896	13.82040	.3879691	.1839355	.7556833	3.660949
#3	.1752838	.1816465	13.76412	.3868059	.1827072	.7518712	3.631725

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865731	4.921290	.4714547	.1651474	28.94403	.2656556	1.989816
Stddev	.0004838	.038648	.0017978	.0008498	.10435	.0038237	.002923
%RSD	.2593191	.7853168	.3813232	.5145690	.3605204	1.439344	.1469034
#1	.1863522	4.942973	.4728597	.1656920	28.82474	.2699817	1.986976
#2	.1871279	4.944228	.4720757	.1655819	29.01834	.2642568	1.992816
#3	.1862391	4.876670	.4694288	.1641682	28.98903	.2627283	1.989655

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.39545	.3869871	.4017106	.6616548	.1853485	9.465704	8.486553
Stddev	.04876	.0006768	.0011116	.0044432	.0005828	.021086	.036907
%RSD	.3639702	.1748767	.2767035	.6715252	.3144402	.2227644	.4348876
#1	13.34416	.3877233	.4024342	.6622541	.1846937	9.442207	8.498383
#2	13.44119	.3863921	.4022668	.6657680	.1858103	9.482978	8.516094
#3	13.40100	.3868460	.4004308	.6569424	.1855415	9.471928	8.445181

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01MSD Acquired: 1/30/2025 13:08:17 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.113744	.1715676	.1924401
Stddev	.017991	.0004623	.0001157
%RSD	.5777915	.2694621	.0601110
#1	3.116952	.1711993	.1924817
#2	3.129916	.1714172	.1925293
#3	3.094365	.1720864	.1923094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2852.191	57040.70	10936.89	1935.534	4252.481
Stddev	2.832	105.70	44.64	4.126	6.020
%RSD	.0992893	.1853039	.4081314	.2131762	.1415619
#1	2853.096	57061.04	10902.72	1938.216	4252.441
#2	2849.017	57134.75	10987.39	1937.602	4246.482
#3	2854.460	56926.31	10920.55	1930.782	4258.521

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01A Acquired: 1/30/2025 13:12:15 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7980219	2.022629	1.040171	1.961147	.8152310	1.841785	.2292295
Stddev	.0039927	.007030	.004892	.013154	.0032031	.019272	.0066523
%RSD	.5003305	.3475809	.4702890	.6707081	.3929121	1.046368	2.902012
#1	.8017990	2.030743	1.045573	1.976175	.8186889	1.821364	.2233962
#2	.7984228	2.018370	1.038901	1.951724	.8123653	1.859654	.2278180
#3	.7938437	2.018773	1.036040	1.955542	.8146388	1.844337	.2364742

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1792137	.1832357	13.50427	.3902551	.1843925	.7585191	3.503273
Stddev	.0008490	.0005841	.09868	.0008990	.0007504	.0032498	.018535
%RSD	.4737512	.3187576	.7307242	.2303733	.4069532	.4284428	.5290722
#1	.1782373	.1838956	13.40254	.3903873	.1852550	.7622693	3.483225
#2	.1797783	.1830263	13.59958	.3892973	.1840338	.7567577	3.519785
#3	.1796254	.1827852	13.51068	.3910807	.1838889	.7565301	3.506811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1808542	4.814110	.4743262	.1648518	27.54603	.2607279	2.006434
Stddev	.0023024	.041321	.0022482	.0007847	.16679	.0024099	.001915
%RSD	1.273088	.8583219	.4739690	.4759892	.6054933	.9243079	.0954484
#1	.1782607	4.769101	.4769190	.1639474	27.37617	.2582603	2.004223
#2	.1826575	4.850327	.4729203	.1652568	27.70957	.2630757	2.007526
#3	.1816444	4.822902	.4731391	.1653512	27.55234	.2608478	2.007554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.69020	.3935295	.4068644	.6639980	.1798543	9.150591	8.396077
Stddev	.08521	.0019204	.0024144	.0037988	.0026085	.048080	.037968
%RSD	.6714688	.4879909	.5934048	.5721029	1.450335	.5254305	.4522096
#1	12.59452	.3914824	.4094869	.6683054	.1768441	9.101018	8.439270
#2	12.75791	.3952913	.4063722	.6625621	.1814507	9.197024	8.380990
#3	12.71817	.3938146	.4047340	.6611265	.1812680	9.153731	8.367971

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1152-01A Acquired: 1/30/2025 13:12:15 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.099966	.1647444	.1863274
Stddev	.020999	.0012394	.0019849
%RSD	.6774036	.7523345	1.065255
#1	3.124003	.1637323	.1841677
#2	3.090714	.1661267	.1880717
#3	3.085182	.1643741	.1867427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2840.852	56617.20	10676.14	1898.951	4258.312
Stddev	9.307	103.93	49.86	.747	12.994
%RSD	.3275978	.1835606	.4670498	.0393407	.3051426
#1	2830.453	56704.58	10733.71	1899.666	4244.377
#2	2848.398	56644.76	10647.90	1899.012	4270.097
#3	2843.706	56502.28	10646.80	1898.175	4260.461

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166190BL Acquired: 1/30/2025 13:16:13 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000909	-.001259	-.000616	.0019982	-.002686	-.010509	-.002264
Stddev	.003364	.002368	.000187	.0001217	.001275	.004004	.000732
%RSD	370.0964	188.1474	30.43051	6.090712	47.45805	38.09874	32.34987
#1	.002419	-.000364	-.000790	.0020972	-.003822	-.006198	-.001569
#2	-.000838	-.003944	-.000417	.0020350	-.002927	-.011220	-.002193
#3	-.004308	.000532	-.000641	.0018623	-.001308	-.014111	-.003029

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000381	-.000249	-.015663	.0001154	-.000227	-.000019	-.018252
Stddev	.0000285	.000058	.003894	.0000536	.000043	.000143	.005510
%RSD	74.81838	23.41334	24.86266	46.43104	18.90050	769.9732	30.18869
#1	.0000091	-.000309	-.016409	.0001018	-.000179	-.000086	-.014023
#2	.0000391	-.000192	-.019131	.0000699	-.000239	-.000115	-.024483
#3	.0000661	-.000245	-.011450	.0001744	-.000262	.000145	-.016250

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000745	.0065977	-.000232	.0006683	-.032286	-.001595	-.003006
Stddev	.000134	.0032684	.000080	.0004867	.003266	.001125	.000056
%RSD	18.04685	49.53811	34.41927	72.82538	10.11509	70.51950	1.877723
#1	-.000892	.0054671	-.000324	.0012269	-.033178	-.000644	-.002941
#2	-.000713	.0040447	-.000177	.0004427	-.035013	-.001304	-.003045
#3	-.000629	.0102812	-.000195	.0003354	-.028667	-.002837	-.003032

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0376728	-.002404	-.000501	-.000392	.0004849	-.005546	.0003148
Stddev	.0205430	.000163	.000207	.000593	.0006736	.005352	.0020648
%RSD	54.53004	6.780241	41.31105	151.0549	138.9112	96.50865	655.9183
#1	.0305843	-.002383	-.000732	-.000819	.0009282	.000428	-.001619
#2	.0216128	-.002253	-.000334	-.000642	-.000290	-.007160	.002490
#3	.0608214	-.002577	-.000437	.000284	.000817	-.009905	.000073

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166190BL Acquired: 1/30/2025 13:16:13 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0047238	-.006170	-.000430
Stddev	.0064008	.000484	.000004
%RSD	135.5027	7.839407	.8604139
#1	.0121008	-.006609	-.000427
#2	.0014293	-.006252	-.000428
#3	.0006412	-.005651	-.000434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.343	55596.73	10616.19	1891.312	4286.188
Stddev	9.916	245.10	61.41	11.325	12.984
%RSD	.3499917	.4408601	.5784859	.5987802	.3029241
#1	2821.899	55314.91	10545.58	1880.926	4272.505
#2	2838.758	55760.25	10645.74	1889.622	4287.724
#3	2839.374	55715.02	10657.23	1903.386	4298.336

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166190BS Acquired: 1/30/2025 13:20:32 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7946601	2.072489	.9521566	1.963025	.7868901	1.865476
Stddev	.0012060	.007890	.0024312	.007173	.0013657	.005016
%RSD	.1517668	.3806951	.2553410	.3654186	.1735608	.2688792
#1	.7943372	2.063903	.9546094	1.971297	.7882079	1.860791
#2	.7936484	2.074143	.9521129	1.959256	.7854810	1.864870
#3	.7959947	2.079421	.9497475	1.958522	.7869815	1.870768

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1780794	.1844839	.1881221	.9405359	.4047896	.1901177
Stddev	.0018888	.0012673	.0001721	.0101812	.0019935	.0001029
%RSD	1.060668	.6869232	.0914624	1.082490	.4924697	.0541234
#1	.1773260	.1853427	.1883203	.9413395	.4027909	.1901155
#2	.1766836	.1830284	.1880349	.9299767	.4048002	.1902216
#3	.1802287	.1850806	.1880111	.9502915	.4067778	.1900159

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3037450	2.930057	.1815319	1.833639	.4771786	.0734756
Stddev	.0004343	.008896	.0014982	.010709	.0001718	.0008395
%RSD	.1429769	.3036186	.8253199	.5840479	.0359951	1.142592
#1	.3033234	2.919793	.1820504	1.845917	.4771126	.0725971
#2	.3037205	2.935547	.1798433	1.828774	.4773736	.0735598
#3	.3041909	2.934832	.1827019	1.826226	.4770497	.0742698

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.018363	.2786709	.2013463	9.809369	.2649902	.4056573
Stddev	.013342	.0013406	.0006799	.057083	.0014566	.0004894
%RSD	.4420245	.4810520	.3376709	.5819253	.5496760	.1206360
#1	3.003038	.2775215	.2005688	9.796849	.2659226	.4052852
#2	3.024664	.2801435	.2018291	9.759585	.2633117	.4062117
#3	3.027388	.2783477	.2016411	9.871673	.2657363	.4054752

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166190BS Acquired: 1/30/2025 13:20:32 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6610801	.1835054	F .7100184	5.401695	F -.014019	.1802102
Stddev	.0017202	.0015734	.0038665	.017894	.001288	.0015609
%RSD	.2602102	.8574385	.5445615	.3312575	9.187430	.8661385
#1	.6623765	.1852634	.7099192	5.383718	-.015507	.1806143
#2	.6617352	.1822293	.7139335	5.401864	-.013253	.1784871
#3	.6591286	.1830234	.7062024	5.419504	-.013299	.1815294

Elem	Sr4077
Units	ppm
Avg	.1792839
Stddev	.0011983
%RSD	.6684109
#1	.1794274
#2	.1780203
#3	.1804041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2912.219	55674.62	10501.93	1898.573	4411.608
Stddev	4.282	156.58	72.71	5.913	8.657
%RSD	.1470265	.2812378	.6923255	.3114621	.1962436
#1	2907.848	55810.80	10463.22	1905.378	4402.504
#2	2916.406	55709.53	10585.81	1894.681	4412.583
#3	2912.402	55503.54	10456.77	1895.661	4419.736

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1205-02 Acquired: 1/30/2025 13:24:32 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007397	-.008644	.0129950	.0044916	-.001973	.0487302	.1571795
Stddev	.000121	.001372	.0011086	.0022366	.001210	.0047491	.0004237
%RSD	1.631807	15.87262	8.530780	49.79501	61.30370	9.745754	.2695973
#1	-.007531	-.008369	.0133179	.0019093	-.002637	.0541419	.1571538
#2	-.007362	-.010133	.0117608	.0057469	-.002706	.0467916	.1567692
#3	-.007297	-.007430	.0139063	.0058185	-.000577	.0452570	.1576155

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000273	.0002819	11.06008	.0006008	-.000250	.0207814	.0419943
Stddev	.0000586	.0000347	.00794	.0001226	.000330	.0001390	.0010400
%RSD	214.6356	12.31183	.0717832	20.41044	131.7041	.6691084	2.476554
#1	.0000751	.0002908	11.06308	.0004602	-.000586	.0206302	.0408009
#2	-.000038	.0002436	11.05107	.0006566	.000073	.0209038	.0424746
#3	.000045	.0003113	11.06608	.0006856	-.000237	.0208102	.0427073

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1715319	3.385071	.0034580	.0005918	281.2293	-.001538	.0714210
Stddev	.0004154	.032141	.0002498	.0002601	.5538	.000258	.0006496
%RSD	.2421764	.9494936	7.223896	43.96190	.1969278	16.74097	.9095507
#1	.1710705	3.370827	.0034573	.0004000	281.0296	-.001262	.0714399
#2	.1718762	3.421873	.0037081	.0004873	280.8030	-.001580	.0707622
#3	.1716490	3.362513	.0032085	.0008879	281.8552	-.001772	.0720610

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.092407	.0140634	-.000038	.0645029	.0015978	.5420749	.0125902
Stddev	.015763	.0003878	.000158	.0010382	.0004558	.0051617	.0018904
%RSD	1.442999	2.757345	412.5338	1.609535	28.52709	.9522164	15.01454
#1	1.106357	.0145104	-.000178	.0633111	.0012937	.5447255	.0143910
#2	1.075306	.0138627	-.000070	.0652105	.0021219	.5361264	.0106214
#3	1.095557	.0138172	.000133	.0649872	.0013778	.5453728	.0127580

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1205-02 Acquired: 1/30/2025 13:24:32 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4840606	-.009841	.0546516
Stddev	.0037838	.000451	.0001825
%RSD	.7816705	4.587377	.3339188
#1	.4877915	-.009745	.0547104
#2	.4802261	-.010332	.0544470
#3	.4841643	-.009445	.0547975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2677.599	52837.62	10377.33	1799.235	3865.638
Stddev	3.447	86.04	37.20	9.690	9.278
%RSD	.1287225	.1628302	.3584830	.5385642	.2399995
#1	2680.996	52863.80	10389.42	1800.494	3875.577
#2	2677.697	52907.52	10335.59	1808.234	3864.129
#3	2674.104	52741.53	10406.98	1788.977	3857.207

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-04 Acquired: 1/30/2025 13:29:00 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006812	-.009058	.0179674	.0023324	.0009920	-.084984	.1134683
Stddev	.001187	.003058	.0011798	.0023359	.0012345	.001615	.0003042
%RSD	17.43023	33.76397	6.566353	100.1504	124.4431	1.899862	.2681070
#1	-.008146	-.009256	.0178098	.0009125	-.000341	-.086801	.1137132
#2	-.005871	-.005905	.0192180	.0050283	.002096	-.084434	.1131278
#3	-.006419	-.012012	.0168742	.0010562	.001222	-.083716	.1135638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000124	.0001311	138.3893	.0003974	.0042056	.0101428	-.000798
Stddev	.000018	.0000816	.3484	.0001738	.0001970	.0005986	.003648
%RSD	14.57174	62.19653	.2517395	43.73119	4.684833	5.901459	457.0019
#1	-.000104	.0000625	138.0939	.0001987	.0044119	.0106417	-.000982
#2	-.000127	.0002213	138.3006	.0004726	.0040193	.0103075	-.004350
#3	-.000140	.0001097	138.7735	.0005209	.0041857	.0094791	.002938

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2472273	7.234968	.0050134	.0003564	319.0851	-.001715	.3379980
Stddev	.0004812	.020273	.0002930	.0002305	2.1413	.001079	.0013122
%RSD	.1946255	.2802127	5.845212	64.69221	.6710732	62.93536	.3882368
#1	.2467636	7.222120	.0046758	.0004966	321.5054	-.002841	.3385277
#2	.2471940	7.224446	.0051622	.0004822	317.4370	-.000690	.3389625
#3	.2477242	7.258339	.0052022	.0000903	318.3129	-.001612	.3365037

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983103	.0452025	.0006102	-.002319	-.002858	1.725699	.0098158
Stddev	.026441	.0003092	.0001568	.001226	.000803	.007686	.0015924
%RSD	1.333317	.6841214	25.69334	52.88761	28.07953	.4453885	16.22238
#1	2.009364	.0448456	.0006922	-.001770	-.002079	1.722410	.0084819
#2	1.956486	.0453713	.0007089	-.003724	-.002814	1.720206	.0093868
#3	1.983459	.0453907	.0004294	-.001462	-.003683	1.734483	.0115788

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-04 Acquired: 1/30/2025 13:29:00 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.086144	-.027435	.4161499
Stddev	.018142	.000683	.0008380
%RSD	.5878485	2.488452	.2013732
#1	3.093282	-.027544	.4162759
#2	3.065519	-.028057	.4152560
#3	3.099632	-.026705	.4169178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2560.732	50741.14	9953.417	1715.099	3653.396
Stddev	4.589	216.12	43.366	7.170	3.929
%RSD	.1791934	.4259267	.4356934	.4180561	.1075373
#1	2562.492	50610.08	9990.582	1709.711	3652.609
#2	2564.180	50990.59	9963.898	1723.237	3657.659
#3	2555.524	50622.75	9905.770	1712.350	3649.920

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV02 Acquired: 1/30/2025 13:33:23 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.999168	5.123602	4.833596	5.053659	5.063347	9.602023	9.200731
Stddev	.020581	.032888	.010308	.025867	.012630	.016419	.125824
%RSD	.4116945	.6418830	.2132481	.5118489	.2494468	.1709916	1.367541
#1	4.980262	5.093889	4.826008	5.034870	5.058992	9.586577	9.303188
#2	4.996152	5.117977	4.829449	5.042946	5.053470	9.619267	9.238713
#3	5.021091	5.158939	4.845331	5.083162	5.077579	9.600225	9.060292

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2321113	2.419195	23.25140	.9883112	2.411149	1.249579	4.773314
Stddev	.0006889	.006716	.06531	.0015937	.005959	.003260	.026012
%RSD	.2968036	.2776007	.2808845	.1612576	.2471585	.2609134	.5449537
#1	.2326695	2.413511	23.29635	.9877609	2.407112	1.246988	4.783768
#2	.2323231	2.417468	23.28136	.9870655	2.408342	1.248509	4.792473
#3	.2313414	2.426605	23.17648	.9901071	2.417994	1.253240	4.743701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.250492	23.32261	2.418505	1.197500	25.02383	2.360093	2.451776
Stddev	.013973	.05022	.007976	.002423	.11642	.011712	.001725
%RSD	.6208843	.2153215	.3297783	.2023379	.4652183	.4962495	.0703631
#1	2.254687	23.36172	2.412123	1.194744	24.96206	2.361687	2.450765
#2	2.261887	23.34014	2.415945	1.199294	25.15812	2.370926	2.453768
#3	2.234902	23.26598	2.427446	1.198463	24.95132	2.347666	2.450795

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.35578	4.583581	4.986156	4.860359	4.621516	4.980024	5.009256
Stddev	.12742	.005443	.015342	.013520	.022189	.025737	.008498
%RSD	.5231688	.1187485	.3076964	.2781701	.4801302	.5168006	.1696371
#1	24.28187	4.588393	4.978723	4.845266	4.629235	4.957717	5.006037
#2	24.50291	4.584675	4.975946	4.864451	4.638815	5.008183	5.002837
#3	24.28255	4.577674	5.003799	4.871361	4.596498	4.974174	5.018892

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV02 Acquired: 1/30/2025 13:33:23 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.913241	4.603064	4.642252
Stddev	.014941	.031613	.035890
%RSD	.3041010	.6867830	.7731069
#1	4.899627	4.611384	4.675257
#2	4.910872	4.629685	4.647455
#3	4.929226	4.568123	4.604045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2717.373	54207.05	10020.10	1821.860	3912.500
Stddev	4.963	69.89	30.45	2.779	7.508
%RSD	.1826404	.1289269	.3038857	.1525325	.1918968
#1	2719.771	54254.67	9985.00	1818.846	3916.675
#2	2720.682	54239.66	10039.42	1824.321	3916.991
#3	2711.667	54126.82	10035.89	1822.415	3903.832

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB02 Acquired: 1/30/2025 13:37:34 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0009652	-.000937	-.000888	-.000696	-.001747	-.007566	-.002891
Stddev	.0006081	.000382	.001267	.002408	.000951	.000959	.000463
%RSD	63.00305	40.77883	142.6804	346.1136	54.39768	12.67525	16.02352
#1	.0012532	-.001373	-.001305	-.001778	-.001783	-.007857	-.002937
#2	.0002666	-.000778	-.001894	.002063	-.002680	-.008346	-.003329
#3	.0013759	-.000660	.000535	-.002372	-.000779	-.006496	-.002406

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000582	-.000245	-.014829	-.000014	-.000132	.0005116	-.012592
Stddev	.0000440	.000089	.004924	.000299	.000219	.0001203	.004262
%RSD	75.66632	36.34818	33.20443	2177.364	166.3505	23.51626	33.84763
#1	.0000790	-.000267	-.017860	.000316	-.000154	.0003966	-.009730
#2	.0000879	-.000147	-.017481	-.000092	-.000338	.0006366	-.010556
#3	.0000076	-.000322	-.009148	-.000266	.000098	.0005016	-.017490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000659	-.000399	-.000270	.0009650	.0222632	-.000931	-.003104
Stddev	.000213	.005582	.000257	.0003582	.0035866	.000117	.000253
%RSD	32.33528	1397.632	95.06688	37.11449	16.11004	12.56938	8.144051
#1	-.000413	-.006276	-.000175	.0013326	.0185853	-.000917	-.003395
#2	-.000784	.004832	-.000561	.0006170	.0257509	-.001054	-.002971
#3	-.000781	.000245	-.000075	.0009455	.0224533	-.000821	-.002944

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0437321	.0035653	-.000461	-.000365	.0008606	-.010803	.0002250
Stddev	.0192305	.0006385	.000116	.000498	.0004675	.010395	.0004768
%RSD	43.97330	17.90745	25.03554	136.3321	54.32429	96.22540	211.9342
#1	.0624736	.0042880	-.000328	-.000385	.0010686	-.008019	.0002354
#2	.0446754	.0030779	-.000522	-.000854	.0011879	-.022306	-.000257
#3	.0240474	.0033301	-.000534	.000142	.0003252	-.002083	.000697

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB02 Acquired: 1/30/2025 13:37:34 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006004	-.004671	-.000400
Stddev	.003232	.001292	.000051
%RSD	53.83286	27.65270	12.79702
#1	-.004345	-.005716	-.000346
#2	-.009728	-.005071	-.000447
#3	-.003938	-.003227	-.000408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2840.079	55921.41	10406.74	1898.567	4297.647
Stddev	4.096	81.01	86.12	8.507	9.439
%RSD	.1442170	.1448701	.8274968	.4480641	.2196248
#1	2835.743	55958.41	10499.40	1900.040	4286.902
#2	2843.883	55977.31	10391.65	1906.241	4304.600
#3	2840.610	55828.50	10329.16	1889.420	4301.439

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-08 Acquired: 1/30/2025 13:41:55 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004556	-.010050	.0020039	.0019116	-.000176	-.082495	.0664394
Stddev	.001164	.001736	.0001802	.0015981	.001598	.001871	.0006065
%RSD	25.55246	17.27032	8.992068	83.60168	909.1541	2.268286	.9128676
#1	-.005854	-.010157	.0017959	.0003935	.001591	-.082171	.0665652
#2	-.004211	-.008263	.0021009	.0035793	-.000598	-.080807	.0669732
#3	-.003603	-.011729	.0021147	.0017621	-.001520	-.084507	.0657799

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000123	-.000317	162.1925	.0008518	-.000539	.0053556	-.007253
Stddev	.000062	.000040	.3273	.0002361	.000173	.0004166	.002542
%RSD	50.33962	12.69804	.2017839	27.72480	32.14173	7.778702	35.04725
#1	-.000072	-.000272	161.8326	.0007402	-.000343	.0058145	-.010144
#2	-.000105	-.000351	162.2729	.0011230	-.000673	.0050013	-.006246
#3	-.000192	-.000327	162.4722	.0006921	-.000600	.0052510	-.005368

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1159605	21.17256	.0043002	.0003904	335.5894	.0003705	.0160641
Stddev	.0004659	.00649	.0001501	.0004080	5.1470	.0013591	.0000948
%RSD	.4017965	.0306731	3.490876	104.5134	1.533731	366.8107	.5903631
#1	.1159480	21.16506	.0041361	.0002292	341.5118	.0019169	.0161466
#2	.1155009	21.17628	.0043340	.0000877	332.1978	-.000171	.0160853
#3	.1164325	21.17635	.0044305	.0008544	333.0584	-.000634	.0159605

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.568691	.1788394	.0014470	-.002082	-.003238	4.422595	.0164314
Stddev	.016893	.0010914	.0002571	.000933	.000646	.016031	.0028635
%RSD	.6576508	.6102825	17.76668	44.81440	19.95027	.3624789	17.42676
#1	2.559119	.1796957	.0017163	-.002583	-.002879	4.421369	.0169971
#2	2.588196	.1776105	.0014203	-.002659	-.002851	4.439204	.0133273
#3	2.558757	.1792122	.0012042	-.001006	-.003984	4.407213	.0189698

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-08 Acquired: 1/30/2025 13:41:55 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.194359	-.029217	.5457410
Stddev	.027283	.001640	.0014489
%RSD	.4404446	5.614046	.2654955
#1	6.176704	-.027824	.5441039
#2	6.180591	-.028802	.5462610
#3	6.225783	-.031025	.5468582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.510	50411.00	10243.45	1682.538	3603.652
Stddev	8.353	97.70	19.89	6.253	12.284
%RSD	.3315136	.1938101	.1941436	.3716574	.3408688
#1	2518.215	50361.67	10242.08	1681.420	3604.082
#2	2528.435	50347.80	10263.99	1676.919	3615.715
#3	2511.881	50523.53	10224.28	1689.274	3591.159

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-04 Acquired: 1/30/2025 13:46:19 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004886	-.007340	.0216452	-.000467	-.002517	-.021867	.1566025
Stddev	.001646	.000808	.0004710	.003854	.001039	.007517	.0002781
%RSD	33.69473	11.01308	2.175845	824.7382	41.28549	34.37587	.1775708
#1	-.005919	-.007882	.0211118	.003020	-.001716	-.030139	.1567379
#2	-.002987	-.006411	.0218202	.000183	-.002143	-.015454	.1562826
#3	-.005751	-.007727	.0220037	-.004605	-.003691	-.020007	.1567869

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000111	.0002420	70.68511	.0005351	.0013055	.0159261	.0033184
Stddev	.000042	.0000565	.14994	.0001823	.0000320	.0002919	.0018469
%RSD	37.74019	23.36533	.2121256	34.06166	2.453297	1.832505	55.65613
#1	-.000145	.0002446	70.52004	.0007239	.0013257	.0161587	.0022549
#2	-.000124	.0002972	70.72239	.0003603	.0012686	.0160211	.0022493
#3	-.000064	.0001842	70.81289	.0005210	.0013223	.0155986	.0054510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2986947	4.952489	.0058300	.0004037	267.4664	-.000137	.1050162
Stddev	.0004740	.008768	.0000919	.0006166	1.5602	.000979	.0004074
%RSD	.1586884	.1770496	1.576230	152.7298	.5833283	712.5979	.3878920
#1	.2981556	4.945812	.0058125	-.000171	266.2623	.000943	.1051082
#2	.2988823	4.949237	.0059293	.000327	266.9079	-.000392	.1053697
#3	.2990461	4.962419	.0057480	.001055	269.2290	-.000964	.1045708

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.318309	.0062994	.0004826	-.001824	-.001364	1.599177	.0253454
Stddev	.008062	.0004616	.0001071	.000702	.000705	.012971	.0038389
%RSD	.6115580	7.328216	22.19337	38.47595	51.70322	.8111357	15.14612
#1	1.322618	.0064229	.0005893	-.002362	-.000834	1.584200	.0296273
#2	1.323300	.0066868	.0003751	-.002080	-.001093	1.606853	.0241972
#3	1.309008	.0057886	.0004836	-.001030	-.002165	1.606477	.0222117

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-04 Acquired: 1/30/2025 13:46:19 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6664207	-.017780	.1889157
Stddev	.0010825	.000783	.0003202
%RSD	.1624274	4.402334	.1695157
#1	.6670904	-.018028	.1886550
#2	.6669998	-.016904	.1888190
#3	.6651719	-.018409	.1892732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2643.838	51912.32	10250.76	1746.249	3822.840
Stddev	3.234	65.56	23.14	7.737	7.398
%RSD	.1223172	.1262890	.2257065	.4430655	.1935326
#1	2640.231	51983.79	10276.92	1744.034	3815.926
#2	2644.805	51854.96	10242.36	1754.852	3821.953
#3	2646.478	51898.22	10232.99	1739.861	3830.643

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-08 Acquired: 1/30/2025 13:50:46 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003327	-.008529	.0076136	.0032310	-.000955	-.045083	.0787608
Stddev	.002026	.002692	.0007240	.0010258	.001357	.005887	.0002832
%RSD	60.90648	31.56496	9.509923	31.74834	142.1268	13.05800	.3595038
#1	-.004197	-.006680	.0082070	.0029705	.000102	-.048088	.0787258
#2	-.004773	-.007289	.0068069	.0043619	-.002485	-.038300	.0784968
#3	-.001011	-.011617	.0078271	.0023606	-.000481	-.048860	.0790598

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000127	-.000011	133.0248	.0014507	.0029499	.0084729	.0359458
Stddev	.000012	.000037	.2396	.0002040	.0001645	.0004356	.0043008
%RSD	9.055506	345.0486	.1801478	14.06241	5.577641	5.141414	11.96477
#1	-.000128	.000021	133.3014	.0012334	.0028435	.0089626	.0313718
#2	-.000116	-.000051	132.8793	.0014806	.0028667	.0081284	.0399079
#3	-.000139	-.000001	132.8938	.0016381	.0031394	.0083277	.0365576

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4145183	4.709149	.0101790	.0005812	292.9596	.0009048	.0590928
Stddev	.0008905	.003461	.0001615	.0003803	3.6526	.0004544	.0002644
%RSD	.2148362	.0734931	1.586247	65.44497	1.246783	50.22133	.4474492
#1	.4139515	4.710909	.0101893	.0008397	293.8954	.0004676	.0592925
#2	.4140585	4.711377	.0100126	.0001444	296.0532	.0013747	.0587930
#3	.4155447	4.705162	.0103351	.0007594	288.9301	.0008721	.0591929

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.610916	.0211232	.0013662	-.002771	-.002363	5.121455	.0055977
Stddev	.040414	.0003089	.0002174	.000977	.000136	.018261	.0017040
%RSD	1.547900	1.462552	15.91294	35.25550	5.735671	.3565663	30.44047
#1	2.586160	.0213745	.0012849	-.002056	-.002352	5.107396	.0063429
#2	2.657553	.0207783	.0012012	-.003884	-.002503	5.142095	.0068021
#3	2.589035	.0212167	.0016125	-.002373	-.002233	5.114876	.0036480

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-08 Acquired: 1/30/2025 13:50:46 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.003239	-.026018	.3780190
Stddev	.001952	.000885	.0004822
%RSD	.0487659	3.400567	.1275490
#1	4.001862	-.025854	.3774919
#2	4.005473	-.025227	.3781274
#3	4.002382	-.026974	.3784377

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.527	51419.10	10249.12	1746.084	3709.207
Stddev	3.940	97.59	57.17	7.104	4.229
%RSD	.1519907	.1897909	.5577587	.4068366	.1140121
#1	2590.741	51311.84	10187.65	1739.083	3708.315
#2	2589.796	51442.82	10300.69	1745.881	3705.495
#3	2597.044	51502.64	10259.01	1753.286	3713.811

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-12 Acquired: 1/30/2025 13:55:10 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005840	-.010224	-.000153	.0016620	.0004471	-.071026	.0646473
Stddev	.003186	.001200	.000639	.0023575	.0011083	.013038	.0005565
%RSD	54.54767	11.74092	418.2898	141.8536	247.8793	18.35619	.8607923
#1	-.006349	-.011162	-.000036	.0027871	-.000056	-.056937	.0647981
#2	-.002431	-.010639	.000420	.0032461	-.000320	-.082664	.0640310
#3	-.008741	-.008871	-.000842	-.001047	.001718	-.073479	.0651128

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000136	-.000003	160.8372	.0004196	.0010671	.0064364	-.003167
Stddev	.000036	.000113	.2192	.0003323	.0001477	.0005701	.002473
%RSD	26.39066	4124.068	.1362743	79.19273	13.83734	8.858223	78.06872
#1	-.000138	-.000051	160.6739	.0001360	.0011414	.0066573	-.005652
#2	-.000100	-.000084	161.0863	.0003375	.0008970	.0068630	-.003143
#3	-.000171	.000127	160.7514	.0007852	.0011627	.0057888	-.000707

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469431	4.608727	.0087196	.0002737	264.6932	-.000773	.0326476
Stddev	.0003671	.029975	.0003217	.0001655	1.3812	.001657	.0001966
%RSD	.1486580	.6504069	3.689749	60.47253	.5218043	214.3112	.6022591
#1	.2471131	4.581446	.0084200	.0004635	263.3419	.001115	.0324456
#2	.2465218	4.603918	.0086792	.0001598	266.1024	-.001985	.0326588
#3	.2471944	4.640816	.0090596	.0001976	264.6354	-.001450	.0328383

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.671351	.0262092	.0026421	-.001709	-.003604	4.816841	.0116752
Stddev	.054049	.0003718	.0001940	.000553	.000685	.017409	.0033479
%RSD	1.472170	1.418526	7.340791	32.37545	19.01920	.3614285	28.67527
#1	3.685305	.0263894	.0025584	-.001156	-.004299	4.799564	.0146126
#2	3.717054	.0264565	.0028639	-.001709	-.003583	4.834380	.0123830
#3	3.611694	.0257817	.0025041	-.002262	-.002929	4.816579	.0080300

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-12 Acquired: 1/30/2025 13:55:10 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.036963	-.028620	.4072336
Stddev	.032637	.000688	.0009953
%RSD	.3611549	2.403092	.2443975
#1	9.030232	-.028466	.4078586
#2	9.008215	-.029371	.4077563
#3	9.072441	-.028022	.4060859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2569.504	51728.27	10289.07	1736.116	3702.248
Stddev	1.781	150.50	31.29	4.556	5.272
%RSD	.0693100	.2909427	.3041557	.2624474	.1423895
#1	2567.879	51796.85	10324.55	1740.950	3699.477
#2	2571.408	51555.69	10277.28	1731.901	3708.327
#3	2569.224	51832.26	10265.39	1735.498	3698.940

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-16 Acquired: 1/30/2025 13:59:35 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006796	-.010281	.0011190	.0003772	.0000229	-.098329
Stddev	.000961	.001482	.0017190	.0022084	.0011885	.004797
%RSD	14.13976	14.41577	153.6104	585.5000	5180.168	4.878743
#1	-.007654	-.008732	-.000753	-.001250	-.000860	-.096886
#2	-.005758	-.011685	.001483	-.000510	-.000445	-.103683
#3	-.006977	-.010427	.002627	.002891	.001374	-.094420

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0550889	-.000148	-.000330	170.8861	.0009840	.0001632
Stddev	.0005454	.000024	.000066	.2062	.0002774	.0001195
%RSD	.9899710	16.00386	19.89210	.1206574	28.19046	73.19385
#1	.0555970	-.000125	-.000255	171.1054	.0011616	.0001299
#2	.0545127	-.000172	-.000362	170.6961	.0011262	.0002957
#3	.0551570	-.000146	-.000374	170.8568	.0006644	.0000639

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043895	-.010729	.1802688	13.39130	.0074630	.0005854
Stddev	.0001778	.001708	.0008574	.01726	.0001154	.0002921
%RSD	4.051546	15.92272	.4756414	.1289102	1.546416	49.88824
#1	.0041985	-.009126	.1805506	13.39365	.0073746	.0007201
#2	.0045503	-.010536	.1809498	13.37298	.0075936	.0007858
#3	.0044197	-.012526	.1793059	13.40726	.0074209	.0002503

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	321.0816	.0013641	.0147113	4.107151	.0931332	.0028824
Stddev	.9568	.0005478	.0001710	.040194	.0007711	.0000693
%RSD	.2979823	40.15812	1.162551	.9786347	.8279148	2.403464
#1	320.1237	.0007355	.0149025	4.063465	.0939365	.0028028
#2	322.0373	.0016172	.0145728	4.115422	.0923990	.0029154
#3	321.0839	.0017396	.0146587	4.142566	.0930643	.0029289

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-16 Acquired: 1/30/2025 13:59:35 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002233	-.003153	4.707509	.0120850	F 11.31463	-.029456
Stddev	.000850	.000456	.037466	.0015936	.04125	.000522
%RSD	38.04539	14.45917	.7958813	13.18634	.3645997	1.772194
#1	-.002850	-.002627	4.664391	.0134376	11.30233	-.029188
#2	-.002586	-.003398	4.732120	.0124891	11.28093	-.029124
#3	-.001264	-.003434	4.726017	.0103283	11.36064	-.030058

Elem	Sr4077
Units	ppm
Avg	.3395354
Stddev	.0007491
%RSD	.2206344
#1	.3398029
#2	.3401141
#3	.3386893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2521.675	50777.53	10155.42	1693.211	3611.804
Stddev	1.101	120.81	45.10	5.896	.357
%RSD	.0436754	.2379120	.4440745	.3482010	.0098958
#1	2520.403	50897.29	10103.61	1696.998	3612.047
#2	2522.297	50655.71	10176.87	1686.418	3611.971
#3	2522.325	50779.58	10185.79	1696.217	3611.393

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-20 Acquired: 1/30/2025 14:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007082	-.009360	.0270665	.0024535	-.000240	-.085818	.0840302
Stddev	.003514	.001422	.0004509	.0018738	.000598	.004112	.0006030
%RSD	49.62588	15.18984	1.665955	76.37328	249.4111	4.791634	.7176356
#1	-.010551	-.008187	.0269739	.0004404	.000105	-.088933	.0833341
#2	-.007170	-.008951	.0275565	.0041468	.000106	-.081157	.0843923
#3	-.003524	-.010941	.0266691	.0027733	-.000930	-.087363	.0843642

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.000012	166.8575	.0006159	.0010614	.0086361	-.000415
Stddev	.000028	.000045	.3875	.0003414	.0001071	.0002940	.003648
%RSD	26.43804	378.9644	.2322532	55.44247	10.09179	3.403992	879.8206
#1	-.000136	-.000046	167.2839	.0007818	.0010270	.0089749	.003512
#2	-.000094	.000039	166.5269	.0002232	.0009757	.0084494	-.003699
#3	-.000083	-.000029	166.7616	.0008426	.0011815	.0084839	-.001058

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2101421	7.323700	.0051582	.0003533	322.5977	.0006812	.0513729
Stddev	.0012915	.013023	.0003698	.0001846	1.5965	.0003297	.0001301
%RSD	.6145970	.1778267	7.169078	52.25259	.4948805	48.39655	.2532384
#1	.2100779	7.337282	.0052111	.0001584	323.9809	.0004358	.0512607
#2	.2088839	7.311318	.0047648	.0005254	320.8507	.0005518	.0513425
#3	.2114645	7.322501	.0054987	.0003761	322.9614	.0010559	.0515155

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.839044	.0568055	.0010425	-.000627	-.003421	2.642563	.0178744
Stddev	.023578	.0008279	.0000851	.000266	.000701	.002093	.0039974
%RSD	.8304937	1.457488	8.165057	42.40815	20.47519	.0792189	22.36400
#1	2.862498	.0577181	.0010432	-.000463	-.003970	2.640788	.0194117
#2	2.815344	.0561026	.0009570	-.000934	-.002632	2.642030	.0133365
#3	2.839288	.0565959	.0011272	-.000485	-.003662	2.644871	.0208749

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-20 Acquired: 1/30/2025 14:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.620080	-.031136	.4424209
Stddev	.019155	.000476	.0009226
%RSD	.5291186	1.527232	.2085260
#1	3.617774	-.031595	.4432302
#2	3.602183	-.031165	.4414163
#3	3.640283	-.030646	.4426162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2516.360	50608.42	10329.11	1693.038	3601.889
Stddev	13.739	153.62	57.33	10.059	16.368
%RSD	.5459735	.3035400	.5549904	.5941105	.4544222
#1	2526.001	50432.47	10262.92	1681.516	3616.688
#2	2522.451	50676.92	10363.20	1697.526	3604.671
#3	2500.630	50715.86	10361.20	1700.070	3584.309

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-04 Acquired: 1/30/2025 14:08:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004828	-.007758	.0092961	.0020486	-.002090	.8112638	.1507520
Stddev	.000565	.001797	.0008534	.0030950	.000567	.0084459	.0013459
%RSD	11.69185	23.16877	9.180669	151.0771	27.13631	1.041081	.8928022
#1	-.004369	-.009195	.0100743	.0043335	-.001435	.8049321	.1510606
#2	-.005459	-.005743	.0094305	.0032861	-.002397	.8080058	.1519168
#3	-.004658	-.008337	.0083834	-.001474	-.002437	.8208535	.1492786

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000224	-.000017	6.847857	.0015326	-.000241	.0092300	.3810825
Stddev	.0000487	.000129	.008042	.0002520	.000172	.0002306	.0051893
%RSD	217.8146	779.7180	.1174361	16.44309	71.53574	2.498227	1.361733
#1	-.000018	-.000066	6.847714	.0012433	-.000102	.0090278	.3789920
#2	.000076	.000130	6.855970	.0017043	-.000187	.0091811	.3772645
#3	.000009	-.000114	6.839888	.0016502	-.000434	.0094812	.3869911

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089752	1.172763	.0012871	.0008258	290.7178	.0001722	.0697417
Stddev	.0004202	.004422	.0000530	.0003077	3.8362	.0002555	.0003920
%RSD	4.681622	.3770239	4.114448	37.25852	1.319573	148.3530	.5620393
#1	.0092931	1.169887	.0013177	.0005126	291.4666	-.000025	.0696962
#2	.0091336	1.177854	.0012260	.0008372	294.1245	.000461	.0701545
#3	.0084988	1.170547	.0013177	.0011276	286.5624	.000081	.0693745

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4116228	.0079979	-.000153	.0009308	.0254305	1.364231	.0188803
Stddev	.0107266	.0004088	.000398	.0011948	.0011821	.013320	.0004884
%RSD	2.605933	5.111478	259.6506	128.3610	4.648445	.9763429	2.586744
#1	.4084125	.0075261	.000264	-.000443	.0246728	1.366626	.0183376
#2	.4028679	.0082204	-.000528	.001511	.0248260	1.349876	.0192846
#3	.4235880	.0082471	-.000196	.001725	.0267926	1.376190	.0190186

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-04 Acquired: 1/30/2025 14:08:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4367808	-.008698	.0492747
Stddev	.0025892	.000321	.0000757
%RSD	.5927857	3.688787	.1537092
#1	.4397350	-.008815	.0493549
#2	.4349056	-.008335	.0492044
#3	.4357018	-.008944	.0492648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.263	52507.30	10492.44	1780.425	3889.221
Stddev	.946	228.72	40.71	4.699	5.514
%RSD	.0353017	.4356000	.3879749	.2639255	.1417802
#1	2679.197	52269.06	10446.70	1776.609	3895.492
#2	2681.004	52725.14	10524.69	1785.674	3887.039
#3	2680.588	52527.71	10505.93	1778.993	3885.131

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08 Acquired: 1/30/2025 14:12:51 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005378	-.007983	.0059728	.0008264	-.001587	.0673721	.2034552
Stddev	.000500	.001565	.0005354	.0022488	.000745	.0087589	.0001369
%RSD	9.288125	19.60292	8.963999	272.1133	46.93214	13.00081	.0672964
#1	-.005721	-.008955	.0057388	-.001366	-.000757	.0631743	.2034073
#2	-.004805	-.006178	.0065854	.003128	-.002198	.0615022	.2036097
#3	-.005608	-.008816	.0055942	.000717	-.001807	.0774398	.2033487

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	-.000397	8.473920	.0007853	-.000421	.0066576	.0367172
Stddev	.000038	.000055	.025007	.0001452	.000098	.0003663	.0018574
%RSD	185.7020	13.92040	.2951065	18.48948	23.28355	5.501797	5.058541
#1	-.000012	-.000411	8.456170	.0008989	-.000533	.0062347	.0347255
#2	-.000062	-.000444	8.463070	.0008353	-.000350	.0068645	.0370243
#3	.000012	-.000336	8.502519	.0006217	-.000381	.0068736	.0384019

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220700	1.232795	.0010457	.0001371	334.4614	-.002635	.0318427
Stddev	.0000845	.022101	.0003063	.0004662	1.7817	.001132	.0005746
%RSD	.3831159	1.792765	29.29603	340.0399	.5327134	42.97464	1.804387
#1	.0220875	1.208349	.0007476	-.000378	332.4044	-.003093	.0324763
#2	.0219781	1.251363	.0010297	.000530	335.5222	-.003467	.0316965
#3	.0221445	1.238671	.0013597	.000260	335.4576	-.001345	.0313554

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4145062	.0062462	.0002082	.0014120	.0026712	.4470788	.0250918
Stddev	.0241829	.0005197	.0003211	.0009423	.0007479	.0082938	.0016047
%RSD	5.834148	8.319799	154.2288	66.73508	27.99742	1.855117	6.395295
#1	.3973904	.0068328	-.000148	.0013035	.0034680	.4497835	.0268266
#2	.4421717	.0058434	.000475	.0005287	.0019845	.4536827	.0247884
#3	.4039565	.0060624	.000298	.0024039	.0025611	.4377703	.0236605

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08 Acquired: 1/30/2025 14:12:51 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4094977	-.009238	.0455935
Stddev	.0019205	.000461	.0001982
%RSD	.4689906	4.995200	.4347890
#1	.4100096	-.009414	.0454388
#2	.4073731	-.009586	.0455248
#3	.4111104	-.008715	.0458170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2671.517	51605.59	10309.69	1766.208	3850.200
Stddev	3.660	70.33	63.83	4.039	4.950
%RSD	.1369989	.1362776	.6190944	.2286773	.1285758
#1	2667.705	51635.14	10311.80	1763.792	3849.034
#2	2675.003	51525.31	10372.43	1763.962	3855.629
#3	2671.841	51656.32	10244.83	1770.871	3845.936

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08DUP Acquired: 1/30/2025 14:17:19 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004037	-.008691	.0059932	.0047162	-.001812	.0714857	.2002477
Stddev	.000445	.001427	.0013689	.0015989	.000611	.0042309	.0004529
%RSD	11.02843	16.41828	22.84140	33.90155	33.70365	5.918464	.2261703
#1	-.003533	-.007898	.0075456	.0039009	-.001276	.0692573	.2007660
#2	-.004377	-.007838	.0054746	.0036894	-.001682	.0688348	.1999284
#3	-.004200	-.010339	.0049593	.0065584	-.002477	.0763650	.2000486

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000260	-.000305	8.440678	.0006696	-.000558	.0064147	.0396497
Stddev	.0000444	.000108	.014884	.0001389	.000050	.0000834	.0036705
%RSD	170.6691	35.36634	.1763349	20.74632	8.937830	1.300469	9.257257
#1	.0000620	-.000389	8.457517	.0007428	-.000543	.0063457	.0386200
#2	.0000395	-.000183	8.435241	.0005094	-.000518	.0063911	.0437251
#3	-.000024	-.000341	8.429278	.0007565	-.000614	.0065074	.0366041

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218177	1.229181	.0007376	.0001091	331.5735	-.000371	.0317745
Stddev	.0000697	.010149	.0005034	.0002622	2.9910	.000987	.0004353
%RSD	.3192779	.8256614	68.25454	240.3916	.9020548	266.5118	1.370117
#1	.0217373	1.236714	.0012759	-.000071	334.1288	-.000387	.0321243
#2	.0218544	1.233190	.0006583	-.000012	332.3079	.000625	.0319122
#3	.0218613	1.217640	.0002785	.000410	328.2837	-.001350	.0312869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4327807	.0058771	.0000192	.0011335	.0020938	.4411629	.0234941
Stddev	.0343221	.0002632	.0002744	.0002236	.0009317	.0031322	.0035535
%RSD	7.930605	4.477873	1430.468	19.73034	44.49890	.7099753	15.12519
#1	.3961068	.0061523	.0000356	.0008761	.0018970	.4377808	.0215632
#2	.4381072	.0056279	.0002850	.0012437	.0031082	.4439636	.0213240
#3	.4641283	.0058511	-.000263	.0012805	.0012762	.4417443	.0275950

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08DUP Acquired: 1/30/2025 14:17:19 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4219433	-.007360	.0455990
Stddev	.0039473	.000440	.0002297
%RSD	.9355164	5.971845	.5038245
#1	.4257115	-.007763	.0457130
#2	.4178384	-.007424	.0457494
#3	.4222801	-.006892	.0453346

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2620.434	51956.91	10313.14	1759.981	3771.646
Stddev	4.850	198.51	12.63	5.905	10.586
%RSD	.1850717	.3820629	.1224570	.3355337	.2806650
#1	2620.407	52088.37	10299.17	1764.551	3777.587
#2	2625.296	51728.56	10316.49	1753.313	3777.926
#3	2615.597	52053.79	10323.76	1762.078	3759.424

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08LX5 Acquired: 1/30/2025 14:21:47 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002517	-.002317	.0011410	.0011331	-.002115	-.000969	.0390572
Stddev	.000661	.001412	.0010240	.0023133	.002064	.004017	.0000852
%RSD	26.26123	60.91661	89.75195	204.1469	97.61905	414.6422	.2180811
#1	-.002837	-.000860	.0020877	-.001528	-.003343	-.004879	.0391451
#2	-.002956	-.003678	.0012811	.002666	-.003270	.003147	.0390514
#3	-.001757	-.002414	.0000541	.002262	.000269	-.001175	.0389751

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000278	-.000313	1.678790	.0001205	-.000170	.0013414	-.006972
Stddev	.0000238	.000034	.013943	.0004396	.000189	.0003256	.002218
%RSD	85.64788	10.91358	.8305531	364.9957	111.3109	24.27540	31.80672
#1	.0000542	-.000339	1.666618	-.000353	-.000135	.0017030	-.006026
#2	.0000213	-.000274	1.694003	.000515	-.000374	.0010714	-.009506
#3	.0000079	-.000325	1.675750	.000199	-.000001	.0012498	-.005384

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039589	.2447884	-.000155	.0004208	64.69002	-.001072	.0038686
Stddev	.0001343	.0180836	.000162	.0001882	.12768	.001207	.0001708
%RSD	3.392374	7.387421	104.3025	44.73423	.1973696	112.5461	4.416109
#1	.0038045	.2524128	.000030	.0005699	64.75303	-.000731	.0036770
#2	.0040238	.2578112	-.000270	.0004833	64.77394	-.000073	.0040051
#3	.0040485	.2241412	-.000226	.0002093	64.54308	-.002412	.0039237

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2238959	-.002817	-.000420	.0006529	.0010325	.0783187	.0044298
Stddev	.0104355	.000818	.000097	.0005986	.0005780	.0043108	.0035876
%RSD	4.660869	29.04801	23.11018	91.68247	55.98133	5.504159	80.98792
#1	.2336024	-.001947	-.000503	.0013204	.0006112	.0777627	.0071851
#2	.2128590	-.003572	-.000444	.0004750	.0007949	.0828806	.0057314
#3	.2252262	-.002931	-.000313	.0001635	.0016915	.0743129	.0003731

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08LX5 Acquired: 1/30/2025 14:21:47 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0836729	-.002791	.0087148
Stddev	.0033797	.001090	.0000892
%RSD	4.039190	39.04801	1.023199
#1	.0848765	-.003017	.0087301
#2	.0798562	-.003750	.0087953
#3	.0862861	-.001606	.0086190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2746.530	54261.76	10570.14	1843.057	4025.197
Stddev	4.988	147.67	30.89	4.711	7.983
%RSD	.1816014	.2721528	.2922848	.2556260	.1983323
#1	2744.200	54091.37	10534.46	1838.762	4025.448
#2	2752.256	54352.74	10588.02	1842.315	4033.052
#3	2743.133	54341.17	10587.92	1848.096	4017.092

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV03 Acquired: 1/30/2025 14:34:39 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.882883	5.074105	4.905267	5.010479	4.777456	9.646271	9.434231
Stddev	.019248	.046232	.248330	.138413	.306692	.004101	.132823
%RSD	.3941944	.9111299	5.062511	2.762462	6.419574	.0425098	1.407883
#1	4.879779	5.116640	4.761658	4.951260	4.967645	9.643942	9.448254
#2	4.865375	5.080773	4.762130	4.911528	4.941071	9.651006	9.559486
#3	4.903494	5.024901	5.192013	5.168649	4.423650	9.643865	9.294953

