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

Order ID : Q1936

Project ID : Stan Hope

Client : Saxton Falls Sand and Gravel Co. Inc.

Lab Sample Number	Client Sample Number
Q1936-01	SMALL-PILE-A
Q1936-02	SMALL-PILE-A
Q1936-03	SMALL-PILE-B
Q1936-04	SMALL-PILE-B
Q1936-05	SMALL-PILE-C
Q1936-06	SMALL-PILE-C
Q1936-07	SMALL-PILE-D
Q1936-08	SMALL-PILE-D

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: 5/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Saxton Falls Sand and Gravel Co. Inc.
Project Name: Stan Hope
Project # N/A
Chemtech Project # Q1936
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/01/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, TCL+30/TAL, TPH GC, Trivalent Chromium and VOC-TCLVOA-10. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.

The Duplicate (CLEAN-FILLMSD) analysis met criteria for all samples except for Calcium. Due to chemical interference during digestion process.

The Matrix Spike (CLEAN-FILLMS) analysis met criteria for all samples except for Antimony, Barium, Potassium. Due to sample matrix interference.

The Matrix Spike Duplicate (CLEAN-FILLMSD) analysis met criteria for all samples except for Antimony, Barium, Copper, Potassium. Due to sample matrix interference.

The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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 #: **Q1936**

	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: **PRATIK PATEL** **Date:** **05/11/2025**

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LAB CHRONICLE

OrderID:	Q1936	**OrderDate:**	5/1/2025 2:00:17 PM
Client:	Saxton Falls Sand and Gravel Co. Inc.	**Project:**	Stan Hope
Contact:	Rich Schindelar	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1936-01	**SMALL-PILE-A**	**SOIL**			**05/01/25**			**05/01/25**
			Mercury	7471B		05/05/25	05/06/25	
			Metals ICP-TAL	6010D		05/05/25	05/07/25	
Q1936-03	**SMALL-PILE-B**	**SOIL**			**05/01/25**			**05/01/25**
			Mercury	7471B		05/05/25	05/06/25	
			Metals ICP-TAL	6010D		05/05/25	05/07/25	
Q1936-05	**SMALL-PILE-C**	**SOIL**			**05/01/25**			**05/01/25**
			Mercury	7471B		05/05/25	05/06/25	
			Metals ICP-TAL	6010D		05/05/25	05/07/25	
Q1936-07	**SMALL-PILE-D**	**SOIL**			**05/01/25**			**05/01/25**
			Mercury	7471B		05/05/25	05/06/25	
			Metals ICP-TAL	6010D		05/05/25	05/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1936 **Order ID:** Q1936

Client: Saxton Falls Sand and Gravel Co. Inc. **Project ID:** Stan Hope

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : SMALL-PILE-A								
Q1936-01	SMALL-PILE-A	SOIL	Aluminum	3440		0.78	4.67	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Arsenic	1.35		0.18	0.93	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Barium	24.1		0.68	4.67	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Beryllium	0.99		0.023	0.28	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Cadmium	4.57		0.022	0.28	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Calcium	1030		10.4	93.3	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Chromium	0.34	J	0.044	0.47	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Cobalt	15.7		0.093	1.40	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Copper	48.5		0.21	0.93	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Iron	10600		3.72	4.67	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Lead	5.21		0.12	0.56	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Magnesium	636		11.2	93.3	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Manganese	509		0.13	0.93	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Nickel	8.02		0.12	1.87	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Potassium	141		25.9	93.3	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Sodium	20.3	J	16.6	93.3	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Thallium	0.39	J	0.22	1.87	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Vanadium	3.17		0.23	1.87	mg/Kg
Q1936-01	SMALL-PILE-A	SOIL	Zinc	42.4		0.22	1.87	mg/Kg
Client ID : SMALL-PILE-B								
Q1936-03	SMALL-PILE-B	SOIL	Aluminum	3610		0.88	5.25	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Arsenic	1.38		0.20	1.05	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Barium	19.2		0.77	5.25	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Beryllium	0.93		0.026	0.32	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Cadmium	3.32		0.025	0.32	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Calcium	864		11.7	105	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Chromium	0.65		0.049	0.53	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Cobalt	14.7		0.11	1.58	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Copper	41.6		0.23	1.05	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Iron	11800		4.19	5.25	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Lead	5.45		0.14	0.63	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Magnesium	459		12.6	105	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Manganese	278		0.15	1.05	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Mercury	0.010	J	0.0070	0.013	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Nickel	5.12		0.14	2.10	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Potassium	162		29.1	105	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Sodium	28.6	J	18.7	105	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1936 **Order ID:** Q1936