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2310269	2.488144	23.50375	.9851625	2.436307	1.204762	4.870718
Stddev	.0013041	.196544	.01610	.0035858	.099752	.046423	.035352
%RSD	.5644629	7.899228	.0684794	.3639803	4.094382	3.853319	.7258131
#1	.2295212	2.375657	23.49562	.9878967	2.380923	1.232846	4.904953
#2	.2317714	2.373684	23.49333	.9864882	2.376535	1.230262	4.872856
#3	.2317882	2.715091	23.52228	.9811026	2.551462	1.151178	4.834345

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.298566	23.36711	2.451003	1.212087	25.20885	2.381032	2.451249
Stddev	.002344	.05178	.115424	.000961	.22624	.007859	.006562
%RSD	.1019861	.2215893	4.709249	.0793173	.8974571	.3300571	.2677190
#1	2.297472	23.30779	2.385820	1.211200	25.46894	2.381026	2.458486
#2	2.296969	23.40328	2.382917	1.211951	25.09993	2.373176	2.445686
#3	2.301257	23.39025	2.584273	1.213108	25.05767	2.388893	2.449573

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.89228	4.596724	4.922869	4.979916	4.697450	5.032623	5.034477
Stddev	.25463	.035748	.040235	.319014	.006643	.028295	.152021
%RSD	1.022909	.7776906	.8173026	6.406009	.1414101	.5622262	3.019590
#1	25.18542	4.557709	4.953512	4.794930	4.703025	5.062057	4.954573
#2	24.76538	4.604556	4.937790	4.796537	4.690100	5.030189	4.939071
#3	24.72605	4.627907	4.877305	5.348280	4.699225	5.005624	5.209787

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV03 Acquired: 1/30/2025 14:34:39 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.804596	4.716611	4.751713
Stddev	.014702	.014748	.004865
%RSD	.3059944	.3126888	.1023903
#1	4.799047	4.724283	4.757291
#2	4.793476	4.699608	4.748344
#3	4.821265	4.725942	4.749503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3044.600	54462.51	10069.03	1852.085	4288.855
Stddev	468.796	189.11	46.07	9.538	495.422
%RSD	15.39764	.3472343	.4575450	.5149670	11.55137
#1	2766.794	54274.69	10122.16	1843.443	3997.216
#2	2781.150	54459.92	10044.88	1850.495	4008.467
#3	3585.856	54652.89	10040.06	1862.318	4860.881

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB03 Acquired: 1/30/2025 14:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	.0001427	-.001400	.0000723	.0000540	-.001928	-.014671	-.001586
Stddev	.0005003	.002401	.0003521	.0015375	.000740	.002139	.000446
%RSD	350.7226	171.4892	487.0934	2845.767	38.37435	14.58168	28.14281
#1	.0000654	-.003775	-.000271	.0002488	-.002676	-.012275	-.002071
#2	.0006771	-.001451	.000055	.0014848	-.001197	-.016388	-.001495
#3	-.000315	.001026	.000433	-.001572	-.001910	-.015350	-.001193

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000423	-.000195	-.022023	-.000029	-.000174	-.000420	-.018260
Stddev	.0000032	.000064	.002859	.000341	.000007	.000145	.003312
%RSD	7.490872	32.94620	12.98204	1159.945	4.033997	34.58813	18.13945
#1	.0000440	-.000151	-.024668	-.000375	-.000166	-.000563	-.018122
#2	.0000386	-.000166	-.018990	-.000019	-.000177	-.000272	-.015019
#3	.0000441	-.000269	-.022412	.000306	-.000179	-.000424	-.021639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000974	-.005312	-.000318	.0002613	.0796542	-.001649	-.002969
Stddev	.000251	.015051	.000193	.0001751	.0056531	.001689	.000244
%RSD	25.73134	283.3497	60.83679	67.02636	7.097018	102.4452	8.233975
#1	-.000988	.009155	-.000320	.0004029	.0731496	.000112	-.002999
#2	-.001217	-.004204	-.000510	.0000655	.0824313	-.003255	-.003196
#3	-.000717	-.020886	-.000123	.0003155	.0833815	-.001803	-.002710

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1389682	.0062730	-.000110	-.000763	.0007844	-.009766	-.001977
Stddev	.0144468	.0001096	.000244	.000955	.0004565	.002857	.003362
%RSD	10.39576	1.747364	221.7961	125.1501	58.20171	29.25150	170.0286
#1	.1498220	.0063427	-.000000	-.000597	.0002584	-.009721	-.005689
#2	.1225706	.0063298	-.000389	-.001791	.0010778	-.006932	-.001107
#3	.1445121	.0061467	.000060	.000098	.0010170	-.012645	.000864

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB03 Acquired: 1/30/2025 14:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003668	-.002673	-.000346
Stddev	.000322	.000538	.000019
%RSD	8.771386	20.11945	5.387864
#1	-.004022	-.002324	-.000366
#2	-.003394	-.002403	-.000329
#3	-.003587	-.003293	-.000344

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2835.185	56601.12	10639.97	1923.223	4280.726
Stddev	14.913	213.00	8.19	9.263	19.301
%RSD	.5260105	.3763202	.0769476	.4816180	.4508757
#1	2848.701	56442.45	10639.45	1915.844	4298.715
#2	2837.668	56843.21	10648.41	1933.618	4283.126
#3	2819.186	56517.71	10632.06	1920.208	4260.337

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08MS Acquired: 1/30/2025 14:43:12 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8184169	1.960568	.9509998	1.960102	.8089917	1.939694	.3672138
Stddev	.0043484	.011228	.0044908	.012466	.0037416	.005703	.0021525
%RSD	.5313178	.5726740	.4722158	.6360098	.4624949	.2940217	.5861578
#1	.8162997	1.962505	.9503224	1.953452	.8053938	1.933676	.3695399
#2	.8155325	1.948499	.9468861	1.952371	.8087192	1.940388	.3652925
#3	.8234184	1.970702	.9557907	1.974484	.8128620	1.945019	.3668089

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1732414	.1939573	8.845635	.4102316	.1964968	.2991140	3.071371
Stddev	.0002573	.0008044	.024885	.0011074	.0007200	.0012573	.025237
%RSD	.1485426	.4147107	.2813215	.2699543	.3663906	.4203456	.8216756
#1	.1732793	.1933738	8.874279	.4102937	.1961557	.2980517	3.098317
#2	.1729673	.1936233	8.829344	.4113067	.1960107	.2987881	3.048290
#3	.1734778	.1948749	8.833282	.4090944	.1973239	.3005021	3.067506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1926243	2.923592	.4908224	.0725698	312.3922	.2840104	.2338818
Stddev	.0009308	.011478	.0014876	.0002025	2.3438	.0014139	.0012505
%RSD	.4832080	.3926079	.3030850	.2790140	.7502835	.4978431	.5346505
#1	.1929940	2.927570	.4898903	.0724268	313.0160	.2843339	.2329224
#2	.1915655	2.910654	.4900389	.0728015	314.3610	.2824627	.2334270
#3	.1933135	2.932552	.4925380	.0724812	309.7996	.2852345	.2352960

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.97081	.2457689	.4293474	.6876886	.1885765	1.160497	5.947250
Stddev	.06757	.0002579	.0024036	.0006522	.0016389	.005167	.034363
%RSD	.6159104	.1049516	.5598221	.0948441	.8690821	.4452493	.5777954
#1	11.02874	.2458477	.4280145	.6880977	.1902774	1.160971	5.924705
#2	10.98711	.2454807	.4279056	.6869364	.1884445	1.165410	5.930245
#3	10.89658	.2459782	.4321221	.6880317	.1870076	1.155109	5.986800

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08MS Acquired: 1/30/2025 14:43:12 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2926866	.1799165	.2233364
Stddev	.0033025	.0007780	.0007540
%RSD	1.128322	.4324046	.3376091
#1	.2959449	.1792094	.2241542
#2	.2893417	.1807499	.2226688
#3	.2927732	.1797903	.2231863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2634.378	52069.62	10297.11	1745.821	3804.009
Stddev	8.605	27.09	21.41	4.911	13.192
%RSD	.3266306	.0520301	.2078907	.2813034	.3467962
#1	2639.648	52052.97	10288.98	1745.745	3808.949
#2	2639.038	52055.01	10321.39	1750.770	3814.019
#3	2624.449	52100.88	10280.96	1740.949	3789.060

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08MSD Acquired: 1/30/2025 14:47:20 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8220499	1.915812	.9544545	1.970047	.8108880	1.953558	.3711359
Stddev	.0058269	.028778	.0041088	.016561	.0021256	.006659	.0019285
%RSD	.7088207	1.502116	.4304897	.8406553	.2621378	.3408538	.5196108
#1	.8156486	1.884223	.9497109	1.950929	.8086695	1.960812	.3727180
#2	.8234561	1.922673	.9569057	1.979993	.8129066	1.947723	.3717020
#3	.8270450	1.940538	.9567469	1.979220	.8110879	1.952140	.3689878

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1738719	.1944341	8.906124	.4109635	.1973880	.2996772	3.112673
Stddev	.0015239	.0009660	.065117	.0012628	.0007044	.0010116	.003410
%RSD	.8764594	.4968105	.7311439	.3072888	.3568510	.3375647	.1095544
#1	.1756312	.1933459	8.980977	.4123948	.1966305	.2987742	3.108742
#2	.1729600	.1947659	8.874856	.4100065	.1975101	.2994870	3.114825
#3	.1730246	.1951904	8.862538	.4104893	.1980234	.3007704	3.114454

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1945981	2.961184	.4915785	.0734142	317.3579	.2877097	.2341762
Stddev	.0015207	.026686	.0025128	.0004537	3.7659	.0024207	.0004323
%RSD	.7814608	.9011878	.5111679	.6179732	1.186656	.8413753	.1845959
#1	.1958182	2.991829	.4887694	.0739381	319.4417	.2904468	.2340322
#2	.1928944	2.948649	.4923536	.0731579	319.6215	.2868323	.2338342
#3	.1950817	2.943073	.4936123	.0731467	313.0106	.2858501	.2346621

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.02829	.2454834	.4313265	.6881285	.1903105	1.195477	5.932571
Stddev	.02558	.0029895	.0019872	.0031567	.0013423	.007109	.036383
%RSD	.2319710	1.217801	.4607185	.4587368	.7053089	.5946595	.6132809
#1	11.05510	.2489339	.4290382	.6846763	.1914601	1.191273	5.891158
#2	11.00415	.2436720	.4326179	.6888414	.1906361	1.191472	5.947159
#3	11.02561	.2438442	.4323235	.6908678	.1888354	1.203685	5.959397

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08MSD Acquired: 1/30/2025 14:47:20 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2915236	.1813016	.2245983
Stddev	.0030154	.0011457	.0012509
%RSD	1.034366	.6319133	.5569404
#1	.2886614	.1824951	.2259578
#2	.2912377	.1802106	.2243410
#3	.2946719	.1811992	.2234960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2638.731	51954.11	10324.93	1746.486	3811.592
Stddev	6.485	50.32	76.32	2.087	11.693
%RSD	.2457646	.0968598	.7392259	.1194710	.3067738
#1	2645.904	51925.31	10237.45	1747.141	3825.084
#2	2633.282	51924.80	10359.47	1744.151	3805.279
#3	2637.008	52012.21	10377.89	1748.167	3804.412

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08A Acquired: 1/30/2025 14:51:28 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8070846	1.921945	.9439772	1.935490	.7958130	1.937002	.3613193
Stddev	.0025446	.012417	.0035156	.011412	.0035692	.011020	.0008203
%RSD	.3152797	.6460713	.3724258	.5895974	.4484965	.5689112	.2270194
#1	.8079580	1.909917	.9417052	1.924051	.7924589	1.943031	.3621125
#2	.8042183	1.921199	.9421996	1.935545	.7954161	1.924283	.3604744
#3	.8090774	1.934718	.9480266	1.946874	.7995641	1.943692	.3613710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1767706	.1929222	8.846961	.4115932	.1953266	.2963146	3.054073
Stddev	.0006520	.0005024	.011648	.0011065	.0006362	.0005754	.017870
%RSD	.3688508	.2604117	.1316613	.2688335	.3256993	.1941933	.5851359
#1	.1760181	.1926443	8.834976	.4106356	.1949479	.2958118	3.074490
#2	.1771681	.1926200	8.847669	.4113394	.1949709	.2961898	3.041272
#3	.1771255	.1935021	8.858240	.4128045	.1960611	.2969422	3.046457

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1924494	2.941023	.4877030	.0729699	302.5797	.2814755	.2330662
Stddev	.0005189	.013297	.0013160	.0006441	2.2317	.0027098	.0006014
%RSD	.2696302	.4521284	.2698430	.8826927	.7375721	.9627086	.2580484
#1	.1918560	2.952694	.4870252	.0722932	301.2762	.2814965	.2325556
#2	.1928180	2.943829	.4868640	.0735755	301.3062	.2841747	.2337291
#3	.1926741	2.926547	.4892198	.0730410	305.1566	.2787552	.2329139

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.68939	.2489938	.4261760	.6845430	.1864364	1.187592	5.853718
Stddev	.05326	.0007093	.0018815	.0018952	.0012146	.002303	.021405
%RSD	.4982596	.2848586	.4414909	.2768624	.6514676	.1939029	.3656686
#1	10.74906	.2482576	.4247475	.6863414	.1864715	1.189664	5.861491
#2	10.67245	.2490512	.4254726	.6825639	.1876331	1.185112	5.829512
#3	10.64666	.2496727	.4283079	.6847237	.1852047	1.187999	5.870151

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1209-08A Acquired: 1/30/2025 14:51:28 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2852789	.1770939	.2207505
Stddev	.0062369	.0009842	.0004666
%RSD	2.186259	.5557359	.2113714
#1	.2876908	.1774269	.2211590
#2	.2781962	.1759864	.2202420
#3	.2899497	.1778684	.2208505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.080	51547.37	10101.66	1754.653	3836.045
Stddev	5.759	80.46	57.52	3.839	8.392
%RSD	.2164227	.1560847	.5694430	.2187677	.2187682
#1	2666.954	51582.17	10159.87	1757.114	3836.974
#2	2660.844	51455.38	10044.85	1750.230	3843.934
#3	2655.443	51604.58	10100.27	1756.616	3827.227

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166318TB Acquired: 1/30/2025 14:55:36 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004425	-.007385	-.001174	.0066040	-.001009	-.007409
Stddev	.003104	.000960	.000213	.0025052	.001028	.007702
%RSD	70.15327	13.00642	18.16876	37.93475	101.8611	103.9658
#1	-.008006	-.006346	-.000997	.0041385	-.001762	-.014937
#2	-.002507	-.007566	-.001410	.0091471	-.001428	.000457
#3	-.002761	-.008241	-.001113	.0065262	.000162	-.007746

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002662	-.000154	-.000424	-.027685	.0008205	-.000362
Stddev	.000780	.000062	.000063	.004829	.0000741	.000048
%RSD	29.31537	40.28102	14.94146	17.44192	9.035070	13.16024
#1	-.002076	-.000099	-.000394	-.032259	.0007856	-.000410
#2	-.003548	-.000141	-.000382	-.028160	.0009057	-.000359
#3	-.002363	-.000221	-.000497	-.022636	.0007703	-.000315

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008285	-.008919	.0004164	-.008095	.0008395	.0005966
Stddev	.0002694	.006267	.0002720	.007790	.0002490	.0003704
%RSD	32.51367	70.25973	65.31213	96.23436	29.65323	62.09575
#1	.0005187	-.015013	.0001135	.000739	.0008671	.0002051
#2	.0010073	-.002493	.0004960	-.011043	.0010736	.0009416
#3	.0009596	-.009252	.0006396	-.013981	.0005780	.0006431

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 316.5842	-.000748	-.002254	.0827844	-.002970	.0001240
Stddev	4.8493	.000564	.000154	.0138140	.000140	.0000700
%RSD	1.531742	75.43975	6.816356	16.68671	4.718363	56.50165
#1	319.3217	-.001038	-.002292	.0669586	-.002907	.0001715
#2	310.9852	-.000098	-.002085	.0924248	-.003131	.0000435
#3	319.4457	-.001107	-.002385	.0889698	-.002872	.0001569

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166318TB Acquired: 1/30/2025 14:55:36 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001582	.0002590	.0000052	.0007261	F .0397497	-.008698
Stddev	.0003387	.0001617	.0073989	.0025193	.0063279	.000360
%RSD	214.0269	62.41429	143422.8	346.9725	15.91934	4.137882
#1	.0002833	.0003910	.0084318	-.000611	.0328313	-.008355
#2	-.000225	.0003074	-.005428	.003632	.0452446	-.008666
#3	.000417	.0000787	-.002989	-.000843	.0411731	-.009073

Elem	Sr4077
Units	ppm
Avg	-.000473
Stddev	.000026
%RSD	5.466928
#1	-.000452
#2	-.000466
#3	-.000502

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.813	51774.49	10171.93	1772.564	3856.761
Stddev	2.056	122.99	27.89	10.307	4.328
%RSD	.0770102	.2375478	.2741472	.5814861	.1122264
#1	2670.803	51673.37	10192.59	1764.911	3858.749
#2	2671.187	51911.40	10183.00	1784.284	3859.738
#3	2667.450	51738.68	10140.21	1768.497	3851.796

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166342BL Acquired: 1/30/2025 15:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000420	-.001359	-.000178	-.001886	-.002834	-.009666	-.001754
Stddev	.001932	.001739	.000613	.001608	.000261	.006517	.000691
%RSD	460.4332	127.9840	343.9606	85.24295	9.198837	67.42263	39.39951
#1	-.002363	-.000649	.000374	-.000280	-.003059	-.008320	-.001828
#2	.001501	-.003341	-.000837	-.001882	-.002548	-.003927	-.001029
#3	-.000397	-.000087	-.000071	-.003496	-.002894	-.016751	-.002405

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000434	-.000198	-.016919	-.000225	-.000328	.0005090	-.016154
Stddev	.0000471	.000012	.003419	.000189	.000182	.0003436	.001206
%RSD	108.4793	6.289233	20.20640	84.05868	55.35159	67.50637	7.466436
#1	-.000009	-.000209	-.013082	-.000431	-.000203	.0007643	-.014880
#2	.000059	-.000202	-.019640	-.000058	-.000245	.0006443	-.016304
#3	.000081	-.000185	-.018037	-.000186	-.000537	.0001183	-.017278

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000654	-.012712	-.000345	.0005552	.2733021	-.000952	-.003079
Stddev	.000079	.005857	.000059	.0003890	.0051437	.001154	.000183
%RSD	12.06783	46.07066	17.18189	70.06158	1.882075	121.2407	5.954473
#1	-.000738	-.006045	-.000295	.0007069	.2764346	-.000972	-.002867
#2	-.000643	-.017027	-.000411	.0001132	.2673657	.000212	-.003193
#3	-.000582	-.015064	-.000331	.0008455	.2761061	-.002095	-.003176

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1604620	-.002979	-.000593	-.000533	.0005633	-.005509	-.000137
Stddev	.0310548	.000302	.000308	.000491	.0001438	.001324	.001015
%RSD	19.35335	10.12582	51.91157	92.11179	25.52967	24.04257	738.4318
#1	.1769921	-.002825	-.000516	-.000926	.0004830	-.006338	-.000064
#2	.1797555	-.003326	-.000332	-.000692	.0004775	-.006208	-.001187
#3	.1246386	-.002785	-.000933	.000018	.0007293	-.003981	.000838

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166342BL Acquired: 1/30/2025 15:00:05 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.008126	-.001435	-.000456
Stddev	.001230	.000519	.000020
%RSD	15.14174	36.16752	4.378415
#1	-.008344	-.001932	-.000474
#2	-.006802	-.001475	-.000461
#3	-.009234	-.000897	-.000435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.132	55026.34	10458.25	1899.523	4397.779
Stddev	13.045	443.02	13.73	12.291	13.760
%RSD	.4529326	.8051077	.1313282	.6470534	.3128890
#1	2879.806	55402.18	10469.05	1911.041	4386.220
#2	2893.337	55138.97	10442.79	1900.944	4412.999
#3	2867.253	54537.88	10462.91	1886.583	4394.117

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166342BS Acquired: 1/30/2025 15:04:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8015744	2.082234	.9639523	1.977693	.7921339	1.872959
Stddev	.0038613	.024385	.0043549	.009691	.0018565	.008520
%RSD	.4817120	1.171085	.4517746	.4900235	.2343688	.4549049
#1	.8014245	2.061705	.9628338	1.971384	.7899926	1.872118
#2	.7977902	2.075810	.9602657	1.972844	.7932935	1.881868
#3	.8055084	2.109188	.9687573	1.988852	.7931155	1.864890

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1777844	.1871652	.1910700	.9517501	.4093844	.1926389
Stddev	.0013242	.0005421	.0008397	.0088023	.0019666	.0008523
%RSD	.7448251	.2896566	.4394499	.9248499	.4803897	.4424424
#1	.1782286	.1876698	.1907550	.9469119	.4078478	.1920378
#2	.1762953	.1872337	.1904335	.9464282	.4116007	.1922645
#3	.1788295	.1865920	.1920217	.9619102	.4087048	.1936143

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3089304	2.928568	.1824721	1.855428	.4850635	.0743064
Stddev	.0001822	.004479	.0010741	.014326	.0017511	.0008232
%RSD	.0589640	.1529344	.5886212	.7721084	.3610139	1.107775
#1	.3088230	2.923545	.1829446	1.851770	.4846089	.0752110
#2	.3088274	2.930012	.1812428	1.871229	.4835846	.0736016
#3	.3091407	2.932146	.1832290	1.843286	.4869972	.0741065

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.138291	.2786754	.2029118	9.794295	.2682587	.4080560
Stddev	.006977	.0011157	.0011014	.013154	.0005270	.0012300
%RSD	.2223054	.4003732	.5427705	.1342994	.1964371	.3014349
#1	3.133775	.2774324	.2039994	9.809383	.2688473	.4077458
#2	3.146326	.2795904	.2029388	9.788261	.2680981	.4070107
#3	3.134772	.2790033	.2017972	9.785241	.2678307	.4094114

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166342BS Acquired: 1/30/2025 15:04:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6656693	.1831859	F .6971763	5.564808	F -.012375	.1832445
Stddev	.0032646	.0006705	.0037649	.027700	.002121	.0018035
%RSD	.4904240	.3660289	.5400203	.4977673	17.14299	.9841943
#1	.6641459	.1825977	.6943964	5.544318	-.013494	.1818416
#2	.6634448	.1830442	.6956717	5.553782	-.009929	.1852788
#3	.6694171	.1839160	.7014608	5.596323	-.013703	.1826130

Elem	Sr4077
Units	ppm
Avg	.1802367
Stddev	.0002364
%RSD	.1311383
#1	.1804365
#2	.1799758
#3	.1802978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2894.870	55786.26	10410.58	1895.186	4380.640
Stddev	5.433	82.84	7.00	6.407	13.345
%RSD	.1876894	.1484975	.0672392	.3380855	.3046312
#1	2896.584	55880.84	10406.39	1888.168	4388.779
#2	2899.240	55726.55	10418.66	1896.663	4387.902
#3	2888.787	55751.40	10406.69	1900.725	4365.239

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-03 Acquired: 1/30/2025 15:08:25 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7108074	-.003540	20.98615	-.030193	7.680545	53.23689
Stddev	.0010147	.001235	.03447	.001911	.025179	.00109
%RSD	.1427573	34.89124	.1642327	6.329939	.3278248	.0020434
#1	.7107295	-.002805	20.96193	-.028050	7.701939	53.23631
#2	.7118589	-.002849	20.97090	-.030807	7.652798	53.23621
#3	.7098339	-.004965	21.02561	-.031721	7.686898	53.23814

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.484155	.0056745	-.000040	246.0293	.1841385	.0999100
Stddev	.006502	.0000176	.000167	.6781	.0006519	.0001888
%RSD	.4381255	.3091988	414.2722	.2756005	.3540547	.1889442
#1	1.490496	.0056855	-.000090	246.8123	.1839000	.0997332
#2	1.484465	.0056542	-.000177	245.6338	.1836394	.0998879
#3	1.477502	.0056836	.000146	245.6419	.1848761	.1001088

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.292189	220.7672	2.580183	45.49215	.2573355	.0106097
Stddev	.003320	.6339	.009704	.06758	.0003383	.0002954
%RSD	.2569226	.2871238	.3760940	.1485508	.1314718	2.784499
#1	1.292232	221.4991	2.590885	45.56625	.2574657	.0107146
#2	1.288848	220.4095	2.577706	45.43392	.2569514	.0102762
#3	1.295488	220.3930	2.571957	45.47627	.2575894	.0108384

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.35184	.2547110	5.348235	19.56275	.2198563	.0163710
Stddev	.04527	.0016066	.008778	.00935	.0014264	.0004332
%RSD	.0936268	.6307394	.1641203	.0478184	.6488045	2.646230
#1	48.36813	.2558937	5.343186	19.57247	.2212775	.0164707
#2	48.30068	.2528819	5.343149	19.55380	.2198667	.0158967
#3	48.38672	.2553573	5.358370	19.56199	.2184247	.0167457

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-03 Acquired: 1/30/2025 15:08:25 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5002161	3.296652	5.098803	8.196883	F 10.78853	.0704048
Stddev	.0014041	.010446	.027997	.014917	.02032	.0011050
%RSD	.2806934	.3168630	.5490986	.1819824	.1883273	1.569464
#1	.4988242	3.308378	5.068284	8.200608	10.80194	.0701586
#2	.5001922	3.293235	5.104827	8.180457	10.76515	.0716121
#3	.5016321	3.288342	5.123298	8.209585	10.79849	.0694436

Elem	Sr4077
Units	ppm
Avg	.9218621
Stddev	.0061266
%RSD	.6645867
#1	.9150737
#2	.9235323
#3	.9269805

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2794.450	54715.69	11222.46	1860.537	3689.416
Stddev	4.289	178.41	18.64	6.427	2.739
%RSD	.1534752	.3260715	.1660857	.3454353	.0742519
#1	2793.372	54774.46	11220.11	1863.880	3691.123
#2	2799.174	54857.31	11242.16	1864.603	3690.868
#3	2790.802	54515.31	11205.10	1853.128	3686.256

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-07 Acquired: 1/30/2025 15:12:37 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0787461	-.022833	2.914865	-.045988	.0145436	95.85603
Stddev	.0024287	.000881	.024986	.003891	.0007773	.27490
%RSD	3.084186	3.858728	.8571922	8.460777	5.344525	.2867836
#1	.0786462	-.023775	2.890528	-.047662	.0144463	95.95943
#2	.0812231	-.022697	2.913614	-.041540	.0138195	96.06423
#3	.0763689	-.022028	2.940453	-.048761	.0153649	95.54442

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.250163	.0065284	.0045600	709.5524	.2610064	.0912096
Stddev	.004350	.0000429	.0003349	1.4480	.0007108	.0010057
%RSD	.3479159	.6573855	7.344931	.2040681	.2723467	1.102648
#1	1.250365	.0065573	.0042055	708.3386	.2601906	.0903360
#2	1.254408	.0064791	.0046035	711.1551	.2614931	.0909837
#3	1.245716	.0065489	.0048711	709.1636	.2613353	.0923090

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.278981	192.6538	2.828619	179.6421	.2553706	.0050391
Stddev	.011685	.3804	.007111	.2289	.0029491	.0004873
%RSD	.9136027	.1974776	.2514021	.1274418	1.154841	9.670394
#1	1.269014	193.0284	2.833479	179.9063	.2528712	.0054987
#2	1.276090	192.6652	2.831920	179.5029	.2546173	.0050903
#3	1.291840	192.2678	2.820457	179.5171	.2586233	.0045282

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	63.28952	.3747425	1.670856	20.58267	.5846956	.0160716
Stddev	.17640	.0012383	.006156	.10307	.0012868	.0006027
%RSD	.2787189	.3304312	.3684332	.5007739	.2200808	3.750225
#1	63.27544	.3757410	1.673850	20.61103	.5832179	.0165269
#2	63.47253	.3751294	1.674942	20.66860	.5855691	.0162997
#3	63.12058	.3733569	1.663775	20.46839	.5852998	.0153881

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1206-07 Acquired: 1/30/2025 15:12:37 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0969282	4.679165	F 23.39736	9.089525	F 31.31762	.0110828
Stddev	.0010888	.018034	.08702	.084000	.29841	.0005815
%RSD	1.123328	.3854184	.3719350	.9241452	.9528495	5.247163
#1	.0971131	4.686021	23.30117	9.007907	31.04207	.0117542
#2	.0957588	4.692766	23.42027	9.084947	31.27621	.0107359
#3	.0979128	4.658708	23.47064	9.175721	31.63457	.0107584

Elem	Sr4077
Units	ppm
Avg	1.819407
Stddev	.016703
%RSD	.9180398
#1	1.829034
#2	1.829067
#3	1.800120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2667.090	53812.66	11334.05	1816.448	3297.073
Stddev	15.615	30.23	1.77	5.288	23.814
%RSD	.5854671	.0561699	.0156312	.2911193	.7222720
#1	2676.637	53822.74	11332.36	1811.826	3314.902
#2	2675.563	53836.55	11335.89	1815.304	3306.289
#3	2649.070	53778.68	11333.88	1822.215	3270.029

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03 Acquired: 1/30/2025 15:16:58 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0636373	-.010816	3.381284	-.046843	.0044852	95.51683	.9990632
Stddev	.0021360	.001862	.008230	.002916	.0012582	.38862	.0070886
%RSD	3.356571	17.21054	.2434115	6.224753	28.05192	.4068613	.7095235
#1	.0660466	-.012511	3.376859	-.047637	.0057597	95.81830	1.004827
#2	.0619754	-.011115	3.376212	-.043612	.0044519	95.07824	.991148
#3	.0628897	-.008824	3.390780	-.049279	.0032440	95.65396	1.001215

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084145	.0040097	336.5377	.2502421	.1422483	1.127789	236.6531
Stddev	.0000760	.0001952	4.0168	.0011085	.0001411	.004935	1.2049
%RSD	.9025748	4.867621	1.193567	.4429549	.0991640	.4375846	.5091524
#1	.0084296	.0038558	332.0530	.2502113	.1421144	1.124212	237.8580
#2	.0083321	.0039440	337.7552	.2513657	.1422347	1.125737	236.6532
#3	.0084817	.0042292	339.8050	.2491494	.1423956	1.133419	235.4482

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.679637	176.0096	.4687324	.0103676	37.00331	.3775027	3.438612
Stddev	.025579	.7397	.0010684	.0004300	.18611	.0026182	.017892
%RSD	.6951406	.4202658	.2279287	4.147591	.5029626	.6935708	.5203224
#1	3.700516	176.5273	.4679374	.0108298	37.11355	.3805153	3.437754
#2	3.651105	175.1624	.4683129	.0102936	37.10795	.3762154	3.456917
#3	3.687289	176.3391	.4699468	.0099793	36.78843	.3757772	3.421165

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.86030	.1580656	.0089578	.2100746	3.878055	7.028596	8.866231
Stddev	.11283	.0014063	.0004490	.0018004	.018833	.046408	.023724
%RSD	.6317542	.8896798	5.012378	.8570413	.4856202	.6602674	.2675760
#1	17.94259	.1595890	.0094712	.2093425	3.894199	7.064418	8.838842
#2	17.90663	.1577907	.0086383	.2087556	3.857366	7.045201	8.879474
#3	17.73168	.1568170	.0087640	.2121258	3.882601	6.976171	8.880377

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03 Acquired: 1/30/2025 15:16:58 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.196136	.0679091	.3125405
Stddev	.005337	.0016789	.0032251
%RSD	.1271819	2.472295	1.031885
#1	4.194839	.0697055	.3148147
#2	4.202001	.0663797	.3088496
#3	4.191567	.0676421	.3139572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2860.662	56791.73	11618.43	1939.042	3523.884
Stddev	2.061	263.56	33.84	11.601	3.819
%RSD	.0720636	.4640746	.2912904	.5982596	.1083678
#1	2860.921	56849.32	11627.85	1940.949	3526.856
#2	2862.582	56504.14	11646.57	1926.606	3525.218
#3	2858.484	57021.72	11580.88	1949.570	3519.577

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03DUP Acquired: 1/30/2025 15:21:10 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0608152	-.011701	3.394102	-.046883	.0053025	97.64719	1.007747
Stddev	.0028025	.000754	.019132	.003453	.0021179	.06725	.002222
%RSD	4.608192	6.444842	.5636706	7.366233	39.94084	.0688703	.2205003
#1	.0576708	-.011184	3.372062	-.050298	.0072411	97.62636	1.009765
#2	.0617253	-.011353	3.406427	-.043392	.0030422	97.72238	1.008110
#3	.0630495	-.012566	3.403817	-.046957	.0056243	97.59281	1.005366

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086593	.0040379	344.5710	.2586421	.1439931	1.125221	240.4765
Stddev	.0000888	.0007356	2.0580	.0023923	.0007175	.007888	1.8799
%RSD	1.025147	18.21722	.5972548	.9249570	.4982715	.7010101	.7817423
#1	.0085935	.0032593	346.0998	.2613463	.1433590	1.116914	242.6114
#2	.0087603	.0041332	345.3821	.2577784	.1438485	1.126140	239.7494
#3	.0086241	.0047212	342.2310	.2568015	.1447719	1.132609	239.0687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.703448	178.3955	.4727205	.0098099	37.57017	.3836990	3.542672
Stddev	.010629	.2490	.0032289	.0001814	.25132	.0015343	.017583
%RSD	.2870147	.1395511	.6830399	1.849426	.6689288	.3998683	.4963272
#1	3.713301	178.4040	.4695105	.0099714	37.85943	.3825593	3.562803
#2	3.704860	178.6401	.4726831	.0098447	37.44574	.3830943	3.534890
#3	3.692183	178.1424	.4759679	.0096136	37.40534	.3854436	3.530322

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.17755	.1603299	.0092864	.2118054	3.976060	8.326493	8.772126
Stddev	.15168	.0017826	.0003842	.0027757	.004872	.056785	.044222
%RSD	.8344150	1.111835	4.137140	1.310473	.1225386	.6819840	.5041215
#1	18.35127	.1620422	.0088808	.2087670	3.981660	8.390316	8.724179
#2	18.07141	.1604631	.0096449	.2124410	3.973726	8.281558	8.780888
#3	18.10997	.1584844	.0093334	.2142081	3.972794	8.307606	8.811311

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03DUP Acquired: 1/30/2025 15:21:10 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.146418	.0672113	.3153922
Stddev	.031587	.0019210	.0008994
%RSD	.7617960	2.858214	.2851742
#1	4.113400	.0653251	.3143691
#2	4.149507	.0691654	.3160582
#3	4.176347	.0671434	.3157493

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2871.739	55527.74	11441.91	1876.985	3540.696
Stddev	8.723	391.40	21.64	6.263	18.333
%RSD	.3037392	.7048716	.1891019	.3336567	.5177660
#1	2880.124	55092.71	11427.63	1870.823	3561.046
#2	2872.380	55639.16	11431.29	1876.790	3535.572
#3	2862.714	55851.34	11466.80	1883.343	3525.471

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV04 Acquired: 1/30/2025 15:25:23 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.888408	5.087885	4.746005	4.952405	4.977046	9.665837	9.354081
Stddev	.065836	.070767	.073832	.064983	.073249	.067011	.117151
%RSD	1.346787	1.390900	1.555656	1.312160	1.471742	.6932789	1.252409
#1	4.913838	5.109156	4.779515	4.970337	4.996396	9.641788	9.444591
#2	4.813650	5.008922	4.661362	4.880338	4.896065	9.614170	9.221761
#3	4.937737	5.145577	4.797140	5.006539	5.038678	9.741554	9.395892

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2308155	2.372887	23.41638	1.002816	2.373284	1.227966	4.935850
Stddev	.0017756	.037505	.14102	.007885	.038312	.017411	.018549
%RSD	.7692605	1.580548	.6022201	.7862423	1.614302	1.417907	.3758079
#1	.2308344	2.390776	23.39130	1.011875	2.392303	1.235943	4.956564
#2	.2290305	2.329787	23.28958	.999071	2.329184	1.207995	4.930214
#3	.2325815	2.398097	23.56825	.997502	2.398365	1.239959	4.920772

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.280196	23.42702	2.377134	1.219133	25.73481	2.386064	2.480679
Stddev	.013131	.16552	.038994	.007334	.18080	.018448	.014711
%RSD	.5758570	.7065362	1.640393	.6015522	.7025533	.7731739	.5930198
#1	2.281800	23.40479	2.397616	1.227592	25.94354	2.379652	2.496638
#2	2.266337	23.27374	2.332167	1.215243	25.62678	2.371678	2.477738
#3	2.292451	23.60253	2.401619	1.214564	25.63412	2.406863	2.467660

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.22473	4.559271	4.959178	4.773211	4.682757	5.196909	4.810362
Stddev	.18865	.036373	.071459	.078720	.030300	.023722	.079446
%RSD	.7478929	.7977911	1.440944	1.649195	.6470579	.4564700	1.651555
#1	25.44147	4.550832	4.982517	4.811835	4.687126	5.222960	4.838427
#2	25.13527	4.527858	4.878968	4.682639	4.650509	5.176551	4.720693
#3	25.09745	4.599122	5.016050	4.825158	4.710635	5.191216	4.871966

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV04 Acquired: 1/30/2025 15:25:23 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.751529	4.695717	4.700450
Stddev	.074643	.034796	.057842
%RSD	1.570928	.7410239	1.230559
#1	4.790109	4.702173	4.726682
#2	4.665491	4.658145	4.634140
#3	4.798987	4.726833	4.740528

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2794.100	53889.53	10175.04	1814.820	4051.853
Stddev	32.269	323.25	69.67	11.974	54.861
%RSD	1.154899	.5998437	.6847336	.6598091	1.353971
#1	2782.354	53527.49	10182.51	1801.144	4025.516
#2	2830.597	53991.91	10240.67	1823.421	4114.916
#3	2769.350	54149.21	10101.93	1819.894	4015.126

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB04 Acquired: 1/30/2025 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.001802	-.000753	-.000195	.0002134	-.002705	-.012474	-.001798
Stddev	.000777	.000964	.001033	.0020207	.001167	.001521	.000592
%RSD	43.12097	128.0293	529.6269	946.8427	43.11886	12.19659	32.94675
#1	-.002481	-.001340	-.001144	.0003742	-.003982	-.012642	-.002436
#2	-.001972	-.001280	.000906	-.001883	-.001695	-.013905	-.001693
#3	-.000954	.000360	-.000347	.002149	-.002439	-.010876	-.001265

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000440	-.000218	-.014611	.0001770	-.000095	.0001450	-.017454
Stddev	.0000307	.000067	.006065	.0000719	.000086	.0003431	.002795
%RSD	69.68749	30.57994	41.51047	40.61301	90.00334	236.6080	16.01462
#1	.0000786	-.000289	-.013724	.0001123	-.000190	.0001027	-.014323
#2	.0000199	-.000207	-.009039	.0001643	-.000073	.0005073	-.018340
#3	.0000336	-.000157	-.021071	.0002544	-.000023	-.000175	-.019699

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000536	.0033503	-.000316	.0004446	.0742570	-.001590	-.002889
Stddev	.000151	.0126168	.000530	.0003580	.0120976	.000766	.000045
%RSD	28.09450	376.5821	167.7551	80.51619	16.29148	48.15451	1.556217
#1	-.000509	-.005016	.000265	.0007752	.0622069	-.000777	-.002915
#2	-.000401	.017862	-.000775	.0004943	.0741628	-.001696	-.002915
#3	-.000699	-.002795	-.000439	.0000644	.0864015	-.002297	-.002837

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1159660	.0019206	-.000264	-.000231	.0010477	-.001057	.0009277
Stddev	.0126071	.0001621	.000045	.000332	.0002226	.009043	.0014056
%RSD	10.87135	8.440013	16.83468	143.9582	21.24171	855.6506	151.5155
#1	.1263972	.0020938	-.000232	.000022	.0009862	-.005671	.0020356
#2	.1019566	.0018953	-.000246	-.000607	.0012946	.009363	-.000653
#3	.1195443	.0017726	-.000315	-.000107	.0008624	-.006862	.001401

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB04 Acquired: 1/30/2025 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005654	-.004115	-.000323
Stddev	.001354	.000848	.000027
%RSD	23.94986	20.60066	8.312391
#1	-.005070	-.004224	-.000312
#2	-.004690	-.004902	-.000304
#3	-.007202	-.003218	-.000354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.740	57562.70	10991.27	1959.915	4493.497
Stddev	6.481	1330.94	22.02	42.684	13.863
%RSD	.2195568	2.312164	.2003495	2.177853	.3085057
#1	2947.230	58333.13	10966.14	1982.830	4499.570
#2	2959.167	58329.10	11000.47	1986.248	4503.287
#3	2948.825	56025.86	11007.19	1910.667	4477.635

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03LX5 Acquired: 1/30/2025 15:33:56 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132155	-.002927	.7152043	-.008190	-.000578	20.84055	.2089108
Stddev	.0008848	.002690	.0040464	.001563	.002064	.06401	.0006654
%RSD	6.695587	91.90435	.5657718	19.07876	356.9884	.3071419	.3185034
#1	.0134589	-.004882	.7105344	-.008826	-.001006	20.82779	.2093233
#2	.0122344	.000141	.7174070	-.009334	-.002395	20.90997	.2092659
#3	.0139531	-.004039	.7176715	-.006409	.001666	20.78387	.2081432

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020427	-.000566	75.45128	.0589696	.0290233	.2679607	51.83220
Stddev	.0000479	.000198	.11834	.0007991	.0002718	.0011522	.41217
%RSD	2.343066	35.00876	.1568415	1.355144	.9363869	.4299911	.7951947
#1	.0020353	-.000773	75.42701	.0585869	.0287095	.2669734	51.89552
#2	.0020938	-.000546	75.57987	.0584338	.0291735	.2692267	51.39204
#3	.0019989	-.000379	75.34695	.0598881	.0291868	.2676821	52.20904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8246043	38.71126	.0975848	.0026321	7.608986	.0835885	.7950918
Stddev	.0017931	.11753	.0008926	.0004924	.060770	.0015787	.0093505
%RSD	.2174469	.3036061	.9146893	18.70910	.7986655	1.888618	1.176024
#1	.8225345	38.57650	.0968197	.0025878	7.647329	.0852086	.7899001
#2	.8255953	38.79255	.0985654	.0021633	7.538918	.0835020	.7894891
#3	.8256832	38.76472	.0973693	.0031452	7.640710	.0820549	.8058862

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.759242	.0331096	.0016568	.0387479	.8695623	1.564145	1.757776
Stddev	.014586	.0008228	.0003400	.0003785	.0020268	.008923	.011708
%RSD	.3880006	2.485188	20.52097	.9767961	.2330822	.5704843	.6660754
#1	3.775676	.0336042	.0015623	.0390360	.8700533	1.561987	1.744431
#2	3.754216	.0321598	.0013740	.0388884	.8712985	1.556499	1.766324
#3	3.747834	.0335649	.0020340	.0383192	.8673351	1.573950	1.762572

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03LX5 Acquired: 1/30/2025 15:33:56 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8182456	.0082888	.0664116
Stddev	.0116674	.0006165	.0005679
%RSD	1.425908	7.437507	.8550654
#1	.8048803	.0077720	.0665248
#2	.8234600	.0081232	.0669143
#3	.8263965	.0089711	.0657957

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2805.468	54722.61	10850.89	1865.320	3943.324
Stddev	8.052	573.62	60.20	22.968	16.784
%RSD	.2870273	1.048230	.5547868	1.231318	.4256352
#1	2814.320	54862.31	10912.93	1873.366	3962.538
#2	2798.579	55213.47	10847.02	1883.182	3931.518
#3	2803.505	54092.04	10792.72	1839.411	3935.916

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03MS Acquired: 1/30/2025 15:38:07 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7831613	1.941921	5.358195	1.639628	.3198236	99.48008
Stddev	.0003069	.004383	.009586	.000515	.0008737	.36942
%RSD	.0391864	.2256980	.1788995	.0314150	.2731927	.3713499
#1	.7834578	1.944697	5.348238	1.639680	.3198331	99.75489
#2	.7828450	1.944199	5.358987	1.639089	.3189452	99.06013
#3	.7831813	1.936868	5.367360	1.640115	.3206926	99.62521

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.297616	.1707649	.1957342	159.1961	.6379128	.3792382
Stddev	.005545	.0008034	.0001535	.4806	.0014210	.0009947
%RSD	.4273375	.4704508	.0784205	.3018748	.2227566	.2622959
#1	1.297139	.1715796	.1955706	159.5460	.6368367	.3781787
#2	1.292325	.1707419	.1958751	158.6482	.6395236	.3793836
#3	1.303384	.1699733	.1957568	159.3942	.6373782	.3801522

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.816190	233.1808	4.088656	59.29954	1.031375	.0763105
Stddev	.000971	1.5856	.011653	.17736	.001608	.0009474
%RSD	.0534747	.6799787	.2850151	.2990932	.1558601	1.241453
#1	1.815233	232.2202	4.092807	59.41162	1.029685	.0763889
#2	1.816161	232.3112	4.075496	59.09506	1.031555	.0753264
#3	1.817175	235.0109	4.097665	59.39195	1.032885	.0772163

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.60621	.5671982	6.799010	25.41504	.3478075	.3732649
Stddev	.23460	.0024498	.003835	.20257	.0016725	.0007716
%RSD	.6408653	.4319087	.0564118	.7970647	.4808605	.2067153
#1	36.41451	.5680046	6.802863	25.27928	.3462251	.3729243
#2	36.53632	.5644469	6.795193	25.31795	.3476400	.3727222
#3	36.86781	.5691431	6.798974	25.64788	.3495574	.3741482

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03MS Acquired: 1/30/2025 15:38:07 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.236725	3.869477	F 11.18463	F 15.34143	2.792241	.2682505
Stddev	.000854	.011949	.08778	.05541	.001552	.0011232
%RSD	.0690772	.3088134	.7848562	.3611777	.0555770	.4187275
#1	1.235741	3.872629	11.12893	15.30161	2.790494	.2681627
#2	1.237283	3.856268	11.13915	15.31796	2.792769	.2671738
#3	1.237150	3.879535	11.28582	15.40471	2.793460	.2694151

Elem	Sr4077
Units	ppm
Avg	.4674587
Stddev	.0015162
%RSD	.3243463
#1	.4684551
#2	.4657138
#3	.4682072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2968.380	58494.02	11482.68	1974.136	3710.622
Stddev	1.687	154.49	65.20	2.206	3.994
%RSD	.0568387	.2641089	.5678233	.1117549	.1076380
#1	2970.326	58419.04	11407.56	1971.866	3714.311
#2	2967.466	58671.69	11515.94	1976.273	3706.381
#3	2967.346	58391.34	11524.55	1974.268	3711.173

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03MSD Acquired: 1/30/2025 15:42:05 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7947888	1.953313	5.433827	1.657812	.3221016	99.61044
Stddev	.0046872	.006071	.010923	.006143	.0004904	.63827
%RSD	.5897477	.3108040	.2010238	.3705656	.1522623	.6407686
#1	.7960511	1.946607	5.441962	1.660331	.3215417	100.3399
#2	.7895997	1.958436	5.421412	1.650810	.3224552	99.3370
#3	.7987157	1.954896	5.438107	1.662296	.3223078	99.1545

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.331846	.1697037	.1981792	160.2703	.6284128	.3842509
Stddev	.007339	.0010865	.0007351	1.0314	.0029574	.0009258
%RSD	.5510092	.6402074	.3709209	.6435231	.4706142	.2409476
#1	1.339891	.1709581	.1987675	161.4165	.6262131	.3851620
#2	1.330131	.1690931	.1973552	159.9771	.6272504	.3833110
#3	1.325518	.1690600	.1984150	159.4172	.6317748	.3842796

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.842125	237.6098	4.173251	59.61005	1.046776	.0768536
Stddev	.006365	.7961	.024871	.37292	.001674	.0006593
%RSD	.3455494	.3350377	.5959532	.6255997	.1599298	.8578229
#1	1.844268	236.7120	4.200498	60.03301	1.048206	.0761417
#2	1.834964	238.2296	4.167484	59.46856	1.044935	.0774431
#3	1.847142	237.8879	4.151770	59.32858	1.047189	.0769761

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.22130	.5736846	6.673164	25.98378	.3586098	.3762779
Stddev	.05361	.0042542	.022116	.12176	.0007926	.0004762
%RSD	.1440243	.7415555	.3314208	.4685941	.2210247	.1265542
#1	37.15974	.5781619	6.648615	25.84341	.3585352	.3758864
#2	37.25769	.5731962	6.679345	26.04722	.3578571	.3761392
#3	37.24647	.5696957	6.691533	26.06072	.3594371	.3768081

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03MSD Acquired: 1/30/2025 15:42:05 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.253585	3.947801	F 11.76165	F 15.79680	2.850785	.2736060
Stddev	.001243	.021491	.02716	.03108	.005167	.0015575
%RSD	.0991466	.5443726	.2309470	.1967606	.1812455	.5692468
#1	1.253886	3.971800	11.73370	15.77365	2.846235	.2753713
#2	1.252220	3.941265	11.78795	15.83213	2.856402	.2730209
#3	1.254650	3.930336	11.76331	15.78463	2.849717	.2724257

Elem	Sr4077
Units	ppm
Avg	.4734742
Stddev	.0049067
%RSD	1.036311
#1	.4790147
#2	.4717298
#3	.4696781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.016	59184.89	11603.65	2031.178	3654.516
Stddev	13.972	153.74	89.05	8.377	15.063
%RSD	.4762110	.2597603	.7674551	.4124242	.4121782
#1	2924.247	59232.60	11501.23	2033.182	3643.852
#2	2950.020	59309.12	11662.72	2038.371	3671.748
#3	2927.781	59012.95	11647.02	2021.980	3647.949

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03A Acquired: 1/30/2025 15:46:04 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7891510	1.924724	5.359434	1.657430	.3061729	100.5836
Stddev	.0042436	.022376	.029396	.009689	.0015779	1.2874
%RSD	.5377461	1.162563	.5484865	.5845904	.5153686	1.279943
#1	.7870165	1.899520	5.326214	1.646795	.3067629	99.1960
#2	.7863985	1.932401	5.382083	1.665757	.3043850	100.8155
#3	.7940381	1.942251	5.370003	1.659738	.3073708	101.7393

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.286098	.1730648	.1980481	157.9540	.6412542	.3837919
Stddev	.012333	.0025253	.0016687	2.0009	.0012447	.0017694
%RSD	.9589170	1.459176	.8425516	1.266766	.1941092	.4610318
#1	1.272329	.1702967	.1961254	155.7617	.6417157	.3819269
#2	1.289836	.1736548	.1989009	158.4186	.6398447	.3854470
#3	1.296129	.1752429	.1991180	159.6817	.6422023	.3840018

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.839658	233.7692	4.062405	58.78947	1.044798	.0760136
Stddev	.011065	.7250	.040675	.89191	.004126	.0004496
%RSD	.6014842	.3101528	1.001245	1.517122	.3949163	.5914277
#1	1.827125	234.6014	4.017747	57.84210	1.040373	.0765325
#2	1.848079	233.2736	4.072138	58.91334	1.048539	.0757665
#3	1.843769	233.4327	4.097330	59.61296	1.045482	.0757417

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.22483	.5627038	6.839010	25.16730	.3503823	.3643140
Stddev	.11607	.0067817	.030065	.13026	.0007802	.0022555
%RSD	.3204190	1.205191	.4396090	.5175793	.2226632	.6191226
#1	36.34878	.5549563	6.836503	25.31751	.3501282	.3617484
#2	36.11870	.5655906	6.810277	25.09900	.3497609	.3659852
#3	36.20701	.5675643	6.870250	25.08540	.3512578	.3652084

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-03A Acquired: 1/30/2025 15:46:04 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.242492	4.012661	F 12.31759	F 15.77824	2.934591	.2662836
Stddev	.006985	.042999	.03256	.03996	.015733	.0020502
%RSD	.5622018	1.071595	.2643587	.2532367	.5361190	.7699399
#1	1.234709	3.966614	12.35223	15.73725	2.916500	.2641835
#2	1.248219	4.019597	12.28761	15.81708	2.945071	.2663872
#3	1.244547	4.051770	12.31293	15.78040	2.942202	.2682800

Elem	Sr4077
Units	ppm
Avg	.4606980
Stddev	.0073208
%RSD	1.589076
#1	.4526211
#2	.4625759
#3	.4668970

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2946.355	58354.55	11409.68	1973.720	3671.814
Stddev	13.975	127.09	161.28	7.100	15.444
%RSD	.4743299	.2177818	1.413495	.3597231	.4206205
#1	2962.468	58314.40	11584.90	1975.484	3689.621
#2	2939.058	58496.86	11376.67	1979.772	3662.068
#3	2937.538	58252.39	11267.46	1965.905	3663.752

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-07 Acquired: 1/30/2025 15:50:02 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476690	-.018956	1.498369	-.046651	.0062527	80.94221
Stddev	.0031139	.003467	.007694	.001578	.0018858	.00946
%RSD	6.532345	18.28755	.5134974	3.382017	30.15938	.0116896
#1	.0499214	-.022876	1.497330	-.046085	.0056448	80.93892
#2	.0489700	-.016296	1.491247	-.045434	.0047458	80.95287
#3	.0441156	-.017695	1.506530	-.048433	.0083674	80.93482

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7786102	.0062559	.0074643	433.3799	.2695877	.1126524
Stddev	.0023037	.0000794	.0004464	.7014	.0025878	.0008173
%RSD	.2958727	1.269863	5.980935	.1618381	.9598956	.7255400
#1	.7811875	.0063334	.0071913	432.5708	.2709005	.1120697
#2	.7778920	.0062598	.0072221	433.8156	.2712559	.1123007
#3	.7767513	.0061746	.0079794	433.7532	.2666067	.1135867

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5710476	208.2609	2.933956	115.8900	.3232163	.0037357
Stddev	.0071449	1.8851	.010043	.1484	.0010514	.0001027
%RSD	1.251199	.9051840	.3422914	.1280682	.3253058	2.748140
#1	.5656619	209.9021	2.940825	115.9234	.3229076	.0036334
#2	.5683278	208.6787	2.938613	116.0189	.3223537	.0038387
#3	.5791530	206.2019	2.922430	115.7277	.3243875	.0037348

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.07597	.2926736	1.260450	27.69551	.1578736	.0116397
Stddev	.13394	.0005405	.005840	.25150	.0028974	.0000942
%RSD	.7843594	.1846659	.4633563	.9080908	1.835268	.8093472
#1	17.21710	.2922747	1.262087	27.91830	.1610755	.0117142
#2	17.06016	.2932887	1.265297	27.74544	.1571128	.0116710
#3	16.95063	.2924574	1.253966	27.42279	.1554325	.0115338

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-07 Acquired: 1/30/2025 15:50:02 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1959103	4.916102	F 22.67964	8.193238	F 22.12389	.0426394
Stddev	.0019177	.008037	.19315	.033010	.08787	.0003696
%RSD	.9788662	.1634812	.8516619	.4028944	.3971557	.8666995
#1	.1977928	4.924442	22.86722	8.192041	22.08128	.0428460
#2	.1939592	4.915456	22.69033	8.160842	22.06546	.0422128
#3	.1959787	4.908408	22.48136	8.226829	22.22494	.0428595

Elem	Sr4077
Units	ppm
Avg	.9469295
Stddev	.0118374
%RSD	1.250088
#1	.9438886
#2	.9599907
#3	.9369091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3066.894	61572.75	12696.08	2068.902	3447.380
Stddev	17.031	467.41	50.50	12.228	14.739
%RSD	.5553166	.7591237	.3977262	.5910420	.4275484
#1	3076.739	61304.06	12730.80	2061.863	3454.221
#2	3076.714	61301.71	12638.15	2061.822	3457.456
#3	3047.228	62112.47	12719.28	2083.022	3430.463

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-11 Acquired: 1/30/2025 15:54:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0556431	-.015671	1.726943	-.047191	.0038089	83.95884
Stddev	.0002564	.002315	.013484	.002395	.0023975	.45323
%RSD	.4608241	14.77282	.7808126	5.074394	62.94409	.5398214
#1	.0553493	-.017333	1.741298	-.049728	.0054757	84.48197
#2	.0557578	-.016653	1.724989	-.044970	.0048899	83.71022
#3	.0558221	-.013027	1.714543	-.046875	.0010613	83.68433

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8057772	.0071379	.0060034	475.6579	.2522909	.1038984
Stddev	.0099742	.0000523	.0004377	2.5453	.0014520	.0008910
%RSD	1.237835	.7326427	7.290412	.5351170	.5755322	.8576114
#1	.8172925	.0071179	.0063062	474.6649	.2511937	.1046918
#2	.8002014	.0071973	.0062025	478.5501	.2517416	.1040691
#3	.7998376	.0070986	.0055016	473.7588	.2539374	.1029344

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6699672	229.1889	2.692416	78.51648	.3350293	.0135456
Stddev	.0050712	1.6940	.018690	.25232	.0030065	.0005433
%RSD	.7569304	.7391333	.6941687	.3213595	.8973754	4.010965
#1	.6749903	230.0136	2.713562	78.78173	.3384953	.0139759
#2	.6700620	227.2405	2.678106	78.27946	.3331257	.0129351
#3	.6648492	230.3127	2.685581	78.48824	.3334670	.0137257

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.17843	.2891452	1.684885	23.49038	.1869845	.0115080
Stddev	.08222	.0014797	.010201	.11573	.0029146	.0002466
%RSD	.4786308	.5117524	.6054634	.4926528	1.558743	2.142916
#1	17.25086	.2904646	1.677526	23.58899	.1884121	.0117639
#2	17.08906	.2894256	1.680598	23.36297	.1836313	.0112719
#3	17.19537	.2875453	1.696530	23.51917	.1889100	.0114883

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-11 Acquired: 1/30/2025 15:54:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1127114	4.144295	F 19.23802	8.074165	F 33.60741	.0459289
Stddev	.0016127	.032960	.08029	.059930	.27872	.0020247
%RSD	1.430839	.7953006	.4173347	.7422497	.8293289	4.408404
#1	.1136321	4.181628	19.26089	8.137498	33.92924	.0480743
#2	.1136529	4.119226	19.14878	8.066651	33.44547	.0440516
#3	.1108492	4.132030	19.30439	8.018345	33.44751	.0456609

Elem	Sr4077
Units	ppm
Avg	1.027635
Stddev	.017549
%RSD	1.707720
#1	1.017211
#2	1.017798
#3	1.047896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.716	59275.91	12479.10	1995.373	3475.743
Stddev	14.972	383.09	25.60	8.110	18.632
%RSD	.4961505	.6462876	.2051648	.4064389	.5360496
#1	3000.433	59567.57	12500.45	2001.061	3454.363
#2	3025.970	59418.12	12486.13	1998.971	3484.357
#3	3026.744	58842.05	12450.71	1986.086	3488.510

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-15 Acquired: 1/30/2025 15:58:45 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0795111	-.012319	2.933055	-.040542	.0084893	79.20529
Stddev	.0010046	.001799	.011235	.002151	.0017157	.51078
%RSD	1.263496	14.60719	.3830323	5.305680	20.20986	.6448865
#1	.0788636	-.012438	2.939515	-.042551	.0088736	79.79495
#2	.0806684	-.010463	2.920083	-.040802	.0066140	78.89930
#3	.0790013	-.014056	2.939568	-.038273	.0099802	78.92162

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9100497	.0062235	.0010862	483.4968	.2338829	.0784234
Stddev	.0070345	.0000903	.0003605	3.7007	.0002332	.0003100
%RSD	.7729820	1.451517	33.19202	.7653940	.0997150	.3952380
#1	.9181403	.0061390	.0013890	486.7047	.2336203	.0786263
#2	.9053790	.0062128	.0006874	479.4481	.2339624	.0785773
#3	.9066298	.0063187	.0011823	484.3377	.2340660	.0780666

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5079605	195.6280	2.929241	124.7016	.2933556	.0048715
Stddev	.0033330	.7044	.015835	.6798	.0013692	.0005771
%RSD	.6561577	.3600723	.5405910	.5451568	.4667275	11.84599
#1	.5104744	194.8531	2.947390	125.4748	.2943082	.0042293
#2	.5041798	196.2296	2.918234	124.4323	.2917866	.0050387
#3	.5092274	195.8013	2.922101	124.1977	.2939720	.0053466

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.10035	.2951919	1.187615	19.28526	.3573761	.0122601
Stddev	.20518	.0016877	.002359	.08007	.0014706	.0004770
%RSD	.3723743	.5717394	.1986584	.4151732	.4114971	3.890386
#1	54.87952	.2969546	1.187501	19.19404	.3569613	.0118636
#2	55.28509	.2950302	1.185314	19.34390	.3590096	.0127894
#3	55.13644	.2935908	1.190029	19.31783	.3561575	.0121272

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-15 Acquired: 1/30/2025 15:58:45 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0943734	3.826809	F 29.71892	5.625095	F 34.09750	.0375442
Stddev	.0004095	.024994	.16074	.021873	.15434	.0009615
%RSD	.4339506	.6531250	.5408634	.3888480	.4526389	2.561061
#1	.0939005	3.855669	29.53381	5.639606	34.18738	.0380274
#2	.0946113	3.812559	29.82320	5.599937	33.91929	.0381683
#3	.0946083	3.812200	29.79975	5.635743	34.18583	.0364369

Elem	Sr4077
Units	ppm
Avg	.8083012
Stddev	.0120737
%RSD	1.493708
#1	.8205227
#2	.7963811
#3	.8079998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.445	52867.57	10946.97	1801.641	3443.020
Stddev	8.357	202.88	68.15	5.414	11.870
%RSD	.3130787	.3837524	.6225436	.3004921	.3447626
#1	2659.885	53098.66	10872.06	1802.457	3429.477
#2	2675.365	52785.38	11005.29	1806.601	3451.620
#3	2673.086	52718.69	10963.56	1795.866	3447.962

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-19 Acquired: 1/30/2025 16:03:01 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1074393	-.008421	7.482340	-.036884	.0190080	79.58423
Stddev	.0037171	.001779	.020979	.002708	.0011546	.50312
%RSD	3.459755	21.12945	.2803747	7.342818	6.074433	.6321895
#1	.1037343	-.009578	7.463220	-.038800	.0182975	79.51642
#2	.1074153	-.009314	7.504781	-.033785	.0183863	79.11845
#3	.1111685	-.006372	7.479020	-.038065	.0203403	80.11782

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.517692	.0071806	.0032974	603.8614	.2261338	.1102180
Stddev	.012017	.0001162	.0001965	1.0192	.0009088	.0006440
%RSD	.4772887	1.618517	5.958159	.1687752	.4018757	.5842666
#1	2.522607	.0072628	.0030995	604.7138	.2255455	.1096953
#2	2.503997	.0072312	.0033002	604.1378	.2271805	.1109374
#3	2.526472	.0070476	.0034924	602.7325	.2256754	.1100214

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.155388	207.0806	4.122044	83.23167	.4254900	.0055727
Stddev	.004242	1.6476	.007138	.28522	.0016012	.0008678
%RSD	.1968077	.7956125	.1731663	.3426849	.3763121	15.57131
#1	2.150490	208.0159	4.128471	83.05408	.4237309	.0063714
#2	2.157871	208.0477	4.114362	83.08026	.4258768	.0056974
#3	2.157803	205.1783	4.123300	83.56067	.4268624	.0046494

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	74.48509	.2713415	3.589714	24.12977	.2540038	.0096738
Stddev	.31299	.0014604	.021542	.12119	.0020368	.0002205
%RSD	.4202055	.5382123	.6000999	.5022457	.8018788	2.279218
#1	74.83410	.2697688	3.597527	24.26627	.2552762	.0097021
#2	74.39187	.2726548	3.606259	24.08822	.2550807	.0098787
#3	74.22930	.2716010	3.565356	24.03482	.2516546	.0094405

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1207-19 Acquired: 1/30/2025 16:03:01 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1464425	3.407237	F 11.02841	F 10.03755	F 18.58123	.0267389
Stddev	.0010866	.013908	.00498	.00688	.01495	.0016484
%RSD	.7419873	.4081904	.0451757	.0685053	.0804367	6.164762
#1	.1458793	3.409799	11.03381	10.03178	18.58859	.0260146
#2	.1457532	3.392226	11.02743	10.04516	18.59106	.0255766
#3	.1476951	3.419686	11.02399	10.03571	18.56403	.0286254

Elem	Sr4077
Units	ppm
Avg	1.499729
Stddev	.013898
%RSD	.9266826
#1	1.500171
#2	1.485616
#3	1.513401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2802.368	54737.12	11452.85	1864.467	3462.068
Stddev	1.793	349.25	25.93	13.063	3.749
%RSD	.0639946	.6380425	.2264312	.7006457	.1082767
#1	2803.871	54588.71	11470.46	1858.619	3465.501
#2	2800.383	54486.58	11465.03	1855.349	3458.068
#3	2802.851	55136.06	11423.07	1879.432	3462.634

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166330BL Acquired: 1/30/2025 16:07:22 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001045	-.001795	-.001085	.0003888	-.002449	-.005126	-.002644
Stddev	.001714	.001468	.000246	.0019932	.001695	.007622	.000174
%RSD	164.0808	81.76359	22.71726	512.6923	69.19272	148.6872	6.587881
#1	.000604	-.001703	-.001313	-.000323	-.000611	-.006145	-.002779
#2	-.002818	-.000375	-.000823	.002640	-.003949	-.012187	-.002448
#3	-.000920	-.003307	-.001118	-.001151	-.002788	.002954	-.002706

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000294	-.000234	.0460975	.0004875	-.000115	.0003031	.0072531
Stddev	.0000438	.000054	.0081921	.0002777	.000087	.0000952	.0034282
%RSD	148.9718	23.06950	17.77127	56.95055	75.55978	31.39462	47.26545
#1	.0000323	-.000247	.0498300	.0001945	-.000132	.0004120	.0103232
#2	.0000716	-.000175	.0517586	.0005215	-.000021	.0002359	.0078821
#3	-.000016	-.000280	.0367038	.0007467	-.000193	.0002615	.0035539

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000158	-.001853	-.000195	.0007777	.0614964	-.002009	-.003023
Stddev	.000183	.010626	.000078	.0004132	.0026859	.000668	.000189
%RSD	115.9868	573.4311	40.11657	53.12638	4.367488	33.26469	6.235898
#1	.000036	-.011407	-.000250	.0007269	.0585473	-.002719	-.002922
#2	-.000181	.009591	-.000105	.0012139	.0638022	-.001915	-.002906
#3	-.000328	-.003743	-.000228	.0003923	.0621397	-.001393	-.003240

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865203	-.003741	-.000750	-.001009	.0011615	.0036219	-.000118
Stddev	.0420619	.000734	.000207	.000388	.0004106	.0083888	.003585
%RSD	48.61503	19.60696	27.56792	38.44686	35.35292	231.6157	3045.119
#1	.0406705	-.002919	-.000602	-.000578	.0006961	.0112038	-.002954
#2	.0955693	-.004328	-.000987	-.001331	.0013157	-.005390	.003911
#3	.1233213	-.003978	-.000663	-.001117	.0014726	.005052	-.001310

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166330BL Acquired: 1/30/2025 16:07:22 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002057	-.004087	-.000297
Stddev	.003189	.000387	.000026
%RSD	155.0052	9.462372	8.836193
#1	.001619	-.004021	-.000267
#2	-.003709	-.004503	-.000310
#3	-.004082	-.003738	-.000315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2856.486	55404.54	10625.27	1893.237	4338.777
Stddev	5.292	203.49	20.49	9.305	8.167
%RSD	.1852542	.3672860	.1928762	.4914995	.1882427
#1	2855.747	55614.75	10644.05	1903.790	4339.643
#2	2851.603	55208.51	10603.41	1886.211	4330.211
#3	2862.109	55390.35	10628.34	1889.710	4346.477

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166330BS Acquired: 1/30/2025 16:11:43 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8172649	2.046633	.9710609	2.030215	.7995665	1.846194
Stddev	.0063542	.028932	.0095444	.020801	.0091399	.008272
%RSD	.7774982	1.413630	.9828835	1.024549	1.143107	.4480592
#1	.8129901	2.061478	.9701281	2.034956	.8020852	1.851347
#2	.8142379	2.013292	.9620172	2.007453	.7894313	1.850582
#3	.8245667	2.065128	.9810375	2.048236	.8071829	1.836652

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1739960	.1841063	.1934500	.9487928	.4044544	.1942320
Stddev	.0012664	.0009543	.0015332	.0037151	.0030797	.0016034
%RSD	.7278148	.5183124	.7925279	.3915652	.7614512	.8255052
#1	.1744098	.1831176	.1934181	.9528550	.4073688	.1940552
#2	.1750037	.1850219	.1919331	.9479559	.4012324	.1927243
#3	.1725745	.1841792	.1949989	.9455674	.4047621	.1959165

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3108619	2.901439	.1798105	1.826978	.4896800	.0725722
Stddev	.0021606	.020047	.0000581	.017722	.0048337	.0009570
%RSD	.6950435	.6909262	.0323110	.9700308	.9871041	1.318677
#1	.3109415	2.923798	.1798509	1.817311	.4895961	.0736054
#2	.3086625	2.885070	.1797439	1.847432	.4848888	.0723952
#3	.3129816	2.895448	.1798367	1.816191	.4945550	.0717161

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.010027	.2777456	.1991671	9.628174	.2631653	.4049543
Stddev	.029182	.0038492	.0016976	.099107	.0009984	.0050896
%RSD	.9694795	1.385870	.8523496	1.029342	.3793837	1.256843
#1	3.040807	.2813057	.2010407	9.731905	.2620951	.4051442
#2	2.982762	.2782701	.1977313	9.534451	.2633292	.3997724
#3	3.006512	.2736611	.1987292	9.618166	.2640717	.4099463

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166330BS Acquired: 1/30/2025 16:11:43 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6719498	.1812267	F .7043673	5.656710	F -.015502	.1813196
Stddev	.0055639	.0005030	.0154914	.044083	.002650	.0014867
%RSD	.8280159	.2775517	2.199338	.7793122	17.09318	.8199400
#1	.6716471	.1816276	.7222404	5.656650	-.016501	.1810374
#2	.6665435	.1813903	.6960608	5.612656	-.017506	.1829272
#3	.6776589	.1806623	.6948006	5.700823	-.012497	.1799942

Elem	Sr4077
Units	ppm
Avg	.1783696
Stddev	.0007898
%RSD	.4427983
#1	.1788092
#2	.1788419
#3	.1774578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.073	56089.56	10482.97	1906.658	4214.967
Stddev	19.622	350.47	49.64	11.718	28.024
%RSD	.6955427	.6248461	.4735702	.6145866	.6648744
#1	2821.224	55697.43	10528.08	1893.305	4216.162
#2	2840.619	56372.26	10429.78	1915.227	4242.375
#3	2801.376	56198.99	10491.06	1911.443	4186.365

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV05 Acquired: 1/30/2025 16:24:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.831548	4.983357	4.743221	4.857031	4.905890	9.748952	9.328935
Stddev	.020039	.005972	.015253	.005357	.014283	.124180	.166526
%RSD	.4147516	.1198394	.3215680	.1103015	.2911358	1.273779	1.785052
#1	4.848302	4.989538	4.753105	4.851315	4.903756	9.782285	9.476464
#2	4.809350	4.982913	4.725655	4.857840	4.892795	9.611508	9.148365
#3	4.836993	4.977619	4.750903	4.861937	4.921121	9.853064	9.361976

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2342904	2.370997	23.74353	.9905869	2.372975	1.220267	4.825653
Stddev	.0034644	.007227	.31011	.0062420	.005866	.002210	.038671
%RSD	1.478672	.3048036	1.306067	.6301296	.2472090	.1810690	.8013668
#1	.2343999	2.375011	23.77068	.9956682	2.375145	1.221211	4.858660
#2	.2307726	2.362654	23.42075	.9924731	2.366333	1.217743	4.835195
#3	.2376988	2.375326	24.03918	.9836193	2.377447	1.221848	4.783104

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.309751	23.73299	2.373747	1.207319	24.92324	2.405942	2.449355
Stddev	.031246	.35330	.003817	.005302	.15591	.036193	.006721
%RSD	1.352784	1.488649	.1608211	.4391215	.6255725	1.504323	.2743848
#1	2.311845	23.67766	2.376421	1.209143	25.08454	2.409792	2.453387
#2	2.277511	23.41062	2.369375	1.211468	24.91185	2.367977	2.453082
#3	2.339898	24.11070	2.375445	1.201346	24.77334	2.440056	2.441597

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.54381	4.643900	4.922859	4.773914	4.719415	5.085077	4.785768
Stddev	.10062	.062310	.015291	.016973	.057543	.010806	.012783
%RSD	.4099510	1.341750	.3106112	.3555445	1.219289	.2124953	.2670980
#1	24.62730	4.650535	4.924439	4.784305	4.728351	5.086730	4.794083
#2	24.57204	4.578539	4.906840	4.754327	4.657926	5.094961	4.771049
#3	24.43210	4.702627	4.937299	4.783111	4.771967	5.073540	4.792172

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV05 Acquired: 1/30/2025 16:24:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.709324	4.716697	4.706933
Stddev	.004897	.055545	.029466
%RSD	.1039944	1.177616	.6260039
#1	4.712074	4.729813	4.691052
#2	4.703669	4.655769	4.688814
#3	4.712228	4.764510	4.740932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2841.440	55022.42	10038.54	1867.136	4098.132
Stddev	8.232	170.75	128.67	12.679	8.139
%RSD	.2896953	.3103246	1.281724	.6790572	.1986098
#1	2839.965	54897.23	10033.74	1861.538	4095.658
#2	2850.310	54953.10	10169.54	1858.219	4107.221
#3	2834.046	55216.92	9912.34	1881.650	4091.517

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB05 Acquired: 1/30/2025 16:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000185	-.001576	.0002378	-.000040	-.002385	-.009667	-.002416
Stddev	.001720	.001417	.0009425	.002801	.001751	.009494	.000587
%RSD	927.6636	89.91969	396.4177	6974.789	73.44266	98.20435	24.30657
#1	-.001857	-.002898	-.000266	-.002694	-.004220	-.010650	-.001823
#2	-.000280	-.000080	-.000346	-.000315	-.000732	-.018631	-.002428
#3	.001580	-.001751	.001325	.002889	-.002202	.000280	-.002998

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000054	-.000128	-.015834	.0000067	-.000294	.0000078	-.015559
Stddev	.0000255	.000024	.008481	.0000994	.000227	.0002732	.004423
%RSD	475.0235	18.42181	53.56242	1480.052	77.33675	3496.633	28.42802
#1	-.000013	-.000131	-.024785	-.000055	-.000049	-.000291	-.014076
#2	.000035	-.000104	-.007918	.000121	-.000499	.000245	-.012068
#3	-.000006	-.000151	-.014800	-.000046	-.000333	.000069	-.020534

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000491	.0057696	-.000346	.0011281	.0432707	-.000692	-.003194
Stddev	.000413	.0078972	.000245	.0003914	.0065949	.000650	.000337
%RSD	84.01277	136.8762	70.81457	34.69283	15.24096	93.85904	10.54099
#1	-.000352	-.002182	-.000614	.0008569	.0404366	-.000053	-.002931
#2	-.000956	.005880	-.000134	.0015768	.0508088	-.000672	-.003573
#3	-.000166	.013611	-.000289	.0009506	.0385665	-.001352	-.003077

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910310	.0040143	-.000023	.0000212	.0004813	.0001014	-.000735
Stddev	.0465544	.0004534	.000076	.0002819	.0005451	.0026448	.000742
%RSD	51.14121	11.29436	329.2350	1332.177	113.2594	2607.878	101.0188
#1	.0518279	.0044934	-.000013	-.000294	.0008658	-.002912	.000035
#2	.1424861	.0039575	.000047	.000108	.0007206	.001176	-.000793
#3	.0787791	.0035920	-.000103	.000250	-.000143	.002040	-.001447

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB05 Acquired: 1/30/2025 16:28:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004910	-.003916	-.000263
Stddev	.001660	.001016	.000003
%RSD	33.81344	25.95290	1.156225
#1	-.006638	-.003634	-.000262
#2	-.004764	-.005043	-.000267
#3	-.003327	-.003070	-.000262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2916.327	56768.21	10511.10	1945.003	4434.144
Stddev	7.425	183.14	54.70	8.470	12.807
%RSD	.2546159	.3226089	.5204097	.4354634	.2888358
#1	2916.365	56704.28	10563.52	1953.823	4441.541
#2	2923.734	56625.60	10515.40	1936.933	4441.536
#3	2908.883	56974.74	10454.37	1944.255	4419.356

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166376BL Acquired: 1/30/2025 16:32:46 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006004	-.001394	-.000164	.0003245	-.002384	-.009993	-.002192
Stddev	.0002783	.000453	.000192	.0010363	.000343	.003854	.000980
%RSD	46.35345	32.51336	117.1796	319.3555	14.38641	38.56624	44.69842
#1	.0003054	-.001796	-.000343	-.000349	-.002701	-.012227	-.002902
#2	.0006377	-.001483	-.000186	.001518	-.002430	-.012209	-.001074
#3	.0008583	-.000903	.000039	-.000195	-.002020	-.005543	-.002601

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000236	-.000217	-.012833	.0001193	-.000148	-.000070	-.011516
Stddev	.0000787	.000073	.005358	.0002480	.000061	.000278	.000941
%RSD	332.8928	33.69311	41.75065	207.9161	40.87525	394.1239	8.174428
#1	.0001134	-.000298	-.017632	.0002234	-.000173	-.000386	-.012601
#2	-.000009	-.000157	-.007052	.0002982	-.000079	.000036	-.010918
#3	-.000033	-.000195	-.013816	-.000164	-.000193	.000139	-.011029

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000739	-.003684	-.000543	.0007210	.0428443	-.001067	-.003052
Stddev	.000242	.009052	.000057	.0006773	.0109720	.000978	.000207
%RSD	32.75874	245.7037	10.42075	93.94162	25.60892	91.60824	6.782513
#1	-.000589	-.012815	-.000567	.0004485	.0301827	-.000649	-.002838
#2	-.000610	.005287	-.000584	.0014921	.0495587	-.002185	-.003068
#3	-.001018	-.003525	-.000479	.0002223	.0487915	-.000368	-.003251

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1251189	.0003449	-.000103	-.000630	.0002236	-.005695	-.000603
Stddev	.0269087	.0002906	.000144	.000401	.0006319	.001521	.001243
%RSD	21.50647	84.26379	139.1456	63.62699	282.5766	26.70461	206.3130
#1	.0940686	.0000730	-.000248	-.000332	.0007046	-.006631	-.001563
#2	.1396517	.0003105	-.000101	-.001086	-.000492	-.003940	-.001048
#3	.1416365	.0006512	.000039	-.000472	.000458	-.006514	.000802

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166376BL Acquired: 1/30/2025 16:32:46 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006615	-.005028	-.000440
Stddev	.002824	.000983	.000024
%RSD	42.68591	19.54911	5.446308
#1	-.008829	-.004263	-.000432
#2	-.003435	-.006137	-.000466
#3	-.007582	-.004685	-.000420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.124	56016.51	10611.43	1925.783	4307.234
Stddev	.794	252.44	14.45	5.515	1.296
%RSD	.0278181	.4506452	.1361482	.2863981	.0300832
#1	2852.624	55817.52	10627.96	1922.646	4305.972
#2	2854.039	55931.54	10605.13	1922.552	4308.561
#3	2852.709	56300.47	10601.21	1932.151	4307.167

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166376BS Acquired: 1/30/2025 16:37:06 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7868075	1.954768	.9321776	1.946577	.7745606	1.770784
Stddev	.0040461	.010487	.0026156	.004972	.0003856	.014246
%RSD	.5142473	.5364751	.2805939	.2553986	.0497799	.8045199
#1	.7821545	1.961966	.9293157	1.941112	.7749691	1.766748
#2	.7887688	1.959602	.9327727	1.950830	.7745098	1.758992
#3	.7894992	1.942736	.9344444	1.947791	.7742030	1.786613

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1695629	.1764652	.1863840	.8999484	.3897245	.1864778
Stddev	.0016326	.0015051	.0007767	.0158788	.0007603	.0003940
%RSD	.9628278	.8528930	.4167390	1.764408	.1950867	.2112686
#1	.1681463	.1759241	.1855731	.8883169	.3892642	.1864209
#2	.1691942	.1753055	.1864577	.8934895	.3893072	.1861154
#3	.1713484	.1781660	.1871213	.9180388	.3906021	.1868971

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2985510	2.832275	.1749575	1.741172	.4711742	.0703736
Stddev	.0015879	.009166	.0016784	.011249	.0015328	.0001203
%RSD	.5318584	.3236361	.9593138	.6460728	.3253061	.1709902
#1	.2984202	2.822434	.1738132	1.732548	.4695270	.0703758
#2	.2970326	2.840569	.1741751	1.737072	.4714370	.0704928
#3	.3002002	2.833824	.1768842	1.753896	.4725585	.0702522

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.918229	.2663703	.1916213	9.392580	.2556028	.3914695
Stddev	.011336	.0059126	.0000702	.073821	.0020633	.0002071
%RSD	.3884593	2.219693	.0366230	.7859479	.8072413	.0529053
#1	2.913989	.2643075	.1916037	9.360156	.2540534	.3912795
#2	2.909625	.2617655	.1916987	9.340520	.2548102	.3914387
#3	2.931074	.2730380	.1915617	9.477064	.2579449	.3916902

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: PB166376BS Acquired: 1/30/2025 16:37:06 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6549574	.1774981	F .6874462	5.418720	F -.017451	.1760984
Stddev	.0017610	.0008347	.0020604	.006426	.001010	.0032302
%RSD	.2688668	.4702800	.2997221	.1185858	5.786525	1.834293
#1	.6530071	.1779014	.6887735	5.413364	-.017755	.1746186
#2	.6564307	.1765383	.6850726	5.425845	-.016324	.1738733
#3	.6554346	.1780546	.6884926	5.416952	-.018274	.1798034

Elem	Sr4077
Units	ppm
Avg	.1724302
Stddev	.0018726
%RSD	1.086016
#1	.1715113
#2	.1711946
#3	.1745848

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2865.467	56665.07	10677.81	1940.159	4276.025
Stddev	1.642	60.66	81.68	8.799	5.106
%RSD	.0572988	.1070525	.7649420	.4535451	.1194139
#1	2865.620	56614.01	10713.64	1936.793	4279.962
#2	2867.026	56649.07	10735.45	1933.539	4277.858
#3	2863.753	56732.13	10584.34	1950.145	4270.255

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-03 Acquired: 1/30/2025 16:41:06 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1176099	-.011558	5.016028	-.046599	.0120603	86.76661
Stddev	.0035452	.001020	.019075	.002304	.0018839	.17922
%RSD	3.014356	8.821354	.3802732	4.944344	15.62063	.2065534
#1	.1167290	-.010443	5.020166	-.046832	.0108351	86.63978
#2	.1215125	-.012443	5.032693	-.048778	.0111162	86.97164
#3	.1145883	-.011787	4.995223	-.044188	.0142296	86.68840

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.355180	.0065673	.0028266	812.0968	.2921486	.1030999
Stddev	.003076	.0000134	.0001025	2.1657	.0001807	.0004657
%RSD	.2269466	.2039996	3.626870	.2666820	.0618566	.4517377
#1	1.351639	.0065689	.0027459	810.6920	.2919610	.1036369
#2	1.357179	.0065798	.0029420	814.5910	.2921635	.1028051
#3	1.356723	.0065532	.0027920	811.0076	.2923215	.1028578

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.153714	213.5696	3.283866	149.0085	.3085126	.0062842
Stddev	.007476	.5083	.002303	.4255	.0013507	.0008834
%RSD	.6480082	.2380052	.0701192	.2855613	.4377994	14.05754
#1	1.152276	214.1504	3.281808	148.8394	.3080615	.0071277
#2	1.161805	213.2057	3.286353	149.4926	.3100310	.0063592
#3	1.147061	213.3527	3.283436	148.6936	.3074451	.0053657

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	121.3945	.2891901	2.016406	23.53745	.3529764	.0117353
Stddev	.2283	.0027029	.003276	.05068	.0004800	.0005909
%RSD	.1880332	.9346419	.1624791	.2152965	.1359987	5.035395
#1	121.6254	.2865925	2.012625	23.57506	.3533982	.0114953
#2	121.1689	.2919872	2.018175	23.47983	.3524541	.0124085
#3	121.3891	.2889906	2.018417	23.55747	.3530770	.0113021

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-03 Acquired: 1/30/2025 16:41:06 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776610	3.912567	F 15.65589	6.933613	F 41.44026	.0095753
Stddev	.0002422	.007723	.03483	.025812	.17669	.0008779
%RSD	.1363296	.1973775	.2224447	.3722740	.4263836	9.168707
#1	.1776474	3.904630	15.67911	6.939768	41.49138	.0093651
#2	.1779098	3.920056	15.61585	6.955792	41.58576	.0105393
#3	.1774259	3.913016	15.67271	6.905280	41.24364	.0088216

Elem	Sr4077
Units	ppm
Avg	2.012103
Stddev	.024570
%RSD	1.221097
#1	2.022563
#2	1.984034
#3	2.029711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.906	52226.86	11300.90	1767.610	3231.150
Stddev	10.974	81.58	58.39	5.465	12.204
%RSD	.4176113	.1561980	.5167226	.3091809	.3777077
#1	2629.470	52321.05	11364.92	1771.257	3231.507
#2	2616.233	52178.55	11250.55	1770.247	3218.771
#3	2638.014	52180.99	11287.24	1761.327	3243.172

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-07 Acquired: 1/30/2025 16:45:27 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1127267	-.006051	3.862155	-.045756	.0100517	75.68074
Stddev	.0023800	.002511	.036856	.002794	.0028054	.15754
%RSD	2.111310	41.49439	.9542863	6.106951	27.91004	.2081665
#1	.1113333	-.003174	3.831792	-.043482	.0091653	75.75607
#2	.1154748	-.007184	3.851512	-.048876	.0131932	75.78647
#3	.1113719	-.007797	3.903161	-.044911	.0077965	75.49967

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.499979	.0063247	.0040798	1039.152	.4007513	.1011460
Stddev	.000299	.0000919	.0001638	1.763	.0021610	.0008722
%RSD	.0199196	1.452465	4.013563	.1696765	.5392392	.8622848
#1	1.500268	.0063390	.0039294	1040.142	.4004309	.1003179
#2	1.499998	.0062265	.0042543	1037.116	.3987683	.1010637
#3	1.499671	.0064085	.0040558	1040.197	.4030545	.1020564

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8818157	195.1793	2.833413	99.50020	.4435740	.0043007
Stddev	.0060498	.8693	.007516	.26551	.0035356	.0008420
%RSD	.6860609	.4453651	.2652648	.2668444	.7970620	19.57936
#1	.8760389	194.9247	2.825200	99.30348	.4405846	.0033439
#2	.8813025	194.4658	2.835091	99.80220	.4426608	.0046292
#3	.8881058	196.1474	2.839948	99.39491	.4474765	.0049290

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.86190	.2529007	2.857166	19.70855	.2098767	.0325203
Stddev	.20461	.0018862	.025462	.12811	.0017483	.0005975
%RSD	.3945292	.7458455	.8911498	.6500115	.8330176	1.837416
#1	51.99531	.2511290	2.864090	19.76820	.2101911	.0324787
#2	51.62633	.2548837	2.828958	19.56150	.2079926	.0319446
#3	51.96407	.2526893	2.878449	19.79596	.2114465	.0331375

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-07 Acquired: 1/30/2025 16:45:27 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2224815	2.529285	8.018902	7.425072	F 20.04301	-.021191
Stddev	.0020740	.005725	.139459	.074921	.13870	.000442
%RSD	.9321913	.2263603	1.739125	1.009028	.6920007	2.085008
#1	.2213127	2.535848	8.112542	7.352174	19.89669	-.021598
#2	.2212559	2.526699	7.858626	7.421178	20.05978	-.020721
#3	.2248761	2.525310	8.085539	7.501864	20.17256	-.021253

Elem	Sr4077
Units	ppm
Avg	2.533140
Stddev	.020571
%RSD	.8120841
#1	2.531840
#2	2.554331
#3	2.513250

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2713.160	54357.77	11661.48	1851.216	3268.507
Stddev	17.288	207.07	30.88	8.733	25.432
%RSD	.6371744	.3809431	.2648136	.4717211	.7780952
#1	2730.798	54440.01	11695.71	1843.131	3293.723
#2	2712.437	54511.09	11635.72	1860.477	3268.932
#3	2696.245	54122.21	11653.00	1850.040	3242.865

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-11 Acquired: 1/30/2025 16:49:47 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0809795	-.011991	2.377158	-.040766	.0038890	87.10332
Stddev	.0008140	.001567	.007310	.002896	.0005992	.84744
%RSD	1.005178	13.06934	.3075144	7.104461	15.40866	.9729170
#1	.0801380	-.010185	2.368723	-.037951	.0036269	88.01289
#2	.0810374	-.012995	2.381093	-.040610	.0034656	86.96108
#3	.0817629	-.012793	2.381658	-.043737	.0045747	86.33600

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8868286	.0075482	.0020265	412.9234	.2685353	.0829880
Stddev	.0097054	.0000339	.0003510	2.9321	.0007320	.0004653
%RSD	1.094397	.4484982	17.31876	.7100714	.2725732	.5606661
#1	.8979713	.0075492	.0017058	416.1936	.2690980	.0827535
#2	.8822938	.0075138	.0024015	412.0473	.2677078	.0826867
#3	.8802206	.0075815	.0019723	410.5292	.2688001	.0835239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9979136	206.2489	2.826642	141.4020	.2769830	.0047178
Stddev	.0034992	1.0425	.021387	.9171	.0010177	.0001554
%RSD	.3506551	.5054647	.7566098	.6485972	.3674233	3.293360
#1	.9938734	207.2245	2.849100	142.2784	.2758096	.0046231
#2	.9999813	205.1504	2.824308	141.4786	.2776253	.0048971
#3	.9998860	206.3720	2.806518	140.4489	.2775140	.0046331

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.17329	.3096127	1.961252	21.11860	.3308568	.0086428
Stddev	.42654	.0024064	.006787	.21845	.0013703	.0002167
%RSD	.8501243	.7772294	.3460565	1.034408	.4141801	2.506942
#1	50.65301	.3122406	1.964076	21.35707	.3322602	.0084350
#2	49.83684	.3090807	1.953509	20.92816	.3295222	.0088673
#3	50.03001	.3075168	1.966171	21.07057	.3307880	.0086260

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-11 Acquired: 1/30/2025 16:49:47 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0758461	3.792935	F 17.74939	6.479457	F 24.11704	.0533853
Stddev	.0008198	.033050	.10281	.027826	.14290	.0014430
%RSD	1.080832	.8713531	.5792517	.4294419	.5925203	2.702965
#1	.0765518	3.827135	17.84942	6.447371	23.95473	.0550515
#2	.0760396	3.790499	17.64400	6.494042	24.17245	.0525417
#3	.0749469	3.761170	17.75474	6.496958	24.22393	.0525627

Elem	Sr4077
Units	ppm
Avg	1.070645
Stddev	.005409
%RSD	.5052089
#1	1.075040
#2	1.072290
#3	1.064604

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2817.895	55818.22	11432.40	1898.973	3552.844
Stddev	2.702	67.48	66.17	5.079	8.961
%RSD	.0958793	.1208994	.5788141	.2674351	.2522270
#1	2820.809	55740.37	11403.75	1893.416	3562.812
#2	2817.401	55860.23	11385.38	1900.130	3545.454
#3	2815.474	55854.04	11508.07	1903.373	3550.266

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-15 Acquired: 1/30/2025 16:54:08 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1501565	-.000519	3.322399	-.016187	.0251794	51.10993	1.206435
Stddev	.0010509	.000331	.007698	.000433	.0013137	.91142	.017680
%RSD	.6998821	63.88632	.2317073	2.673645	5.217262	1.783247	1.465478
#1	.1504510	-.000159	3.313708	-.015994	.0260053	51.07887	1.207169
#2	.1489897	-.000811	3.325126	-.016683	.0236645	52.03648	1.223736
#3	.1510287	-.000587	3.328362	-.015884	.0258682	50.21444	1.188399

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065767	-.001393	143.1628	.1586684	.0737527	1.136383	174.7443
Stddev	.0001839	.000210	2.0867	.0009860	.0003184	.002590	1.0054
%RSD	2.795479	15.07864	1.457553	.6213966	.4316873	.2279276	.5753759
#1	.0066422	-.001452	143.3498	.1589980	.0734282	1.134553	174.3496
#2	.0067189	-.001568	145.1497	.1594473	.0737655	1.135250	175.8871
#3	.0063691	-.001160	140.9889	.1575599	.0740645	1.139347	173.9960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996136	49.41575	.2416225	.0050266	46.73552	.2123000	1.775824
Stddev	.026050	.83608	.0011208	.0007267	.39165	.0033592	.014998
%RSD	1.305034	1.691931	.4638429	14.45653	.8380122	1.582304	.8445400
#1	2.002988	49.61722	.2404766	.0042402	46.52652	.2141393	1.782620
#2	2.018075	50.13268	.2427163	.0051663	47.18734	.2143380	1.786220
#3	1.967344	48.49734	.2416746	.0056733	46.49270	.2084228	1.758631

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.31359	.2372442	.0157807	.1652586	2.811178	8.493923	5.856600
Stddev	.11480	.0021979	.0002296	.0006001	.039982	.097081	.022427
%RSD	.8020121	.9264245	1.454962	.3631184	1.422251	1.142951	.3829353
#1	14.25855	.2381449	.0158821	.1646202	2.816986	8.446085	5.832977
#2	14.44554	.2388486	.0155178	.1653443	2.847939	8.605640	5.859220
#3	14.23668	.2347390	.0159420	.1658111	2.768610	8.430045	5.877601

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-15 Acquired: 1/30/2025 16:54:08 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	9.792677	.0615494	1.251030
Stddev	.028014	.0018250	.031941
%RSD	.2860723	2.965072	2.553144
#1	9.762975	.0623724	1.282343
#2	9.796432	.0628178	1.252249
#3	9.818625	.0594578	1.218497

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2837.577	55835.46	11327.12	1907.128	3817.947
Stddev	6.212	327.69	174.46	7.199	10.174
%RSD	.2189302	.5868803	1.540214	.3774781	.2664816
#1	2843.957	55761.57	11256.32	1905.477	3829.575
#2	2831.547	55551.03	11199.19	1900.898	3810.678
#3	2837.227	56193.78	11525.85	1915.009	3813.590

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-19 Acquired: 1/30/2025 16:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1094312	-.013419	3.944694	-.049026	.0180388	105.2411
Stddev	.0032474	.002514	.006432	.002096	.0018466	.8543
%RSD	2.967522	18.73751	.1630570	4.276035	10.23660	.8117090
#1	.1099463	-.016015	3.949217	-.046773	.0159104	104.4850
#2	.1059571	-.013247	3.937330	-.049385	.0189921	106.1677
#3	.1123903	-.010995	3.947533	-.050919	.0192139	105.0705

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.224519	.0082079	.0054925	781.0945	.3106508	.1135279
Stddev	.009139	.0000572	.0004719	12.6570	.0010849	.0001923
%RSD	.7463386	.6971972	8.591679	1.620419	.3492299	.1693824
#1	1.218540	.0081929	.0057253	766.5547	.3103887	.1133061
#2	1.235039	.0081596	.0049495	789.6470	.3118427	.1136484
#3	1.219978	.0082711	.0058028	787.0819	.3097210	.1136292

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.141954	235.1707	4.378285	131.9585	.3297184	.0046548
Stddev	.004916	1.1933	.039317	1.4428	.0004773	.0006076
%RSD	.4304482	.5074253	.8979898	1.093400	.1447591	13.05294
#1	1.144422	234.7585	4.345099	130.6657	.3298203	.0049636
#2	1.136294	236.5154	4.421707	133.5150	.3291984	.0039549
#3	1.145147	234.2381	4.368050	131.6948	.3301365	.0050460

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.14857	.3371069	3.767092	27.73933	.3437435	.0094664
Stddev	.16680	.0026051	.005964	.07434	.0032992	.0006948
%RSD	.2820072	.7727752	.1583256	.2680051	.9597733	7.339863
#1	59.31104	.3340991	3.761845	27.79129	.3422233	.0092036
#2	59.15691	.3385775	3.773579	27.77252	.3475287	.0089413
#3	58.97775	.3386441	3.765851	27.65417	.3414786	.0102543

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1216-19 Acquired: 1/30/2025 16:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1153360	5.105429	7.437086	7.898878	F 28.22978	.0189312
Stddev	.0011849	.038398	.022650	.042360	.08025	.0011080
%RSD	1.027367	.7521014	.3045582	.5362727	.2842893	5.852810
#1	.1166935	5.073661	7.423783	7.883533	28.23497	.0200933
#2	.1145093	5.148099	7.463239	7.866330	28.14706	.0188134
#3	.1148052	5.094527	7.424236	7.946772	28.30732	.0178867

Elem	Sr4077
Units	ppm
Avg	2.908331
Stddev	.038999
%RSD	1.340958
#1	2.893588
#2	2.952553
#3	2.878852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2750.737	53411.58	11366.27	1794.077	3376.497
Stddev	10.392	276.50	130.08	4.838	10.755
%RSD	.3777931	.5176735	1.144402	.2696803	.3185349
#1	2746.072	53623.63	11497.13	1798.770	3370.771
#2	2762.644	53098.85	11237.00	1789.106	3388.904
#3	2743.495	53512.27	11364.69	1794.356	3369.816

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1218-01 Acquired: 1/30/2025 17:02:40 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003092	-.000211	.0086228	.0062818	-.000346	.2657598
Stddev	.001294	.000705	.0009269	.0008909	.001176	.0018111
%RSD	41.84996	333.7798	10.74919	14.18235	339.7880	.6814915
#1	-.003090	.000077	.0082099	.0064754	-.001401	.2662314
#2	-.004387	.000304	.0096844	.0070601	.000922	.2637595
#3	-.001799	-.001015	.0079741	.0053101	-.000559	.2672884

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071169	-.000009	.0000517	3.176617	.0069339	.0002770
Stddev	.0005017	.000052	.0000746	.006633	.0003487	.0001119
%RSD	7.049442	558.5131	144.3589	.2088187	5.028598	40.39813
#1	.0069215	.000016	.0000282	3.183345	.0065424	.0001800
#2	.0067424	-.000070	-.000008	3.176422	.0070482	.0003995
#3	.0076869	.000025	.000135	3.170083	.0072111	.0002516

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0409935	1.456046	.0197882	.4467117	.0027800	.0004415
Stddev	.0004548	.010878	.0000928	.0073752	.0004361	.0002859
%RSD	1.109421	.7470575	.4688871	1.650991	15.68653	64.74817
#1	.0413817	1.456284	.0197899	.4467520	.0022911	.0001268
#2	.0404931	1.466803	.0196946	.4540666	.0031287	.0006851
#3	.0411056	1.445052	.0198801	.4393165	.0029203	.0005126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.36312	.0015785	.5574137	5.842316	4.419585	.0570496
Stddev	.36757	.0003646	.0017163	.087415	.021392	.0000421
%RSD	1.010819	23.09507	.3079032	1.496239	.4840214	.0738412
#1	36.28733	.0019756	.5554372	5.843799	4.428422	.0570801
#2	36.76267	.0015011	.5582776	5.928980	4.395190	.0570672
#3	36.03935	.0012589	.5585265	5.754169	4.435142	.0570015

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1218-01 Acquired: 1/30/2025 17:02:40 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055050	.0154141	.7397999	4.141810	F 31.27562	-.004403
Stddev	.0003490	.0005062	.0084834	.017243	.03681	.000670
%RSD	6.340005	3.283703	1.146714	.4163114	.1177037	15.22266
#1	.0052852	.0151937	.7360802	4.159315	31.26862	-.003775
#2	.0059074	.0150555	.7495077	4.124842	31.24282	-.005109
#3	.0053223	.0159931	.7338118	4.141274	31.31544	-.004324

Elem	Sr4077
Units	ppm
Avg	.0095240
Stddev	.0000533
%RSD	.5600148
#1	.0095608
#2	.0095484
#3	.0094628

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2810.854	56654.53	11090.23	1883.150	4260.726
Stddev	3.411	274.96	31.43	10.937	10.483
%RSD	.1213409	.4853297	.2834197	.5807936	.2460471
#1	2812.622	56621.98	11054.20	1888.902	4269.570
#2	2813.016	56397.29	11112.05	1870.537	4263.463
#3	2806.922	56944.31	11104.43	1890.011	4249.146

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1219-01 Acquired: 1/30/2025 17:06:55 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034304	.0062981	.0033121	.0002830	-.001926	.0587834	.0000024
Stddev	.0016096	.0015017	.0009884	.0016403	.000257	.0128598	.0006281
%RSD	46.92176	23.84364	29.84078	579.6227	13.32060	21.87665	25742.39
#1	.0021558	.0069545	.0033302	-.000494	-.002094	.0722077	.0004630
#2	.0028963	.0045800	.0042914	-.000824	-.001631	.0575682	.0002574
#3	.0052392	.0073598	.0023149	.002167	-.002053	.0465743	-.000713

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000174	-.000253	3.777795	.0020090	-.000700	.0120470	.7117451
Stddev	.000016	.000058	.008556	.0002113	.000148	.0002826	.0021520
%RSD	9.041419	22.83671	.2264920	10.51988	21.19557	2.345888	.3023554
#1	-.000156	-.000260	3.773152	.0018237	-.000780	.0123232	.7139379
#2	-.000186	-.000306	3.787669	.0022392	-.000791	.0120594	.7116610
#3	-.000180	-.000191	3.772564	.0019641	-.000529	.0117584	.7096364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069524	.5771857	.0003817	.0010839	.4870257	-.002071	1.909458
Stddev	.0001328	.0092204	.0001433	.0002617	.0134930	.001008	.008759
%RSD	1.909886	1.597474	37.55083	24.14540	2.770487	48.69165	.4586903
#1	.0069130	.5878009	.0003859	.0013749	.4961190	-.000953	1.899389
#2	.0068438	.5725877	.0002363	.0008678	.4715226	-.002911	1.915315
#3	.0071005	.5711685	.0005229	.0010089	.4934356	-.002348	1.913670

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0601005	.3371194	1.136823	.0008563	.0043241	.0891134	2.930923
Stddev	.0406010	.0026666	.004253	.0006480	.0002048	.0044760	.003369
%RSD	67.55520	.7909882	.3740935	75.66700	4.736881	5.022766	.1149595
#1	.0283653	.3388289	1.134222	.0006062	.0040950	.0843441	2.927108
#2	.0460832	.3384825	1.134516	.0003707	.0043877	.0932227	2.932167
#3	.1058528	.3340468	1.141731	.0015921	.0044896	.0897734	2.933494

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1219-01 Acquired: 1/30/2025 17:06:55 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.095327	-.005650	.0020894
Stddev	.010878	.000704	.0000538
%RSD	.2656094	12.46869	2.574495
#1	4.086083	-.006296	.0020516
#2	4.092585	-.005754	.0021510
#3	4.107313	-.004899	.0020657

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.949	56901.24	11270.26	1899.377	4446.883
Stddev	7.943	286.74	62.68	10.023	7.656
%RSD	.2755259	.5039246	.5561645	.5277231	.1721565
#1	2888.276	56992.59	11256.87	1907.706	4454.693
#2	2886.751	57131.17	11215.35	1902.173	4446.564
#3	2873.819	56579.95	11338.55	1888.253	4439.391

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1220-01 Acquired: 1/30/2025 17:11:09 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0697904	-.000180	1.488598	-.041514	.0015752	115.6399	.7423304
Stddev	.0029199	.000996	.005155	.002640	.0003098	.5182	.0015773
%RSD	4.183823	552.2133	.3463231	6.360096	19.66556	.4481152	.2124724
#1	.0730386	-.000984	1.493482	-.038939	.0012412	115.6568	.7437546
#2	.0673836	-.000492	1.489103	-.041387	.0018531	115.1134	.7406352
#3	.0689489	.000935	1.483209	-.044215	.0016314	116.1494	.7426014

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100812	-.004297	114.0609	.1914000	.1315040	.3653838	252.3757
Stddev	.0001134	.000133	.6679	.0023153	.0008945	.0015164	2.2148
%RSD	1.124875	3.093958	.5855779	1.209640	.6801833	.4150078	.8775814
#1	.0100921	-.004356	114.4221	.1940681	.1324962	.3650994	254.5517
#2	.0099627	-.004391	113.2901	.1899198	.1312564	.3640298	252.4514
#3	.0101888	-.004145	114.4703	.1902121	.1307594	.3670222	250.1240