Client: Saxton Falls Sand and Gravel Co. Inc. **Project ID:** Stan Hope

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1936-03	SMALL-PILE-B	SOIL	Vanadium	3.71		0.26	2.10	mg/Kg
Q1936-03	SMALL-PILE-B	SOIL	Zinc	19.5		0.24	2.10	mg/Kg
Client ID :	**SMALL-PILE-C**							
Q1936-05	SMALL-PILE-C	SOIL	Aluminum	4580		0.78	4.66	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Arsenic	1.29		0.18	0.93	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Barium	26.7		0.68	4.66	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Beryllium	0.77		0.023	0.28	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Cadmium	0.87		0.022	0.28	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Calcium	778		10.3	93.1	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Chromium	1.97		0.044	0.47	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Cobalt	6.59		0.093	1.40	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Copper	22.5		0.21	0.93	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Iron	13300		3.71	4.66	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Lead	2.87		0.12	0.56	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Magnesium	745		11.2	93.1	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Manganese	282		0.13	0.93	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Mercury	0.0090	J	0.0070	0.013	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Nickel	4.35		0.12	1.86	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Potassium	285		25.8	93.1	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Silver	0.23	J	0.11	0.47	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Sodium	52.7	J	16.6	93.1	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Thallium	0.35	J	0.21	1.86	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Vanadium	6.89		0.23	1.86	mg/Kg
Q1936-05	SMALL-PILE-C	SOIL	Zinc	24.3		0.21	1.86	mg/Kg
Client ID :	**SMALL-PILE-D**							
Q1936-07	SMALL-PILE-D	SOIL	Aluminum	4620		0.84	4.98	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Arsenic	1.57		0.19	1.00	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Barium	37.0		0.73	4.98	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Beryllium	1.00		0.025	0.30	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Cadmium	3.49		0.024	0.30	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Calcium	1170		11.1	99.7	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Chromium	0.52		0.047	0.50	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Cobalt	9.36		0.10	1.50	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Copper	46.9		0.22	1.00	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Iron	19100		3.98	4.98	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Lead	3.84		0.13	0.60	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Magnesium	507		12.0	99.7	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Manganese	570		0.14	1.00	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Nickel	3.16		0.13	1.99	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1936 **Order ID:** Q1936

Client: Saxton Falls Sand and Gravel Co. Inc. **Project ID:** Stan Hope

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1936-07	SMALL-PILE-D	SOIL	Potassium	170		27.6	99.7	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Silver	0.18	J	0.12	0.50	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Sodium	33.3	J	17.7	99.7	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Thallium	1.24	J	0.23	1.99	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Vanadium	5.96		0.25	1.99	mg/Kg
Q1936-07	SMALL-PILE-D	SOIL	Zinc	33.8		0.23	1.99	mg/Kg



SAMPLE DATA

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Report of Analysis

Client:	Saxton Falls Sand and Gravel Co. Inc.	Date Collected:	05/01/25
Project:	Stan Hope	Date Received:	05/01/25
Client Sample ID:	SMALL-PILE-A	SDG No.:	Q1936
Lab Sample ID:	Q1936-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3440		1	0.78	4.67	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.33	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-38-2	Arsenic	1.35		1	0.18	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-39-3	Barium	24.1	N	1	0.68	4.67	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-41-7	Beryllium	0.99		1	0.023	0.28	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-43-9	Cadmium	4.57		1	0.022	0.28	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-70-2	Calcium	1030	*	1	10.4	93.3	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-47-3	Chromium	0.34	J	1	0.044	0.47	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-48-4	Cobalt	15.7		1	0.093	1.40	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-50-8	Copper	48.5	N	1	0.21	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7439-89-6	Iron	10600		1	3.72	4.67	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7439-92-1	Lead	5.21		1	0.12	0.56	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7439-95-4	Magnesium	636		1	11.2	93.3	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7439-96-5	Manganese	509		1	0.13	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	05/05/25 14:40	05/06/25 10:51	SW7471B	
7440-02-0	Nickel	8.02		1	0.12	1.87	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-09-7	Potassium	141	N	1	25.9	93.3	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7782-49-2	Selenium	0.24	U	1	0.24	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-22-4	Silver	0.11	U	1	0.11	0.47	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-23-5	Sodium	20.3	J	1	16.6	93.3	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-28-0	Thallium	0.39	J	1	0.22	1.87	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-62-2	Vanadium	3.17		1	0.23	1.87	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050
7440-66-6	Zinc	42.4		1	0.22	1.87	mg/Kg	05/05/25 10:15	05/07/25 16:30	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	TCL+30/TAL				