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.305140	39.78224	.1599657	.0027962	11.90253	.3447002	1.191500
Stddev	.012161	.27404	.0008123	.0001266	.10295	.0031907	.010371
%RSD	.5275615	.6888552	.5078198	4.525842	.8649092	.9256458	.8704279
#1	2.313289	39.82486	.1609016	.0026529	11.96906	.3472975	1.203366
#2	2.291161	39.48939	.1594433	.0028928	11.95457	.3411386	1.186968
#3	2.310969	40.03248	.1595521	.0028429	11.78395	.3456647	1.184167

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.90429	.1670985	.0048688	.0528532	1.956268	7.480329	4.281434
Stddev	.14419	.0040240	.0000463	.0013409	.009253	.105169	.020590
%RSD	.8053560	2.408133	.9516074	2.537111	.4729764	1.405938	.4809224
#1	18.05162	.1694938	.0048526	.0543279	1.964314	7.595513	4.302109
#2	17.89779	.1693489	.0049211	.0525246	1.946158	7.456051	4.260930
#3	17.76346	.1624528	.0048328	.0517071	1.958333	7.389422	4.281263

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1220-01 Acquired: 1/30/2025 17:11:09 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.683557	.0823998	.5337547
Stddev	.035359	.0003515	.0033912
%RSD	.4071988	.4265603	.6353544
#1	8.724225	.0824781	.5327497
#2	8.666364	.0820158	.5309796
#3	8.660083	.0827056	.5375349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3043.287	58027.38	12071.09	1963.697	3873.508
Stddev	8.740	446.56	104.06	19.109	12.872
%RSD	.2872058	.7695620	.8620838	.9731161	.3323127
#1	3034.511	57527.99	12032.19	1942.147	3858.956
#2	3043.360	58165.83	12189.00	1970.371	3878.159
#3	3051.991	58388.31	11992.08	1978.575	3883.408

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV06 Acquired: 1/30/2025 17:19:49 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.972144	5.005029	4.880381	4.972694	5.053623	9.692030	9.258712
Stddev	.015771	.013022	.014999	.015246	.005679	.068083	.173136
%RSD	.3171921	.2601785	.3073335	.3065981	.1123806	.7024604	1.869984
#1	4.964819	4.992538	4.863533	4.958423	5.047069	9.658522	9.360985
#2	4.961368	5.004026	4.892279	4.970903	5.057103	9.647195	9.058809
#3	4.990246	5.018524	4.885332	4.988757	5.056697	9.770372	9.356342

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2350803	2.438641	23.52509	1.006515	2.441557	1.256832	4.804878
Stddev	.0029949	.008928	.17250	.003459	.007999	.004086	.012436
%RSD	1.273986	.3661144	.7332607	.3436359	.3276318	.3251191	.2588102
#1	.2324879	2.428458	23.42916	1.002529	2.432596	1.252335	4.796055
#2	.2343945	2.442337	23.42188	1.008728	2.444094	1.257842	4.819101
#3	.2383587	2.445128	23.72423	1.008288	2.447979	1.260318	4.799480

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.288035	23.73446	2.444969	1.232165	24.91528	2.384459	2.469215
Stddev	.015963	.24655	.008995	.003895	.08675	.017717	.001913
%RSD	.6976551	1.038804	.3679078	.3161454	.3481985	.7430095	.0774881
#1	2.282892	23.65982	2.435472	1.227841	24.98915	2.374619	2.467247
#2	2.275279	23.53386	2.446076	1.233256	24.93693	2.373846	2.471068
#3	2.305935	24.00972	2.453360	1.235399	24.81975	2.404911	2.469330

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.34428	4.657617	5.057528	4.918539	4.681426	5.109519	4.906146
Stddev	.12778	.058933	.010312	.014412	.030492	.003842	.009046
%RSD	.5248878	1.265294	.2038997	.2930038	.6513398	.0751863	.1843811
#1	24.37545	4.609326	5.046049	4.902031	4.668567	5.107299	4.895883
#2	24.45359	4.640243	5.060524	4.924980	4.659470	5.107303	4.909590
#3	24.20380	4.723284	5.066010	4.928607	4.716242	5.113955	4.912963

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV06 Acquired: 1/30/2025 17:19:49 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.796142	4.648672	4.666167
Stddev	.016946	.024789	.065681
%RSD	.3533339	.5332467	1.407600
#1	4.776663	4.642003	4.590725
#2	4.804259	4.627899	4.697151
#3	4.807503	4.676113	4.710625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2766.718	54840.07	10008.69	1839.603	3995.319
Stddev	1.920	184.58	129.20	5.712	7.113
%RSD	.0693854	.3365706	1.290856	.3105106	.1780295
#1	2768.103	54871.70	10073.67	1833.045	4002.671
#2	2764.527	55006.79	10092.50	1842.269	3988.472
#3	2767.525	54641.72	9859.90	1843.495	3994.814

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB06 Acquired: 1/30/2025 17:24:27 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000139	-.000866	-.000175	.0004850	-.002138	-.011375	-.002285
Stddev	.001036	.001320	.000899	.0010470	.000345	.006562	.000164
%RSD	745.1063	152.3837	514.2391	215.8797	16.15171	57.68187	7.156957
#1	.000581	-.001276	.000809	.0011569	-.002517	-.015012	-.002322
#2	-.001326	-.001932	-.000954	.0010194	-.002055	-.015314	-.002106
#3	.000328	.000610	-.000380	-.000721	-.001842	-.003801	-.002426

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000006	-.000200	-.018818	.0003066	-.000231	-.000234	-.020401
Stddev	.000024	.000020	.005870	.0003365	.000157	.000232	.004495
%RSD	382.7242	10.22665	31.19524	109.7650	67.91611	99.04672	22.03299
#1	-.000034	-.000211	-.021604	.0002304	-.000083	-.000467	-.016284
#2	.000004	-.000213	-.022776	.0006746	-.000395	-.000230	-.019722
#3	.000011	-.000177	-.012073	.0000147	-.000213	-.000004	-.025196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000557	.0033048	-.000278	.0002948	.0287488	-.000750	-.002990
Stddev	.000178	.0006995	.000240	.0006970	.0043230	.002523	.000061
%RSD	31.91928	21.16726	86.21856	236.4127	15.03730	336.5508	2.030496
#1	-.000763	.0027076	-.000068	-.000507	.0248591	-.000088	-.002972
#2	-.000446	.0040744	-.000228	.000759	.0334031	.001377	-.003057
#3	-.000463	.0031324	-.000539	.000632	.0279842	-.003538	-.002940

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548770	.0047472	-.000137	-.000749	.0008728	-.003148	.0006624
Stddev	.0207082	.0003018	.000133	.000848	.0005848	.004067	.0039805
%RSD	37.73573	6.357929	97.21858	113.1740	66.99737	129.1962	600.9237
#1	.0590799	.0046292	-.000048	.000141	.0003443	-.007543	-.003850
#2	.0323897	.0050901	-.000289	-.000842	.0007730	.000483	.003674
#3	.0731614	.0045221	-.000073	-.001547	.0015010	-.002384	.002164

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB06 Acquired: 1/30/2025 17:24:27 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.008914	-.004279	-.000266
Stddev	.001153	.001114	.000063
%RSD	12.93841	26.03603	23.55550
#1	-.007658	-.005534	-.000316
#2	-.009926	-.003406	-.000286
#3	-.009156	-.003898	-.000196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.986	56346.86	10549.01	1918.812	4347.513
Stddev	4.684	99.59	33.18	5.434	10.652
%RSD	.1624198	.1767473	.3144866	.2831905	.2450224
#1	2878.721	56360.23	10573.83	1923.166	4335.213
#2	2885.549	56241.26	10561.88	1912.722	4353.588
#3	2887.690	56439.09	10511.33	1920.548	4353.739

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01 Acquired: 1/30/2025 17:28:48 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0183108	-.014456	.0322930	-.024249	-.001785	82.27492
Stddev	.0009770	.002563	.0012776	.000647	.001553	.10158
%RSD	5.335731	17.72857	3.956392	2.666581	87.00951	.1234636
#1	.0185651	-.014858	.0314049	-.023521	-.002125	82.31454
#2	.0172318	-.016793	.0317169	-.024468	-.000090	82.15949
#3	.0191355	-.011715	.0337573	-.024757	-.003140	82.35071

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3792577	.0046369	-.001156	869.7378	.1601504	.0201212
Stddev	.0017798	.0000737	.000136	3.1781	.0010787	.0000510
%RSD	.4692716	1.588955	11.74070	.3654053	.6735266	.2536223
#1	.3808454	.0045714	-.001295	873.3703	.1612835	.0201295
#2	.3773339	.0046228	-.001024	868.3727	.1600318	.0200666
#3	.3795938	.0047167	-.001148	867.4703	.1591360	.0201676

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415642	84.64257	1.739443	36.58408	.0541707	.0011163
Stddev	.0006957	.36549	.007550	.04478	.0003497	.0003809
%RSD	1.673761	.4318039	.4340588	.1224127	.6455848	34.12266
#1	.0407736	85.04421	1.743384	36.54040	.0540854	.0015332
#2	.0418366	84.32953	1.730737	36.58196	.0538716	.0007863
#3	.0420825	84.55396	1.744206	36.62989	.0545552	.0010295

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.681203	.1382008	.1291257	8.327703	.2482209	.0022915
Stddev	.008027	.0012393	.0006604	.048598	.0001748	.0001683
%RSD	.4774522	.8967115	.5114654	.5835649	.0704155	7.346324
#1	1.677071	.1396314	.1294276	8.365179	.2481482	.0023358
#2	1.690454	.1375134	.1295813	8.272793	.2484203	.0024332
#3	1.676084	.1374575	.1283683	8.345135	.2480942	.0021054

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01 Acquired: 1/30/2025 17:28:48 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004206	3.090183	1.756691	5.713242	F 32.15783	-.094101
Stddev	.000440	.006170	.011675	.025531	.07249	.000798
%RSD	10.45313	.1996624	.6645978	.4468703	.2254257	.8484405
#1	-.004706	3.093738	1.767469	5.692964	32.08181	-.094637
#2	-.004033	3.083059	1.758316	5.741912	32.22618	-.094482
#3	-.003880	3.093753	1.744289	5.704849	32.16552	-.093183

Elem	Sr4077
Units	ppm
Avg	4.612352
Stddev	.017937
%RSD	.3888919
#1	4.593524
#2	4.614293
#3	4.629240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2612.626	50237.55	10668.91	1712.669	3449.498
Stddev	3.225	24.93	12.23	8.785	5.889
%RSD	.1234487	.0496305	.1146446	.5129327	.1707244
#1	2616.180	50221.76	10682.84	1705.204	3455.410
#2	2611.811	50224.59	10663.98	1710.452	3449.452
#3	2609.886	50266.29	10659.91	1722.350	3443.632

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01DUP Acquired: 1/30/2025 17:33:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165568	-.012175	.0317586	-.025328	-.002868	79.69284
Stddev	.0023728	.002747	.0013360	.001325	.001079	.20567
%RSD	14.33103	22.56199	4.206782	5.230030	37.62553	.2580819
#1	.0184549	-.009004	.0321812	-.026849	-.001653	79.92968
#2	.0173188	-.013694	.0328323	-.024711	-.003715	79.55913
#3	.0138966	-.013826	.0302624	-.024425	-.003235	79.58972

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3745316	.0044851	-.001498	845.3088	.1536241	.0191902
Stddev	.0002477	.0000332	.000123	12.2666	.0010397	.0001183
%RSD	.0661351	.7395440	8.240812	1.451142	.6767536	.6164398
#1	.3746745	.0045101	-.001545	848.6121	.1548146	.0190635
#2	.3746747	.0044475	-.001591	831.7287	.1531630	.0192094
#3	.3742456	.0044978	-.001358	855.5855	.1528947	.0192977

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0394188	83.07712	1.703753	35.43605	.0521144	.0012679
Stddev	.0004426	.33767	.005155	.21372	.0002849	.0002731
%RSD	1.122830	.4064514	.3025858	.6031021	.5466158	21.54271
#1	.0391137	83.39062	1.704783	35.62731	.0522333	.0015581
#2	.0399264	82.71960	1.698161	35.20537	.0523206	.0010158
#3	.0392163	83.12113	1.708316	35.47548	.0517893	.0012298

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.623485	.1349360	.1253780	8.208206	.2416302	.0016854
Stddev	.007151	.0010591	.0008729	.038603	.0010808	.0002398
%RSD	.4404734	.7848901	.6962178	.4702996	.4472827	14.22920
#1	1.630384	.1361257	.1247603	8.245210	.2421810	.0016820
#2	1.616106	.1340958	.1249971	8.211227	.2403850	.0014472
#3	1.623966	.1345865	.1263767	8.168181	.2423247	.0019268

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01DUP Acquired: 1/30/2025 17:33:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003028	3.021874	1.741214	5.468409	F 31.03785	-.092038
Stddev	.000808	.004798	.021262	.031915	.15172	.002348
%RSD	26.68422	.1587674	1.221103	.5836273	.4888335	2.550662
#1	-.002348	3.026197	1.716692	5.456934	30.95989	-.093014
#2	-.003921	3.016712	1.752451	5.443818	30.94095	-.089359
#3	-.002815	3.022714	1.754501	5.504475	31.21270	-.093740

Elem	Sr4077
Units	ppm
Avg	4.477178
Stddev	.098846
%RSD	2.207786
#1	4.589189
#2	4.402178
#3	4.440166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.669	52051.73	11100.77	1774.042	3572.906
Stddev	2.708	228.48	52.44	17.789	9.624
%RSD	.1004437	.4389542	.4724192	1.002719	.2693727
#1	2695.244	51844.38	11066.99	1775.095	3568.920
#2	2698.564	52296.68	11161.19	1791.281	3583.883
#3	2693.199	52014.13	11074.15	1755.751	3565.914

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01LX5 Acquired: 1/30/2025 17:37:40 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014890	-.006070	.0050661	-.005426	-.003553	17.00486	.0807964
Stddev	.0015110	.002446	.0008738	.002785	.000419	.06498	.0015836
%RSD	101.4812	40.30479	17.24786	51.32830	11.80082	.3821112	1.959987
#1	.0019414	-.006092	.0043429	-.003661	-.003071	17.07061	.0826041
#2	-.000197	-.008504	.0048185	-.008637	-.003836	17.00329	.0801310
#3	.002722	-.003612	.0060370	-.003981	-.003752	16.94068	.0796540

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010044	-.000804	188.7646	.0336810	.0038184	.0094669	17.70531
Stddev	.0000267	.000095	.7383	.0004133	.0001869	.0000970	.07753
%RSD	2.655679	11.81528	.3911051	1.227261	4.894713	1.024750	.4378731
#1	.0010128	-.000711	189.5919	.0339685	.0036073	.0093549	17.68877
#2	.0009745	-.000800	188.5292	.0332073	.0038848	.0095241	17.63738
#3	.0010258	-.000901	188.1728	.0338673	.0039630	.0095216	17.78977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3838605	7.910542	.0105734	.0001295	.3384968	.0288658	.0233533
Stddev	.0022119	.026616	.0005060	.0001950	.0125487	.0001799	.0001533
%RSD	.5762263	.3364657	4.785749	150.6286	3.707174	.6233770	.6563884
#1	.3864111	7.928326	.0100757	-.000033	.3287080	.0289388	.0232134
#2	.3824694	7.923357	.0110873	.000076	.3341389	.0286608	.0235172
#3	.3827010	7.879942	.0105572	.000346	.3526434	.0289977	.0233293

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.626715	.0533817	.0004958	-.004997	.6683211	.3502055	1.074875
Stddev	.018932	.0010456	.0001084	.000093	.0049821	.0094541	.007013
%RSD	1.163809	1.958749	21.85917	1.866288	.7454604	2.699589	.6524337
#1	1.612936	.0540220	.0003734	-.005101	.6740339	.3420538	1.067413
#2	1.618907	.0521751	.0005345	-.004922	.6648783	.3479932	1.081330
#3	1.648302	.0539480	.0005795	-.004968	.6660511	.3605697	1.075881

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01LX5 Acquired: 1/30/2025 17:37:40 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.980765	-.024827	.9899293
Stddev	.030923	.001037	.0039809
%RSD	.5170490	4.176588	.4021368
#1	5.948559	-.025686	.9941450
#2	5.983514	-.023675	.9894081
#3	6.010222	-.025121	.9862346

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2780.954	53348.81	10723.17	1825.289	3998.903
Stddev	17.072	280.52	48.66	8.559	21.735
%RSD	.6138982	.5258184	.4537732	.4688861	.5435245
#1	2800.553	53323.58	10667.59	1825.269	4024.000
#2	2772.991	53641.08	10743.86	1833.857	3986.269
#3	2769.318	53081.75	10758.07	1816.740	3986.439

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01MS Acquired: 1/30/2025 17:41:54 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9423746	1.919112	1.119778	1.826547	.3537595	129.3872
Stddev	.0030675	.019649	.004176	.005600	.0010472	.6380
%RSD	.3255021	1.023837	.3729590	.3066029	.2960172	.4930650
#1	.9426174	1.933641	1.119029	1.833011	.3546586	129.0404
#2	.9391930	1.926939	1.124279	1.823464	.3526097	130.1234
#3	.9453134	1.896756	1.116028	1.823166	.3540102	128.9977

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8124123	.1832668	.1990835	1071.830	.9509228	.2706629
Stddev	.0038225	.0016744	.0005949	9.411	.0052151	.0010109
%RSD	.4705164	.9136276	.2988024	.8780330	.5484272	.3734710
#1	.8121338	.1821491	.1984483	1076.738	.9563693	.2711663
#2	.8163664	.1851918	.1991747	1077.772	.9504243	.2713232
#3	.8087366	.1824593	.1996275	1060.979	.9459749	.2694992

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4262698	385.4740	2.628106	46.60445	.6214968	.0738831
Stddev	.0015799	1.9251	.015743	.30078	.0016460	.0012835
%RSD	.3706369	.4994013	.5990270	.6453969	.2648484	1.737233
#1	.4264174	387.4113	2.626262	46.44337	.6233672	.0748037
#2	.4246212	385.4492	2.644690	46.95147	.6208540	.0744286
#3	.4277706	383.5614	2.613367	46.41851	.6202691	.0724169

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.583293	.6329599	1.250541	27.25316	.6551590	.3769785
Stddev	.039662	.0033823	.003727	.10084	.0038410	.0011363
%RSD	.4620793	.5343577	.2980363	.3700222	.5862659	.3014308
#1	8.628450	.6327863	1.252271	27.36959	.6561124	.3782831
#2	8.554106	.6364256	1.253088	27.19647	.6584335	.3762045
#3	8.567322	.6296677	1.246263	27.19343	.6509311	.3764479

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01MS Acquired: 1/30/2025 17:41:54 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6986902	4.060091	2.043668	F 16.98220	F 42.79500	.1253975
Stddev	.0019205	.021333	.026645	.04979	.10162	.0002374
%RSD	.2748667	.5254238	1.303783	.2931827	.2374548	.1893350
#1	.6986295	4.055922	2.032898	17.03953	42.88773	.1256599
#2	.7006403	4.083201	2.074012	16.95725	42.81091	.1253349
#3	.6968008	4.041151	2.024093	16.94983	42.68637	.1251976

Elem	Sr4077
Units	ppm
Avg	8.589360
Stddev	.060046
%RSD	.6990794
#1	8.523520
#2	8.641105
#3	8.603456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2618.774	52733.39	10839.73	1760.395	3277.095
Stddev	3.968	165.80	75.77	8.929	5.605
%RSD	.1515338	.3144206	.6990424	.5071974	.1710275
#1	2614.313	52565.51	10879.21	1751.917	3272.907
#2	2621.912	52737.62	10752.37	1759.554	3274.915
#3	2620.096	52897.04	10887.61	1769.715	3283.461

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01MSD Acquired: 1/30/2025 17:46:09 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9304318	1.930816	1.115296	1.802998	.3504425	131.6025
Stddev	.0036110	.009320	.001765	.004354	.0014290	.3211
%RSD	.3880999	.4827006	.1582446	.2414941	.4077789	.2440172
#1	.9276159	1.924886	1.114579	1.798353	.3520893	131.8838
#2	.9291765	1.926004	1.114002	1.806986	.3497096	131.6712
#3	.9345029	1.941559	1.117307	1.803654	.3495287	131.2526

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8490641	.1841445	.1948162	1109.426	.9511364	.2691658
Stddev	.0022547	.0014261	.0004768	7.971	.0066931	.0002099
%RSD	.2655550	.7744463	.2447179	.7184419	.7036953	.0779843
#1	.8512300	.1852098	.1952367	1114.907	.9585735	.2694003
#2	.8467300	.1846994	.1949138	1113.089	.9455973	.2691018
#3	.8492323	.1825244	.1942982	1100.283	.9492383	.2689954

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4153881	399.9021	2.736034	48.10890	.6170643	.0760811
Stddev	.0020042	2.1329	.005762	.26213	.0002428	.0011033
%RSD	.4824948	.5333491	.2105969	.5448666	.0393487	1.450153
#1	.4137782	400.5632	2.740183	48.23746	.6170832	.0773466
#2	.4176329	397.5169	2.738464	48.28194	.6172971	.0755756
#3	.4147533	401.6261	2.729455	47.80731	.6168125	.0753211

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.873346	.6528114	1.253929	28.29199	.6797692	.3741377
Stddev	.055408	.0042827	.007535	.19238	.0007287	.0006773
%RSD	.6244272	.6560360	.6009385	.6799751	.1072035	.1810185
#1	8.884797	.6543867	1.262621	28.33921	.6800174	.3744835
#2	8.813108	.6560833	1.249933	28.08040	.6789487	.3733573
#3	8.922133	.6479642	1.249234	28.45636	.6803413	.3745722

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01MSD Acquired: 1/30/2025 17:46:09 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6935202	4.202338	2.131555	F 17.11382	F 42.58224	.1328167
Stddev	.0020096	.012507	.005959	.05448	.04839	.0008088
%RSD	.2897675	.2976244	.2795504	.3183639	.1136450	.6089316
#1	.6953253	4.215425	2.128192	17.13766	42.54763	.1336816
#2	.6913548	4.201082	2.128038	17.05148	42.56155	.1320792
#3	.6938805	4.190506	2.138435	17.15233	42.63754	.1326893

Elem	Sr4077
Units	ppm
Avg	8.858225
Stddev	.084851
%RSD	.9578748
#1	8.891264
#2	8.921586
#3	8.761824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.881	52964.25	10862.14	1784.497	3308.248
Stddev	2.313	244.79	72.65	13.098	4.924
%RSD	.0873164	.4621827	.6688736	.7339859	.1488258
#1	2647.017	52714.12	10800.14	1769.841	3304.232
#2	2651.469	53203.33	10844.20	1795.059	3313.741
#3	2648.158	52975.30	10942.08	1788.590	3306.770

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01A Acquired: 1/30/2025 17:50:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9204239	1.906413	1.098345	1.777197	.3435168	127.6427
Stddev	.0076309	.004169	.003742	.012275	.0001451	2.3960
%RSD	.8290588	.2187008	.3406915	.6906691	.0422352	1.877078
#1	.9136722	1.901782	1.094336	1.771758	.3436024	124.8980
#2	.9188966	1.907587	1.098952	1.768582	.3433492	129.3163
#3	.9287029	1.909870	1.101746	1.791251	.3435986	128.7137

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8151195	.1815881	.1938842	1064.072	.9463850	.2674713
Stddev	.0184098	.0030117	.0009430	17.407	.0014038	.0014135
%RSD	2.258536	1.658511	.4863751	1.635877	.1483283	.5284780
#1	.7945981	.1781177	.1931707	1044.091	.9465213	.2663811
#2	.8301838	.1835166	.1935287	1072.168	.9449180	.2669645
#3	.8205765	.1831300	.1949533	1075.956	.9477156	.2690684

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4179537	390.1217	2.636848	46.46495	.6110885	.0735003
Stddev	.0018966	2.8012	.054951	.91635	.0014494	.0007818
%RSD	.4537877	.7180362	2.083967	1.972134	.2371835	1.063676
#1	.4185619	387.2012	2.575343	45.41845	.6104953	.0727490
#2	.4158276	392.7860	2.681108	47.12357	.6100298	.0743094
#3	.4194716	390.3779	2.654092	46.85284	.6127404	.0734426

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.656594	.6333707	1.249825	27.52929	.6704530	.3729376
Stddev	.017475	.0121916	.001686	.18203	.0080638	.0012729
%RSD	.2018707	1.924873	.1348702	.6612129	1.202743	.3413313
#1	8.636427	.6192933	1.248044	27.35369	.6615325	.3716852
#2	8.667274	.6403402	1.250037	27.71713	.6772248	.3728975
#3	8.666080	.6404785	1.251395	27.51706	.6726018	.3742302

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1221-01A Acquired: 1/30/2025 17:50:24 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6901177	4.060807	2.583085	F 17.03407	F 41.94514	.1274362
Stddev	.0014900	.080943	.012163	.07433	.19186	.0033379
%RSD	.2159104	1.993265	.4708883	.4363543	.4573959	2.619297
#1	.6884579	3.968493	2.577117	16.97081	41.74472	.1242326
#2	.6905553	4.119624	2.597079	17.01548	41.96359	.1308939
#3	.6913400	4.094303	2.575057	17.11594	42.12710	.1271821

Elem	Sr4077
Units	ppm
Avg	8.671692
Stddev	.199269
%RSD	2.297922
#1	8.447143
#2	8.827454
#3	8.740480

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2649.022	52636.14	10914.49	1783.402	3317.245
Stddev	10.278	61.66	162.67	2.926	12.986
%RSD	.3879901	.1171453	1.490377	.1640797	.3914546
#1	2657.865	52580.54	11101.65	1784.476	3329.105
#2	2651.455	52702.46	10807.16	1785.640	3319.259
#3	2637.746	52625.42	10834.67	1780.091	3303.369

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1215-03 Acquired: 1/30/2025 17:54:39 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0969249	-.003916	3.102953	-.019253	.0181134	48.79927	.8819579
Stddev	.0034024	.001526	.006612	.002942	.0013096	.09724	.0049530
%RSD	3.510293	38.95877	.2130809	15.28336	7.230093	.1992644	.5615902
#1	.0944095	-.003036	3.102555	-.019238	.0168922	48.80882	.8791190
#2	.1007961	-.005678	3.096550	-.022202	.0194964	48.69761	.8790776
#3	.0955690	-.003035	3.109755	-.016317	.0179514	48.89138	.8876771

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054922	-.003417	64.53496	.1568340	.0770125	1.542249	162.6285
Stddev	.0000603	.000217	.23072	.0009817	.0001821	.003876	1.2498
%RSD	1.098299	6.347160	.3575064	.6259537	.2363839	.2513192	.7685142
#1	.0054253	-.003611	64.37100	.1578749	.0768100	1.538332	163.6930
#2	.0055089	-.003183	64.43510	.1567022	.0770652	1.542333	161.2523
#3	.0055423	-.003457	64.79879	.1559248	.0771624	1.546083	162.9401

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.605644	33.09868	.2482657	.0034755	35.04966	.2054295	1.262105
Stddev	.014575	.12058	.0008341	.0001976	.30663	.0011314	.005081
%RSD	.5593479	.3643172	.3359869	5.684597	.8748507	.5507662	.4026140
#1	2.593392	33.03792	.2481426	.0033261	35.37695	.2045522	1.262397
#2	2.601777	33.02056	.2474999	.0034009	34.76903	.2050299	1.256884
#3	2.621762	33.23755	.2491545	.0036995	35.00299	.2067066	1.267034

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.41334	.1411248	.0103993	.1170986	2.985493	9.790413	6.388540
Stddev	.06961	.0024769	.0001346	.0006193	.034253	.134274	.003631
%RSD	.5189729	1.755144	1.294259	.5288583	1.147315	1.371485	.0568364
#1	13.48647	.1425495	.0104131	.1177608	2.959386	9.910903	6.386087
#2	13.34788	.1382647	.0102583	.1165338	2.972815	9.814674	6.386821
#3	13.40567	.1425603	.0105264	.1170010	3.024278	9.645663	6.392711

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1215-03 Acquired: 1/30/2025 17:54:39 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.892849	.0822223	.2822592
Stddev	.009060	.0005021	.0016636
%RSD	.1851617	.6106407	.5893861
#1	4.886914	.0821293	.2805643
#2	4.888356	.0827644	.2823237
#3	4.903277	.0817732	.2838896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2950.440	56914.61	11305.99	1935.449	4021.264
Stddev	7.830	234.93	59.51	2.636	12.007
%RSD	.2653937	.4127690	.5263145	.1361869	.2985883
#1	2957.939	56697.77	11372.31	1932.631	4032.677
#2	2951.066	57164.19	11288.40	1937.854	4022.375
#3	2942.316	56881.87	11257.26	1935.861	4008.740

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1215-07 Acquired: 1/30/2025 17:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0827841	-.004572	2.317408	-.029303	.0198490	52.16587
Stddev	.0028199	.002388	.002614	.003128	.0013139	.10138
%RSD	3.406381	52.22687	.1128008	10.67404	6.619316	.1943389
#1	.0795789	-.007192	2.315931	-.031612	.0198777	52.17930
#2	.0838894	-.004006	2.315866	-.030554	.0211483	52.05845
#3	.0848839	-.002518	2.320426	-.025743	.0185210	52.25986

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7181877	.0055263	.0005421	312.6469	.1698987	.0657937
Stddev	.0015339	.0000774	.0001234	4.1430	.0003510	.0001283
%RSD	.2135745	1.400971	22.76763	1.325139	.2065854	.1949515
#1	.7171051	.0055186	.0006627	317.3782	.1702692	.0658793
#2	.7175149	.0054531	.0004160	310.8941	.1698558	.0656462
#3	.7199430	.0056073	.0005476	309.6684	.1695711	.0658556

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8919877	152.6611	1.883431	100.7868	.1824132	.0011302
Stddev	.0014979	.6426	.007572	.2938	.0004920	.0004706
%RSD	.1679326	.4209060	.4020167	.2914949	.2697433	41.63833
#1	.8918993	151.9197	1.887232	101.0502	.1818818	.0016319
#2	.8905359	153.0575	1.874712	100.4700	.1825049	.0010600
#3	.8935279	153.0061	1.888349	100.8404	.1828530	.0006986

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.81628	.1933770	1.419988	12.64825	.1959217	.0119491
Stddev	.18860	.0018169	.003605	.10704	.0004973	.0001779
%RSD	.5747069	.9395531	.2538542	.8462936	.2538180	1.488745
#1	32.61179	.1914853	1.420324	12.52593	.1953523	.0118014
#2	32.98338	.1951085	1.416228	12.72479	.1961420	.0121466
#3	32.85366	.1935371	1.423414	12.69403	.1962707	.0118994

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1215-07 Acquired: 1/30/2025 17:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0940471	2.683534	F 12.04497	6.370303	F 10.75290	.0225527
Stddev	.0014545	.010393	.04624	.019706	.06305	.0014801
%RSD	1.546566	.3872818	.3839253	.3093425	.5863471	6.562763
#1	.0925116	2.686629	11.99361	6.362246	10.72877	.0209590
#2	.0954042	2.671945	12.08329	6.355903	10.70548	.0228152
#3	.0942255	2.692028	12.05802	6.392761	10.82445	.0238840

Elem	Sr4077
Units	ppm
Avg	.9817447
Stddev	.0128299
%RSD	1.306843
#1	.9866699
#2	.9913822
#3	.9671821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.139	54539.96	10993.38	1845.603	3617.141
Stddev	5.777	71.36	89.40	9.512	6.996
%RSD	.2087884	.1308445	.8131907	.5153895	.1934056
#1	2773.745	54465.83	10904.95	1843.002	3623.931
#2	2763.027	54608.19	11083.72	1856.145	3617.536
#3	2764.646	54545.86	10991.48	1837.662	3609.956

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04 Acquired: 1/30/2025 18:03:03 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1120298	.0091451	.2042064	-.064658	-.004148	147.3497
Stddev	.0054671	.0019739	.0024538	.000720	.000547	1.1857
%RSD	4.880061	21.58422	1.201636	1.113908	13.19921	.8047086
#1	.1063960	.0097654	.2070035	-.065083	-.003546	147.8619
#2	.1173134	.0069356	.2024162	-.065064	-.004617	145.9939
#3	.1123799	.0107344	.2031995	-.063826	-.004281	148.1932

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4027554	.0127257	.0057119	21.77281	.3445554	.1808580
Stddev	.0039654	.0000896	.0006138	.08725	.0021931	.0005483
%RSD	.9845578	.7038982	10.74665	.4007360	.6365022	.3031377
#1	.4063584	.0127783	.0064067	21.79909	.3422002	.1812936
#2	.3985069	.0126222	.0054860	21.67544	.3449271	.1802424
#3	.4034008	.0127764	.0052430	21.84390	.3465389	.1810379

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2274308	386.0901	4.701725	71.12511	.3740381	.0020793
Stddev	.0025983	2.9853	.025724	.61906	.0012937	.0007628
%RSD	1.142444	.7732195	.5471179	.8703831	.3458723	36.68315
#1	.2304056	383.2380	4.721394	71.14992	.3750935	.0012769
#2	.2256058	385.8394	4.672614	70.49401	.3725948	.0021660
#3	.2262811	389.1928	4.711166	71.73139	.3744258	.0027950

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.38182	.3732514	.8821294	28.23066	.3012516	.0015647
Stddev	.06576	.0038420	.0029497	.14068	.0032323	.0003403
%RSD	.4914052	1.029335	.3343853	.4983383	1.072947	21.75096
#1	13.39358	.3750028	.8799462	28.23444	.2976565	.0018743
#2	13.31097	.3688458	.8809569	28.08812	.3021811	.0012003
#3	13.44090	.3759057	.8854851	28.36941	.3039173	.0016194

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04 Acquired: 1/30/2025 18:03:03 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050778	1.983774	3.707948	8.176255	F 159.8702	.3038586
Stddev	.0011745	.014601	.012902	.040106	.7172	.0028683
%RSD	23.13020	.7359981	.3479462	.4905138	.4485886	.9439573
#1	.0037231	1.992904	3.697442	8.200831	160.4297	.3061771
#2	.0056998	1.966935	3.704055	8.129975	159.0617	.3006510
#3	.0058105	1.991483	3.722348	8.197961	160.1192	.3047476

Elem	Sr4077
Units	ppm
Avg	-.126765
Stddev	.003952
%RSD	3.117573
#1	-.122228
#2	-.128618
#3	-.129451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3459.960	67634.38	13791.69	2283.816	3832.070
Stddev	12.054	450.42	95.60	11.955	18.035
%RSD	.3483765	.6659673	.6931783	.5234462	.4706305
#1	3448.358	68014.51	13795.32	2293.022	3815.961
#2	3472.420	67751.75	13885.42	2288.121	3851.554
#3	3459.104	67136.90	13694.32	2270.305	3828.697

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04DUP Acquired: 1/30/2025 18:07:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1139715	.0097922	.2135349	-.072096	-.002782	147.8952
Stddev	.0027652	.0012378	.0039183	.004840	.001105	.1128
%RSD	2.426192	12.64021	1.834972	6.712658	39.71576	.0762826
#1	.1156578	.0108266	.2127683	-.067532	-.002351	147.8471
#2	.1107803	.0084209	.2100565	-.071586	-.001958	147.8144
#3	.1154765	.0101293	.2177798	-.077170	-.004038	148.0241

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3980009	.0130000	.0096481	21.90251	.3431076	.1873983
Stddev	.0014443	.0000723	.0030329	.03290	.0056969	.0056240
%RSD	.3628912	.5565174	31.43540	.1502252	1.660385	3.001081
#1	.3996090	.0130177	.0069400	21.93021	.3485624	.1845448
#2	.3975794	.0129205	.0090792	21.86614	.3435643	.1837731
#3	.3968141	.0130619	.0129253	21.91119	.3371961	.1938770

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498984	378.1225	4.665241	71.34666	.3874078	.0001292
Stddev	.0168088	6.4525	.009974	.11046	.0118547	.0004010
%RSD	6.726251	1.706452	.2137859	.1548235	3.060013	310.3117
#1	.2361715	385.5710	4.675479	71.25116	.3811518	.0004204
#2	.2448785	374.2426	4.664690	71.32118	.3799915	-.000328
#3	.2686453	374.5539	4.655555	71.46763	.4010800	.000295

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.99509	.3716974	.8771459	27.35479	.2894982	.0020261
Stddev	.14316	.0013314	.0124624	.37264	.0081735	.0003467
%RSD	1.101674	.3581937	1.420790	1.362253	2.823323	17.10944
#1	13.13870	.3701663	.8881615	27.68101	.2989322	.0023051
#2	12.99419	.3723421	.8796572	27.43466	.2850151	.0016380
#3	12.85237	.3725837	.8636191	26.94869	.2845472	.0021352

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04DUP Acquired: 1/30/2025 18:07:14 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036485	1.973869	3.596463	8.434143	F 165.4299	.2972193
Stddev	.0007952	.006653	.034926	.225136	4.8460	.0003876
%RSD	21.79454	.3370524	.9711090	2.669342	2.929326	.1304165
#1	.0027626	1.980944	3.620189	8.320672	162.8324	.2974714
#2	.0043004	1.972924	3.612843	8.288321	162.4364	.2974135
#3	.0038825	1.967739	3.556358	8.693436	171.0209	.2967729

Elem	Sr4077
Units	ppm
Avg	-.120762
Stddev	.005702
%RSD	4.721771
#1	-.127335
#2	-.117141
#3	-.117811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3390.328	68293.95	13598.49	2310.641	3726.305
Stddev	65.255	895.71	21.40	36.635	94.894
%RSD	1.924735	1.311557	.1573712	1.585477	2.546591
#1	3427.175	67432.32	13574.52	2275.070	3775.207
#2	3428.824	68229.28	13605.28	2308.598	3786.774
#3	3314.984	69220.24	13615.67	2348.254	3616.935

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV07 Acquired: 1/30/2025 18:11:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	4.969853	5.064713	4.881731	4.995308	5.063850	9.881901	9.618177
Stddev	.019742	.019850	.029222	.015077	.019433	.082021	.161413
%RSD	.3972377	.3919189	.5985984	.3018234	.3837629	.8300148	1.678209
#1	4.947112	5.064081	4.848179	4.983831	5.044627	9.901035	9.539761
#2	4.982597	5.045188	4.895404	4.989709	5.063437	9.792003	9.510952
#3	4.979850	5.084872	4.901609	5.012383	5.083487	9.952663	9.803817

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2367747	2.438308	24.08060	1.019430	2.445959	1.251137	5.050154
Stddev	.0021823	.013597	.13234	.005003	.012462	.006003	.030629
%RSD	.9216933	.5576391	.5495599	.4907939	.5094879	.4798345	.6065046
#1	.2358626	2.422622	24.07986	1.025025	2.431571	1.244733	5.085513
#2	.2351963	2.446724	23.94863	1.017881	2.453002	1.252041	5.033155
#3	.2392651	2.445578	24.21330	1.015385	2.453305	1.256637	5.031794

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.355899	24.09128	2.445676	1.265707	26.31511	2.450092	2.516967
Stddev	.012013	.22097	.012713	.002896	.10863	.018738	.006117
%RSD	.5099071	.9172228	.5198043	.2288189	.4128120	.7648027	.2430202
#1	2.357796	24.09541	2.431003	1.269008	26.43724	2.456128	2.523476
#2	2.343051	23.86828	2.453375	1.263594	26.27884	2.429079	2.511338
#3	2.366851	24.31016	2.452651	1.264519	26.22927	2.465068	2.516086

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.71432	4.688549	5.084296	4.921872	4.827081	5.335618	4.818099
Stddev	.05746	.041288	.023930	.023496	.031241	.007661	.022436
%RSD	.2234715	.8806137	.4706556	.4773743	.6472018	.1435913	.4656638
#1	25.76338	4.666633	5.058305	4.894748	4.821342	5.344440	4.792863
#2	25.72847	4.662841	5.089172	4.934941	4.799108	5.330631	4.825642
#3	25.65110	4.736174	5.105413	4.935927	4.860794	5.331784	4.835792

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV07 Acquired: 1/30/2025 18:11:26 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.799885	4.807719	4.808210
Stddev	.020719	.030847	.062204
%RSD	.4316646	.6416102	1.293696
#1	4.777934	4.805130	4.771414
#2	4.802618	4.778248	4.773186
#3	4.819102	4.839778	4.880029

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2824.615	54426.87	10163.26	1846.436	4082.905
Stddev	13.503	261.79	69.90	6.446	20.049
%RSD	.4780448	.4809959	.6877996	.3491090	.4910557
#1	2838.133	54127.69	10162.79	1839.000	4105.868
#2	2824.585	54539.00	10233.40	1850.438	4073.975
#3	2811.127	54613.92	10093.60	1849.870	4068.873

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB07 Acquired: 1/30/2025 18:15:38 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000846	-.001118	-.000580	-.000678	-.002866	-.013971	-.002946
Stddev	.001502	.000265	.000248	.000357	.001563	.003211	.000626
%RSD	177.5311	23.67988	42.78385	52.68089	54.55171	22.98514	21.26441
#1	.000371	-.001266	-.000470	-.001038	-.004199	-.016717	-.003362
#2	-.000384	-.001276	-.000406	-.000671	-.003253	-.010440	-.003250
#3	-.002525	-.000813	-.000864	-.000324	-.001145	-.014755	-.002225

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000012	-.000301	-.014078	-.000126	-.000207	-.000007	-.011951
Stddev	.000014	.000047	.007970	.000039	.000031	.000102	.002571
%RSD	117.4450	15.67867	56.60886	31.10012	14.80056	1531.325	21.51619
#1	-.000004	-.000294	-.021402	-.000116	-.000242	-.000087	-.009559
#2	-.000004	-.000258	-.015242	-.000093	-.000186	.000108	-.014670
#3	-.000028	-.000351	-.005591	-.000169	-.000192	-.000041	-.011623

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000910	-.002995	-.000190	-.000219	.0261342	-.003292	-.002950
Stddev	.000327	.006449	.000198	.000423	.0018363	.000761	.000207
%RSD	35.95301	215.3212	104.3632	193.0489	7.026221	23.11853	7.029493
#1	-.001184	-.001436	-.000391	-.000676	.0244129	-.003543	-.002961
#2	-.000999	-.010081	-.000185	-.000139	.0280671	-.003895	-.003151
#3	-.000548	.002532	.000006	.000158	.0259227	-.002437	-.002737

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1083223	.0017146	-.000069	-.000513	.0004903	-.010292	.0036686
Stddev	.0104008	.0001206	.000052	.000298	.0001443	.004798	.0024976
%RSD	9.601666	7.035449	74.60858	58.17318	29.42226	46.62498	68.08070
#1	.1029993	.0015916	-.000097	-.000719	.0006279	-.004832	.0032254
#2	.1203072	.0018328	-.000101	-.000171	.0003402	-.012201	.0063582
#3	.1016605	.0017195	-.000010	-.000648	.0005028	-.013841	.0014223

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB07 Acquired: 1/30/2025 18:15:38 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003196	-.005531	-.000379
Stddev	.000454	.001202	.000037
%RSD	14.20749	21.73814	9.835194
#1	-.002680	-.006424	-.000387
#2	-.003534	-.006005	-.000338
#3	-.003375	-.004164	-.000411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2880.538	57976.62	10928.41	1986.565	4352.676
Stddev	28.293	179.74	17.73	8.952	42.647
%RSD	.9821973	.3100245	.1621991	.4506509	.9797930
#1	2857.596	57811.89	10935.70	1978.508	4319.527
#2	2871.867	57949.66	10941.32	1984.984	4337.713
#3	2912.152	58168.32	10908.20	1996.202	4400.789

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04LX5 Acquired: 1/30/2025 18:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271350	.0016469	.0425108	-.015703	-.002335	35.40905
Stddev	.0007885	.0005476	.0007675	.000859	.000734	.07597
%RSD	2.905787	33.25014	1.805307	5.469363	31.43101	.2145403
#1	.0280453	.0015590	.0416507	-.015608	-.002374	35.48922
#2	.0266954	.0022331	.0427559	-.014895	-.003048	35.39979
#3	.0266644	.0011485	.0431257	-.016605	-.001582	35.33813

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0965711	.0033927	-.002556	5.413062	.0845022	.0361895
Stddev	.0011093	.0001242	.000055	.032749	.0002900	.0001043
%RSD	1.148654	3.661695	2.135777	.6049968	.3432140	.2881436
#1	.0976844	.0034495	-.002495	5.443714	.0846410	.0362310
#2	.0965631	.0034783	-.002599	5.416914	.0841689	.0362667
#3	.0954659	.0032502	-.002575	5.378557	.0846968	.0360709

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0622711	93.52894	1.168770	17.51879	.0763967	.0003068
Stddev	.0006294	.33994	.006702	.06046	.0007361	.0004867
%RSD	1.010746	.3634551	.5734521	.3451252	.9635910	158.6352
#1	.0629797	93.55318	1.170872	17.56235	.0765442	.0008570
#2	.0617770	93.85611	1.174169	17.54425	.0770480	-.000068
#3	.0620565	93.17753	1.161268	17.44976	.0755980	.000131

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.068277	.0908145	.2124327	6.477172	.0731357	-.000327
Stddev	.000848	.0013226	.0010512	.018302	.0010620	.000376
%RSD	.0276515	1.456367	.4948482	.2825647	1.452128	114.9013
#1	3.068022	.0914700	.2129390	6.457960	.0726974	-.000621
#2	3.069224	.0892922	.2131349	6.494403	.0743467	-.000456
#3	3.067585	.0916813	.2112241	6.479154	.0723630	.000096

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04LX5 Acquired: 1/30/2025 18:19:59 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000767	.4868284	.8447177	1.668601	F 32.94143	.0685822
Stddev	.000579	.0020710	.0040592	.009414	.17450	.0007142
%RSD	75.48437	.4254088	.4805408	.5641728	.5297334	1.041393
#1	-.001289	.4876110	.8440829	1.671361	33.07050	.0694069
#2	-.000144	.4883940	.8490569	1.676326	33.01090	.0681767
#3	-.000867	.4844801	.8410133	1.658115	32.74289	.0681631

Elem	Sr4077
Units	ppm
Avg	-.031642
Stddev	.000183
%RSD	.5789151
#1	-.031619
#2	-.031836
#3	-.031472

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3026.279	59841.55	11508.48	2063.361	4157.158
Stddev	16.322	138.05	41.35	9.232	27.447
%RSD	.5393395	.2306981	.3592947	.4474425	.6602398
#1	3011.604	59693.21	11472.41	2059.912	4140.193
#2	3023.375	59865.18	11499.43	2056.350	4142.458
#3	3043.858	59966.26	11553.61	2073.821	4188.825

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04MS Acquired: 1/30/2025 18:24:08 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7265362	1.848524	1.113053	1.421412	.6007704	149.5240
Stddev	.0029181	.019792	.011743	.011794	.0043673	.2400
%RSD	.4016493	1.070717	1.054995	.8297653	.7269549	.1605419
#1	.7296314	1.867352	1.125204	1.431787	.6034041	149.3464
#2	.7261420	1.850328	1.112189	1.423864	.6031781	149.4286
#3	.7238352	1.827891	1.101767	1.408584	.5957292	149.7971

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5513153	.1484668	.1915451	22.53173	.6365581	.3680900
Stddev	.0003040	.0011040	.0025825	.07254	.0019075	.0035162
%RSD	.0551455	.7436209	1.348242	.3219368	.2996525	.9552548
#1	.5511236	.1476937	.1943501	22.49850	.6347634	.3717912
#2	.5516658	.1479755	.1910194	22.48175	.6385612	.3676849
#3	.5511564	.1497312	.1892660	22.61493	.6363496	.3647939

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4572408	372.1214	4.898500	73.26485	.8362904	.0580525
Stddev	.0078394	2.3128	.010805	.29571	.0093942	.0005849
%RSD	1.714506	.6215212	.2205763	.4036176	1.123322	1.007517
#1	.4659784	370.3808	4.889888	73.09285	.8460684	.0578041
#2	.4549207	374.7458	4.894989	73.09539	.8354689	.0587205
#3	.4508233	371.2375	4.910624	73.60630	.8273338	.0576327

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.11611	.5905569	1.014071	34.77768	.4708561	.3126891
Stddev	.06180	.0013084	.002726	.09520	.0033629	.0019455
%RSD	.4088095	.2215479	.2688159	.2737364	.7142042	.6221705
#1	15.11558	.5890615	1.011268	34.84991	.4696918	.3145747
#2	15.17816	.5911185	1.016712	34.81332	.4746464	.3128038
#3	15.05458	.5914908	1.014232	34.66980	.4682301	.3106889

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04MS Acquired: 1/30/2025 18:24:08 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6590943	2.219224	5.020920	F 13.73620	F 155.8441	.4536914
Stddev	.0072022	.005311	.048855	.10913	1.4549	.0010348
%RSD	1.092739	.2392992	.9730341	.7944778	.9335589	.2280731
#1	.6670803	2.213216	5.033898	13.84955	157.3828	.4534271
#2	.6571111	2.221166	5.061975	13.72719	155.6584	.4528144
#3	.6530915	2.223290	4.966886	13.63185	154.4909	.4548327

Elem	Sr4077
Units	ppm
Avg	.0321111
Stddev	.0021183
%RSD	6.596792
#1	.0336361
#2	.0296924
#3	.0330049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.098	68788.54	13254.69	2318.941	3833.103
Stddev	34.366	194.66	64.91	14.207	43.090
%RSD	.9949426	.2829803	.4896954	.6126475	1.124150
#1	3425.653	68975.96	13320.75	2329.783	3794.007
#2	3444.358	68587.37	13252.32	2302.858	3825.998
#3	3492.283	68802.29	13191.00	2324.182	3879.303

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04MSD Acquired: 1/30/2025 18:28:11 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7420791	1.886808	1.133847	1.465285	.6104477	151.0277
Stddev	.0031412	.016835	.001135	.002510	.0026984	.0474
%RSD	.4232920	.8922568	.1001130	.1713272	.4420432	.0313864
#1	.7457003	1.885416	1.132551	1.467602	.6111211	150.9802
#2	.7404474	1.870712	1.134325	1.462618	.6074763	151.0278
#3	.7400896	1.904296	1.134666	1.465635	.6127457	151.0750

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5522247	.1481428	.1941547	22.72199	.6472609	.3739878
Stddev	.0020655	.0003049	.0003427	.03148	.0011255	.0006806
%RSD	.3740321	.2058028	.1764993	.1385230	.1738940	.1819779
#1	.5525460	.1484113	.1944408	22.69040	.6461835	.3740536
#2	.5541107	.1478114	.1942484	22.75335	.6471702	.3732767
#3	.5500173	.1482058	.1937749	22.72221	.6484291	.3746330

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554509	384.2727	4.894739	73.59965	.8498867	.0602611
Stddev	.0039268	4.1905	.007035	.12687	.0010718	.0008894
%RSD	.8621874	1.090504	.1437182	.1723744	.1261071	1.475843
#1	.4598212	381.2493	4.890606	73.47063	.8508134	.0593248
#2	.4543123	382.5127	4.902861	73.60407	.8487130	.0603640
#3	.4522191	389.0562	4.890749	73.72425	.8501336	.0610945

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.62229	.5925736	1.030427	35.92531	.4872064	.3156283
Stddev	.08200	.0038804	.006266	.18011	.0051643	.0012642
%RSD	.5248866	.6548407	.6081070	.5013327	1.059992	.4005486
#1	15.53422	.5951099	1.024205	35.72664	.4836141	.3165329
#2	15.63622	.5881065	1.030340	35.97141	.4848804	.3141837
#3	15.69643	.5945044	1.036736	36.07789	.4931247	.3161681

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04MSD Acquired: 1/30/2025 18:28:11 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6682772	2.274553	5.914869	F 14.02952	F 160.6762	.4534993
Stddev	.0023805	.004431	.070156	.02405	.3759	.0025130
%RSD	.3562169	.1947934	1.186088	.1714334	.2339345	.5541448
#1	.6705738	2.269466	5.834180	14.00927	160.7627	.4533166
#2	.6658208	2.276622	5.961435	14.02319	160.2647	.4560986
#3	.6684370	2.277570	5.948993	14.05610	161.0013	.4510825

Elem	Sr4077
Units	ppm
Avg	.0208408
Stddev	.0046446
%RSD	22.28620
#1	.0237834
#2	.0232526
#3	.0154864

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3391.907	67051.83	13298.91	2270.613	3747.838
Stddev	9.373	245.80	19.69	16.761	3.816
%RSD	.2763284	.3665811	.1480335	.7381738	.1018316
#1	3385.616	67288.26	13276.54	2287.050	3743.751
#2	3402.679	67069.61	13313.56	2271.242	3751.310
#3	3387.426	66797.63	13306.65	2253.546	3748.454

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04A Acquired: 1/30/2025 18:32:15 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7516483	1.902008	1.142541	1.479853	.6177766	151.6097
Stddev	.0026681	.004473	.007508	.011185	.0019130	.2152
%RSD	.3549646	.2351639	.6571332	.7558008	.3096574	.1419592
#1	.7491032	1.906857	1.133889	1.467635	.6155677	151.5672
#2	.7514175	1.898044	1.146385	1.489587	.6188937	151.8430
#3	.7544244	1.901123	1.147348	1.482338	.6188683	151.4189

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5445729	.1492578	.1979660	22.84277	.6517351	.3781234
Stddev	.0007027	.0003145	.0007799	.05293	.0018844	.0023275
%RSD	.1290376	.2106738	.3939386	.2317020	.2891401	.6155354
#1	.5440766	.1496165	.1972884	22.87114	.6500492	.3755389
#2	.5453770	.1490297	.1988185	22.87547	.6513866	.3787775
#3	.5442651	.1491272	.1977912	22.78171	.6537694	.3800538

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4664627	379.6417	4.824905	73.44055	.8602329	.0593042
Stddev	.0032263	4.8167	.012360	.06821	.0061908	.0006322
%RSD	.6916435	1.268736	.2561675	.0928802	.7196625	1.066051
#1	.4670912	376.5758	4.826264	73.51760	.8534518	.0592656
#2	.4693285	377.1560	4.836530	73.41617	.8616640	.0586922
#3	.4629685	385.1934	4.811922	73.38788	.8655827	.0599549

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.36545	.5890427	1.043084	35.39256	.4866306	.3181179
Stddev	.11248	.0031261	.006711	.25771	.0053088	.0018183
%RSD	.7320001	.5307018	.6433570	.7281505	1.090919	.5715699
#1	15.23726	.5916687	1.035745	35.10960	.4825190	.3160761
#2	15.44761	.5898744	1.044600	35.61382	.4847488	.3195621
#3	15.41147	.5855848	1.048907	35.45427	.4926239	.3187156

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: Q1194-04A Acquired: 1/30/2025 18:32:15 Type: Unk
Method: NON EPA-6010-200.7(v2645) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6775511	2.473738	8.143230	F 14.12156	F 161.9557	.4442752
Stddev	.0045614	.009377	.030860	.04494	.5227	.0017037
%RSD	.6732241	.3790712	.3789638	.3182681	.3227602	.3834857
#1	.6727733	2.468299	8.124546	14.07179	161.4028	.4424001
#2	.6780200	2.484566	8.178849	14.13372	162.0226	.4457283
#3	.6818599	2.468350	8.126294	14.15917	162.4418	.4446971

Elem	Sr4077
Units	ppm
Avg	.0213033
Stddev	.0054741
%RSD	25.69574
#1	.0243327
#2	.0245931
#3	.0149842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3371.831	67094.67	13287.73	2253.955	3721.000
Stddev	7.962	306.43	30.52	19.838	13.938
%RSD	.2361474	.4567105	.2297156	.8801545	.3745801
#1	3381.025	67421.71	13252.99	2274.342	3736.386
#2	3367.231	67048.12	13310.25	2252.808	3717.396
#3	3367.237	66814.18	13299.96	2234.715	3709.217

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LR1 Acquired: 1/30/2025 18:36:12 Type: Unk
Method: NON EPA-6010-200.7(v2646) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294915	.0926247	.0397817	-.151534	-.002624	2019.038	.0120610
Stddev	.0115909	.0058542	.0055772	.008716	.006324	12.083	.0009109
%RSD	39.30257	6.320389	14.01957	5.751550	241.0122	.5984396	7.552160
#1	.0425499	.0979459	.0442531	-.158797	-.009789	2025.622	.0128293
#2	.0255035	.0935747	.0335322	-.141870	.002177	2026.399	.0122990
#3	.0204210	.0863536	.0415598	-.153937	-.000259	2005.093	.0110548

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089117	-.020915	1835.423	.0016155	.0249667	.0910491	1076.269
Stddev	.0001670	.001404	10.204	.0005883	.0004930	.0068217	2.545
%RSD	1.874160	6.711078	.5559681	36.41236	1.974814	7.492271	.2365045
#1	.0091034	-.022353	1825.303	.0011245	.0244004	.0858082	1079.150
#2	.0088335	-.020843	1835.256	.0022675	.0251992	.0885770	1074.324
#3	.0087981	-.019549	1845.709	.0014546	.0253006	.0987622	1075.333

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.082550	1670.756	.0327857	.0120522	2005.570	.0550132	.1152163
Stddev	.000461	7.999	.0018187	.0002318	9.022	.0015231	.0003072
%RSD	.5582525	.4787536	5.547367	1.923512	.4498525	2.768671	.2666457
#1	-.082730	1679.991	.0322229	.0122648	1997.776	.0536748	.1154129
#2	-.082026	1666.064	.0313148	.0118051	2003.482	.0566706	.1153737
#3	-.082893	1666.211	.0348193	.0120868	2015.454	.0546941	.1148623

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1268.195	.6890932	-.009166	.0062268	-.037318	.1526858	.0794976
Stddev	14.808	.0012263	.001484	.0021188	.000122	.0111469	.0100485
%RSD	1.167618	.1779629	16.19269	34.02713	.3273676	7.300515	12.64000
#1	1283.138	.6905059	-.008476	.0061599	-.037185	.1655538	.0736430
#2	1253.526	.6884700	-.010870	.0083782	-.037345	.1465040	.0737493
#3	1267.921	.6883036	-.008153	.0041422	-.037425	.1459997	.0911004

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LR1 Acquired: 1/30/2025 18:36:12 Type: Unk
Method: NON EPA-6010-200.7(v2646) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.252005	-.295011	-1.06565
Stddev	.015576	.001975	.00258
%RSD	6.180657	.6694866	.2416915
#1	-.259367	-.292944	-1.06858
#2	-.262534	-.295210	-1.06372
#3	-.234113	-.296879	-1.06466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.484	39021.07	9023.273	1307.259	2533.980
Stddev	13.439	76.26	17.831	3.086	19.990
%RSD	.6806419	.1954357	.1976070	.2360844	.7888882
#1	1980.970	38951.87	9010.275	1305.110	2545.698
#2	1983.450	39102.83	9043.600	1310.796	2545.344
#3	1959.032	39008.52	9015.943	1305.873	2510.898

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LR2 Acquired: 1/30/2025 18:41:09 Type: Unk
Method: NON EPA-6010-200.7(v2646) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077354	-.010669	248.2479	.0134884	-.003338	.2000908	^F *****
Stddev	.0018255	.001557	4.3920	.0025836	.000564	.0113208	-----
%RSD	23.59903	14.59382	1.769207	19.15414	16.88637	5.657847	-----
#1	.0062997	-.009155	243.1806	.0110286	-.003371	.2035453	^ -----
#2	.0071166	-.010588	250.6031	.0132564	-.002758	.2092821	^ -----
#3	.0097898	-.012266	250.9599	.0161801	-.003884	.1874453	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003010	-.006392	.2256431	.0138577	-.017963	231.0951	.0016558
Stddev	.000087	.000094	.0039474	.0001491	.000338	3.9922	.0069953
%RSD	2.878650	1.464302	1.749395	1.076243	1.882487	1.727518	422.4706
#1	-.003081	-.006303	.2301955	.0137094	-.017638	226.7864	-.003162
#2	-.002914	-.006383	.2231697	.0140077	-.017938	231.8305	-.001550
#3	-.003036	-.006489	.2235641	.0138561	-.018312	234.6685	.009680

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.40589	.0033724	48.93523	.0040441	.2377651	-.015313	35.23161
Stddev	.07822	.0079131	.94066	.0004230	.0100956	.000554	.52033
%RSD	.1844581	234.6412	1.922265	10.45916	4.246036	3.619767	1.476894
#1	42.36924	.0027290	47.86421	.0044989	.2486063	-.015560	35.81977
#2	42.49571	.0115877	49.31413	.0039711	.2360555	-.014678	34.83123
#3	42.35273	-.004199	49.62736	.0036624	.2286334	-.015701	35.04383

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3109805	-.003672	-.010438	-.005373	-.039159	-.003522	3.033931
Stddev	.0073760	.000997	.000611	.000837	.000269	.005210	.060306
%RSD	2.371841	27.15086	5.854736	15.58365	.6880005	147.9143	1.987702
#1	.3045603	-.003557	-.009795	-.004504	-.038918	-.009270	2.964570
#2	.3093439	-.004722	-.011012	-.006175	-.039111	-.002187	3.063278
#3	.3190373	-.002738	-.010506	-.005441	-.039450	.000890	3.073947

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: LR2 Acquired: 1/30/2025 18:41:09 Type: Unk
Method: NON EPA-6010-200.7(v2646) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0118698	-.006363	.0011047
Stddev	.0035467	.001003	.0000458
%RSD	29.87969	15.75438	4.147183
#1	.0100673	-.005654	.0011572
#2	.0095865	-.007510	.0010725
#3	.0159558	-.005926	.0010845

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.479	56174.65	10793.33	1839.738	4127.363
Stddev	48.590	282.11	61.99	13.824	72.840
%RSD	1.966043	.5022081	.5743629	.7514100	1.764796
#1	2527.006	55849.15	10836.90	1826.246	4210.599
#2	2450.689	56348.71	10820.74	1853.872	4096.207
#3	2436.743	56326.07	10722.36	1839.096	4075.283

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV08 Acquired: 1/30/2025 18:45:31 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.004112	5.057970	4.856098	5.034059	5.062716	9.705127	9.468333
Stddev	.012066	.024228	.004541	.017361	.012461	.029386	.030905
%RSD	.2411230	.4789971	.0935206	.3448707	.2461240	.3027883	.3263995
#1	5.010922	5.084592	4.852180	5.053528	5.075939	9.721951	9.503181
#2	5.011233	5.037214	4.861076	5.028461	5.061016	9.671195	9.457562
#3	4.990180	5.052103	4.855040	5.020188	5.051192	9.722234	9.444255

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2340354	2.429962	23.64202	1.010031	2.429634	1.254588	4.943057
Stddev	.0001638	.002820	.01843	.002096	.001570	.002807	.022829
%RSD	.0699686	.1160378	.0779574	.2074971	.0646027	.2237186	.4618371
#1	.2339948	2.426885	23.66150	1.012443	2.428615	1.257801	4.969416
#2	.2342156	2.432422	23.62486	1.008996	2.431442	1.253343	4.930154
#3	.2338957	2.430579	23.63970	1.008654	2.428846	1.252618	4.929602

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.310364	23.70777	2.434777	1.251768	25.57363	2.410837	2.450534
Stddev	.012682	.04941	.001542	.001840	.04265	.002828	.006473
%RSD	.5489092	.2083982	.0633177	.1469805	.1667747	.1173020	.2641587
#1	2.319893	23.67255	2.433596	1.250594	25.60656	2.412481	2.444368
#2	2.295970	23.76424	2.434215	1.250821	25.58888	2.407572	2.449959
#3	2.315229	23.68651	2.436521	1.253888	25.52545	2.412459	2.457276

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.06122	4.631368	5.038689	4.905669	4.732439	5.219033	4.859602
Stddev	.05215	.004294	.009874	.006126	.012848	.017317	.000330
%RSD	.2080982	.0927115	.1959712	.1248845	.2714881	.3318083	.0067975
#1	25.11912	4.629120	5.049096	4.905054	4.745627	5.202628	4.859270
#2	25.01793	4.628665	5.037521	4.912080	4.719961	5.237137	4.859931
#3	25.04661	4.636319	5.029451	4.899874	4.731727	5.217332	4.859604

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCV08 Acquired: 1/30/2025 18:45:31 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.849396	4.643381	4.742075
Stddev	.008112	.021580	.032310
%RSD	.1672853	.4647399	.6813380
#1	4.848099	4.662929	4.704800
#2	4.842010	4.620225	4.759348
#3	4.858078	4.646991	4.762076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2775.737	54194.74	10114.32	1833.099	4005.685
Stddev	7.535	175.93	28.02	1.840	2.879
%RSD	.2714755	.3246166	.2770392	.1003870	.0718784
#1	2767.899	54201.58	10107.81	1830.995	4004.636
#2	2776.385	54015.50	10090.13	1834.407	4003.477
#3	2782.928	54367.15	10145.02	1833.896	4008.941

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB08 Acquired: 1/30/2025 18:51:35 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem 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	-.000916	-.001130	-.000003	-.000322	-.002419	-.013416	-.002569
Stddev	.002600	.001450	.001064	.001676	.000291	.001830	.000266
%RSD	283.9491	128.2553	31074.25	520.3825	12.02686	13.64254	10.36503
#1	-.002634	-.002584	-.000366	.000735	-.002252	-.013717	-.002610
#2	-.002188	-.001123	.001194	-.002254	-.002755	-.015077	-.002812
#3	.002076	.000316	-.000838	.000553	-.002250	-.011454	-.002284

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000235	-.000263	-.023427	-.000062	-.000278	.0000633	-.017555
Stddev	.0000302	.000044	.005226	.000273	.000160	.0001943	.001820
%RSD	128.4650	16.72757	22.30899	443.3662	57.73181	306.8908	10.36448
#1	-.000011	-.000218	-.028040	-.000245	-.000448	.0001042	-.015467
#2	.000045	-.000306	-.017751	-.000192	-.000255	.0002339	-.018797
#3	.000036	-.000266	-.024490	.000252	-.000130	-.000148	-.018402

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000675	-.005974	-.000050	.0002372	.0945593	-.001790	-.003263
Stddev	.000306	.004730	.000229	.0003026	.0055433	.000909	.000144
%RSD	45.35577	79.17293	453.2984	127.5737	5.862290	50.78375	4.405633
#1	-.000402	-.002770	-.000185	-.000085	.0900337	-.002708	-.003426
#2	-.001006	-.003746	.000213	.000516	.0929019	-.001771	-.003208
#3	-.000616	-.011407	-.000179	.000280	.1007423	-.000890	-.003154

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1413407	.0035104	-.000365	-.000906	.0002592	-.002186	.0034031
Stddev	.0444130	.0001881	.000151	.000353	.0003658	.003859	.0019892
%RSD	31.42262	5.357331	41.31169	38.98646	141.1151	176.5024	58.45358
#1	.1094564	.0037261	-.000288	-.000750	.0003643	-.000722	.0031008
#2	.1224970	.0034247	-.000539	-.000658	.0005609	-.006563	.0015823
#3	.1920687	.0033805	-.000269	-.001311	-.000148	.000726	.0055262

Reviewed By:Jaswal
On:2/4/2025 1:27:49 PM
Inst Id :P4
LB :LB134493

Sample Name: CCB08 Acquired: 1/30/2025 18:51:35 Type: Unk
Method: NON EPA-6010-200.7(v2497) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005521	-.004393	-.000361
Stddev	.001871	.000877	.000003
%RSD	33.89489	19.96387	.8217766
#1	-.004299	-.003712	-.000360
#2	-.007676	-.005382	-.000360
#3	-.004589	-.004084	-.000365

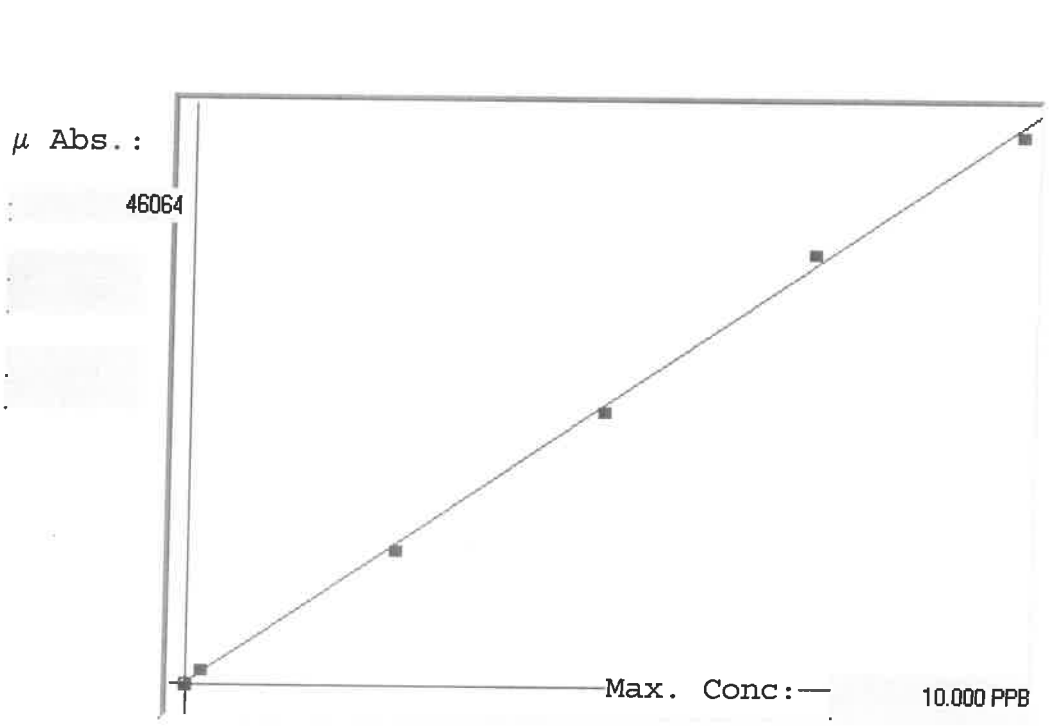
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2912.651	56075.35	10652.23	1927.212	4392.108
Stddev	14.146	341.86	72.74	9.859	19.855
%RSD	.4856706	.6096379	.6828772	.5115458	.4520560
#1	2898.981	55970.57	10576.92	1926.069	4375.510
#2	2927.229	56457.33	10722.09	1937.592	4414.103
#3	2911.742	55798.14	10657.67	1917.975	4386.710

Reviewed By:jaswal
On:1/28/2025 7:18:50 PM
Inst Id :CV1
LB :LB134437

LB134437

7471B

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.007	-0.007	52	0.000	52					
0.2	0.200	0.258	0.058	1288	0.0 %	1288					29
2.5	2.500	2.415	-0.085	11351	0.0 %	11351					-3
5.0	5.000	4.921	-0.079	23038	0.0 %	23038					-2
7.5	7.500	7.757	0.257	36268	0.0 %	36268					3
10.0	10.000	9.857	-0.143	46064	0.0 %	46064					-1

Reviewed By:jaswal
On:1/28/2025 7:18:50 PM
Inst Id :CV1
LB :LB134437

LB134437 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 27 Jan 2025 16:41:16

Sample ID	Extended ID	µ Abs	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	52	-	0.00000	7471B	PPB	27 Jan 2025 17:09:29	S	Std
0.2 - 1	50·2	1288	-	0.20000	7471B	PPB	27 Jan 2025 17:11:46	S	Std
2.5 - 1	52·5	11351	-	2.50000	7471B	PPB	27 Jan 2025 17:14:04	S	Std
5.0 - 1	55	23038	-	5.00000	7471B	PPB	27 Jan 2025 17:18:57	S	Std
7.5 - 1	57·5	36268	-	7.50000	7471B	PPB	27 Jan 2025 17:23:53	S	Std
10.0 - 1	510	46064	-	10.00000	7471B	PPB	27 Jan 2025 17:35:17	S	Std
ICV70 - 1	ICV70	18225	3.8888		-7471B	PPB	27 Jan 2025 17:42:03	U	SMPL
ICB70 - 1	ICB70	-233	-0.0682		-7471B	PPB	27 Jan 2025 17:44:18	U	SMPL
CCV74 - 1	CCV74	24468	5.2271		-7471B	PPB	27 Jan 2025 17:46:36	U	SMPL
CCB74 - 1	CCB74	-334	-0.0899		-7471B	PPB	27 Jan 2025 17:48:51	U	SMPL
CRA - 1	CRA	1266	0.2531		-7471B	PPB	27 Jan 2025 17:51:10	U	SMPL
HighStd - 1	HighStd	45773	9.7945		-7471B	PPB	27 Jan 2025 17:53:25	U	SMPL
ChkStd - 1	ChkStd	33704	7.2071		-7471B	PPB	27 Jan 2025 17:55:41	U	SMPL
PB166289BL - 1	PBS	-179	-0.0567		-7471B	PPB	27 Jan 2025 17:58:03	U	SMPL
PB166289BS - 1	LCSS	17900	3.8191		-7471B	PPB	27 Jan 2025 18:03:22	U	SMPL
Q1169-01 - 1	ARS20-0006	3230	0.6741		-7471B	PPB	27 Jan 2025 18:05:38	U	SMPL
Q1169-03 - 1	REGULATOR-BUILDING-GRAVEL	-154	-0.0513		-7471B	PPB	27 Jan 2025 18:07:57	U	SMPL
Q1169-05 - 1	SPILL-SITE	3270	0.6827		-7471B	PPB	27 Jan 2025 18:10:16	U	SMPL
Q1169-05DUP - 1	SPILL-SITEDUP	3341	0.6979		-7471B	PPB	27 Jan 2025 18:12:33	U	SMPL
Q1169-05MS - 1	SPILL-SITEMS	20710	4.4215		-7471B	PPB	27 Jan 2025 18:14:50	U	SMPL
CCV75 - 1	CCV75	24064	5.1405		-7471B	PPB	27 Jan 2025 18:17:06	U	SMPL
CCB75 - 1	CCB75	-213	-0.0640		-7471B	PPB	27 Jan 2025 18:19:24	U	SMPL
Q1169-05MSD - 1	SPILL-SITEMSD	20553	4.3878		-7471B	PPB	27 Jan 2025 18:21:42	U	SMPL
Q1170-01 - 1	OR-03-01232025	3073	0.6405		-7471B	PPB	27 Jan 2025 18:23:57	U	SMPL
Q1183-01 - 1	VNJ-237	197	0.0239		-7471B	PPB	27 Jan 2025 18:26:15	U	SMPL
Q1187-01 - 1	SP-COMP	706	0.1331		-7471B	PPB	27 Jan 2025 18:28:32	U	SMPL
Q1194-01 - 1	B-110-SB01	1779	0.3631		-7471B	PPB	27 Jan 2025 18:30:49	U	SMPL
Q1194-02 - 1	B-110-SB02	277153	59.3975		-7471B	PPB	27 Jan 2025 18:33:05	U	SMPL
Q1194-03 - 1	B-113-SB01	320	0.0503		-7471B	PPB	27 Jan 2025 18:35:22	U	SMPL
Q1194-04 - 1	B-113-SB02	1679	0.3416		-7471B	PPB	27 Jan 2025 18:38:08	U	SMPL
Q1169-05LX5 - 1		740	0.1403		-7471B	PPB	27 Jan 2025 18:42:00	U	SMPL
Q1169-05A - 1		20662	4.4112		-7471B	PPB	27 Jan 2025 18:44:15	U	SMPL
CCV76 - 1	CCV76	24054	5.1384		-7471B	PPB	27 Jan 2025 18:46:31	U	SMPL
CCB76 - 1	CCB76	-185	-0.0580		-7471B	PPB	27 Jan 2025 18:48:49	U	SMPL
Q1194-02DLX10 - 1		32074	6.8577		-7471B	PPB	27 Jan 2025 18:52:10	U	SMPL
CCV77 - 1	CCV77	24527	5.2398		-7471B	PPB	27 Jan 2025 18:54:25	U	SMPL
CCB77 - 1	CCB77	-263	-0.0747		-7471B	PPB	27 Jan 2025 18:56:45	U	SMPL

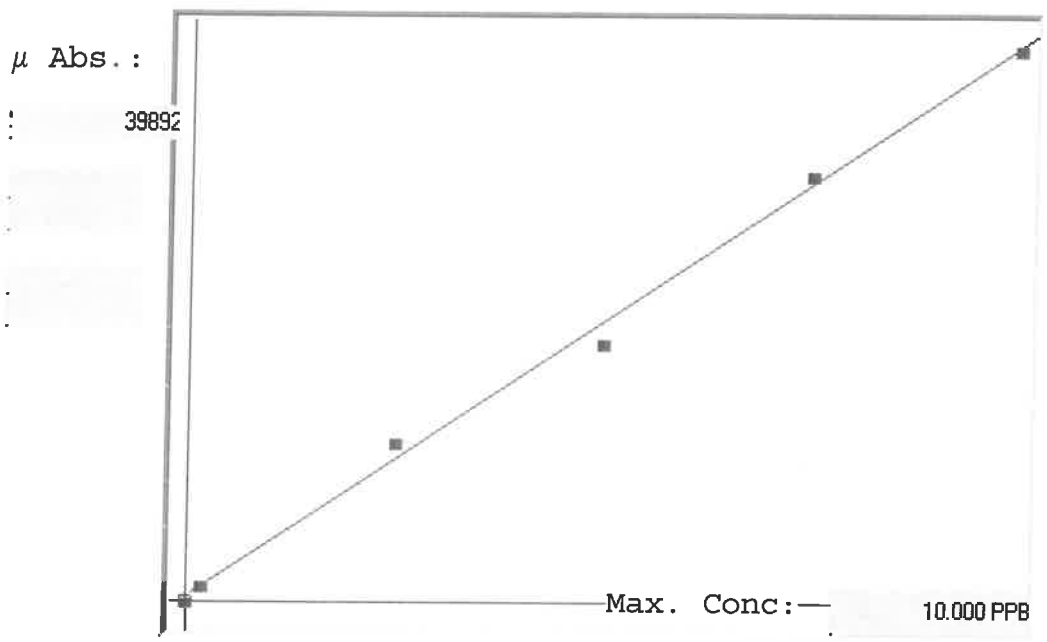
Reviewed By:jaswal
On:1/28/2025 7:18:17 PM
Inst Id :CV1
LB :LB134454

LB134454

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.5139e-004

C= -8.3090e-002

Rho= 0.9983091

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0.0	0.000	-0.065	-0.065	71	0.000	71	0			
0.2	0.200	0.196	-0.004	1112	0.0 %	1112				
2.5	2.500	2.816	0.316	11533	0.0 %	11533				
5.0	5.000	4.630	-0.370	18746	0.0 %	18746				
7.5	7.500	7.678	0.178	30871	0.0 %	30871				
10.0	10.000	9.945	-0.055	39892	0.0 %	39892				

0/0 1)
1 2 1
1 3 1
1 2 1

Reviewed By:jaswal
On:1/28/2025 7:18:17 PM
Inst Id :CV1
LB :LB134454

LB134454 INMSTUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 28 Jan 2025 11:57:36

Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	71	-	0.00000	7470A	PPB	28 Jan 2025 12:02:39	S	Std
0.2 - 1	50-2	1112	-	0.20000	7470A	PPB	28 Jan 2025 12:04:56	S	Std
2.5 - 1	52.5	11533	-	2.50000	7470A	PPB	28 Jan 2025 12:07:13	S	Std
5.0 - 1	55	18746	-	5.00000	7470A	PPB	28 Jan 2025 12:09:30	S	Std
7.5 - 1	57.5	30871	-	7.50000	7470A	PPB	28 Jan 2025 12:11:47	S	Std
10.0 - 1	510	39892	-	10.00000	7470A	PPB	28 Jan 2025 12:34:33	S	Std
ICV72 - 1	ICV72	15968	3.9311	-	7470A	PPB	28 Jan 2025 12:39:58	U	SMPL
ICB72 - 1	ICB72	300	-0.0077	-	7470A	PPB	28 Jan 2025 12:42:13	U	SMPL
CCV79 - 1	CCV79	20208	4.9970	-	7470A	PPB	28 Jan 2025 12:44:30	U	SMPL
CCB79 - 1	CCB79	237	-0.0235	-	7470A	PPB	28 Jan 2025 12:46:45	U	SMPL
CRA - 1	CRA	1105	0.1947	-	7470A	PPB	28 Jan 2025 12:49:02	U	SMPL
HighStd - 1	HighStd	39870	9.9399	-	7470A	PPB	28 Jan 2025 12:51:17	U	SMPL
ChkStd - 1	ChkStd	28134	6.9896	-	7470A	PPB	28 Jan 2025 12:53:33	U	SMPL
PB166290BL - 1	PBW	283	-0.0119	-	7470A	PPB	28 Jan 2025 12:55:50	U	SMPL
PB166290BS - 1	LCSW	18251	4.5051	-	7470A	PPB	28 Jan 2025 12:58:08	U	SMPL
Q1076-05 - 1	ARS20-0006	-3	-0.0838	-	7470A	PPB	28 Jan 2025 13:00:24	U	SMPL
Q1169-02 - 1	ARS20-0006	110	-0.0554	-	7470A	PPB	28 Jan 2025 13:02:42	U	SMPL
Q1169-04 - 1	REGULATOR-BUILDING-GRAVEL	82	-0.0625	-	7470A	PPB	28 Jan 2025 13:05:00	U	SMPL
Q1169-06 - 1	SPILL-SITE	154	-0.0444	-	7470A	PPB	28 Jan 2025 13:07:17	U	SMPL
Q1169-06DUP - 1	SPILL-SITEDUP	103	-0.0572	-	7470A	PPB	28 Jan 2025 13:09:32	U	SMPL
CCV80 - 1	CCV80	20524	5.0765	-	7470A	PPB	28 Jan 2025 13:11:48	U	SMPL
CCB80 - 1	CCB80	361	0.0077	-	7470A	PPB	28 Jan 2025 13:14:03	U	SMPL
Q1169-06MS - 1	SPILL-SITEMS	19217	4.7479	-	7470A	PPB	28 Jan 2025 13:16:20	U	SMPL
Q1169-06MSD - 1	SPILL-SITEMSD	19075	4.7122	-	7470A	PPB	28 Jan 2025 13:18:35	U	SMPL
PB166291BL - 1	PBW	44	-0.0720	-	7470A	PPB	28 Jan 2025 13:23:25	U	SMPL
PB166291BS - 1	LCSW	18283	4.5131	-	7470A	PPB	28 Jan 2025 13:27:59	U	SMPL
Q1193-01 - 1	TAPIAL3-MW04S-012425-00-T3	-90	-0.1057	-	7470A	PPB	28 Jan 2025 13:30:16	U	SMPL
Q1193-01DUP - 1	TAPIAL3-MW04S-012425-00-T3DUP	245	-0.0215	-	7470A	PPB	28 Jan 2025 13:32:33	U	SMPL
Q1193-01MS - 1	TAPIAL3-MW04S-012425-00-T3MS	18308	4.5194	-	7470A	PPB	28 Jan 2025 13:34:49	U	SMPL
Q1193-01MSD - 1	TAPIAL3-MW04S-012425-00-T3MSD	18362	4.5330	-	7470A	PPB	28 Jan 2025 13:37:07	U	SMPL
Q1193-02 - 1	TAPIAL2-MW01-012425-00-T2	-117	-0.1125	-	7470A	PPB	28 Jan 2025 13:39:25	U	SMPL
Q1194-08 - 1	EB	147	-0.0461	-	7470A	PPB	28 Jan 2025 13:41:42	U	SMPL
CCV81 - 1	CCV81	20751	5.1335	-	7470A	PPB	28 Jan 2025 13:46:41	U	SMPL
CCB81 - 1	CCB81	261	-0.0175	-	7470A	PPB	28 Jan 2025 13:48:57	U	SMPL
PB166211TB - 1	PB166211TB	107	-0.0562	-	7470A	PPB	28 Jan 2025 13:51:14	U	SMPL
Q1169-06LX5 - 1		18	-0.0786	-	7470A	PPB	28 Jan 2025 13:53:29	U	SMPL
Q1169-06A - 1		18894	4.6667	-	7470A	PPB	28 Jan 2025 13:55:45	U	SMPL
Q1193-01LX5 - 1		-80	-0.1032	-	7470A	PPB	28 Jan 2025 13:58:01	U	SMPL
Q1193-01A - 1		17404	4.2921	-	7470A	PPB	28 Jan 2025 14:00:18	U	SMPL
CCV82 - 1	CCV82	19615	4.8480	-	7470A	PPB	28 Jan 2025 14:07:14	U	SMPL
CCB82 - 1	CCB82	293	-0.0094	-	7470A	PPB	28 Jan 2025 14:09:32	U	SMPL

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166283

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 : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 01/27/2025 **Time :** 14:15 **Temp :** 96 °C

End Digest Date: 01/27/2025 **Time :** 17:20 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. # 1

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6002
LFS-2	0.25	M6011
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	M6126
1:1 HCL	5.00	MP83499
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:

HOT BLOCK#1CELL #55 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/27/25 18:20	[signature] met dress 709.	[signature]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166283

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166283BL	PBW283	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
PB166283BS	LCS283	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	10
Q1194-08MS	EBMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	13
Q1194-08MSD	EBMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	14
Q1194-08DUP	EBDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	12
Q1194-08	EB	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166283 **WorkList ID :** 187182 **Department :** Digestion **Date :** 01-27-2025 12:29:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1194-08	EB	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	N41	01/25/2025	6010D

Date/Time [redacted] 01/27/25 12:40

Raw Sample Received by: SLD.met.div

Raw Sample Relinquished by: JD CSM

Date/Time 01/27/25 13:40

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: SLD.met.div

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166298

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 01/28/2025 **Time :** 11:30 **Temp :** 96 °C

End Digest Date: 01/28/2025 **Time :** 13:35 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6002
LFS-2	1.00	M6011
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	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
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:

HOT BLOCK#2 CELL#34 TEMP:96c

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/28/25 14:35	SLD. met digestion	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166298

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166298BL	PBS298	N/A	2.32	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166298BS	LCS298	N/A	2.32	100	Colorless	Colorless	Fine	N/A	M6002,M6011	2
Q1194-01	B-110-SB01	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	3
Q1194-02	B-110-SB02	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	4
Q1194-03	B-113-SB01	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	5
Q1194-04	B-113-SB02	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	6
Q1194-04MS	B-113-SB02MS	N/A	2.13	100	Brown	Yellow	Medium	N/A	M6002,M6011	8
Q1194-04MSD	B-113-SB02MSD	N/A	2.42	100	Brown	Yellow	Medium	N/A	M6002,M6011	9
Q1194-04DUP	B-113-SB02DUP	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	7

WORKLIST(Hardcopy Internal Chain)

WorkList Name : pb166298 **WorkList ID :** 187214 **Department :** Digestion **Date :** 01-28-2025 10:53:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1194-01	B-110-SB01	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	N41	01/25/2025	6010D
Q1194-02	B-110-SB02	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	N41	01/25/2025	6010D
Q1194-03	B-113-SB01	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	N41	01/25/2025	6010D
Q1194-04	B-113-SB02	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	N41	01/25/2025	6010D

Date/Time 01/28/25 11:15

Raw Sample Received by: S/29. met. dD.

Raw Sample Relinquished by: SH

Date/Time 01/28/25 12:25

Raw Sample Received by: SH

Raw Sample Relinquished by: S/29. met. dD.

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166289

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 01/27/2025 **Time :** 13:05 **Temp :** 94 °C

End Digest Date: 01/27/2025 **Time :** 13:35 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84195
CCV	30mL	MP84197
CRA	30mL	MP84199
Blank Spike	0.48mL	MP84187
Matrix Spike	0.48mL	MP84187

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP84201
KMnO4 (5%)	4.5mL	MP83692
Hydroxylamine HCL (12%)	2.0mL	MP83694
PTFE Boiling Stones	----------	M4583
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84188
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84190
2.5 ppb	S2.5	30mL	MP84191
5.0 ppb	S5.0	30mL	MP84192
7.5 ppb	S7.5	30mL	MP84193
10.0 ppb	S10.0	30mL	MP84194
ICV	ICV	30mL	MP84195
ICB	ICB	30mL	MP84196
CCV	CCV	30mL	MP84197
CCB	CCB	30mL	MP84198
CRI	CRI	30mL	MP84199
CHK STD	CHK STD	30mL	MP84200

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
1/27/25 @ 13:50	MB - DIG. LAB	MB - Metal Lab
13:50	**Preparation Group**	**Analysis Group**

MB 01.28.25

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166289

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166289BL	PBS289	0.58	35	NA	N/A	3-1
PB166289BS	LCS289	0.50	35	NA	MP84187	2
Q1169-01	ARS20-0006	0.58	35	NA	N/A	3
Q1169-03	REGULATOR-BUILDING-GRAVEL	0.50	35	NA	N/A	4
Q1169-05	SPILL-SITE	0.54	35	NA	N/A	5
Q1169-05DUP	SPILL-SITEDUP	0.52	35	NA	N/A	6
Q1169-05MS	SPILL-SITEMS	0.56	35	NA	MP84187	7
Q1169-05MSD	SPILL-SITEMSD	0.53	35	NA	MP84187	8
Q1170-01	OR-03-01232025	0.58	35	NA	N/A	9
Q1183-01	VNJ-237	0.50	35	NA	N/A	10
Q1187-01	SP-COMP	0.54	35	NA	N/A	11
Q1194-01	B-110-SB01	0.53	35	NA	N/A	12
Q1194-02	B-110-SB02	0.56	35	NA	N/A	13
Q1194-03	B-113-SB01	0.59	35	NA	N/A	14
Q1194-04	B-113-SB02	0.56	35	NA	N/A	15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 012725_7471 **WorkList ID :** 187189 **Department :** Digestion **Date :** 01-27-2025 11:56:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1194-01	B-110-SB01	Solid	Mercury	Cool 4 deg C	PORT06	N41	01/25/2025	7471B
Q1194-02	B-110-SB02	Solid	Mercury	Cool 4 deg C	PORT06	N41	01/25/2025	7471B
Q1194-03	B-113-SB01	Solid	Mercury	Cool 4 deg C	PORT06	N41	01/25/2025	7471B
Q1194-04	B-113-SB02	Solid	Mercury	Cool 4 deg C	PORT06	N41	01/25/2025	7471B
Q1169-01	ARS20-0006	Solid	Mercury	Cool 4 deg C	PORT06	N41	01/25/2025	7471B
Q1169-03	REGULATOR-BUILDING-GRAVEL	Solid	Mercury	Cool 4 deg C	PSEG03	N51	01/23/2025	7471B
Q1169-05	SPILL-SITE	Solid	Mercury	Cool 4 deg C	PSEG03	N51	01/23/2025	7471B
Q1183-01	VNJ-237	Solid	Mercury	Cool 4 deg C	PSEG03	N51	01/23/2025	7471B
Q1187-01	SP-COMP	Solid	Mercury	Cool 4 deg C	PSEG03	N31	01/24/2025	7471B
Q1170-01	OR-03-01232025	Solid	Mercury	Cool 4 deg C	PSEG05	N41	01/23/2025	7471B

Date/Time 1/27/25 @ 13:40

Raw Sample Received by: AB - DMC

Raw Sample Relinquished by: AB - DMC

Date/Time 1/27/25 @ 13:30

Raw Sample Received by: AB - DMC

Raw Sample Relinquished by: AB - DMC

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166291

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : N/A

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 01/28/2025 **Time :** 09:25 **Temp :** 94 °C

End Digest Date: 01/28/2025 **Time :** 11:25 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84242
CCV	30mL	MP84244
CRA	30mL	MP84246
Blank Spike	0.48mL	MP84235
Matrix Spike	0.48mL	MP84235

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP83691
KMnO4 (5%)	4.5mL	MP83692
K2S2O8 (5%)	2.5mL	MP83693
Hydroxylamine HCL (12%)	2.0mL	MP83694
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84236
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84237
2.5 ppb	S2.5	30mL	MP84238
5.0 ppb	S5.0	30mL	MP84239
7.5 ppb	S7.5	30mL	MP84240
10.0 ppb	S10.0	30mL	MP84241
ICV	ICV	30mL	MP84242
ICB	ICB	30mL	MP84243
CCV	CCV	30mL	MP84244
CCB	CCB	30mL	MP84245
CRI	CRI	30mL	MP84246
CHK STD	CHK STD	30mL	MP84247

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
1/28/25 @ 11:30	[signature] Dig. Lab	[signature] Prep Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166291

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166291BL	PBW291	30	30	<2	N/A	3-11
PB166291BS	LCS291	30	30	<2	MP84235	12
Q1193-01DUP	TAPIAL3-MW04S-012425-00-T3DUP	30	30	<2	N/A	14
Q1193-01MS	TAPIAL3-MW04S-012425-00-T3MS	30	30	<2	MP84235	15
Q1193-01MSD	TAPIAL3-MW04S-012425-00-T3MSD	30	30	<2	MP84235	16
Q1193-01	TAPIAL3-MW04S-012425-00-T3	30	30	<2	N/A	13
Q1193-02	TAPIAL2-MW01-012425-00-T2	30	30	<2	N/A	17
Q1194-08	EB	30	30	<2	N/A	18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 012725_7470 **WorkList ID :** 187188 **Department :** Digestion **Date :** 01-27-2025 13:56:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1193-01	TAPIAL3-MW04S-012425-00-T:	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	N31	01/24/2025	7470A
Q1193-02	TAPIAL2-MW01-012425-00-T2	Water	Mercury	1:1 HNO3 to pH < 2	WEST04	N31	01/24/2025	7470A
Q1194-08	EB	Water	Mercury	1:1 HNO3 to pH < 2	PORT06	N41	01/25/2025	7470A

Date/Time 1/28/25 @ 9:00

Raw Sample Received by: MB - DIG LAB

Raw Sample Relinquished by: MB - DIG LAB

Date/Time 1/28/25, 9:50

Raw Sample Received by: MB - DIG LAB

Raw Sample Relinquished by: MB - DIG LAB

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 01/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:10
Out Date: 01/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134424

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1194-01	B-110-SB01	1	1.15	8.82	9.97	8.94	88.3	
Q1194-02	B-110-SB02	2	1.19	8.59	9.78	6.09	57.0	
Q1194-03	B-113-SB01	3	1.17	8.41	9.58	8.48	86.9	
Q1194-04	B-113-SB02	4	1.15	8.84	9.99	6.87	64.7	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WB 134424

WorkList Name : %1-012725 **WorkList ID :** 187156 **Department :** Wet-Chemistry **Date :** 01-27-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1194-01	B-110-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-02	B-110-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-03	B-113-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-04	B-113-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO

Date/Time 01/27/25 15:00
Raw Sample Received by: TB WDC
Raw Sample Relinquished by: CFSM

Date/Time 01/27/25 17:00
Raw Sample Received by: CFSM
Raw Sample Relinquished by: TB WDC

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134437

Review By	mohan	Review On	1/28/2025 7:16:04 PM
Supervise By	jaswal	Supervise On	1/28/2025 7:18:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP84188,MP84190,MP84191,MP84192,MP84193,MP84194
ICV Standard	MP84195
CCV Standard	MP84197
ICSA Standard	
CRI Standard	MP84199
LCS Standard	
Chk Standard	MP84196,MP84198,MP84200,MP84202

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/27/25 17:09		Mohan	OK
2	S0.2	S0.2	CAL2	01/27/25 17:11		Mohan	OK
3	S2.5	S2.5	CAL3	01/27/25 17:14		Mohan	OK
4	S5	S5	CAL4	01/27/25 17:18		Mohan	OK
5	S7.5	S7.5	CAL5	01/27/25 17:23		Mohan	OK
6	S10	S10	CAL6	01/27/25 17:35		Mohan	OK
7	ICV70	ICV70	ICV	01/27/25 17:42		Mohan	OK
8	ICB70	ICB70	ICB	01/27/25 17:44		Mohan	OK
9	CCV74	CCV74	CCV	01/27/25 17:46		Mohan	OK
10	CCB74	CCB74	CCB	01/27/25 17:48		Mohan	OK
11	CRA	CRA	CRDL	01/27/25 17:51		Mohan	OK
12	HighStd	HighStd	HIGH STD	01/27/25 17:53		Mohan	OK
13	ChkStd	ChkStd	SAM	01/27/25 17:55		Mohan	OK
14	PB166289BL	PB166289BL	MB	01/27/25 17:58		Mohan	OK
15	PB166289BS	PB166289BS	LCS	01/27/25 18:03		Mohan	OK
16	Q1169-01	ARS20-0006	SAM	01/27/25 18:05		Mohan	OK
17	Q1169-03	REGULATOR-BUILDI	SAM	01/27/25 18:07		Mohan	OK
18	Q1169-05	SPILL-SITE	SAM	01/27/25 18:10		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134437

Review By	mohan	Review On	1/28/2025 7:16:04 PM
Supervise By	jaswal	Supervise On	1/28/2025 7:18:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP84188,MP84190,MP84191,MP84192,MP84193,MP84194
ICV Standard	MP84195
CCV Standard	MP84197
ICSA Standard	
CRI Standard	MP84199
LCS Standard	
Chk Standard	MP84196,MP84198,MP84200,MP84202

19	Q1169-05DUP	SPILL-SITEDUP	DUP	01/27/25 18:12		Mohan	OK
20	Q1169-05MS	SPILL-SITEMS	MS	01/27/25 18:14		Mohan	OK
21	CCV75	CCV75	CCV	01/27/25 18:17		Mohan	OK
22	CCB75	CCB75	CCB	01/27/25 18:19		Mohan	OK
23	Q1169-05MSD	SPILL-SITEMSD	MSD	01/27/25 18:21		Mohan	OK
24	Q1170-01	OR-03-01232025	SAM	01/27/25 18:23		Mohan	OK
25	Q1183-01	VNJ-237	SAM	01/27/25 18:26		Mohan	OK
26	Q1187-01	SP-COMP	SAM	01/27/25 18:28		Mohan	OK
27	Q1194-01	B-110-SB01	SAM	01/27/25 18:30		Mohan	OK
28	Q1194-02	B-110-SB02	SAM	01/27/25 18:33	High	Mohan	Dilution
29	Q1194-03	B-113-SB01	SAM	01/27/25 18:35		Mohan	OK
30	Q1194-04	B-113-SB02	SAM	01/27/25 18:38		Mohan	OK
31	Q1169-05L	SPILL-SITEL	SD	01/27/25 18:42		Mohan	OK
32	Q1169-05A	SPILL-SITEA	PS	01/27/25 18:44		Mohan	OK
33	CCV76	CCV76	CCV	01/27/25 18:46		Mohan	OK
34	CCB76	CCB76	CCB	01/27/25 18:48		Mohan	OK
35	Q1194-02DL	B-110-SB02DL	SAM	01/27/25 18:52	Report 10X	Mohan	Confirms
36	CCV77	CCV77	CCV	01/27/25 18:54		Mohan	OK
37	CCB77	CCB77	CCB	01/27/25 18:56		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134454

Review By	mohan	Review On	1/28/2025 7:15:15 PM
Supervise By	jaswal	Supervise On	1/28/2025 7:18:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP84236,MP84237,MP84238,MP84239,MP84240,MP84241
ICV Standard	MP84242
CCV Standard	MP84244
ICSA Standard	
CRI Standard	MP84246
LCS Standard	
Chk Standard	MP84243,MP84245,MP84247,MP84249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/28/25 12:02		Mohan	OK
2	S0.2	S0.2	CAL2	01/28/25 12:04		Mohan	OK
3	S2.5	S2.5	CAL3	01/28/25 12:07		Mohan	OK
4	S5	S5	CAL4	01/28/25 12:09		Mohan	OK
5	S7.5	S7.5	CAL5	01/28/25 12:11		Mohan	OK
6	S10	S10	CAL6	01/28/25 12:34		Mohan	OK
7	ICV72	ICV72	ICV	01/28/25 12:39		Mohan	OK
8	ICB72	ICB72	ICB	01/28/25 12:42		Mohan	OK
9	CCV79	CCV79	CCV	01/28/25 12:44		Mohan	OK
10	CCB79	CCB79	CCB	01/28/25 12:46		Mohan	OK
11	CRA	CRA	CRDL	01/28/25 12:49		Mohan	OK
12	HighStd	HighStd	HIGH STD	01/28/25 12:51		Mohan	OK
13	ChkStd	ChkStd	SAM	01/28/25 12:53		Mohan	OK
14	PB166290BL	PB166290BL	MB	01/28/25 12:55		Mohan	OK
15	PB166290BS	PB166290BS	LCS	01/28/25 12:58		Mohan	OK
16	Q1076-05	ARS20-0006	SAM	01/28/25 13:00		Mohan	OK
17	Q1169-02	ARS20-0006	SAM	01/28/25 13:02		Mohan	OK
18	Q1169-04	REGULATOR-BUILDI	SAM	01/28/25 13:05		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134454

Review By	mohan	Review On	1/28/2025 7:15:15 PM
Supervise By	jaswal	Supervise On	1/28/2025 7:18:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP84236,MP84237,MP84238,MP84239,MP84240,MP84241
ICV Standard	MP84242
CCV Standard	MP84244
ICSA Standard	
CRI Standard	MP84246
LCS Standard	
Chk Standard	MP84243,MP84245,MP84247,MP84249

19	Q1169-06	SPILL-SITE	SAM	01/28/25 13:07		Mohan	OK
20	Q1169-06DUP	SPILL-SITEDUP	DUP	01/28/25 13:09		Mohan	OK
21	CCV80	CCV80	CCV	01/28/25 13:11		Mohan	OK
22	CCB80	CCB80	CCB	01/28/25 13:14		Mohan	OK
23	Q1169-06MS	SPILL-SITEMS	MS	01/28/25 13:16		Mohan	OK
24	Q1169-06MSD	SPILL-SITEMSD	MSD	01/28/25 13:18		Mohan	OK
25	PB166291BL	PB166291BL	MB	01/28/25 13:23		Mohan	OK
26	PB166291BS	PB166291BS	LCS	01/28/25 13:27		Mohan	OK
27	Q1193-01	TAPIAL3-MW04S-012	SAM	01/28/25 13:30		Mohan	OK
28	Q1193-01DUP	TAPIAL3-MW04S-012	DUP	01/28/25 13:32		Mohan	OK
29	Q1193-01MS	TAPIAL3-MW04S-012	MS	01/28/25 13:34		Mohan	OK
30	Q1193-01MSD	TAPIAL3-MW04S-012	MSD	01/28/25 13:37		Mohan	OK
31	Q1193-02	TAPIAL2-MW01-0124	SAM	01/28/25 13:39		Mohan	OK
32	Q1194-08	EB	SAM	01/28/25 13:41		Mohan	OK
33	CCV81	CCV81	CCV	01/28/25 13:46		Mohan	OK
34	CCB81	CCB81	CCB	01/28/25 13:48		Mohan	OK
35	PB166211TB	PB166211TB	MB	01/28/25 13:51		Mohan	OK
36	Q1169-06L	SPILL-SITEL	SD	01/28/25 13:53		Mohan	OK
37	Q1169-06A	SPILL-SITEA	PS	01/28/25 13:55		Mohan	OK
38	Q1193-01L	TAPIAL3-MW04S-012	SD	01/28/25 13:58		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134454

Review By	mohan	Review On	1/28/2025 7:15:15 PM
Supervise By	jaswal	Supervise On	1/28/2025 7:18:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP84236,MP84237,MP84238,MP84239,MP84240,MP84241
ICV Standard	MP84242
CCV Standard	MP84244
ICSA Standard	
CRI Standard	MP84246
LCS Standard	
Chk Standard	MP84243,MP84245,MP84247,MP84249

39	Q1193-01A	TAPIAL3-MW04S-012	PS	01/28/25 14:00		Mohan	OK
40	CCV82	CCV82	CCV	01/28/25 14:07		Mohan	OK
41	CCB82	CCB82	CCB	01/28/25 14:09		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134457

Review By	kareem	Review On	1/29/2025 10:07:06 AM
Supervise By	Jaswal	Supervise On	1/30/2025 7:27:36 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	MP84211
Chk Standard	MP84218,MP84219

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/28/25 11:25		Kareem	OK
2	S1	S1	CAL2	01/28/25 11:30		Kareem	OK
3	S2	S2	CAL3	01/28/25 11:34		Kareem	OK
4	S3	S3	CAL4	01/28/25 11:38		Kareem	OK
5	S4	S4	CAL5	01/28/25 11:43		Kareem	OK
6	S5	S5	CAL6	01/28/25 11:47		Kareem	OK
7	ICV01	ICV01	ICV	01/28/25 12:03		Kareem	OK
8	LLICV01	LLICV01	LLICV	01/28/25 12:08		Kareem	OK
9	ICB01	ICB01	ICB	01/28/25 12:21		Kareem	OK
10	CRI01	CRI01	CRDL	01/28/25 12:26		Kareem	OK
11	ICSA01	ICSA01	ICSA	01/28/25 12:30		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	01/28/25 12:34		Kareem	OK
13	CCV01	CCV01	CCV	01/28/25 12:39		Kareem	OK
14	CCB01	CCB01	CCB	01/28/25 12:43		Kareem	OK
15	Q1076-05	ARS20-0006	SAM	01/28/25 12:52		Kareem	OK
16	Q1169-02	ARS20-0006	SAM	01/28/25 12:56		Kareem	OK
17	Q1169-04	REGULATOR-BUILDI	SAM	01/28/25 13:00		Kareem	OK
18	Q1169-06	SPILL-SITE	SAM	01/28/25 13:05		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134457