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

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

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Report of Analysis

Client:	Saxton Falls Sand and Gravel Co. Inc.	Date Collected:	05/01/25
Project:	Stan Hope	Date Received:	05/01/25
Client Sample ID:	SMALL-PILE-B	SDG No.:	Q1936
Lab Sample ID:	Q1936-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3610		1	0.88	5.25	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.63	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-38-2	Arsenic	1.38		1	0.20	1.05	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-39-3	Barium	19.2	N	1	0.77	5.25	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-41-7	Beryllium	0.93		1	0.026	0.32	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-43-9	Cadmium	3.32		1	0.025	0.32	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-70-2	Calcium	864	*	1	11.7	105	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-47-3	Chromium	0.65		1	0.049	0.53	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-48-4	Cobalt	14.7		1	0.11	1.58	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-50-8	Copper	41.6	N	1	0.23	1.05	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7439-89-6	Iron	11800		1	4.19	5.25	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7439-92-1	Lead	5.45		1	0.14	0.63	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7439-95-4	Magnesium	459		1	12.6	105	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7439-96-5	Manganese	278		1	0.15	1.05	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7439-97-6	Mercury	0.010	J	1	0.0070	0.013	mg/Kg	05/05/25 14:40	05/06/25 11:00	SW7471B	
7440-02-0	Nickel	5.12		1	0.14	2.10	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-09-7	Potassium	162	N	1	29.1	105	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.05	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.53	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-23-5	Sodium	28.6	J	1	18.7	105	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-62-2	Vanadium	3.71		1	0.26	2.10	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050
7440-66-6	Zinc	19.5		1	0.24	2.10	mg/Kg	05/05/25 10:15	05/07/25 16:35	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	TCL+30/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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Saxton Falls Sand and Gravel Co. Inc.	Date Collected:	05/01/25
Project:	Stan Hope	Date Received:	05/01/25
Client Sample ID:	SMALL-PILE-C	SDG No.:	Q1936
Lab Sample ID:	Q1936-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	97.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4580		1	0.78	4.66	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.33	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-38-2	Arsenic	1.29		1	0.18	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-39-3	Barium	26.7	N	1	0.68	4.66	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-41-7	Beryllium	0.77		1	0.023	0.28	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-43-9	Cadmium	0.87		1	0.022	0.28	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-70-2	Calcium	778	*	1	10.3	93.1	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-47-3	Chromium	1.97		1	0.044	0.47	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-48-4	Cobalt	6.59		1	0.093	1.40	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-50-8	Copper	22.5	N	1	0.21	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7439-89-6	Iron	13300		1	3.71	4.66	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7439-92-1	Lead	2.87		1	0.12	0.56	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7439-95-4	Magnesium	745		1	11.2	93.1	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7439-96-5	Manganese	282		1	0.13	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7439-97-6	Mercury	0.0090	J	1	0.0070	0.013	mg/Kg	05/05/25 14:40	05/06/25 11:07	SW7471B	
7440-02-0	Nickel	4.35		1	0.12	1.86	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-09-7	Potassium	285	N	1	25.8	93.1	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7782-49-2	Selenium	0.24	U	1	0.24	0.93	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-22-4	Silver	0.23	J	1	0.11	0.47	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-23-5	Sodium	52.7	J	1	16.6	93.1	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-28-0	Thallium	0.35	J	1	0.21	1.86	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-62-2	Vanadium	6.89		1	0.23	1.86	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050
7440-66-6	Zinc	24.3		1	0.21	1.86	mg/Kg	05/05/25 10:15	05/07/25 16:39	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	TCL+30/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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Saxton Falls Sand and Gravel Co. Inc.	Date Collected:	05/01/25
Project:	Stan Hope	Date Received:	05/01/25
Client Sample ID:	SMALL-PILE-D	SDG No.:	Q1936
Lab Sample ID:	Q1936-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4620		1	0.84	4.98	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.49	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-38-2	Arsenic	1.57		1	0.19	1.00	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-39-3	Barium	37.0	N	1	0.73	4.98	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-41-7	Beryllium	1.00		1	0.025	0.30	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-43-9	Cadmium	3.49		1	0.024	0.30	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-70-2	Calcium	1170	*	1	11.1	99.7	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-47-3	Chromium	0.52		1	0.047	0.50	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-48-4	Cobalt	9.36		1	0.10	1.50	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-50-8	Copper	46.9	N	1	0.22	1.00	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7439-89-6	Iron	19100		1	3.98	4.98	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7439-92-1	Lead	3.84		1	0.13	0.60	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7439-95-4	Magnesium	507		1	12.0	99.7	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7439-96-5	Manganese	570		1	0.14	1.00	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	05/05/25 14:40	05/06/25 11:09	SW7471B	
7440-02-0	Nickel	3.16		1	0.13	1.99	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-09-7	Potassium	170	N	1	27.6	99.7	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.00	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-22-4	Silver	0.18	J	1	0.12	0.50	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-23-5	Sodium	33.3	J	1	17.7	99.7	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-28-0	Thallium	1.24	J	1	0.23	1.99	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-62-2	Vanadium	5.96		1	0.25	1.99	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050
7440-66-6	Zinc	33.8		1	0.23	1.99	mg/Kg	05/05/25 10:15	05/07/25 16:43	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	TCL+30/TAL				