Review By	kareem	Review On	1/29/2025 10:07:06 AM
Supervise By	Jaswal	Supervise On	1/30/2025 7:27:36 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	MP84211
Chk Standard	MP84218,MP84219

19	Q1169-01	ARS20-0006	SAM	01/28/25 13:09		Kareem	OK
20	Q1169-03	REGULATOR-BUILDI	SAM	01/28/25 13:13		Kareem	OK
21	Q1169-05	SPILL-SITE	SAM	01/28/25 13:17		Kareem	OK
22	Q1194-08	EB	SAM	01/28/25 13:22		Kareem	OK
23	Q1194-08DUP	EBDUP	DUP	01/28/25 13:26		Kareem	OK
24	Q1194-08L	EBL	SD	01/28/25 13:30		Kareem	OK
25	CCV02	CCV02	CCV	01/28/25 13:42		Kareem	OK
26	CCB02	CCB02	CCB	01/28/25 13:46		Kareem	OK
27	Q1194-08MS	EBMS	MS	01/28/25 13:51		Kareem	OK
28	Q1194-08MSD	EBMSD	MSD	01/28/25 13:55		Kareem	OK
29	Q1194-08A	EBA	PS	01/28/25 13:59		Kareem	OK
30	PB166283BL	PB166283BL	MB	01/28/25 14:03		Kareem	OK
31	PB166283BS	PB166283BS	LCS	01/28/25 14:07	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
32	Q1169-06DUP	SPILL-SITEDUP	DUP	01/28/25 14:11		Kareem	OK
33	Q1169-06L	SPILL-SITEL	SD	01/28/25 14:16		Kareem	OK
34	Q1169-06MS	SPILL-SITEMS	MS	01/28/25 14:20	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
35	Q1169-06MSD	SPILL-SITEMSD	MSD	01/28/25 14:24	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134457

Review By	kareem	Review On	1/29/2025 10:07:06 AM
Supervise By	Jaswal	Supervise On	1/30/2025 7:27:36 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	MP84211
Chk Standard	MP84218,MP84219

36	Q1169-06A	SPILL-SITEA	PS	01/28/25 14:28	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
37	CCV03	CCV03	CCV	01/28/25 14:33		Kareem	OK
38	CCB03	CCB03	CCB	01/28/25 14:37		Kareem	OK
39	PB166211TB	PB166211TB	MB	01/28/25 14:41		Kareem	OK
40	PB166266BL	PB166266BL	MB	01/28/25 14:46		Kareem	OK
41	PB166266BS	PB166266BS	LCS	01/28/25 14:50	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
42	Q1169-05DUP	SPILL-SITEDUP	DUP	01/28/25 14:54		Kareem	OK
43	Q1169-05L	SPILL-SITEL	SD	01/28/25 14:58		Kareem	OK
44	Q1169-05MS	SPILL-SITEMS	MS	01/28/25 15:02	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
45	Q1169-05MSD	SPILL-SITEMSD	MSD	01/28/25 15:06	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
46	Q1169-05A	SPILL-SITEA	PS	01/28/25 15:10	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
47	PB166268BL	PB166268BL	MB	01/28/25 15:14		Kareem	OK
48	PB166268BS	PB166268BS	LCS	01/28/25 15:19	0.1 ml of M6010 and M6001 were added to 10 ml of the sample	Kareem	OK
49	CCV04	CCV04	CCV	01/28/25 15:32		Kareem	OK
50	CCB04	CCB04	CCB	01/28/25 15:36		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134457

Review By	kareem	Review On	1/29/2025 10:07:06 AM
Supervise By	Jaswal	Supervise On	1/30/2025 7:27:36 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	MP84211
Chk Standard	MP84218,MP84219

51	LR1	LR1	HIGH STD	01/28/25 15:42		Kareem	OK
52	LR2	LR2	HIGH STD	01/28/25 15:47		Kareem	OK
53	CCV05	CCV05	CCV	01/28/25 15:52		Kareem	OK
54	CCB05	CCB05	CCB	01/28/25 15:56		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134477

Review By	kareem	Review On	1/30/2025 3:39:41 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:33 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/29/25 10:51		Kareem	OK
2	S1	S1	CAL2	01/29/25 10:55		Kareem	OK
3	S2	S2	CAL3	01/29/25 10:59		Kareem	OK
4	S3	S3	CAL4	01/29/25 11:03		Kareem	OK
5	S4	S4	CAL5	01/29/25 11:08		Kareem	OK
6	S5	S5	CAL6	01/29/25 11:12		Kareem	OK
7	ICV01	ICV01	ICV	01/29/25 11:16		Kareem	OK
8	LLICV01	LLICV01	LLICV	01/29/25 11:32		Kareem	OK
9	ICB01	ICB01	ICB	01/29/25 11:37		Kareem	OK
10	CRI01	CRI01	CRDL	01/29/25 11:41		Kareem	OK
11	ICSA01	ICSA01	ICSA	01/29/25 11:45		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	01/29/25 12:02		Kareem	OK
13	CCV01	CCV01	CCV	01/29/25 12:06		Kareem	OK
14	CCB01	CCB01	CCB	01/29/25 12:10		Kareem	OK
15	Q1194-01	B-110-SB01	SAM	01/29/25 12:15		Kareem	OK
16	Q1194-02	B-110-SB02	SAM	01/29/25 12:19		Kareem	OK
17	Q1194-03	B-113-SB01	SAM	01/29/25 12:23		Kareem	OK
18	Q1194-04	B-113-SB02	SAM	01/29/25 12:27	MS/MSD fail for 50% parameters	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134477

Review By	kareem	Review On	1/30/2025 3:39:41 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:33 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

19	Q1194-04DUP	B-113-SB02DUP	DUP	01/29/25 12:31	MS/MSD fail for 50% parameters	Kareem	Not Ok
20	Q1194-04L	B-113-SB02L	SD	01/29/25 12:35	MS/MSD fail for 50% parameters	Kareem	Not Ok
21	Q1194-04MS	B-113-SB02MS	MS	01/29/25 12:40	MS/MSD fail for 50% parameters	Kareem	Not Ok
22	Q1194-04MSD	B-113-SB02MSD	MSD	01/29/25 12:44	MS/MSD fail for 50% parameters	Kareem	Not Ok
23	Q1194-04A	B-113-SB02A	PS	01/29/25 12:48	MS/MSD fail for 50% parameters	Kareem	Not Ok
24	PB166298BL	PB166298BL	MB	01/29/25 13:01		Kareem	OK
25	CCV02	CCV02	CCV	01/29/25 13:12		Kareem	OK
26	CCB02	CCB02	CCB	01/29/25 13:16		Kareem	OK
27	PB166298BS	PB166298BS	LCS	01/29/25 13:20	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
28	Q1205-01	VNJ-236	SAM	01/29/25 13:24		Kareem	OK
29	Q1209-01	WC-4	SAM	01/29/25 13:28		Kareem	OK
30	Q1209-05	WC-5	SAM	01/29/25 13:32		Kareem	OK
31	Q1209-05DUP	WC-5DUP	DUP	01/29/25 13:37		Kareem	OK
32	Q1209-05L	WC-5L	SD	01/29/25 13:41		Kareem	OK
33	Q1209-05MS	WC-5MS	MS	01/29/25 13:45	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
34	Q1209-05MSD	WC-5MSD	MSD	01/29/25 13:49	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134477

Review By	kareem	Review On	1/30/2025 3:39:41 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:33 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

35	Q1209-05A	WC-5A	PS	01/29/25 13:53	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
36	PB166322BL	PB166322BL	MB	01/29/25 13:57		Kareem	OK
37	CCV03	CCV03	CCV	01/29/25 14:01		Kareem	OK
38	CCB03	CCB03	CCB	01/29/25 14:06		Kareem	OK
39	PB166322BS	PB166322BS	LCS	01/29/25 14:10	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
40	LR1	LR1	HIGH STD	01/29/25 14:14		Kareem	OK
41	LR2	LR2	HIGH STD	01/29/25 14:19		Kareem	OK
42	CCV04	CCV04	CCV	01/29/25 14:24		Kareem	OK
43	CCB04	CCB04	CCB	01/29/25 14:28		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134493

Review By	kareem	Review On	1/31/2025 12:05:06 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/30/25 11:07		Kareem	OK
2	S1	S1	CAL2	01/30/25 11:12		Kareem	OK
3	S2	S2	CAL3	01/30/25 11:16		Kareem	OK
4	S3	S3	CAL4	01/30/25 11:20		Kareem	OK
5	S4	S4	CAL5	01/30/25 11:25		Kareem	OK
6	S5	S5	CAL6	01/30/25 11:29		Kareem	OK
7	ICV01	ICV01	ICV	01/30/25 11:49	ICV fail for Al,Ba,Be,Ca,Mg,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	01/30/25 11:56		Kareem	OK
9	ICB01	ICB01	ICB	01/30/25 12:00		Kareem	OK
10	CRI01	CRI01	CRDL	01/30/25 12:05		Kareem	OK
11	ICSA01	ICSA01	ICSA	01/30/25 12:10		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	01/30/25 12:28		Kareem	OK
13	ICSADL	ICSADL	ICSA	01/30/25 12:33		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	01/30/25 12:37		Kareem	OK
15	CCV01	CCV01	CCV	01/30/25 12:41		Kareem	OK
16	CCB01	CCB01	CCB	01/30/25 12:47		Kareem	OK
17	Q1152-01	EFFLUENT-DAY-1-MI	SAM	01/30/25 12:51		Kareem	OK
18	Q1152-01DUP	EFFLUENT-DAY-1-MI	DUP	01/30/25 12:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134493

Review By	kareem	Review On	1/31/2025 12:05:06 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

19	Q1152-01L	EFFLUENT-DAY-1-MI	SD	01/30/25 13:00		Kareem	OK
20	Q1152-01MS	EFFLUENT-DAY-1-MI	MS	01/30/25 13:04		Kareem	OK
21	Q1152-01MSD	EFFLUENT-DAY-1-MI	MSD	01/30/25 13:08		Kareem	OK
22	Q1152-01A	EFFLUENT-DAY-1-MI	PS	01/30/25 13:12		Kareem	OK
23	PB166190BL	PB166190BL	MB	01/30/25 13:16		Kareem	OK
24	PB166190BS	PB166190BS	LCS	01/30/25 13:20		Kareem	OK
25	Q1205-02	VNJ-236	SAM	01/30/25 13:24		Kareem	OK
26	Q1206-04	JPP-20.1-012725	SAM	01/30/25 13:29		Kareem	OK
27	CCV02	CCV02	CCV	01/30/25 13:33		Kareem	OK
28	CCB02	CCB02	CCB	01/30/25 13:37		Kareem	OK
29	Q1206-08	JPP-16.3-012725	SAM	01/30/25 13:41		Kareem	OK
30	Q1207-04	JPP-2.1-012725	SAM	01/30/25 13:46		Kareem	OK
31	Q1207-08	JPP-5.1-012725	SAM	01/30/25 13:50		Kareem	OK
32	Q1207-12	JPP-4.5-012725	SAM	01/30/25 13:55		Kareem	OK
33	Q1207-16	JPP-16.2-012725	SAM	01/30/25 13:59		Kareem	OK
34	Q1207-20	JPP-20.2-012725	SAM	01/30/25 14:03		Kareem	OK
35	Q1209-04	WC-4	SAM	01/30/25 14:08		Kareem	OK
36	Q1209-08	WC-5	SAM	01/30/25 14:12		Kareem	OK
37	Q1209-08DUP	WC-5DUP	DUP	01/30/25 14:17		Kareem	OK
38	Q1209-08L	WC-5L	SD	01/30/25 14:21		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134493

Review By	kareem	Review On	1/31/2025 12:05:06 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

39	CCV03	CCV03	CCV	01/30/25 14:34		Kareem	OK
40	CCB03	CCB03	CCB	01/30/25 14:38		Kareem	OK
41	Q1209-08MS	WC-5MS	MS	01/30/25 14:43	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
42	Q1209-08MSD	WC-5MSD	MSD	01/30/25 14:47	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
43	Q1209-08A	WC-5A	PS	01/30/25 14:51	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
44	PB166318TB	PB166318TB	MB	01/30/25 14:55		Kareem	OK
45	PB166342BL	PB166342BL	MB	01/30/25 15:00		Kareem	OK
46	PB166342BS	PB166342BS	LCS	01/30/25 15:04	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
47	Q1206-03	JPP-20.1-012725	SAM	01/30/25 15:08		Kareem	OK
48	Q1206-07	JPP-16.3-012725	SAM	01/30/25 15:12		Kareem	OK
49	Q1207-03	JPP-2.1-012725	SAM	01/30/25 15:16		Kareem	OK
50	Q1207-03DUP	JPP-2.1-012725DUP	DUP	01/30/25 15:21		Kareem	OK
51	CCV04	CCV04	CCV	01/30/25 15:25		Kareem	OK
52	CCB04	CCB04	CCB	01/30/25 15:29		Kareem	OK
53	Q1207-03L	JPP-2.1-012725L	SD	01/30/25 15:33		Kareem	OK
54	Q1207-03MS	JPP-2.1-012725MS	MS	01/30/25 15:38	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134493

Review By	kareem	Review On	1/31/2025 12:05:06 PM
Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

55	Q1207-03MSD	JPP-2.1-012725MSD	MSD	01/30/25 15:42	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
56	Q1207-03A	JPP-2.1-012725A	PS	01/30/25 15:46	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
57	Q1207-07	JPP-5.1-012725	SAM	01/30/25 15:50		Kareem	OK
58	Q1207-11	JPP-4.5-012725	SAM	01/30/25 15:54		Kareem	OK
59	Q1207-15	JPP-16.2-012725	SAM	01/30/25 15:58		Kareem	OK
60	Q1207-19	JPP-20.2-012725	SAM	01/30/25 16:03		Kareem	OK
61	PB166330BL	PB166330BL	MB	01/30/25 16:07		Kareem	OK
62	PB166330BS	PB166330BS	LCS	01/30/25 16:11		Kareem	OK
63	CCV05	CCV05	CCV	01/30/25 16:24		Kareem	OK
64	CCB05	CCB05	CCB	01/30/25 16:28		Kareem	OK
65	PB166376BL	PB166376BL	MB	01/30/25 16:32		Kareem	OK
66	PB166376BS	PB166376BS	LCS	01/30/25 16:37	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
67	Q1216-03	JPP-18.1-012825	SAM	01/30/25 16:41		Kareem	OK
68	Q1216-07	JPP-21.1-012825	SAM	01/30/25 16:45		Kareem	OK
69	Q1216-11	JPP-21.2-012825	SAM	01/30/25 16:49		Kareem	OK
70	Q1216-15	JPP-26.1-012825	SAM	01/30/25 16:54		Kareem	OK
71	Q1216-19	JPP-26.2-012825	SAM	01/30/25 16:58		Kareem	OK

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Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

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CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

72	Q1218-01	BELL-25-002	SAM	01/30/25 17:02		Kareem	OK
73	Q1219-01	LAW-25-0015	SAM	01/30/25 17:06		Kareem	OK
74	Q1220-01	TR-06-01292025	SAM	01/30/25 17:11		Kareem	OK
75	CCV06	CCV06	CCV	01/30/25 17:19		Kareem	OK
76	CCB06	CCB06	CCB	01/30/25 17:24		Kareem	OK
77	Q1221-01	CHESTNUT-CONCRE	SAM	01/30/25 17:28		Kareem	OK
78	Q1221-01DUP	CHESTNUT-CONCRE	DUP	01/30/25 17:33		Kareem	OK
79	Q1221-01L	CHESTNUT-CONCRE	SD	01/30/25 17:37		Kareem	OK
80	Q1221-01MS	CHESTNUT-CONCRE	MS	01/30/25 17:41	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
81	Q1221-01MSD	CHESTNUT-CONCRE	MSD	01/30/25 17:46	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
82	Q1221-01A	CHESTNUT-CONCRE	PS	01/30/25 17:50	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
83	Q1215-03	JPP-29.1-012825	SAM	01/30/25 17:54		Kareem	OK
84	Q1215-07	JPP-29.2-012825	SAM	01/30/25 17:58		Kareem	OK
85	Q1194-04	B-113-SB02	SAM	01/30/25 18:03		Kareem	OK
86	Q1194-04DUP	B-113-SB02DUP	DUP	01/30/25 18:07		Kareem	OK
87	CCV07	CCV07	CCV	01/30/25 18:11		Kareem	OK
88	CCB07	CCB07	CCB	01/30/25 18:15		Kareem	OK

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Instrument ID: P4

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Supervise By	Jaswal	Supervise On	2/4/2025 1:27:49 PM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84223,MP84224,MP84225,MP84226,MP84228
ICV Standard	MP84229
CCV Standard	MP84232
ICSA Standard	MP84230,MP84231
CRI Standard	MP84228
LCS Standard	
Chk Standard	MP84218,MP84219

89	Q1194-04L	B-113-SB02L	SD	01/30/25 18:19		Kareem	OK
90	Q1194-04MS	B-113-SB02MS	MS	01/30/25 18:24	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
91	Q1194-04MSD	B-113-SB02MSD	MSD	01/30/25 18:28	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
92	Q1194-04A	B-113-SB02A	PS	01/30/25 18:32	0.1 ML M6010 and M6001 were added to 10 ML of sample	Kareem	OK
93	LR1	LR1	HIGH STD	01/30/25 18:36		Kareem	OK
94	LR2	LR2	HIGH STD	01/30/25 18:41		Kareem	OK
95	CCV08	CCV08	CCV	01/30/25 18:45		Kareem	OK
96	CCB08	CCB08	CCB	01/30/25 18:51		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1194

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB166283,PB166289,PB166291,PB166298,

Sequence ID/Qc Batch ID: LB134437,LB134454,LB134457,LB134477,LB134493,

Standard ID :

MP83499,MP83691,MP83692,MP83693,MP83694,MP84041,MP84187,MP84188,MP84190,MP84191,MP84192,MP84193,MP84194,MP84195,MP84196,MP84197,MP84198,MP84199,MP84200,MP84201,MP84202,MP84204,MP84211,MP84218,MP84219,MP84223,MP84224,MP84225,MP84226,MP84227,MP84228,MP84229,MP84230,MP84231,MP84232,MP84235,MP84236,MP84237,MP84238,MP84239,MP84240,MP84241,MP84242,MP84243,MP84244,MP84245,MP84246,MP84247,MP84249,

Chemical ID :

M4371,M4465,M4583,M4884,M4916,M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5298,M5393,M5429,M5467,M5472,M5476,M5496,M5497,M5519,M5532,M5585,M5658,M5697,M5747,M5748,M5789,M5792,M5798,M5799,M5800,M5801,M5802,M5814,M5815,M5816,M5817,M5819,M5820,M5875,M5882,M5884,M5959,M5961,M5962,M5970,M5977,M5978,M5985,M6002,M6011,M6021,M6023,M6025,M6028,M6030,M6032,M6041,M6077,M6121,M6125,M6126,M6127,M6128,M6144,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83499	12/09/2024	01/30/2025	Eman Mughal	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP83691	12/18/2024	06/03/2025	Mohan Bera	None	None	Sarabjit Jaswal 12/18/2024

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP83692	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP83693	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = 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
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP83694	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84187	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = 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	MP84188	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = 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	MP84190	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84187 = 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	MP84191	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84187 = 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	MP84192	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84187 = 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	MP84193	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84187 = 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	MP84194	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84187 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84195	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = 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)	MP84196	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = 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)	MP84197	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84187 = 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)	MP84198	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = 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)	MP84199	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84187 = 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)	MP84200	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP84187 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP84201	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 150.00000ml of M6121 + 50.00000ml of M6126 = 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
68	STANNOUS CHLORIDE SOLUTION	MP84202	01/27/2025	01/28/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/27/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP84204	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = 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
994	ICPAES ISM01.2 S1 (CONC.)	MP84211	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5977 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M6127 + 10.00000ml of M6144 + 2.00000ml of M5978 + 4.00000ml of M6032 + 34.24000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP84218	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = 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
903	ICP AES RINSE SOLN	MP84219	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP84223	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 5.00000ml of M5393 + 5.00000ml of M5467 + 5.00000ml of M5472 + 5.00000ml of M5802 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M6077 + 455.00000ml of MP84204 = 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	MP84224	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 50.00000ml of MP84204 + 50.00000ml of MP84223 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP84225	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 25.00000ml of MP84223 + 75.00000ml of MP84204 = 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
3913	ICP AES STD S2	MP84226	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 16.00000ml of MP84223 + 184.00000ml of MP84204 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP84227	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 0.00200ml of M5816 + 0.00400ml of M5978 + 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5298 + 0.05000ml of M5496 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.06000ml of M5747 + 0.10000ml of M5472 + 0.10000ml of M5697 + 0.10000ml of M5801 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5497 + 1.00000ml of M6127 + 1.00000ml of M6144 + 2.00000ml of M4884 + 77.68000ml of MP84204 = 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	MP84228	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.00000ml of MP84227 + 98.00000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP84229	01/24/2025	02/05/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5467 + 0.25000ml of M5218 + 0.25000ml of M5472 + 10.00000ml of M5295 + 89.77500ml of MP84204 = 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
904	ICP AES ICSA SOLN	MP84230	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 25.00000ml of M5130 + 225.00000ml of MP84204 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP84231	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5472 + 0.10000ml of M5970 + 0.10000ml of M6077 + 10.00000ml of M5130 + 10.00000ml of M5223 + 79.50000ml of MP84204 = 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
911	ICP AES CCV SOLN	MP84232	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/28/2025

FROM 50.00000ml of MP84204 + 50.00000ml of MP84223 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84235	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = 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
1340	Hg 0.00 PPB STD	MP84236	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 247.50000ml of W3112 = 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	MP84237	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 247.30000ml of W3112 + 0.20000ml of MP84235 = 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	MP84238	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 245.00000ml of W3112 + 2.50000ml of MP84235 = 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	MP84239	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 242.50000ml of W3112 + 5.00000ml of MP84235 = 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	MP84240	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 240.00000ml of W3112 + 7.50000ml of MP84235 = 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	MP84241	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 237.50000ml of W3112 + 10.00000ml of MP84235 = 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	MP84242	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = 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)	MP84243	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 247.50000ml of W3112 = 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)	MP84244	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 485.00000ml of W3112 + 5.00000ml of M5789 + 10.00000ml of MP84235 = 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)	MP84245	01/28/2025	01/29/2025	Mohan Bera	None	None	Sarabjit Jaswal 01/28/2025

FROM 495.00000ml of W3112 + 5.00000ml of M5789 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP84246	01/28/2025	01/29/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 247.30000ml of W3112 + 0.20000ml of MP84235 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP84247	01/28/2025	01/29/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/28/2025

FROM 2.50000ml of M5789 + 240.50000ml of W3112 + 7.00000ml of MP84235 = 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
68	STANNOUS CHLORIDE SOLUTION	MP84249	01/28/2025	01/29/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 01/28/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M5792 = Final Quantity: 500.000 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	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

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 #
Labpure	0919120 / Boiling Stones	26275770	07/07/2025	07/03/2020 / mohan	05/07/2020 / mohan	M4583

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	03/09/2025	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 #
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 #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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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	01/31/2025	05/20/2024 /	04/20/2021 / bin	M5130

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 #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	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	01/31/2025	05/20/2024 /	04/20/2021 / bin	M5223

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	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

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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 #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

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.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

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	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 /	03/16/2023 / jaswal	M5476

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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.	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	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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	02/28/2025	01/02/2025 /	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	02/28/2025	01/20/2024 /	06/12/2023 / jaswal	M5585

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

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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.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

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-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	07/30/2025	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	08/05/2025	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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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	05/31/2024 / 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 #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

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	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

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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	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

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	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

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	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

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	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

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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)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

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	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

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	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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	07/14/2025	01/14/2025 / Eman	05/14/2024 / Jaswal	M6002

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	U2-MEB731108	07/14/2025	01/14/2025 / Eman	05/14/2024 / Jaswal	M6011

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	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

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	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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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	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

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	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

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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-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

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)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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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	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

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 – 0120633

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	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - 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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

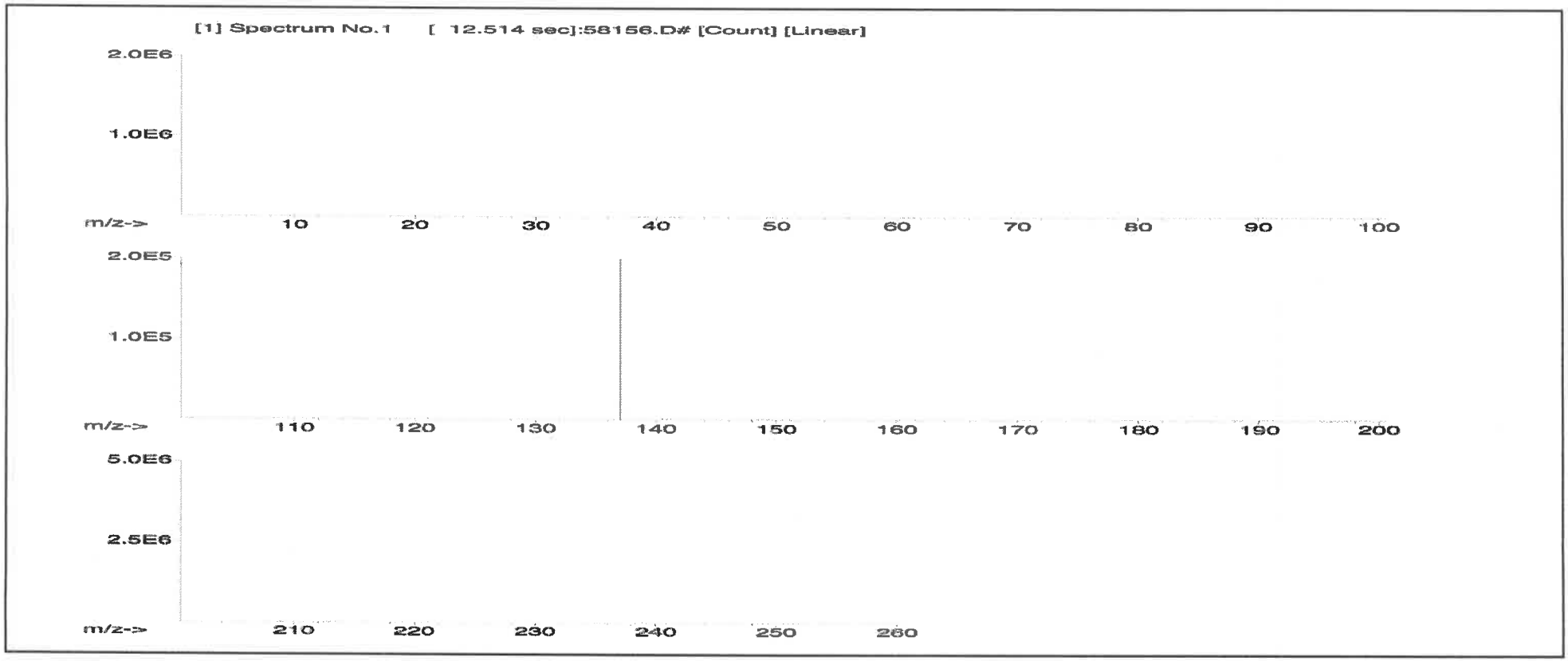
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
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	010924
Reviewed By:	Pedro L. Rentas	010924

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	3.82441	**1000.1**	**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:

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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800-368-1131
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Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

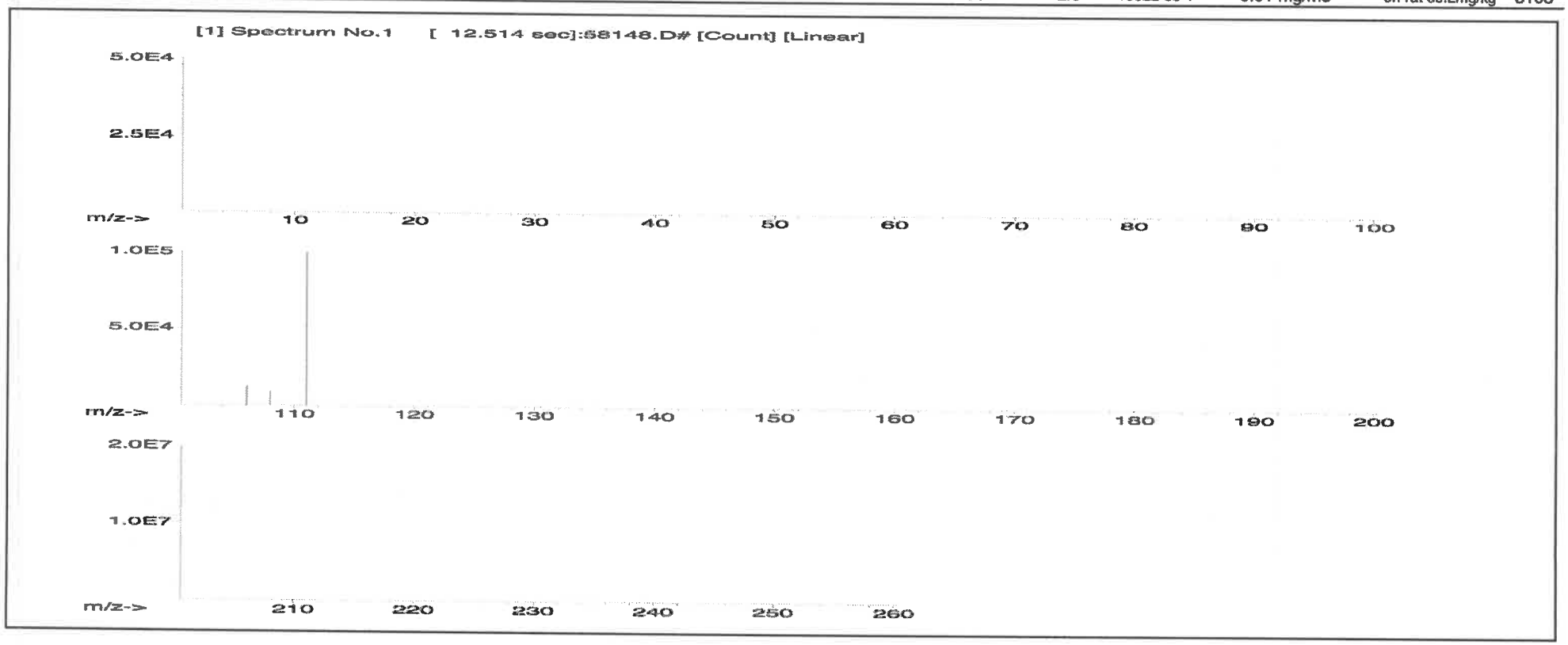
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
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):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

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. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (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:

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).

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:	CLPP-CAL-1
Lot Number:	T2-MEB714417
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 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 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 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 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	ICP Assay	3113	190630
Co	EDTA	928	928
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	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**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

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

January 27, 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 27, 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

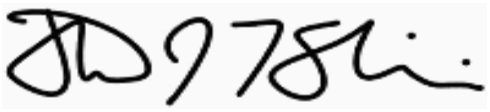
- Sealed TCT Bag Open Date: _____

- 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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inorganicventures.com

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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:	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

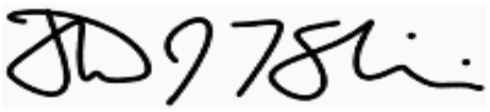
- Sealed TCT Bag Open Date: _____

- 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 8/15/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

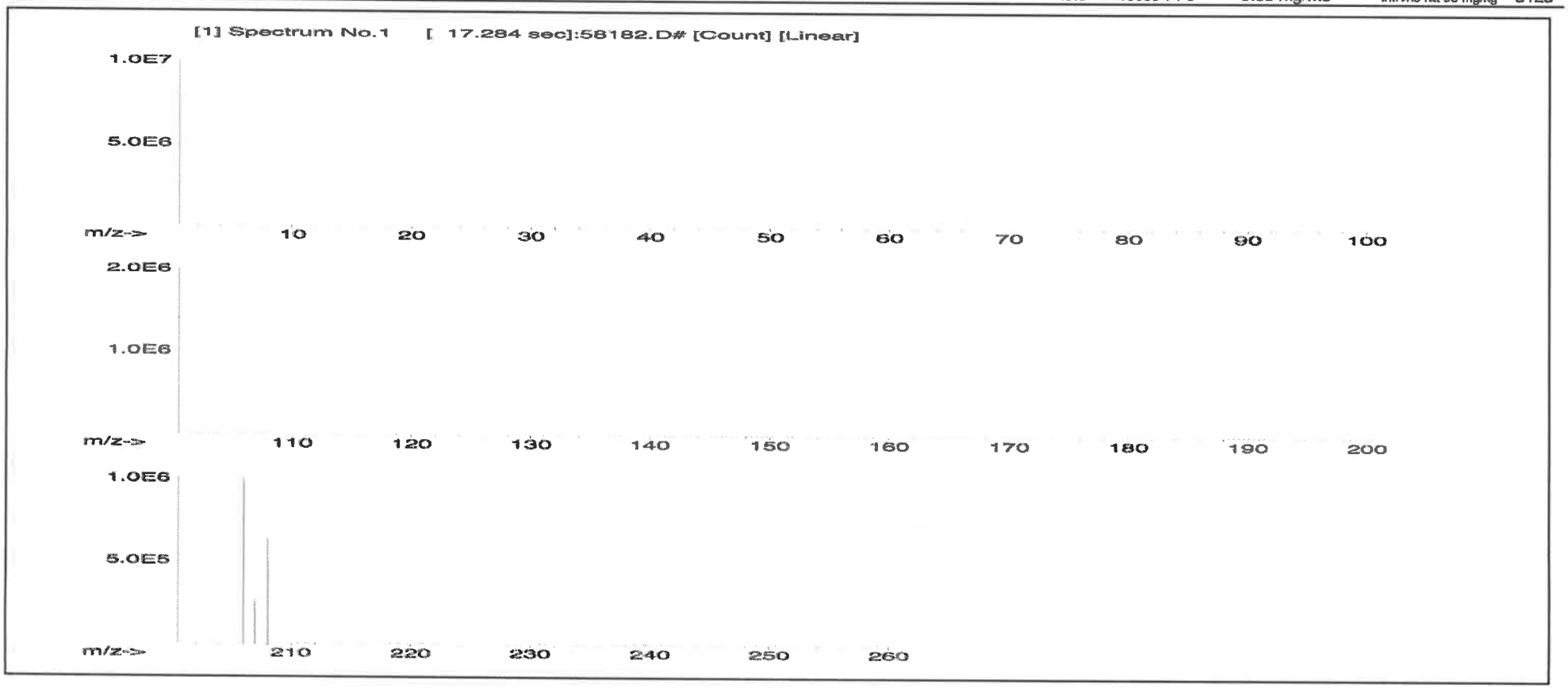
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

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. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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	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.
* 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).

INORGANIC VENTURES™

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Certificate of Analysis

RD:05/14/2024

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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 °C)

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

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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

RD:05/14/2024

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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
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	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	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 (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

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

March 17, 2023

- 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

- March 17, 2028

- 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



M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

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

M45 P3
Expd Dt. 5 7 24
MB

SAINT-GOBAIN

Manufacturer:
Saint-Gobain Performance Plastics
11 Sicho Drive
Poestenkill, NY 12140

Certificate of Conformance

Part Number/ Revision:	D1069103 0	**Customer Part Number/ Revision:**	1069103 N/A
Description:	*PTFE BOILING STONES-450 GRAMS		
Lot Number:	26275770	**Lot Quantity:**	10 EA
Date of Manufacture (MM/DD/YY)	03/23/20	**Expiration Date: (MM/DD/YY)**	N/A
Post Processing Run Number: (Refer to the attached Certificate for Additional Detail)		N/A	

We certify the material listed above confirms in full with the following specifications:

All items have been manufactured, inspected, tested, and accepted in accordance with our Quality Management system, ISO 9001-2015. Documentation substantiating this certification is kept on record per the Company's retention policy and is available for review.
All materials and processes used in manufacturing conform to the materials and/or manufacturing specifications and notes indicated on the purchase order, drawing, specifications, quality assurance requirements, or other applicable documents effective on the date of manufacture.
Saint-Gobain does not warrant the product for any particular application and it is the responsibility of the user to conduct tests that are deemed necessary to determine the suitability of the product for any particular use. Saint-Gobain's sole responsibility shall be for failure to manufacture the product in accordance with specifications and requirements of the buyer, and from defects in material and workmanship. This warranty is expressly made in lieu of any and all other warranties and Saint-Gobain's sole liability shall be to replace any product not in conformance with the specification and requirements of the buyer.

Quality Approval:	Jonathan Kimble	**Date:**	05/13/20

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

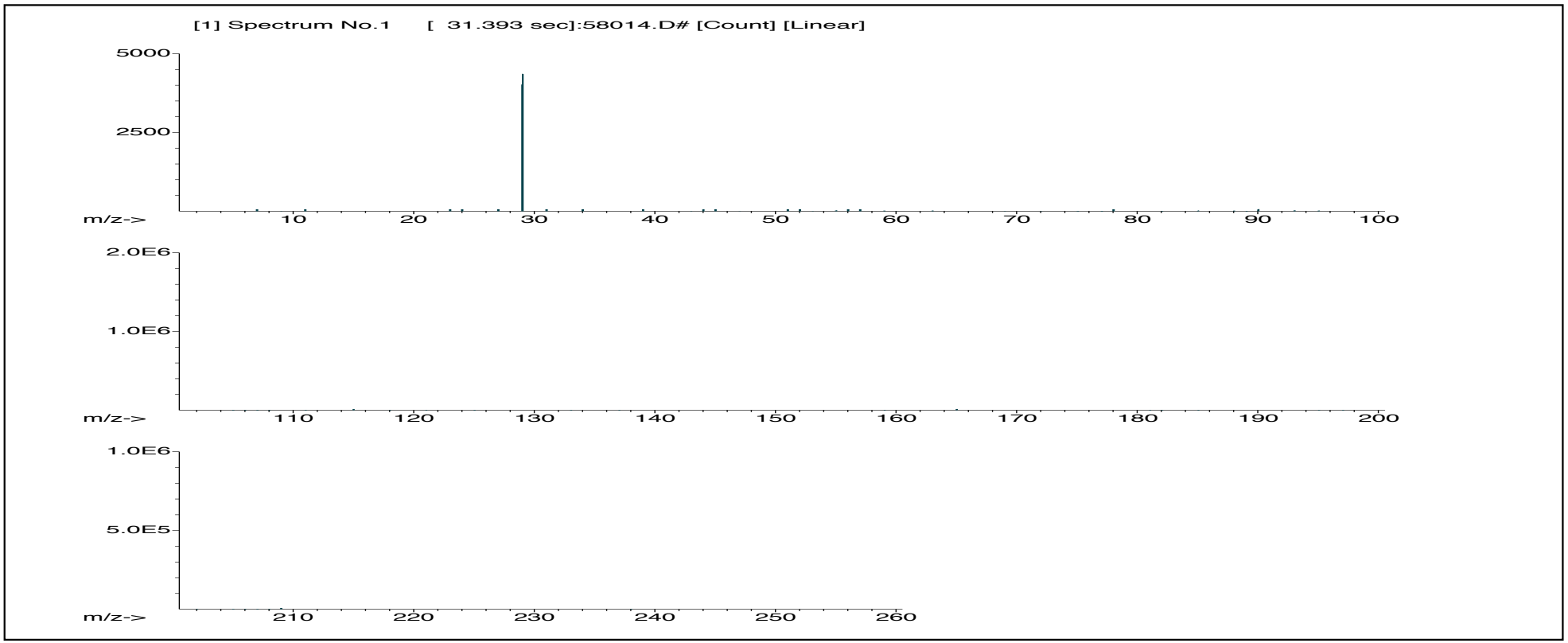
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.

* 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).

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.

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

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

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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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

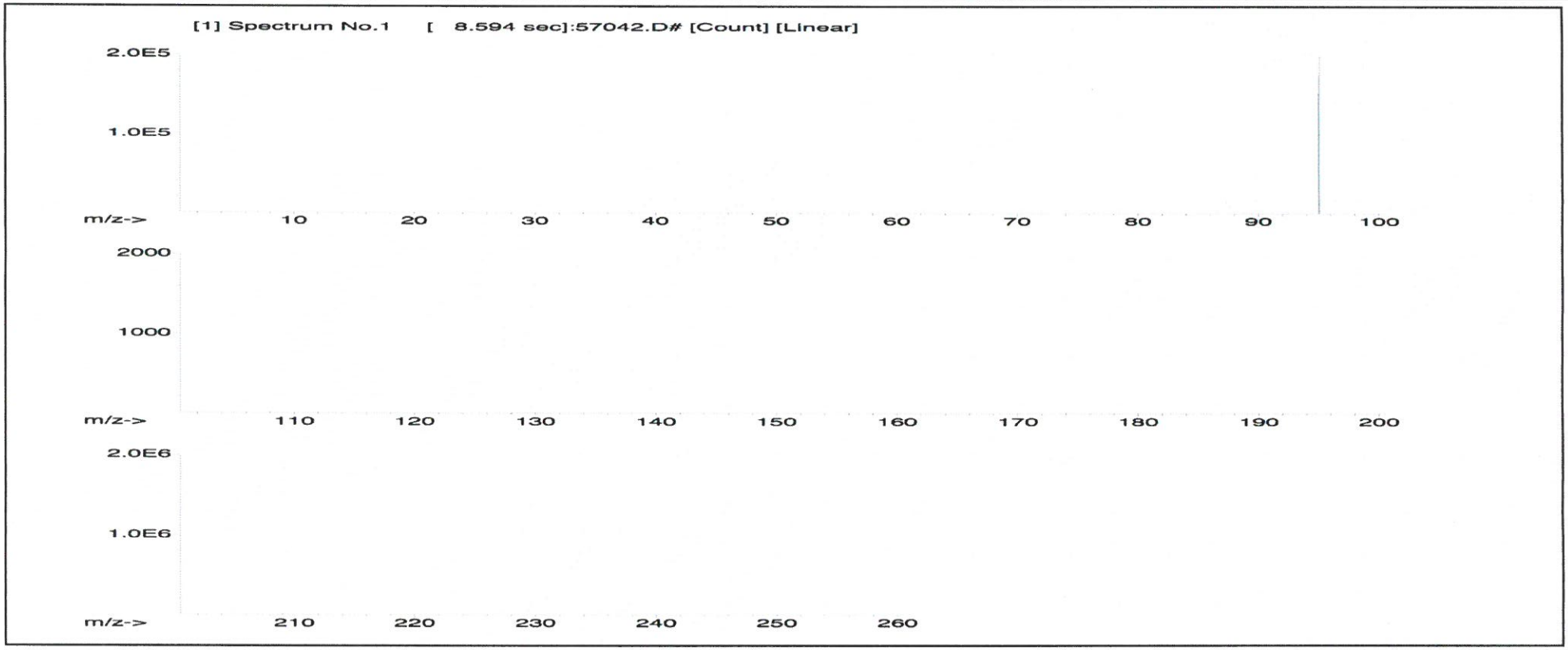
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	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).

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:	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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5288 R: 07/21/2022

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

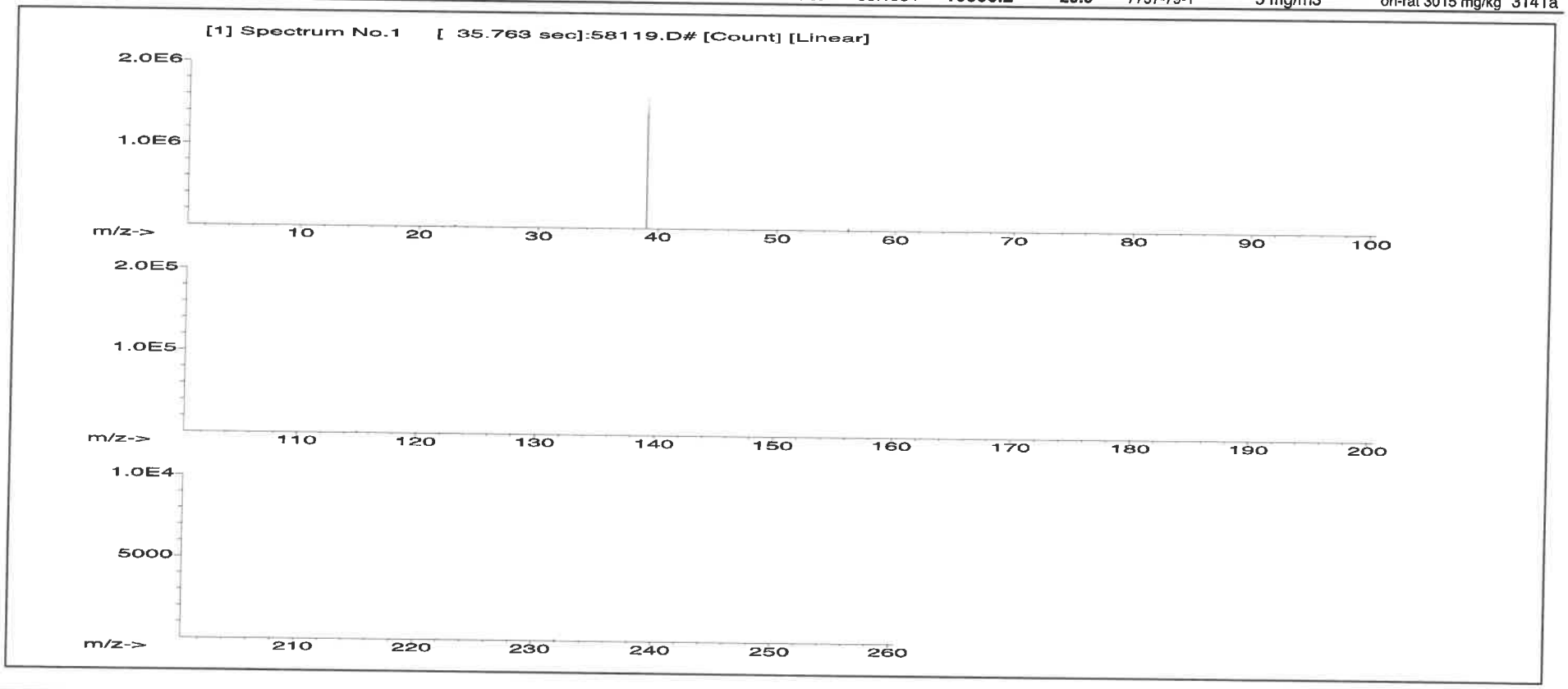
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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

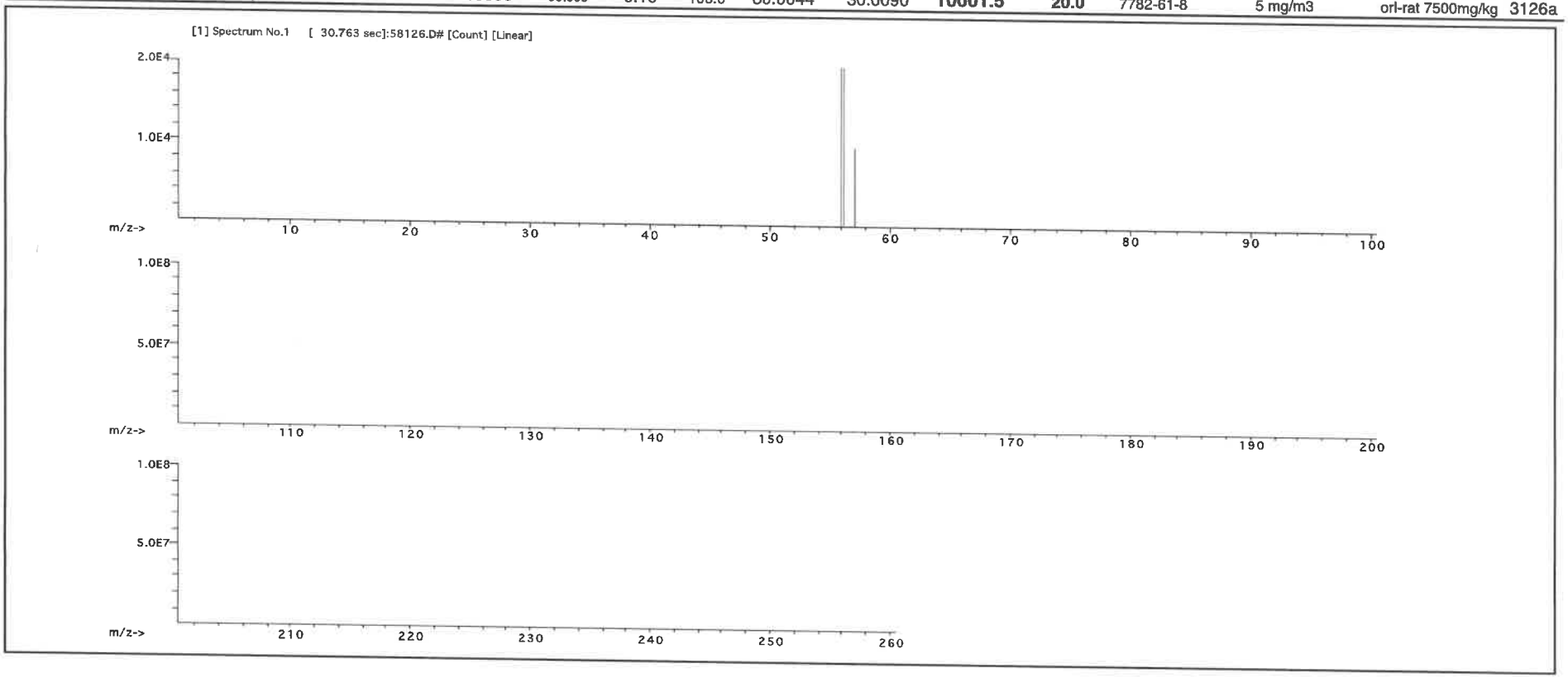
	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	

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.
* 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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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

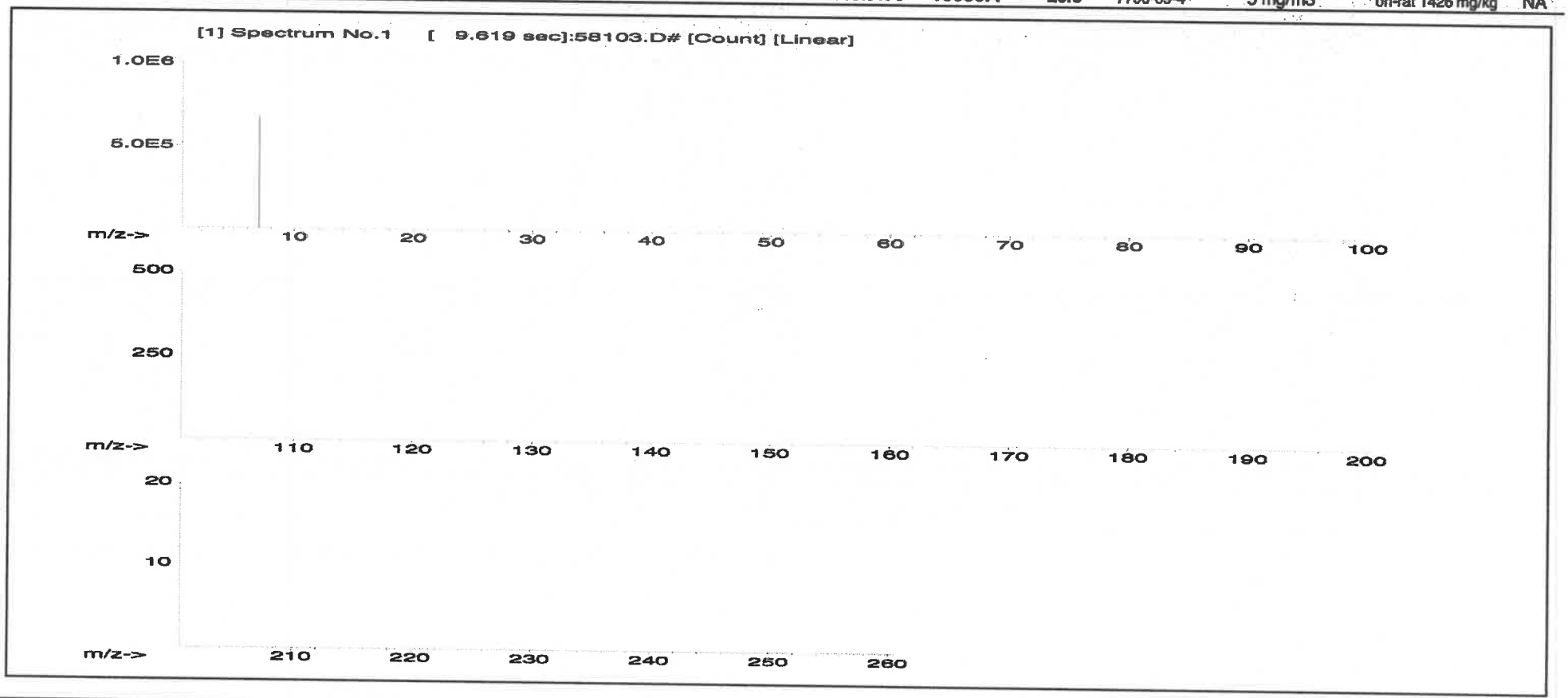
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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.