U = Not Detected
LOQ = Limit of Quantitation
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METAL CALIBRATION DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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
ICV117	Mercury	4.06	4.0	102	90 - 110	CV	05/06/2025	10:25	LB135678

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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
CCV82	Mercury	5.06	5.0	101	90 - 110	CV	05/06/2025	10:30	LB135678
CCV83	Mercury	5.02	5.0	100	90 - 110	CV	05/06/2025	11:03	LB135678
CCV84	Mercury	5.19	5.0	104	90 - 110	CV	05/06/2025	11:30	LB135678
CCV85	Mercury	5.00	5.0	100	90 - 110	CV	05/06/2025	11:57	LB135678

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	2310	2500	92	90 - 110	P	05/07/2025	12:59	LB135699
	Antimony	965	1000	96	90 - 110	P	05/07/2025	12:59	LB135699
	Arsenic	968	1000	97	90 - 110	P	05/07/2025	12:59	LB135699
	Barium	534	520	103	90 - 110	P	05/07/2025	12:59	LB135699
	Beryllium	515	510	101	90 - 110	P	05/07/2025	12:59	LB135699
	Cadmium	501	510	98	90 - 110	P	05/07/2025	12:59	LB135699
	Calcium	9400	10000	94	90 - 110	P	05/07/2025	12:59	LB135699
	Chromium	503	520	97	90 - 110	P	05/07/2025	12:59	LB135699
	Cobalt	488	520	94	90 - 110	P	05/07/2025	12:59	LB135699
	Copper	495	510	97	90 - 110	P	05/07/2025	12:59	LB135699
	Iron	11000	10000	110	90 - 110	P	05/07/2025	12:59	LB135699
	Lead	980	1000	98	90 - 110	P	05/07/2025	12:59	LB135699
	Magnesium	5440	6000	91	90 - 110	P	05/07/2025	12:59	LB135699
	Manganese	488	520	94	90 - 110	P	05/07/2025	12:59	LB135699
	Nickel	492	530	93	90 - 110	P	05/07/2025	12:59	LB135699
	Potassium	10600	9900	107	90 - 110	P	05/07/2025	12:59	LB135699
	Selenium	996	1000	100	90 - 110	P	05/07/2025	12:59	LB135699
	Silver	231	250	93	90 - 110	P	05/07/2025	12:59	LB135699
	Sodium	10100	10000	101	90 - 110	P	05/07/2025	12:59	LB135699
	Thallium	1020	1000	102	90 - 110	P	05/07/2025	12:59	LB135699
	Vanadium	466	500	93	90 - 110	P	05/07/2025	12:59	LB135699
	Zinc	970	1000	97	90 - 110	P	05/07/2025	12:59	LB135699

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	101	100	101	80 - 120	P	05/07/2025	13:05	LB135699
	Antimony	50.9	50.0	102	80 - 120	P	05/07/2025	13:05	LB135699
	Arsenic	19.8	20.0	99	80 - 120	P	05/07/2025	13:05	LB135699
	Barium	86.9	100	87	80 - 120	P	05/07/2025	13:05	LB135699
	Beryllium	5.69	6.0	95	80 - 120	P	05/07/2025	13:05	LB135699
	Cadmium	6.10	6.0	102	80 - 120	P	05/07/2025	13:05	LB135699
	Calcium	1950	2000	97	80 - 120	P	05/07/2025	13:05	LB135699
	Chromium	9.59	10.0	96	80 - 120	P	05/07/2025	13:05	LB135699
	Cobalt	28.7	30.0	96	80 - 120	P	05/07/2025	13:05	LB135699
	Copper	21.5	20.0	108	80 - 120	P	05/07/2025	13:05	LB135699
	Iron	97.0	100	97	80 - 120	P	05/07/2025	13:05	LB135699
	Lead	12.8	12.0	106	80 - 120	P	05/07/2025	13:05	LB135699
	Magnesium	2040	2000	102	80 - 120	P	05/07/2025	13:05	LB135699
	Manganese	22.5	20.0	113	80 - 120	P	05/07/2025	13:05	LB135699
	Nickel	38.9	40.0	97	80 - 120	P	05/07/2025	13:05	LB135699
	Potassium	1880	2000	94	80 - 120	P	05/07/2025	13:05	LB135699
	Selenium	18.3	20.0	91	80 - 120	P	05/07/2025	13:05	LB135699
	Silver	10.3	10.0	103	80 - 120	P	05/07/2025	13:05	LB135699
	Sodium	1790	2000	89	80 - 120	P	05/07/2025	13:05	LB135699
	Thallium	43.2	40.0	108	80 - 120	P	05/07/2025	13:05	LB135699
	Vanadium	40.8	40.0	102	80 - 120	P	05/07/2025	13:05	LB135699
	Zinc	41.0	40.0	102	80 - 120	P	05/07/2025	13:05	LB135699

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	101	90 - 110	P	05/07/2025	13:39	LB135699
	Antimony	5020	5000	100	90 - 110	P	05/07/2025	13:39	LB135699
	Arsenic	5080	5000	102	90 - 110	P	05/07/2025	13:39	LB135699
	Barium	9770	10000	98	90 - 110	P	05/07/2025	13:39	LB135699
	Beryllium	267	250	107	90 - 110	P	05/07/2025	13:39	LB135699
	Cadmium	2570	2500	103	90 - 110	P	05/07/2025	13:39	LB135699
	Calcium	25600	25000	102	90 - 110	P	05/07/2025	13:39	LB135699
	Chromium	1050	1000	104	90 - 110	P	05/07/2025	13:39	LB135699
	Cobalt	2550	2500	102	90 - 110	P	05/07/2025	13:39	LB135699
	Copper	1280	1250	102	90 - 110	P	05/07/2025	13:39	LB135699
	Iron	4960	5000	99	90 - 110	P	05/07/2025	13:39	LB135699
	Lead	5150	5000	103	90 - 110	P	05/07/2025	13:39	LB135699
	Magnesium	25600	25000	102	90 - 110	P	05/07/2025	13:39	LB135699
	Manganese	2520	2500	101	90 - 110	P	05/07/2025	13:39	LB135699
	Nickel	2570	2500	103	90 - 110	P	05/07/2025	13:39	LB135699
	Potassium	24200	25000	97	90 - 110	P	05/07/2025	13:39	LB135699
	Selenium	5050	5000	101	90 - 110	P	05/07/2025	13:39	LB135699
	Silver	1280	1250	102	90 - 110	P	05/07/2025	13:39	LB135699
	Sodium	23900	25000	96	90 - 110	P	05/07/2025	13:39	LB135699
	Thallium	5090	5000	102	90 - 110	P	05/07/2025	13:39	LB135699
	Vanadium	2530	2500	101	90 - 110	P	05/07/2025	13:39	LB135699
	Zinc	2540	2500	102	90 - 110	P	05/07/2025	13:39	LB135699
CCV02	Aluminum	10100	10000	102	90 - 110	P	05/07/2025	14:35	LB135699
	Antimony	5040	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Arsenic	5050	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Barium	10000	10000	100	90 - 110	P	05/07/2025	14:35	LB135699
	Beryllium	260	250	104	90 - 110	P	05/07/2025	14:35	LB135699
	Cadmium	2490	2500	100	90 - 110	P	05/07/2025	14:35	LB135699
	Calcium	24900	25000	100	90 - 110	P	05/07/2025	14:35	LB135699
	Chromium	1020	1000	102	90 - 110	P	05/07/2025	14:35	LB135699
	Cobalt	2490	2500	100	90 - 110	P	05/07/2025	14:35	LB135699
	Copper	1270	1250	101	90 - 110	P	05/07/2025	14:35	LB135699
	Iron	4870	5000	97	90 - 110	P	05/07/2025	14:35	LB135699
	Lead	5030	5000	101	90 - 110	P	05/07/2025	14:35	LB135699