* 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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M5467 R: 03/01/23 (LA)

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

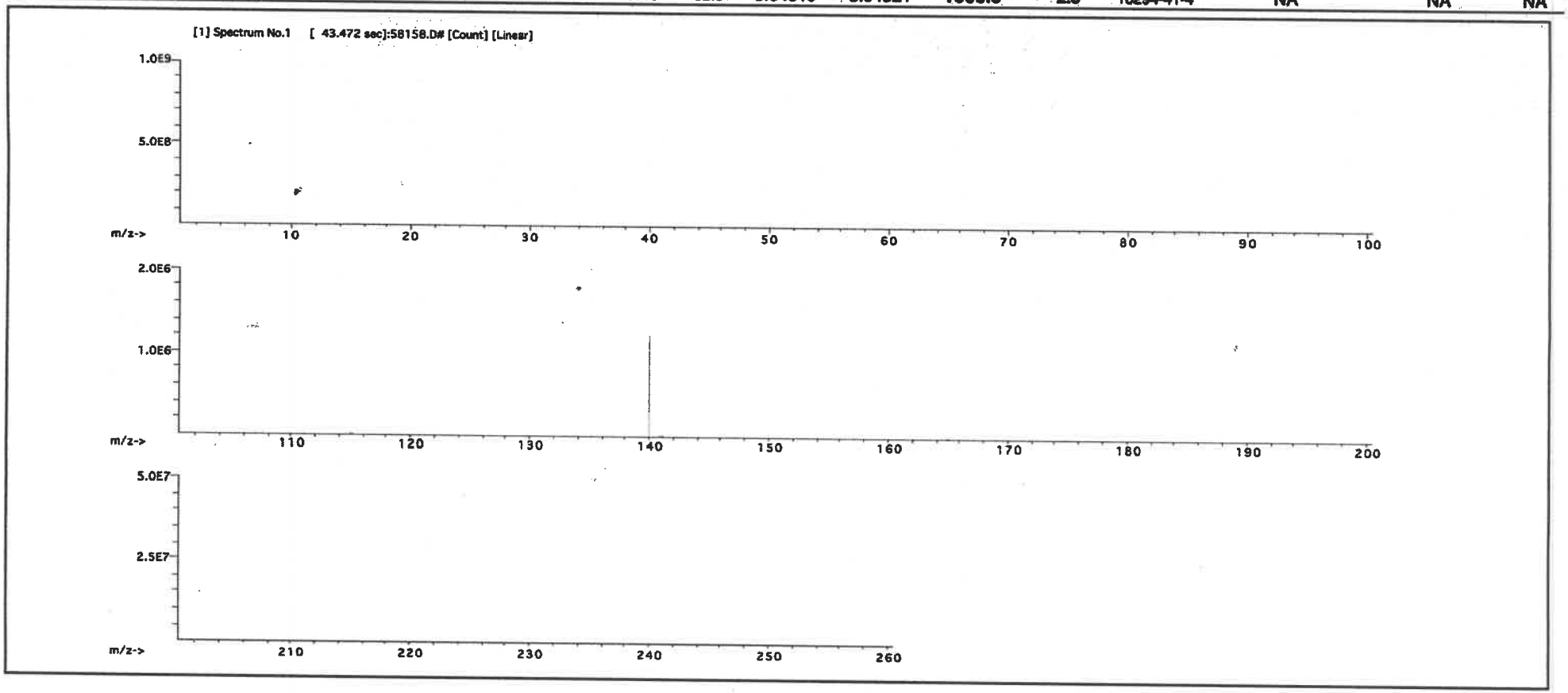
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

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. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	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	T	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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* 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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M5496 R 7/20/23

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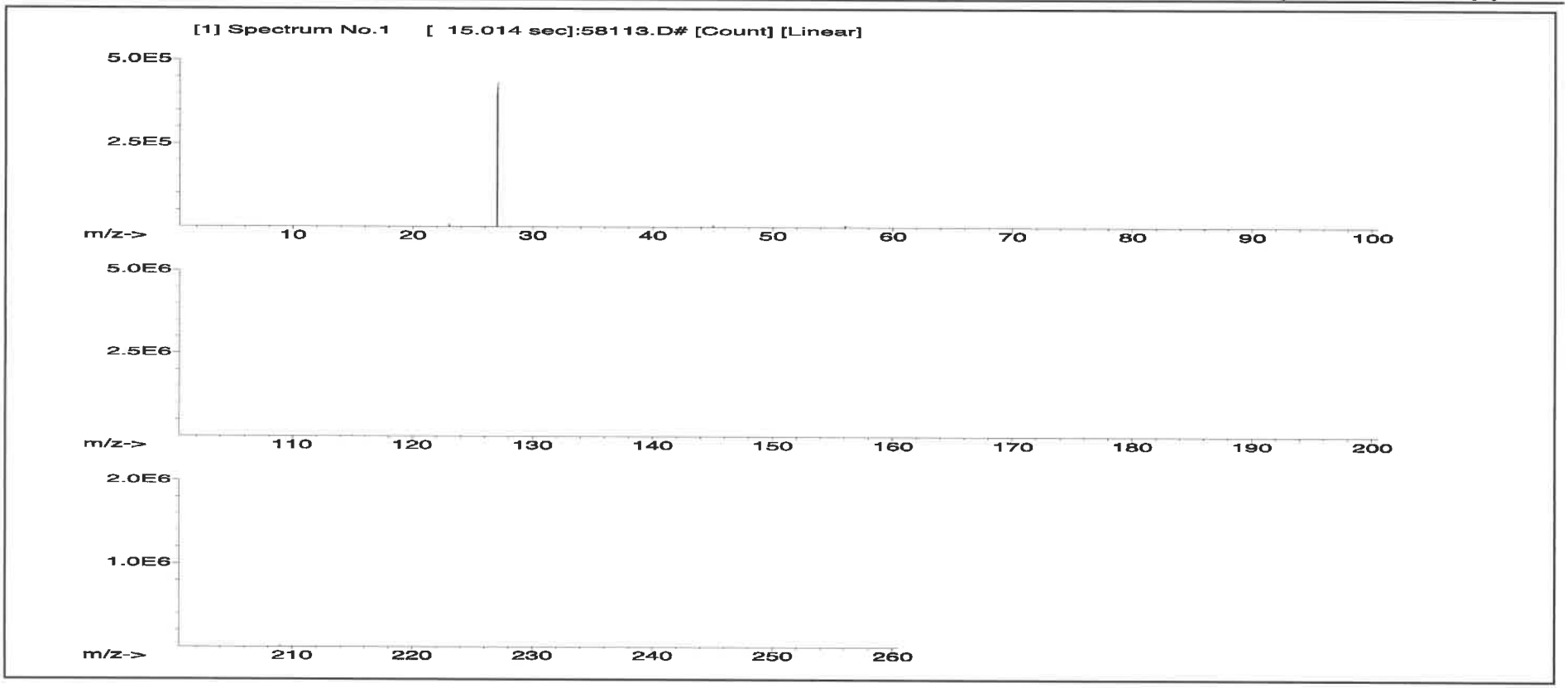
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**011623**	**Solvent:**	20510011	Nitric Acid	
Description:	**Aluminum (Al)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	011626				
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		

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

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. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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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)

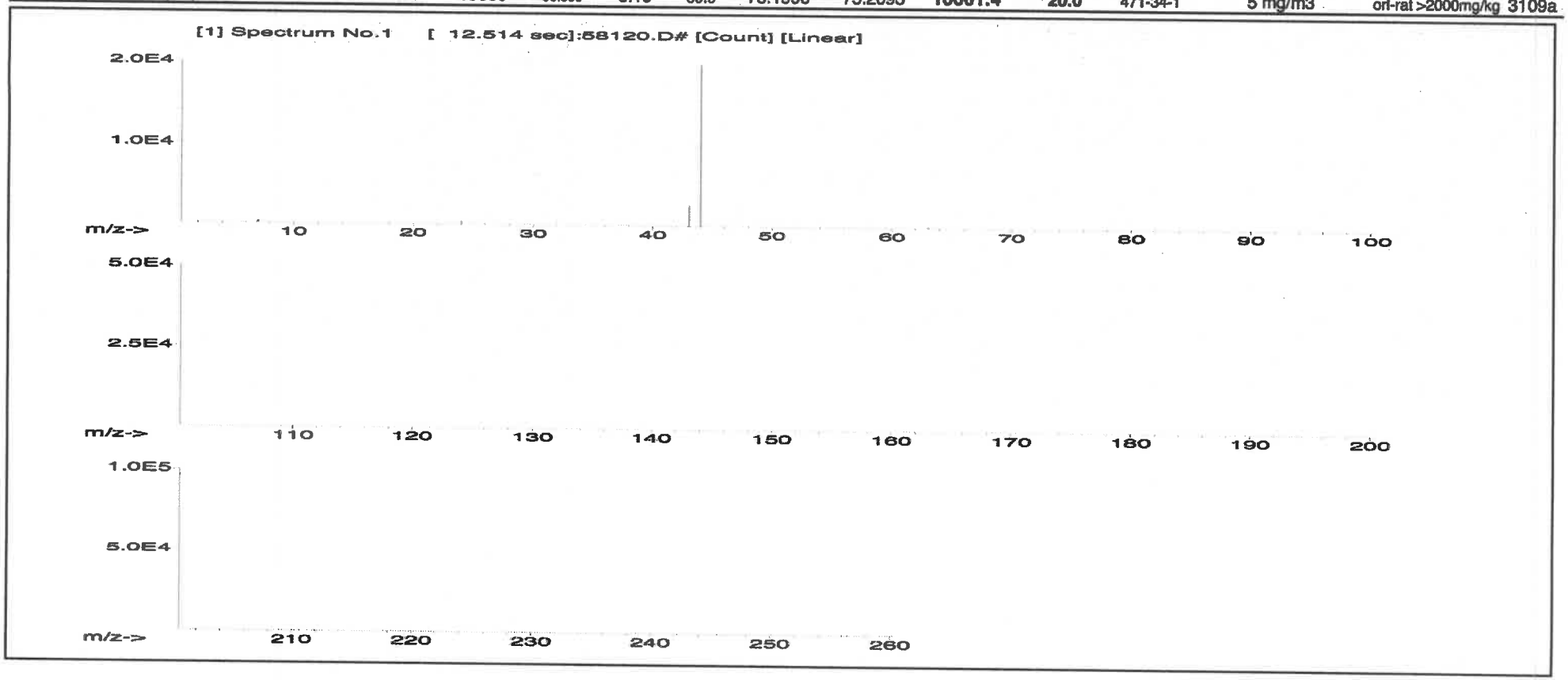
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		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.
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Certified Reference Material CRM

M519. M520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

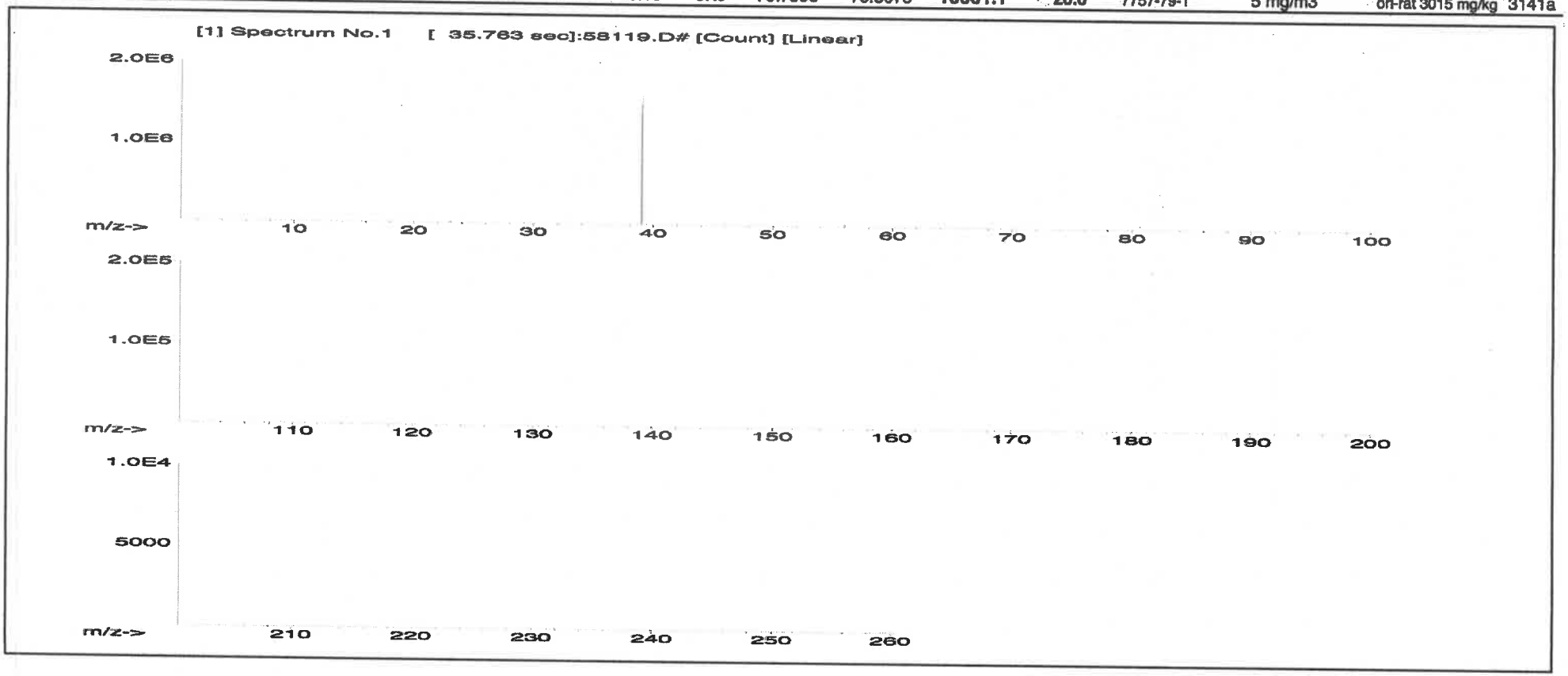
Lot #		
Solvent: 20510011		Nitric Acid
2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

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	79.7990	79.8075	**10001.1**	**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:

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).

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

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

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M5658 R ! 8/25/23

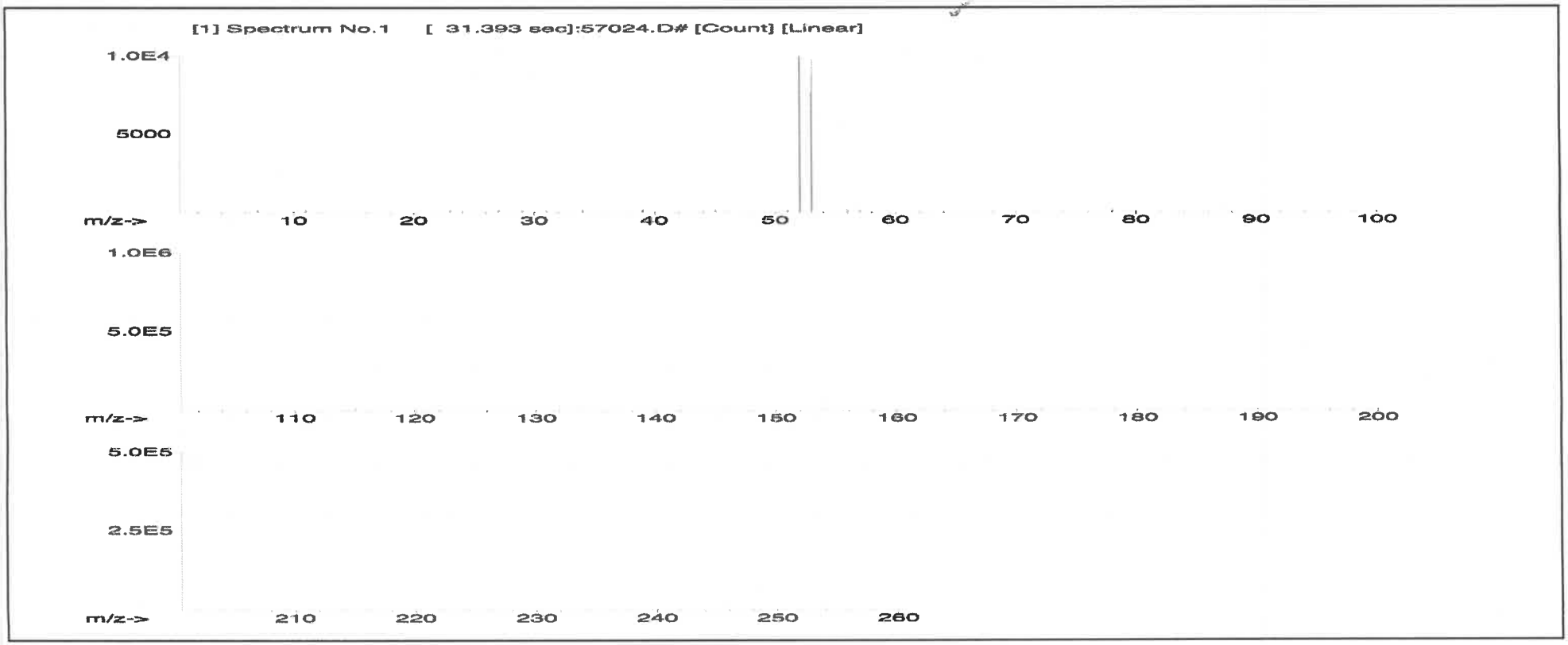
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CERTIFIED WEIGHT REPORT:

		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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M5697 R: 10/27/23

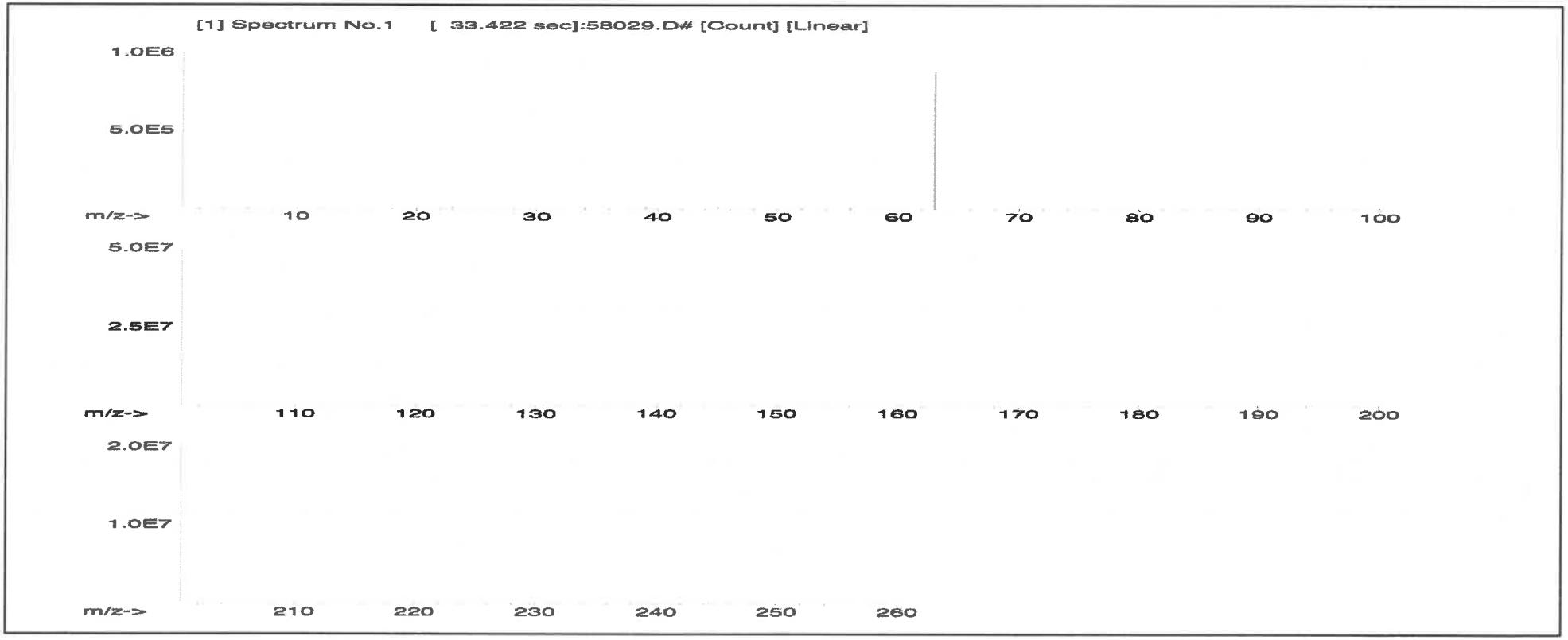
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		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. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**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:

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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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

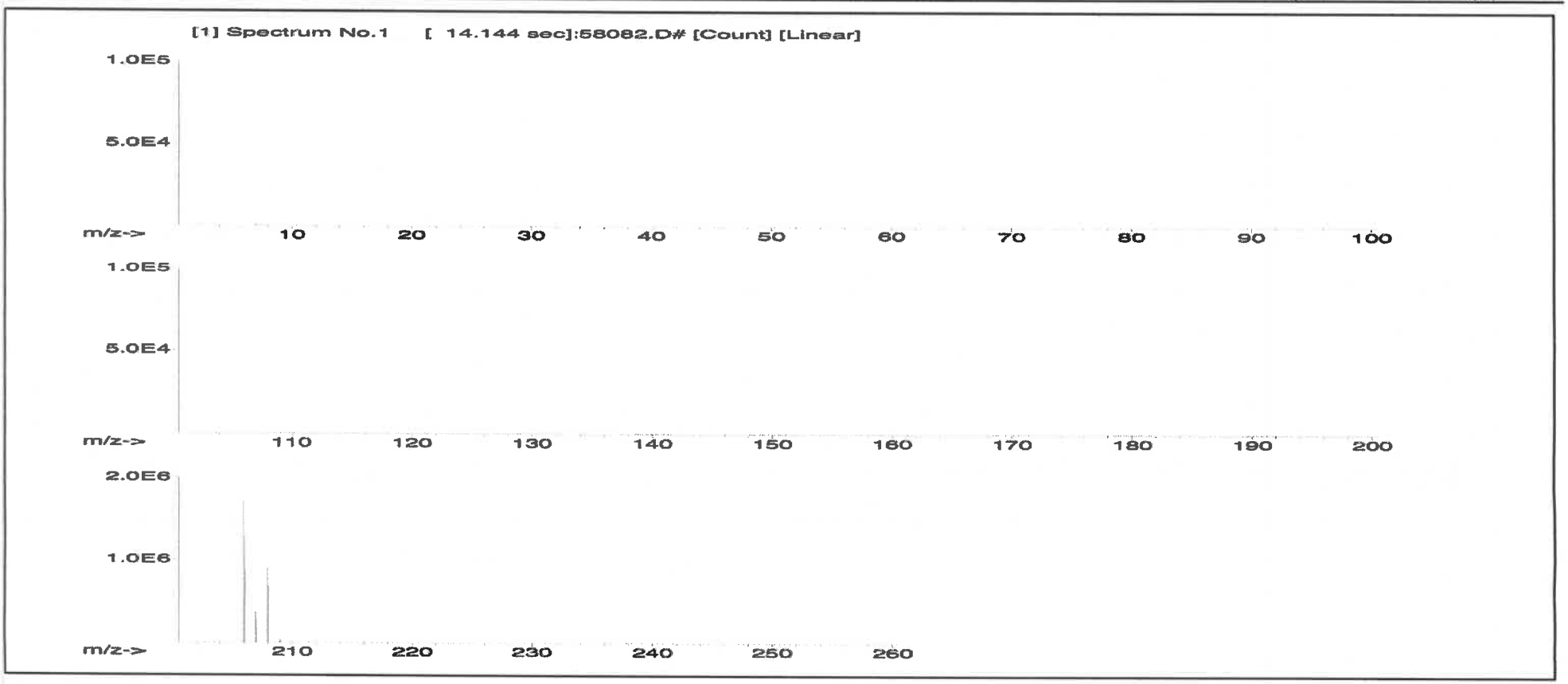
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

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. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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	T	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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Certified by:

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R: 12/20/23 M5748

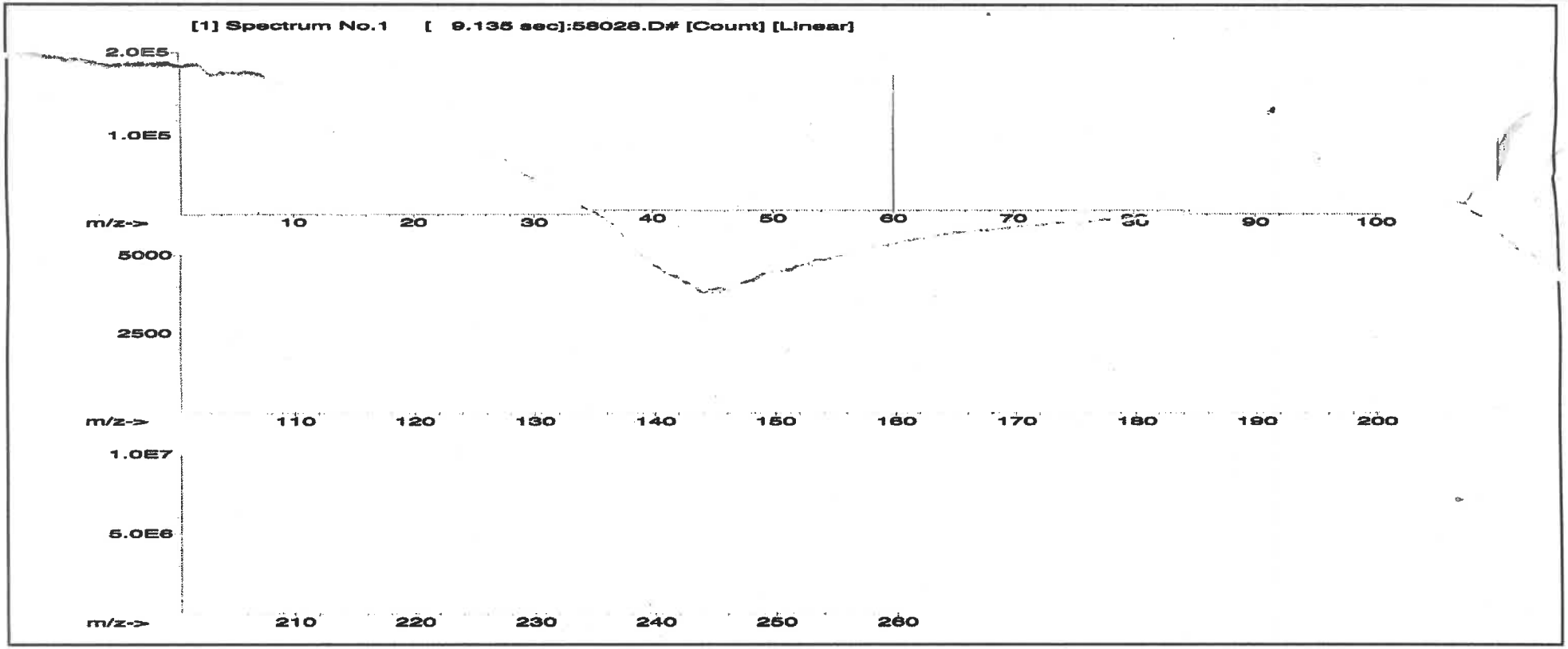
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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

		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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* 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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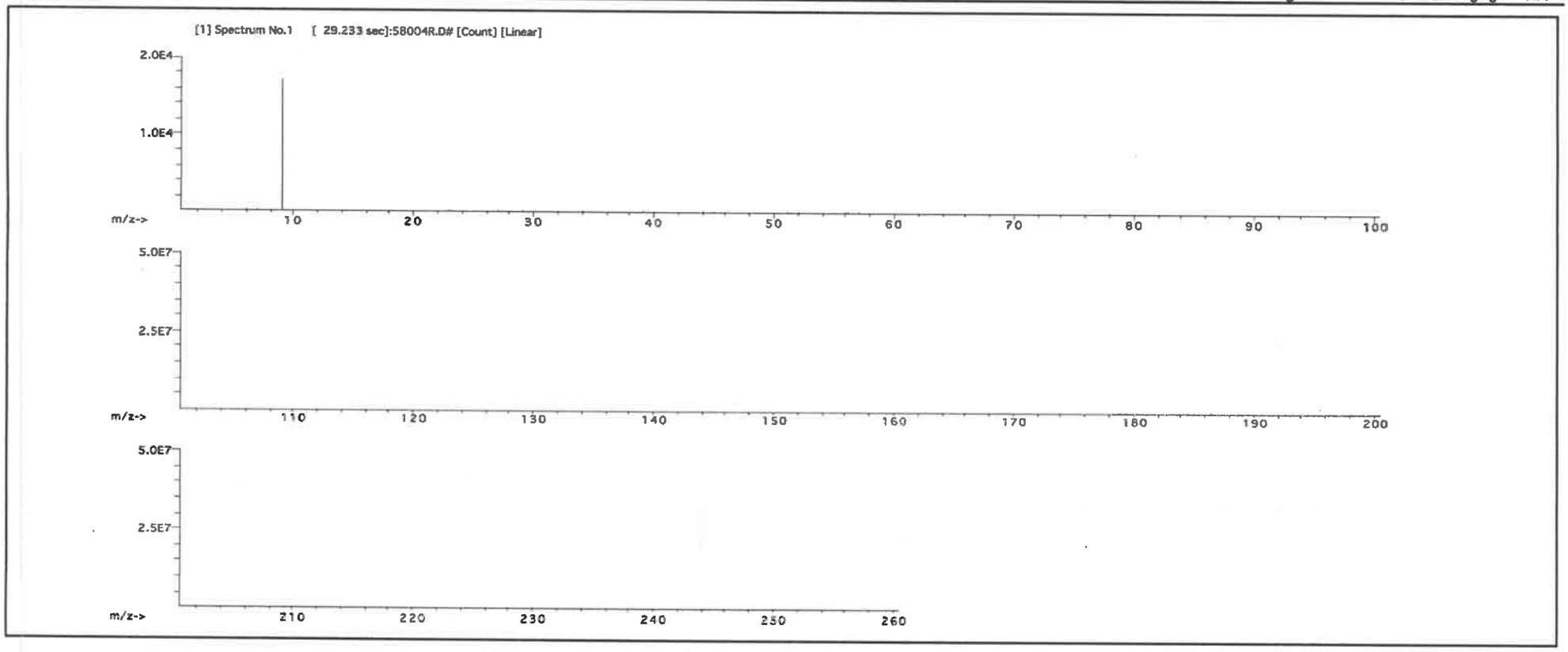
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CERTIFIED WEIGHT REPORT:

		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.

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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:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

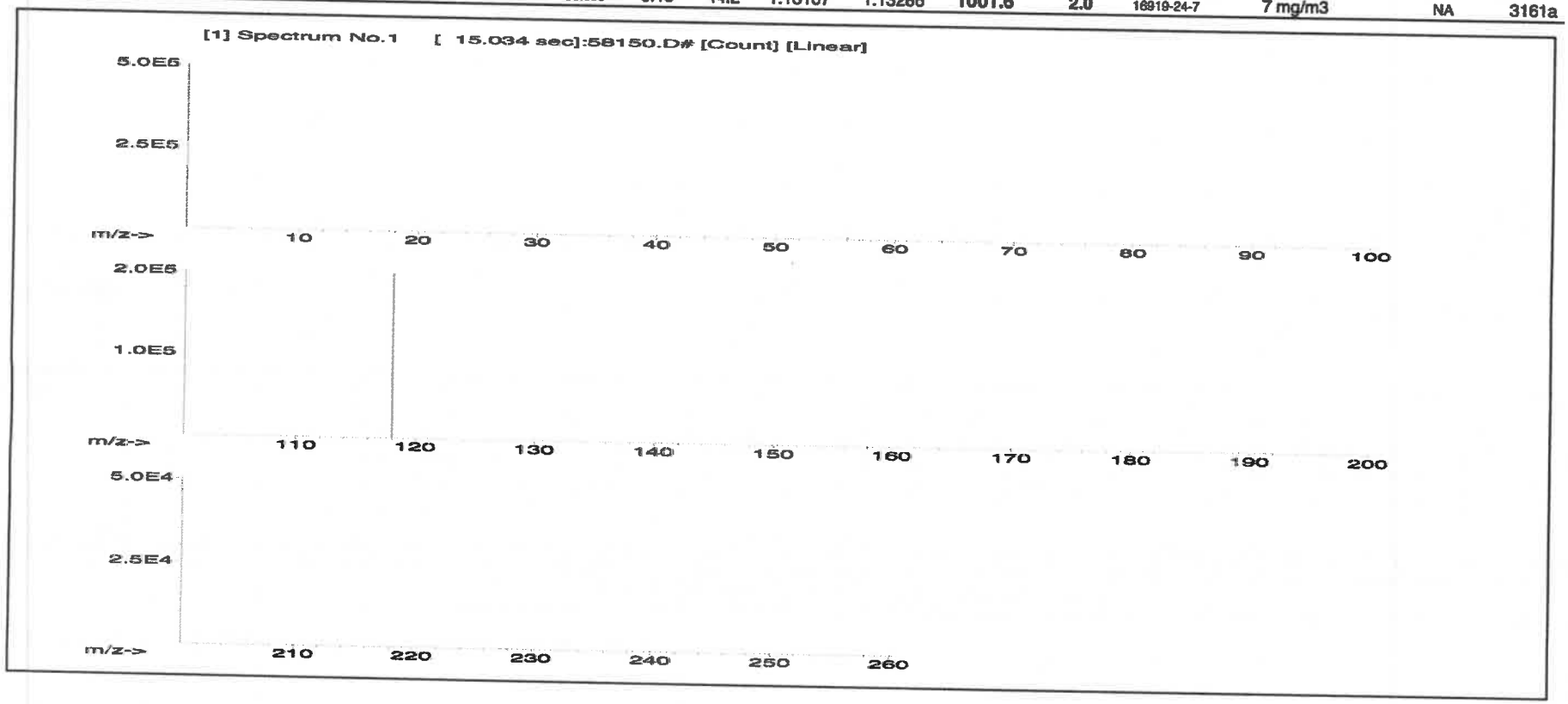
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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:

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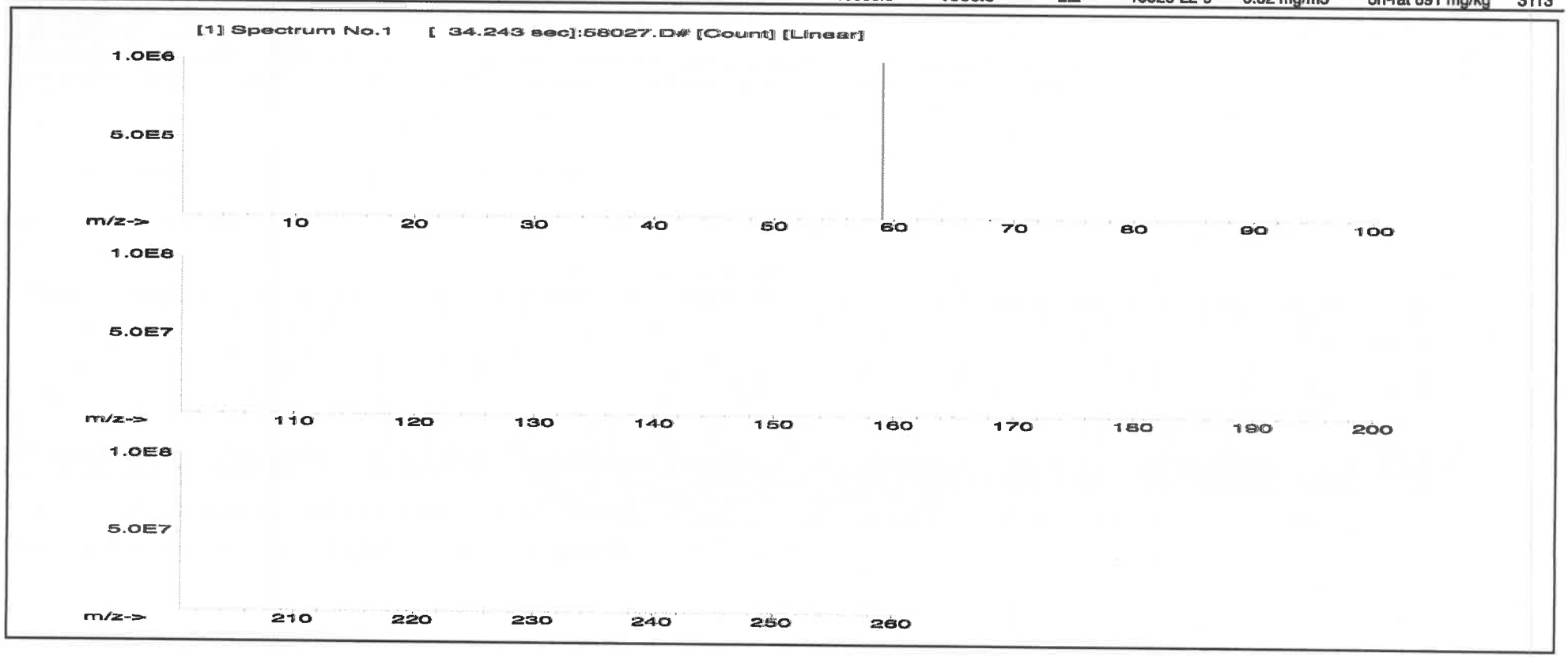
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CERTIFIED WEIGHT REPORT:

		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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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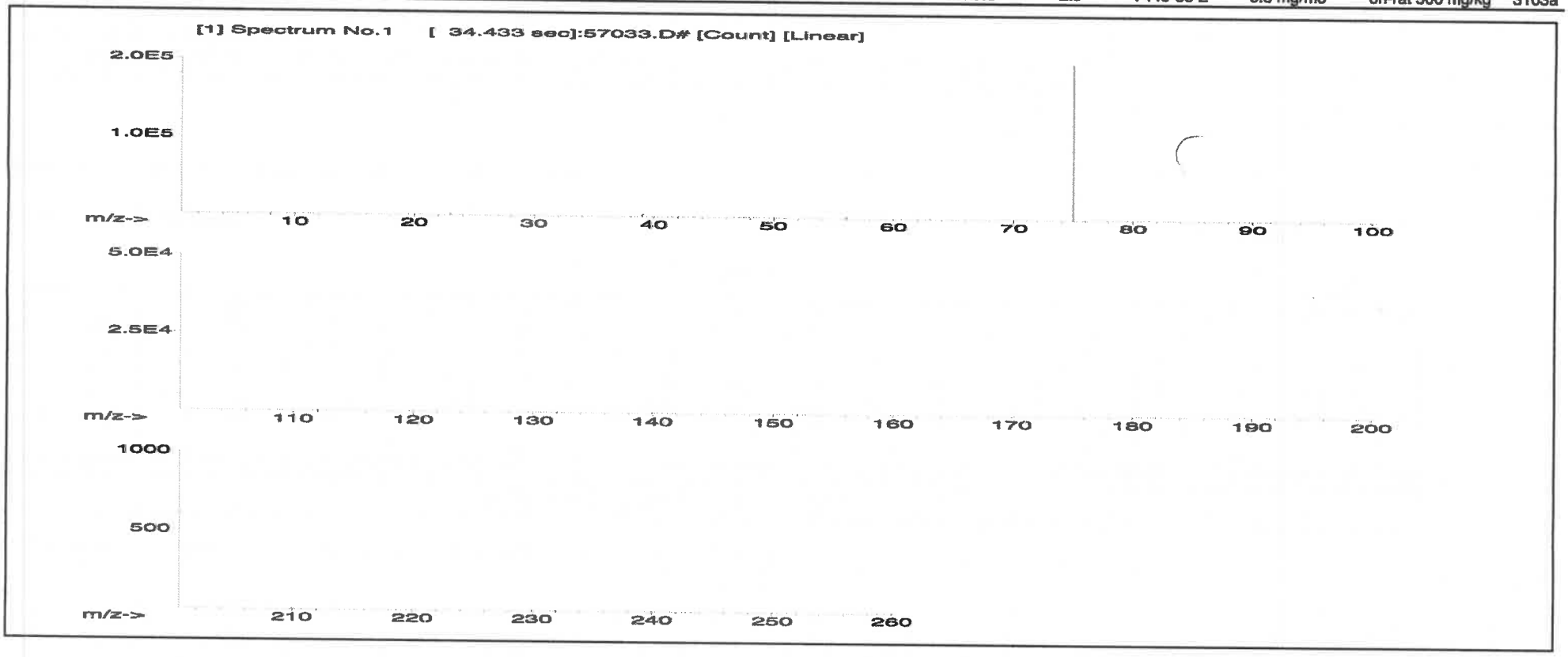
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CERTIFIED **WEIGHT** REPORT:

		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

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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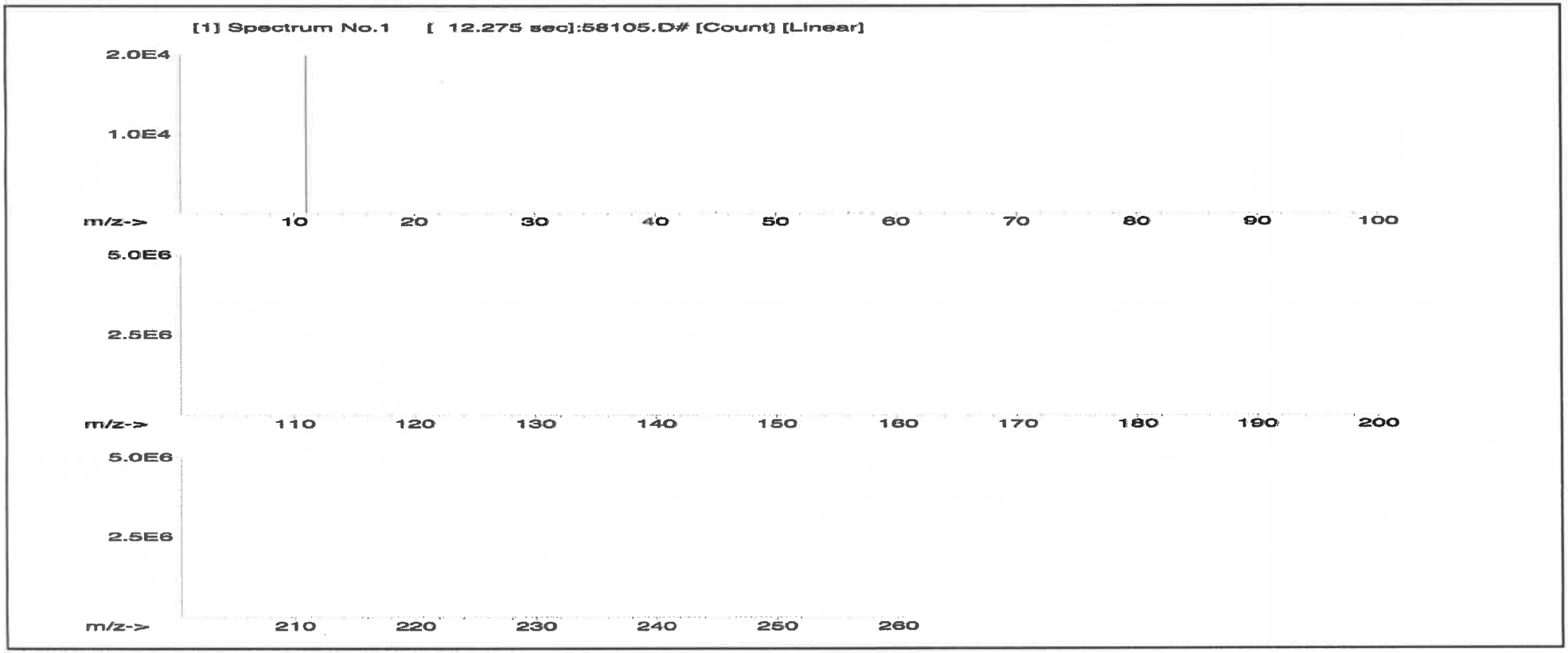
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
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):	1999.48	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. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	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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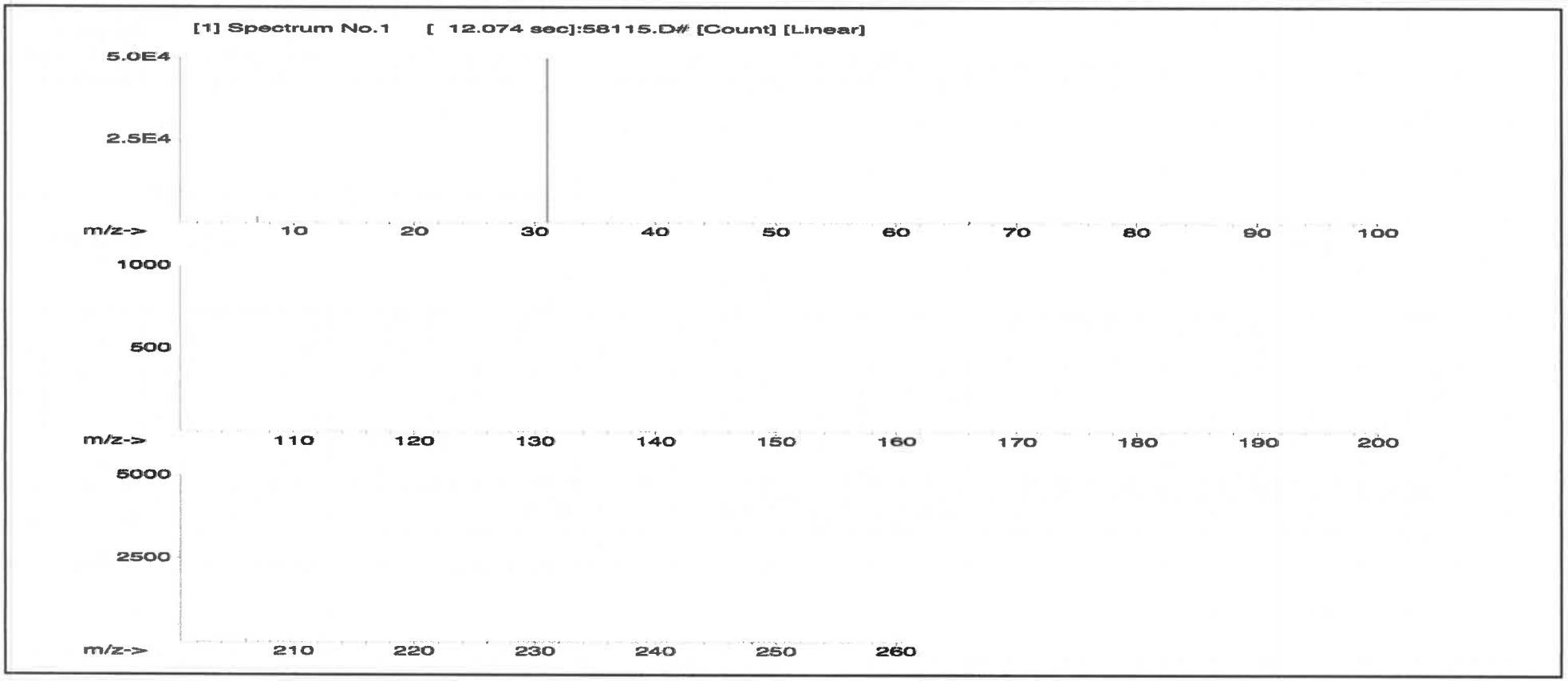
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
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	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

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	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	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.
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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).