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24800	25000	99	90 - 110	P	05/07/2025	14:35	LB135699
	Manganese	2470	2500	99	90 - 110	P	05/07/2025	14:35	LB135699
	Nickel	2500	2500	100	90 - 110	P	05/07/2025	14:35	LB135699
	Potassium	24200	25000	97	90 - 110	P	05/07/2025	14:35	LB135699
	Selenium	5040	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Silver	1270	1250	101	90 - 110	P	05/07/2025	14:35	LB135699
	Sodium	24100	25000	96	90 - 110	P	05/07/2025	14:35	LB135699
	Thallium	5120	5000	102	90 - 110	P	05/07/2025	14:35	LB135699
	Vanadium	2490	2500	100	90 - 110	P	05/07/2025	14:35	LB135699
	Zinc	2540	2500	102	90 - 110	P	05/07/2025	14:35	LB135699
CCV03	Aluminum	9790	10000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Antimony	4870	5000	97	90 - 110	P	05/07/2025	15:23	LB135699
	Arsenic	4880	5000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Barium	9500	10000	95	90 - 110	P	05/07/2025	15:23	LB135699
	Beryllium	256	250	102	90 - 110	P	05/07/2025	15:23	LB135699
	Cadmium	2420	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Calcium	24500	25000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Chromium	993	1000	99	90 - 110	P	05/07/2025	15:23	LB135699
	Cobalt	2420	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Copper	1220	1250	98	90 - 110	P	05/07/2025	15:23	LB135699
	Iron	4820	5000	96	90 - 110	P	05/07/2025	15:23	LB135699
	Lead	4870	5000	97	90 - 110	P	05/07/2025	15:23	LB135699
	Magnesium	24500	25000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Manganese	2430	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Nickel	2430	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Potassium	23400	25000	94	90 - 110	P	05/07/2025	15:23	LB135699
	Selenium	4900	5000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Silver	1230	1250	98	90 - 110	P	05/07/2025	15:23	LB135699
	Sodium	23100	25000	92	90 - 110	P	05/07/2025	15:23	LB135699
	Thallium	5080	5000	102	90 - 110	P	05/07/2025	15:23	LB135699
	Vanadium	2430	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Zinc	2450	2500	98	90 - 110	P	05/07/2025	15:23	LB135699
CCV04	Aluminum	9600	10000	96	90 - 110	P	05/07/2025	16:05	LB135699
	Antimony	4860	5000	97	90 - 110	P	05/07/2025	16:05	LB135699

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/07/2025	16:05	LB135699
	Barium	9490	10000	95	90 - 110	P	05/07/2025	16:05	LB135699
	Beryllium	236	250	94	90 - 110	P	05/07/2025	16:05	LB135699
	Cadmium	2400	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
	Calcium	24100	25000	96	90 - 110	P	05/07/2025	16:05	LB135699
	Chromium	968	1000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Cobalt	2400	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
	Copper	1220	1250	97	90 - 110	P	05/07/2025	16:05	LB135699
	Iron	4800	5000	96	90 - 110	P	05/07/2025	16:05	LB135699
	Lead	4840	5000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Magnesium	23700	25000	95	90 - 110	P	05/07/2025	16:05	LB135699
	Manganese	2380	2500	95	90 - 110	P	05/07/2025	16:05	LB135699
	Nickel	2410	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
	Potassium	23300	25000	93	90 - 110	P	05/07/2025	16:05	LB135699
	Selenium	4860	5000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Silver	1180	1250	95	90 - 110	P	05/07/2025	16:05	LB135699
	Sodium	23000	25000	92	90 - 110	P	05/07/2025	16:05	LB135699
	Thallium	5120	5000	102	90 - 110	P	05/07/2025	16:05	LB135699
	Vanadium	2410	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
	Zinc	2390	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
CCV05	Aluminum	9820	10000	98	90 - 110	P	05/07/2025	16:47	LB135699
	Antimony	5170	5000	103	90 - 110	P	05/07/2025	16:47	LB135699
	Arsenic	5140	5000	103	90 - 110	P	05/07/2025	16:47	LB135699
	Barium	9560	10000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Beryllium	233	250	93	90 - 110	P	05/07/2025	16:47	LB135699
	Cadmium	2360	2500	95	90 - 110	P	05/07/2025	16:47	LB135699
	Calcium	23500	25000	94	90 - 110	P	05/07/2025	16:47	LB135699
	Chromium	965	1000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Cobalt	2390	2500	95	90 - 110	P	05/07/2025	16:47	LB135699
	Copper	1280	1250	102	90 - 110	P	05/07/2025	16:47	LB135699
	Iron	4960	5000	99	90 - 110	P	05/07/2025	16:47	LB135699
	Lead	4800	5000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Magnesium	22800	25000	91	90 - 110	P	05/07/2025	16:47	LB135699
	Manganese	2330	2500	93	90 - 110	P	05/07/2025	16:47	LB135699

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	2410	2500	96	90 - 110	P	05/07/2025	16:47	LB135699
	Potassium	25000	25000	100	90 - 110	P	05/07/2025	16:47	LB135699
	Selenium	5200	5000	104	90 - 110	P	05/07/2025	16:47	LB135699
	Silver	1220	1250	98	90 - 110	P	05/07/2025	16:47	LB135699
	Sodium	24900	25000	100	90 - 110	P	05/07/2025	16:47	LB135699
	Thallium	5060	5000	101	90 - 110	P	05/07/2025	16:47	LB135699
	Vanadium	2400	2500	96	90 - 110	P	05/07/2025	16:47	LB135699
	Zinc	2480	2500	99	90 - 110	P	05/07/2025	16:47	LB135699

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	2380	2500	95	90 - 110	P	05/09/2025	12:48	LB135724
	Antimony	1010	1000	102	90 - 110	P	05/09/2025	12:48	LB135724
	Arsenic	989	1000	99	90 - 110	P	05/09/2025	12:48	LB135724
	Barium	523	520	100	90 - 110	P	05/09/2025	12:48	LB135724
	Beryllium	470	510	92	90 - 110	P	05/09/2025	12:48	LB135724
	Cadmium	493	510	97	90 - 110	P	05/09/2025	12:48	LB135724
	Calcium	9210	10000	92	90 - 110	P	05/09/2025	12:48	LB135724
	Chromium	488	520	94	90 - 110	P	05/09/2025	12:48	LB135724
	Cobalt	483	520	93	90 - 110	P	05/09/2025	12:48	LB135724
	Copper	503	510	99	90 - 110	P	05/09/2025	12:48	LB135724
	Iron	9320	10000	93	90 - 110	P	05/09/2025	12:48	LB135724
	Lead	962	1000	96	90 - 110	P	05/09/2025	12:48	LB135724
	Magnesium	5450	6000	91	90 - 110	P	05/09/2025	12:48	LB135724
	Manganese	480	520	92	90 - 110	P	05/09/2025	12:48	LB135724
	Nickel	486	530	92	90 - 110	P	05/09/2025	12:48	LB135724
	Potassium	10200	9900	103	90 - 110	P	05/09/2025	12:48	LB135724
	Selenium	1040	1000	104	90 - 110	P	05/09/2025	12:48	LB135724
	Silver	228	250	91	90 - 110	P	05/09/2025	12:48	LB135724
	Sodium	10100	10000	100	90 - 110	P	05/09/2025	12:48	LB135724
	Thallium	996	1000	100	90 - 110	P	05/09/2025	12:48	LB135724
	Vanadium	468	500	94	90 - 110	P	05/09/2025	12:48	LB135724
	Zinc	977	1000	98	90 - 110	P	05/09/2025	12:48	LB135724