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Certified Reference Material CRM

R: 02/09/24 M5816

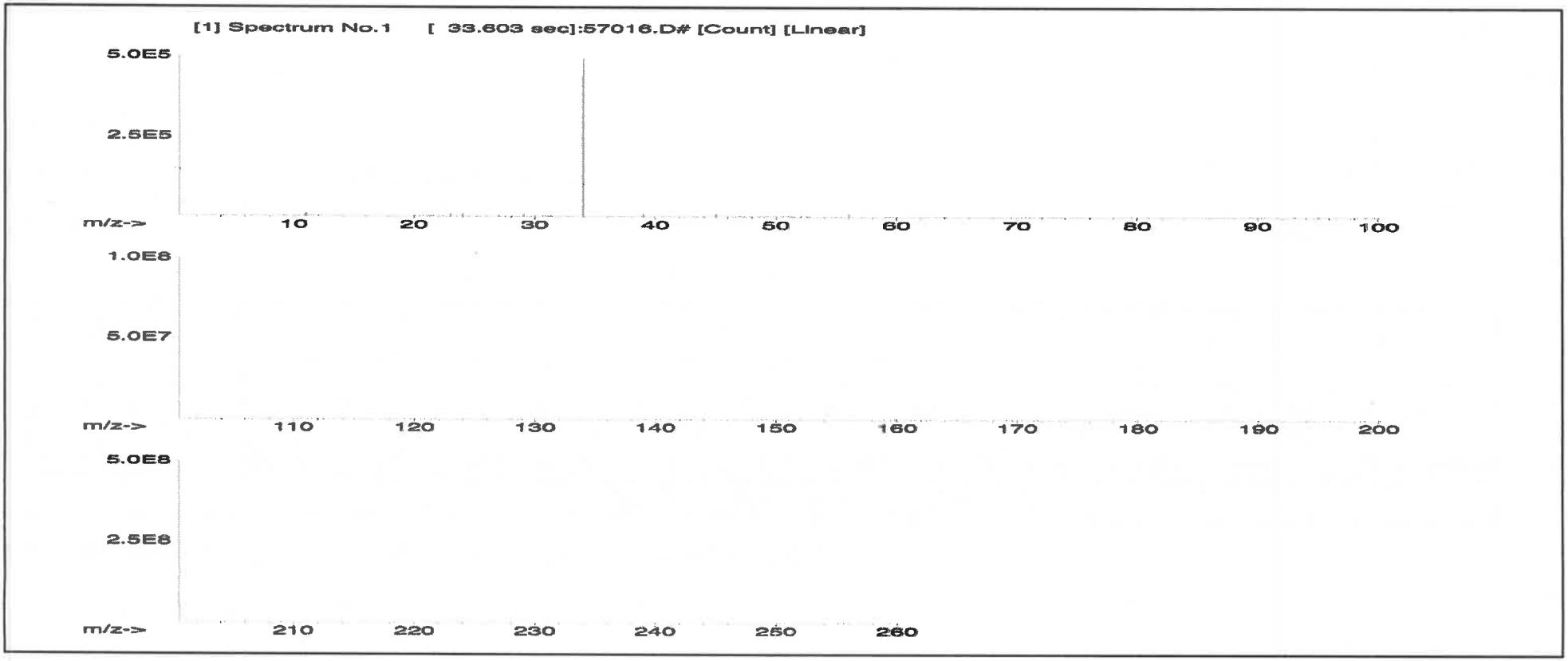
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
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):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

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	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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	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:

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).
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* 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

R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

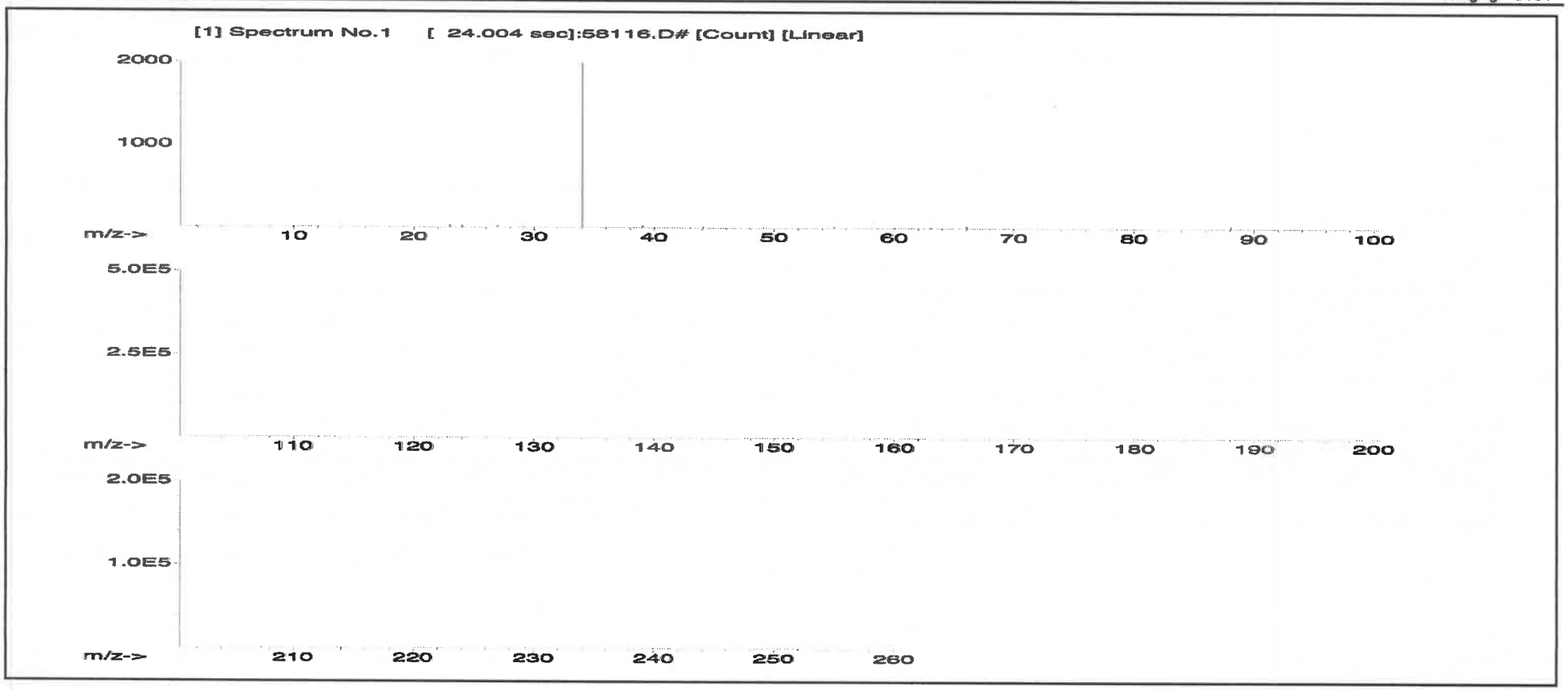
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
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): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	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 sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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	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:

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.
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* 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 M5819

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

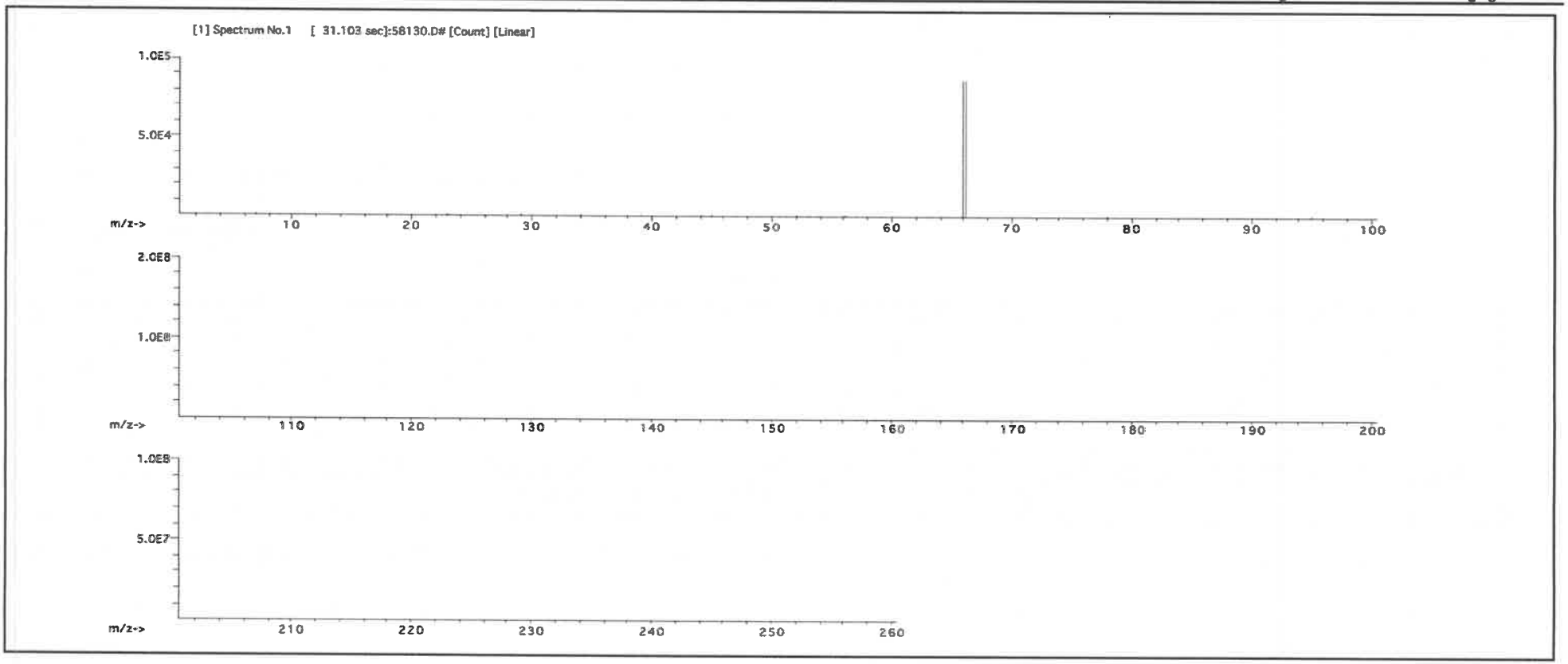
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #		
Solvent:	24002546	Nitric Acid		
	2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

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. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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	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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* 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

R: 02/09/24 M5820

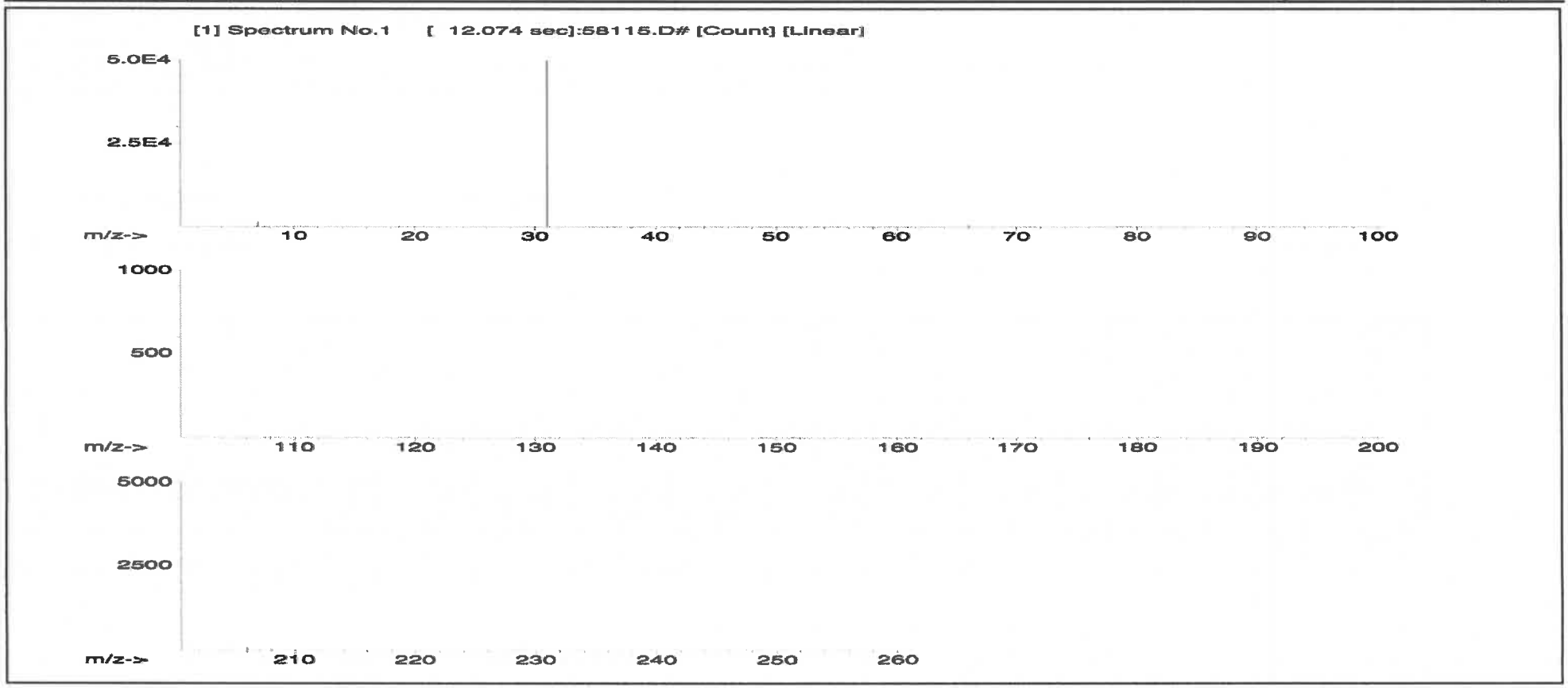
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
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		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

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	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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	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.

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Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MT884
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

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M5959 R: 6/14/24.

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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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

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 - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

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

February 20, 2024

- 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 20, 2029

- 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
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5961 R: 6/11/24

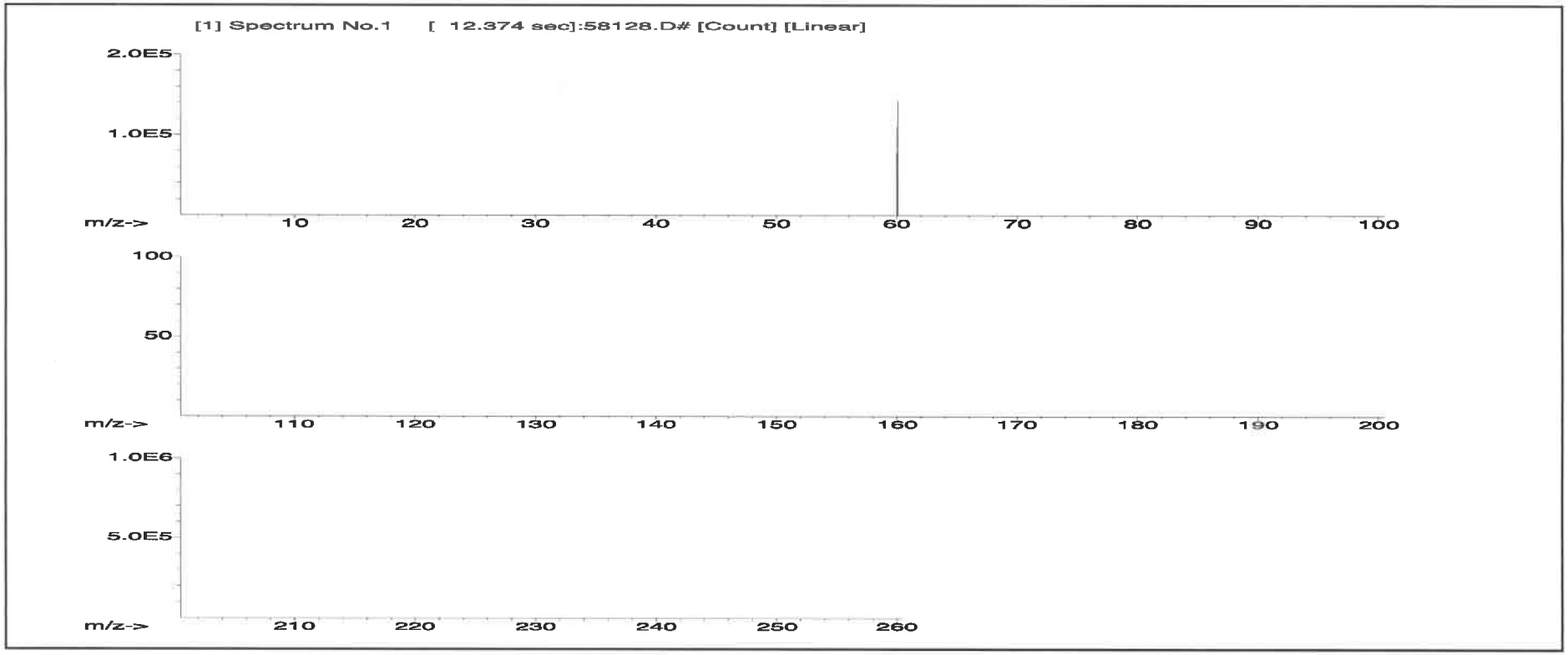
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
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):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

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. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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	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.

* 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

M5962 R! 06/14/24.

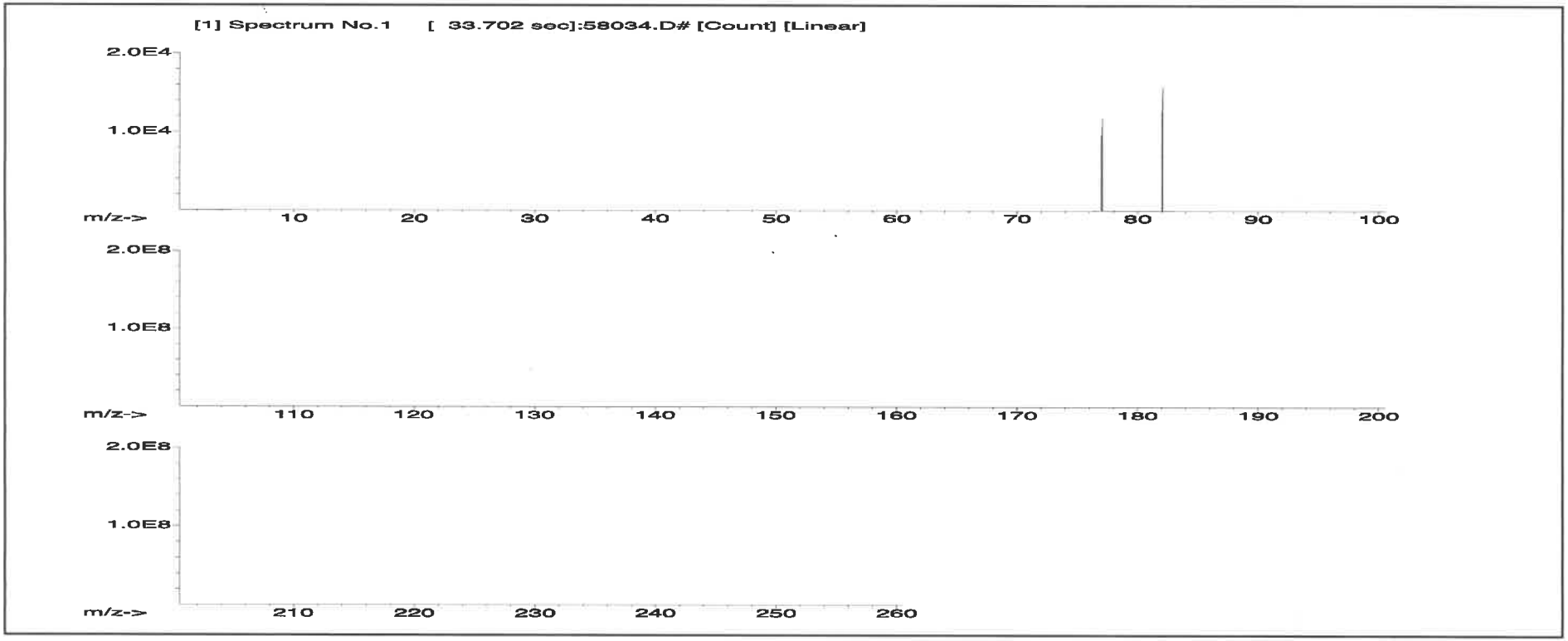
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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
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):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

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 (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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	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.
* 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

M5970, M5971 R: 7/01/24

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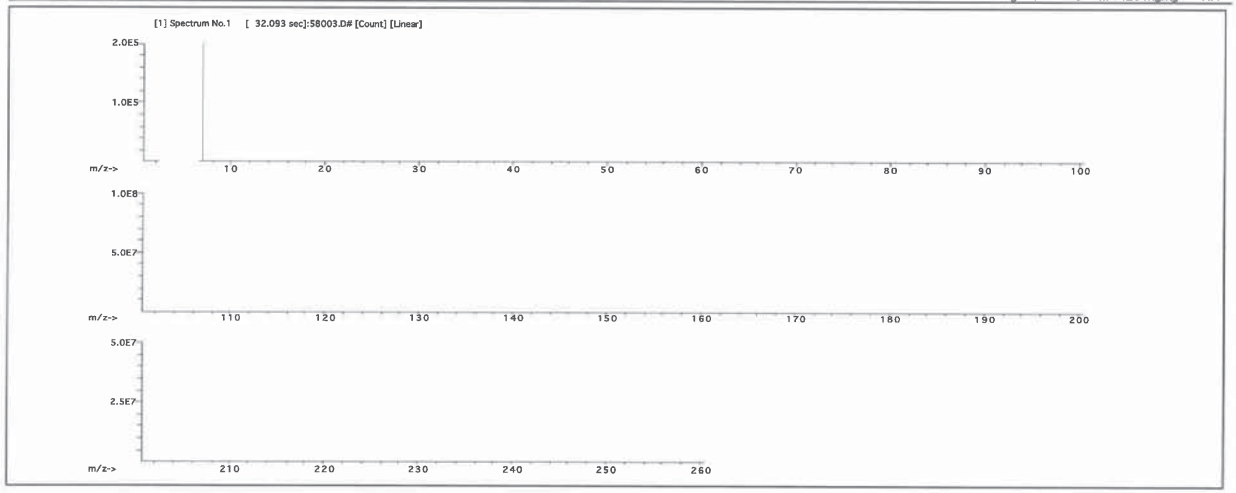
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
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):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

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	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/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	T	Ni	<0.02	Pr	<0.02	Sc	<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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Certificate of Analysis

M5976, M5977
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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:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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)

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.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

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 - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

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 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

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

July 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

- July 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 Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979

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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:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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)

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.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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 - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

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 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

June 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

- June 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



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R: 6/14/24

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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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)

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.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

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 - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

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 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

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

February 21, 2023

- 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 21, 2028

- 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



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

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-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 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 ± 5 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 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

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

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

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

September 06, 2024

- 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 06, 2029

- 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:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

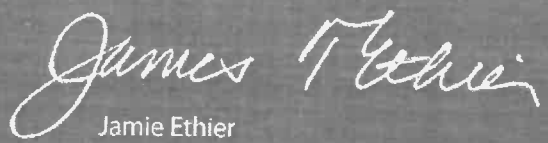
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
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)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

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
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

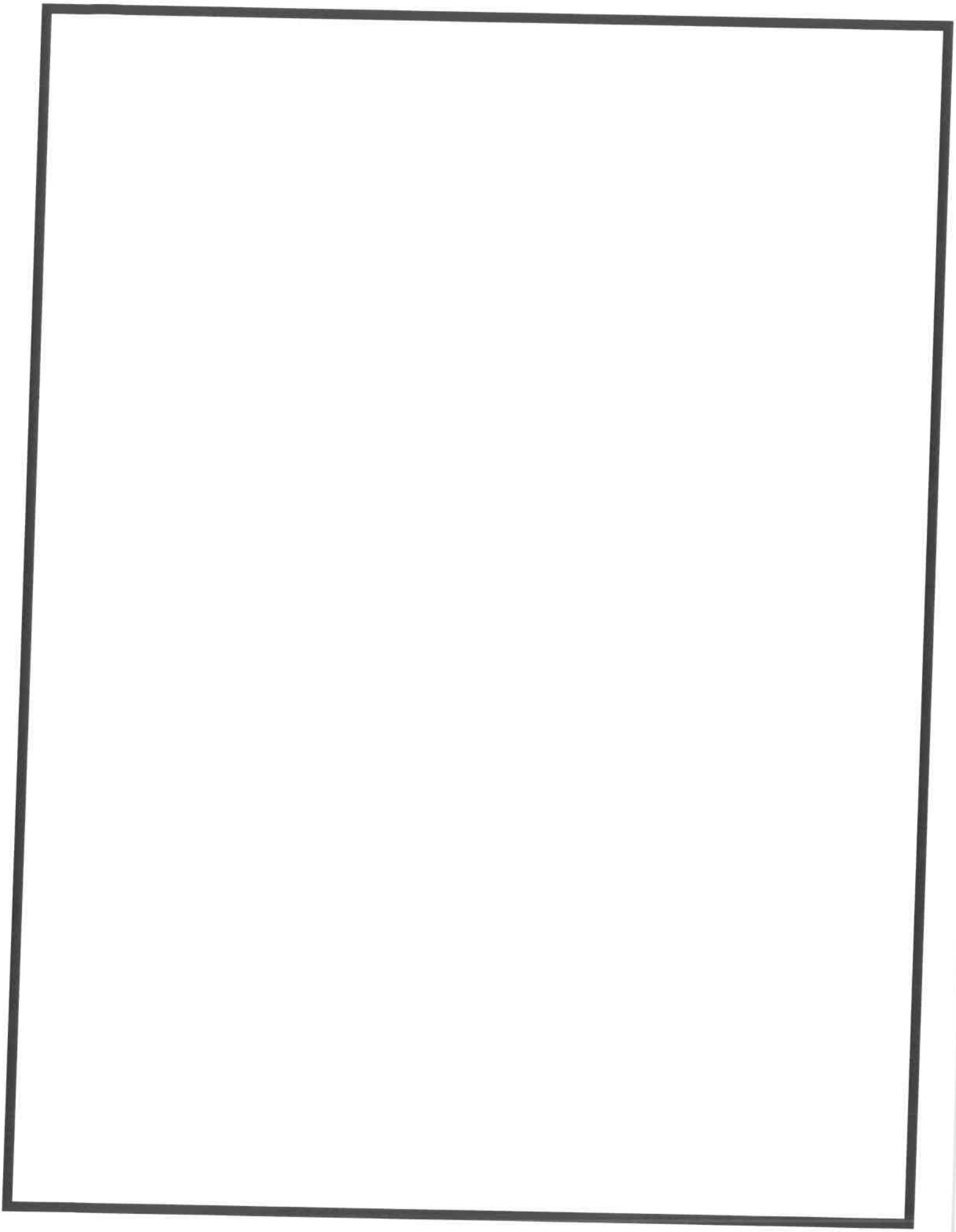
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

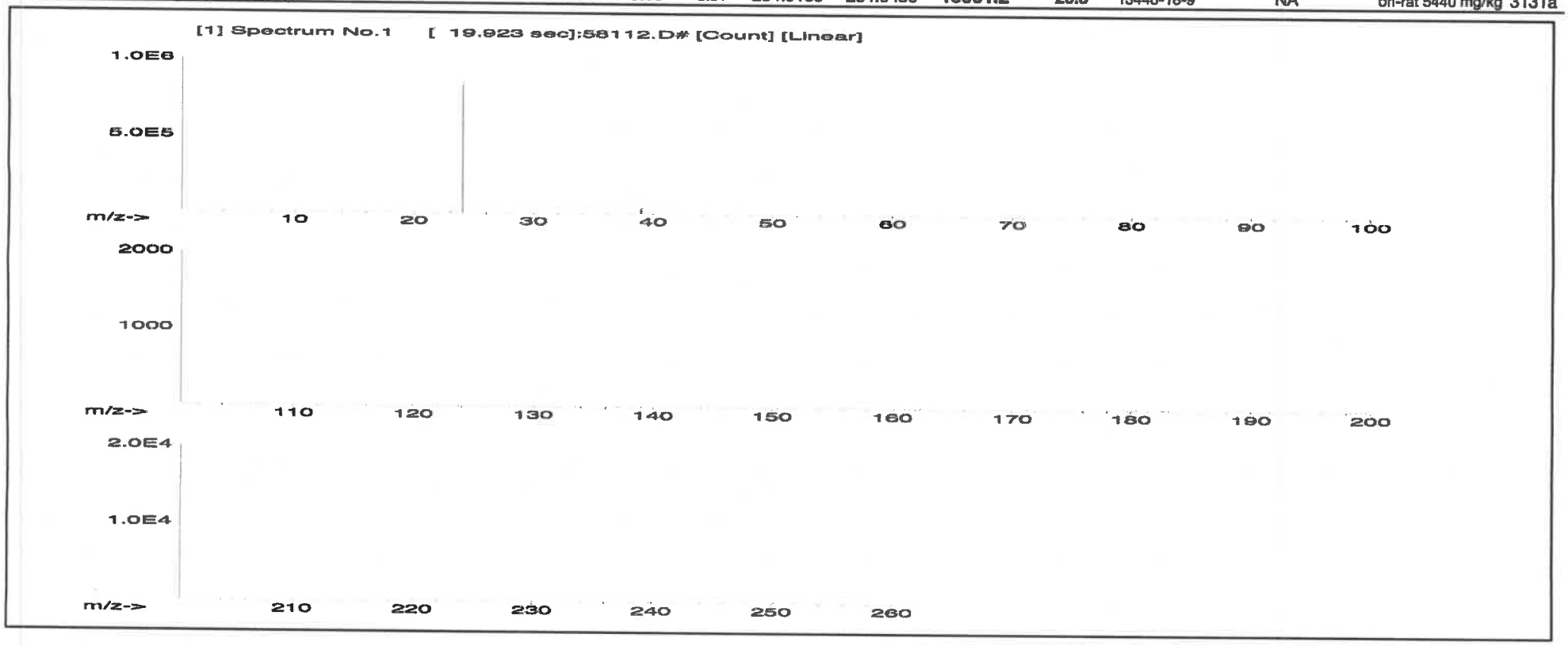
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
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):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

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	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**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.
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* 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:

R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
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):	4000.2	0.10	Flask Uncertainty	

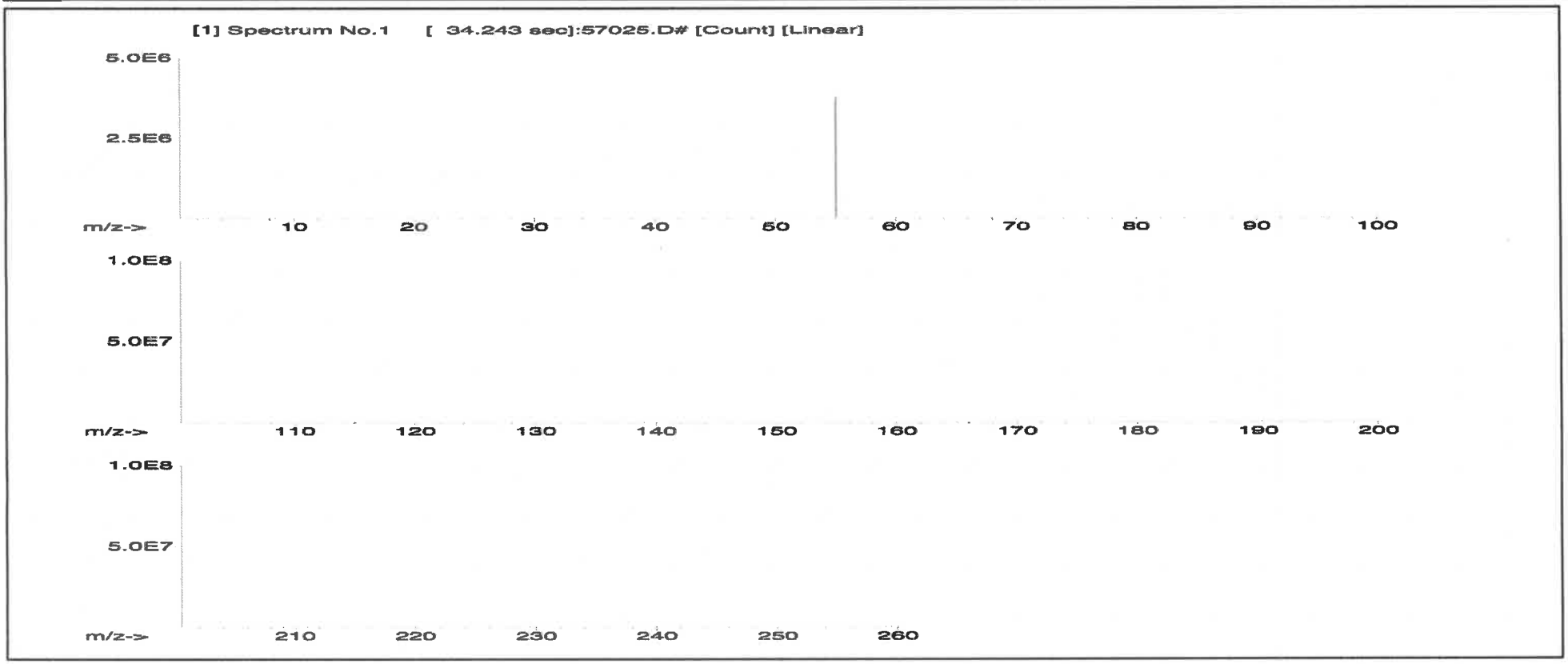
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

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. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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	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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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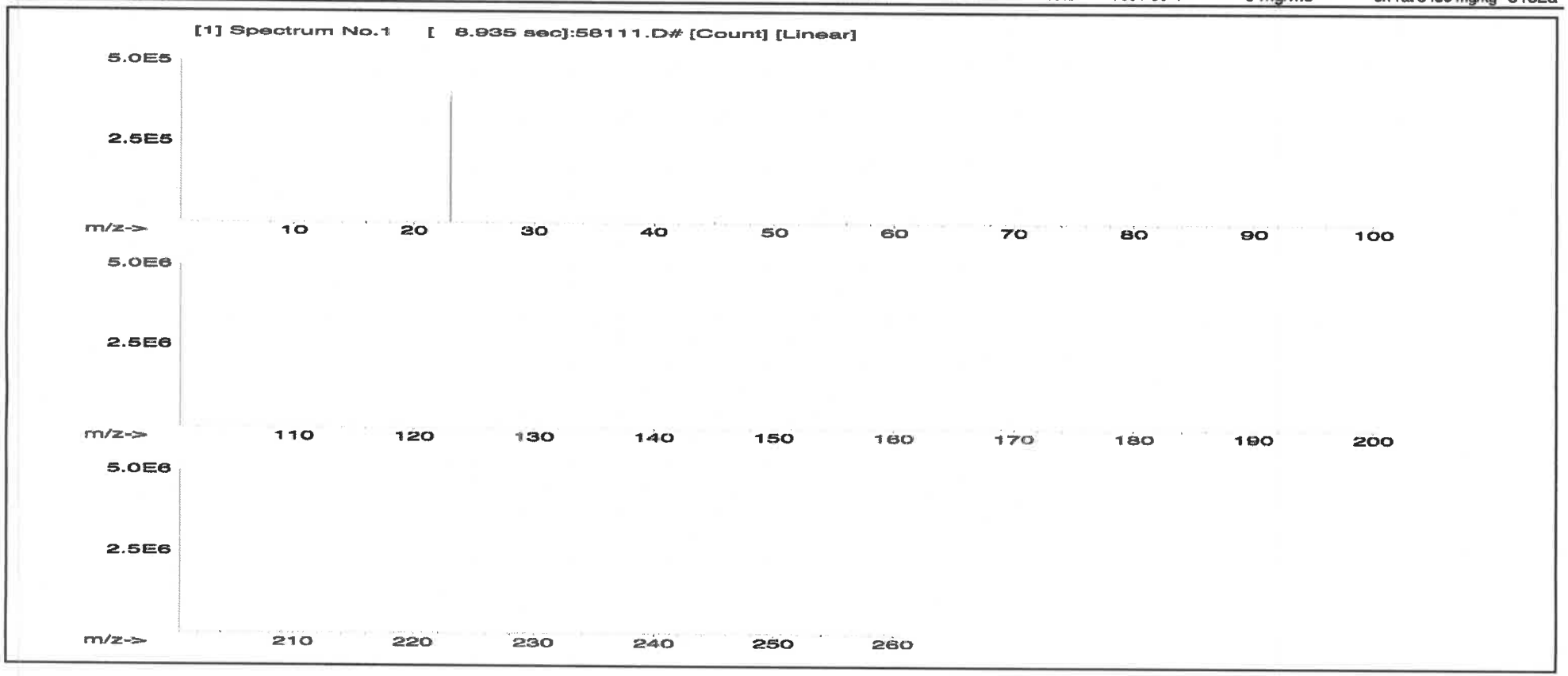
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
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):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

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	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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	Sc	<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.

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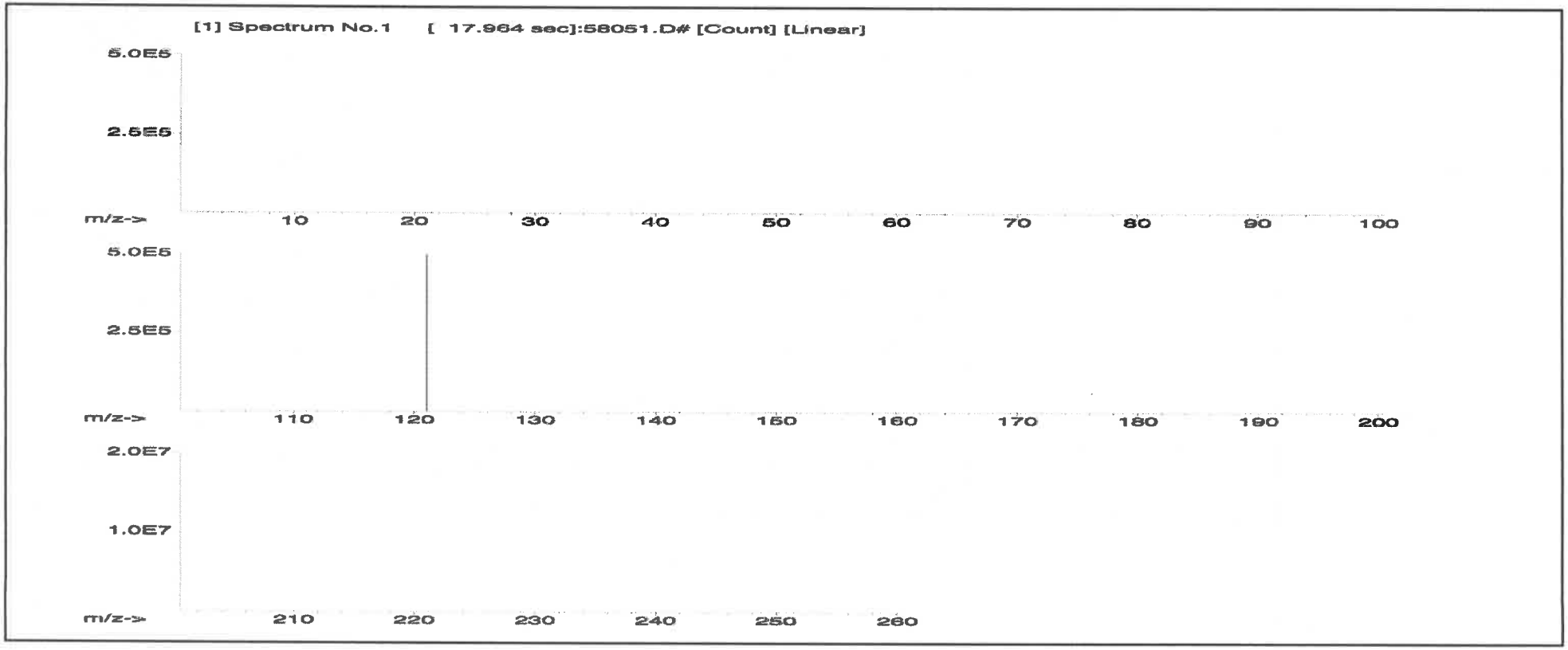
R: 01/03/24 M5802, M5803

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
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	120523
Reviewed By:	Pedro L. Rentas	120523

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. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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	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:

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Certified by:

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M6030

R: 8/5/24

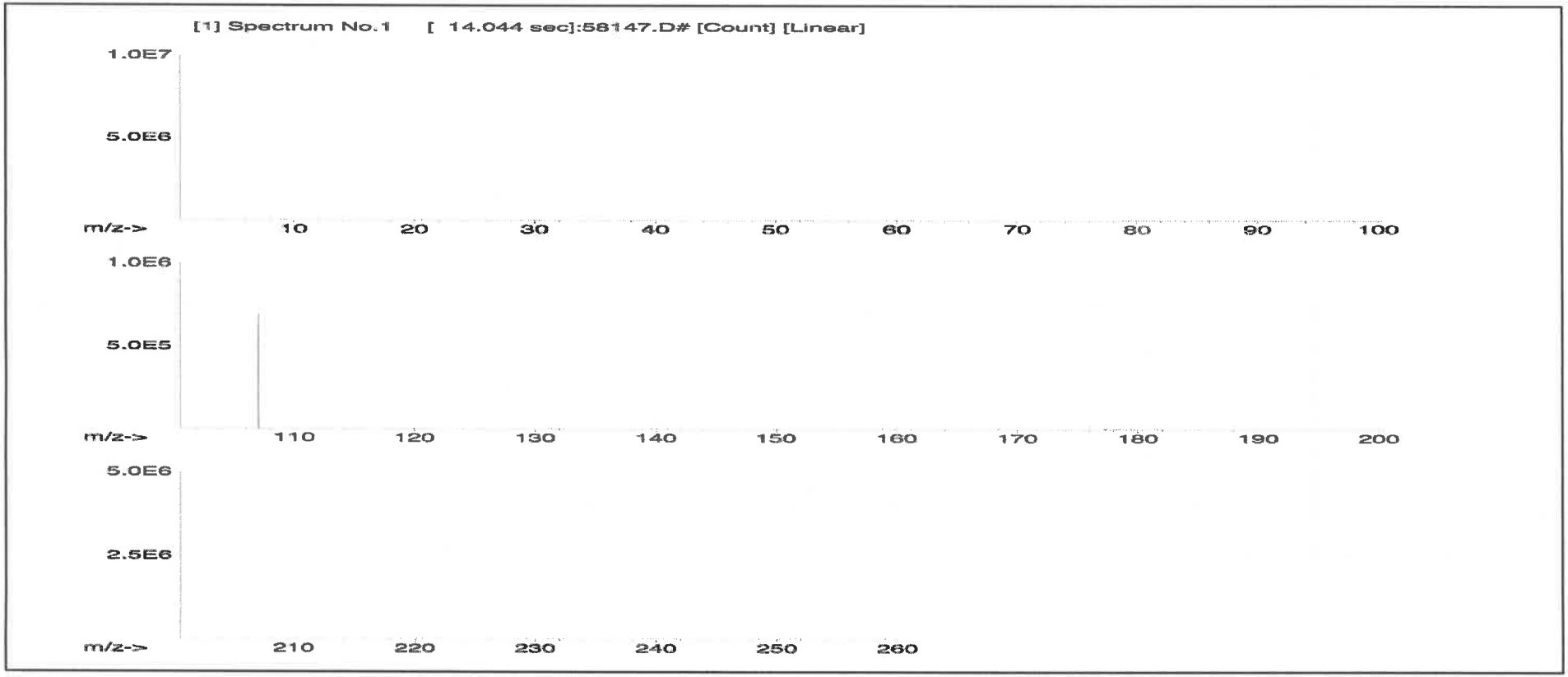
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CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
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):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

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. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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	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:

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R: 8/5/24 M6019

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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 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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)

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.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

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 - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

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

March 03, 2023

- 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

- **March 03, 2028**

- 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

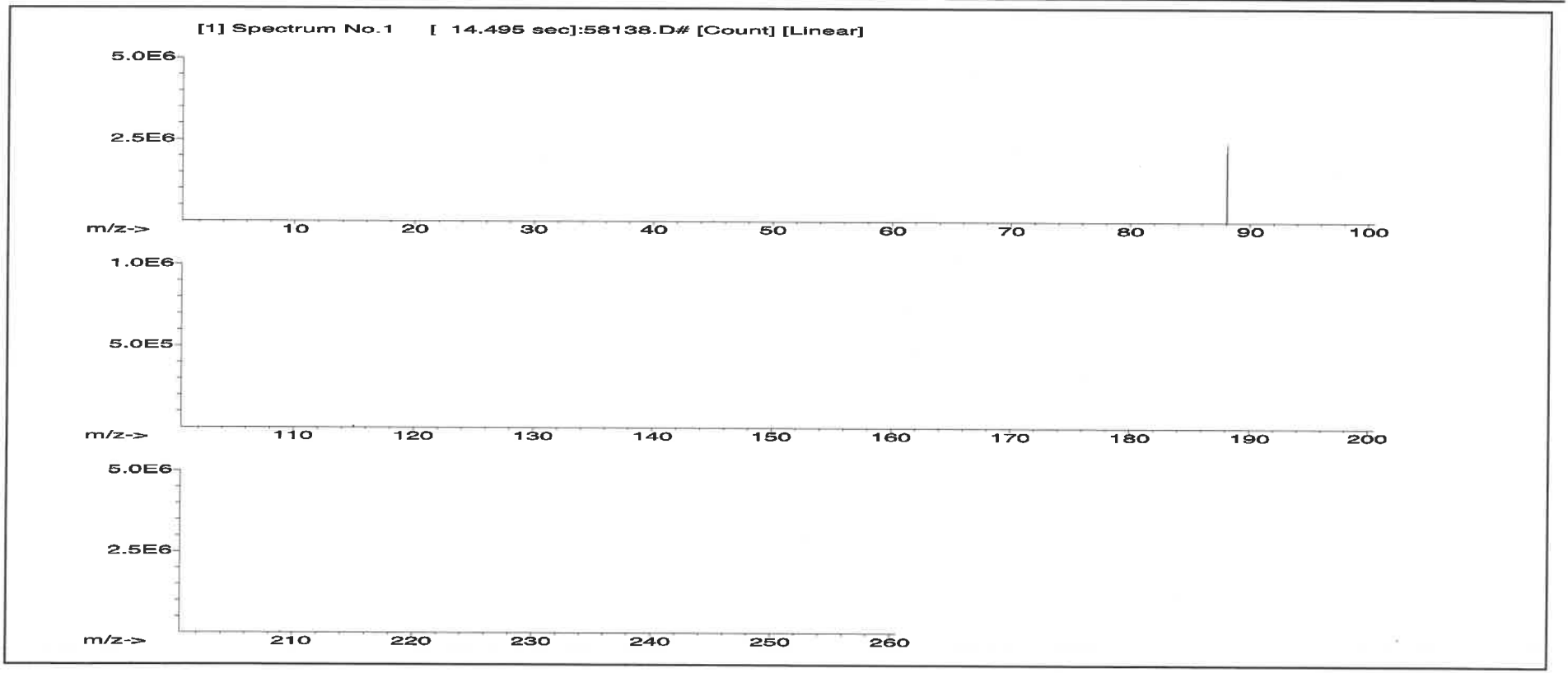
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

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. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/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:

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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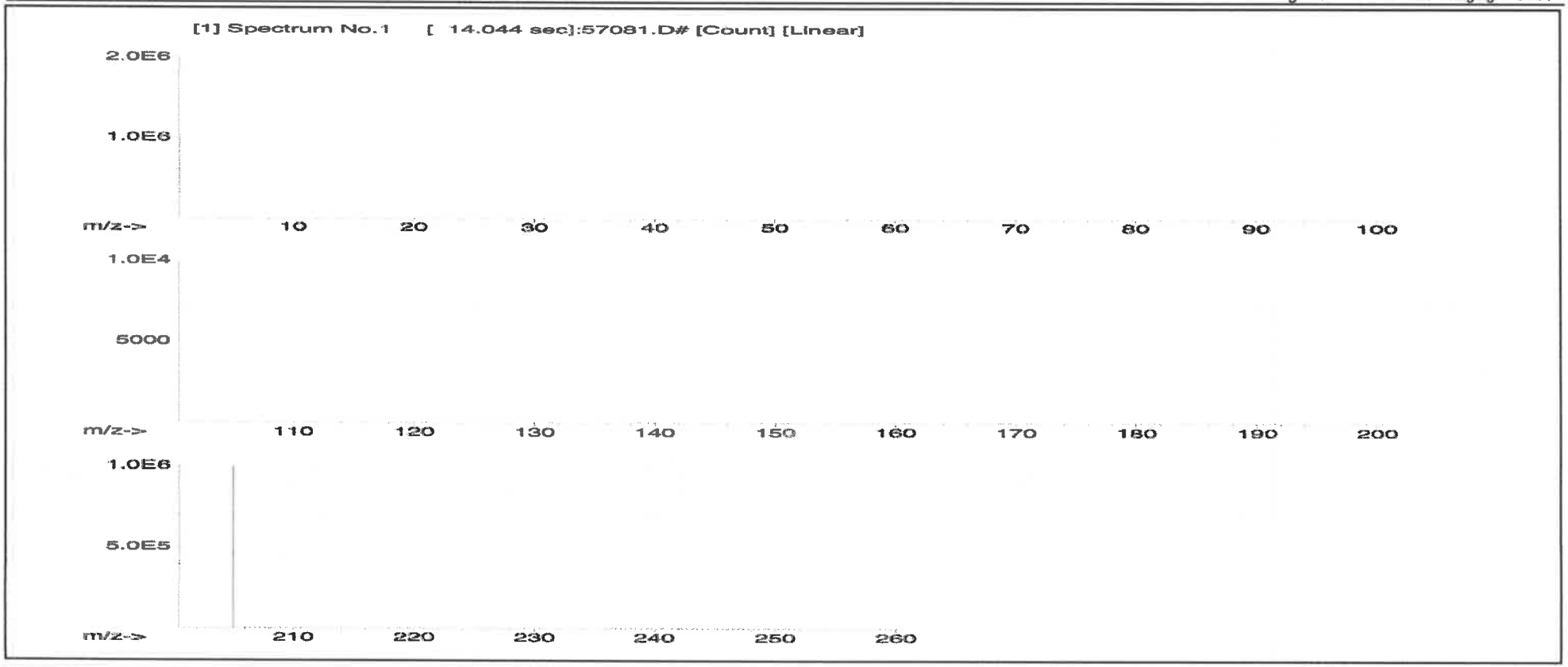
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
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):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

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. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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	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:

* 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

M6021

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AR-1539 Certificate Number
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Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
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):	2000.3	0.06	Flask Uncertainty	

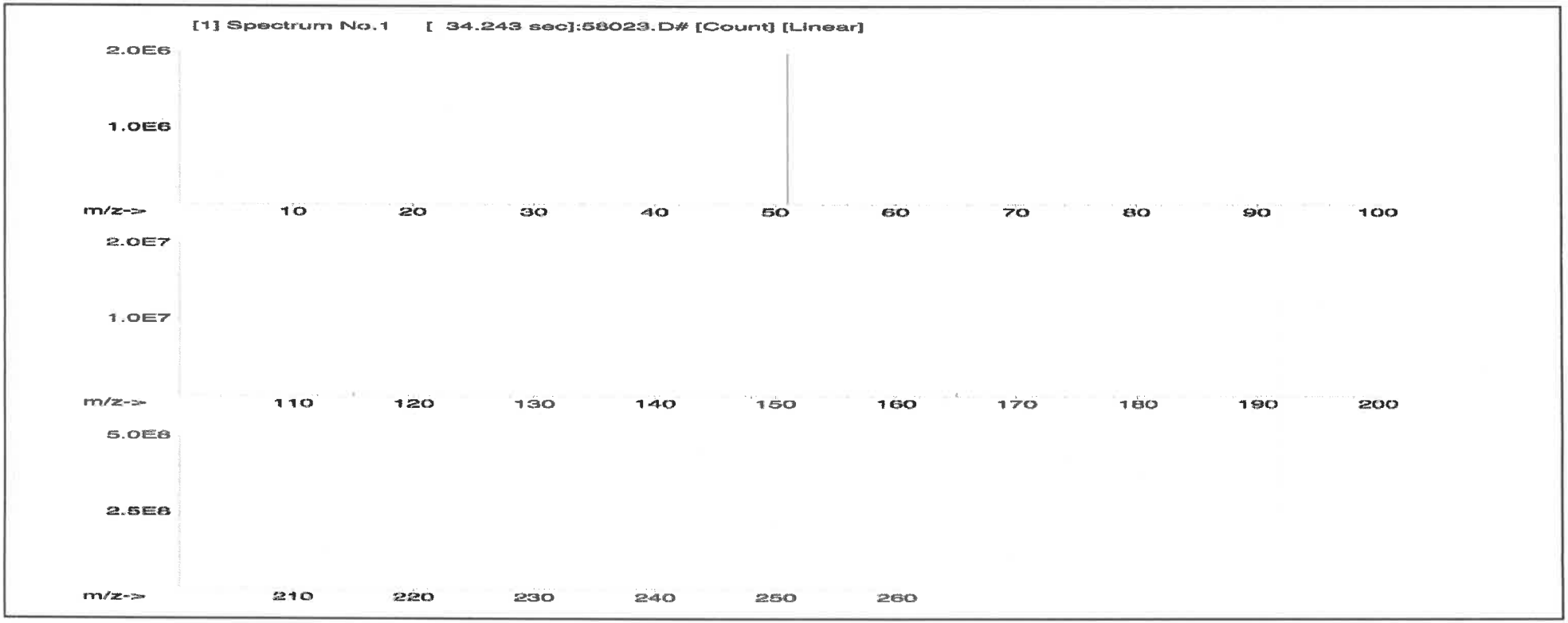
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

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	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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	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:

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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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. Q1194
COC Number 2041522

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Abrams Ave
CITY Audubon STATE: PA ZIP: 19403
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Replacement of SB
PROJECT NO.: 50000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bemsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Beasley PHONE: 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOCs + 10
2 TCL PAH
3 TAL Metals
4 EDH
5 Cr(III)
6 Cr(VI)
7
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 A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-110-SB01	S		X	1/25/25	11:33	7		X	X	X	X	X	Y				
2.	B-110-SB02	S		X	1/25/25	13:58	7		X	X	X	X	X	Y				
3.	B-113-SB01	S		X	1/25/25	11:52	7		X	X	X	X	X	Y				
4.	B-113-SB02	S		X	1/25/25	14:44	7		X	X	X	X	X	Y				
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

PRESERVATIVES
COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Dylan C	1-25-25 16:22	1. 1-27-25 0700
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1-C °C
Comments:

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

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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-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1194 PORT06
Client Name : Portal Partners Tri-Venture
Client-Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 1/27/2025 9:35:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 1/27/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1194-01	B-110-SB01	Solid	01/25/2025	11:33					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-02	B-110-SB02	Solid	01/25/2025	13:58					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-03	B-113-SB01	Solid	01/25/2025	11:52					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-04	B-113-SB02	Solid	01/25/2025	14:44					
					VOC-TCLVOA-10		8260D		10 Bus. Days
~~Q1194-08~~	EB	~~Water~~	~~01/25/2025~~	~~00:00~~					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1194-09	FB	Water	01/25/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1194-10	TB	Water	01/25/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

1/27/25

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1194 PORT06	**Order Date :**	1/27/2025 9:35:00 AM	**Project Mgr :**	
Client Name :	Portal Partners Tri-Venture	**Project Name :**	Amtrak Sawtooth Bridges 2	**Report Type :**	NJ Reduced
Client Contact :	Joseph Krupansky	**Receive DateTime :**	1/27/2025 7:00:00 AM	**EDD Type :**	EXCEL NJCLEANUP
Invoice Name :	Portal Partners Tri-Venture	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Joseph Krupansky			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : _____

Date / Time : 1/27/25 1120

Received By : _____

Date / Time : 01/27/25 11:20

Storage Area : VOA Refridgerator Room

Rgt#6
R22
Rgt#5