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	94.2	100	94	80 - 120	P	05/09/2025	13:12	LB135724
	Antimony	50.6	50.0	101	80 - 120	P	05/09/2025	13:12	LB135724
	Arsenic	20.6	20.0	103	80 - 120	P	05/09/2025	13:12	LB135724
	Barium	90.2	100	90	80 - 120	P	05/09/2025	13:12	LB135724
	Beryllium	5.78	6.0	96	80 - 120	P	05/09/2025	13:12	LB135724
	Cadmium	5.93	6.0	99	80 - 120	P	05/09/2025	13:12	LB135724
	Calcium	1930	2000	96	80 - 120	P	05/09/2025	13:12	LB135724
	Chromium	9.52	10.0	95	80 - 120	P	05/09/2025	13:12	LB135724
	Cobalt	28.1	30.0	94	80 - 120	P	05/09/2025	13:12	LB135724
	Copper	20.8	20.0	104	80 - 120	P	05/09/2025	13:12	LB135724
	Iron	88.1	100	88	80 - 120	P	05/09/2025	13:12	LB135724
	Lead	11.1	12.0	92	80 - 120	P	05/09/2025	13:12	LB135724
	Magnesium	2030	2000	102	80 - 120	P	05/09/2025	13:12	LB135724
	Manganese	19.5	20.0	98	80 - 120	P	05/09/2025	13:12	LB135724
	Nickel	38.0	40.0	95	80 - 120	P	05/09/2025	13:12	LB135724
	Potassium	1740	2000	87	80 - 120	P	05/09/2025	13:12	LB135724
	Selenium	23.6	20.0	118	80 - 120	P	05/09/2025	13:12	LB135724
	Silver	9.67	10.0	97	80 - 120	P	05/09/2025	13:12	LB135724
	Sodium	1730	2000	86	80 - 120	P	05/09/2025	13:12	LB135724
	Thallium	42.9	40.0	107	80 - 120	P	05/09/2025	13:12	LB135724
	Vanadium	36.0	40.0	90	80 - 120	P	05/09/2025	13:12	LB135724
	Zinc	40.1	40.0	100	80 - 120	P	05/09/2025	13:12	LB135724

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	10400	10000	104	90 - 110	P	05/09/2025	14:11	LB135724
	Antimony	5290	5000	106	90 - 110	P	05/09/2025	14:11	LB135724
	Arsenic	5220	5000	104	90 - 110	P	05/09/2025	14:11	LB135724
	Barium	10500	10000	105	90 - 110	P	05/09/2025	14:11	LB135724
	Beryllium	255	250	102	90 - 110	P	05/09/2025	14:11	LB135724
	Cadmium	2530	2500	101	90 - 110	P	05/09/2025	14:11	LB135724
	Calcium	25700	25000	103	90 - 110	P	05/09/2025	14:11	LB135724
	Chromium	1030	1000	103	90 - 110	P	05/09/2025	14:11	LB135724
	Cobalt	2540	2500	102	90 - 110	P	05/09/2025	14:11	LB135724
	Copper	1300	1250	104	90 - 110	P	05/09/2025	14:11	LB135724
	Iron	5340	5000	107	90 - 110	P	05/09/2025	14:11	LB135724
	Lead	5140	5000	103	90 - 110	P	05/09/2025	14:11	LB135724
	Magnesium	25200	25000	101	90 - 110	P	05/09/2025	14:11	LB135724
	Manganese	2560	2500	102	90 - 110	P	05/09/2025	14:11	LB135724
	Nickel	2560	2500	102	90 - 110	P	05/09/2025	14:11	LB135724
	Potassium	25800	25000	103	90 - 110	P	05/09/2025	14:11	LB135724
	Selenium	5290	5000	106	90 - 110	P	05/09/2025	14:11	LB135724
	Silver	1290	1250	103	90 - 110	P	05/09/2025	14:11	LB135724
	Sodium	26100	25000	104	90 - 110	P	05/09/2025	14:11	LB135724
	Thallium	5110	5000	102	90 - 110	P	05/09/2025	14:11	LB135724
	Vanadium	2590	2500	104	90 - 110	P	05/09/2025	14:11	LB135724
	Zinc	2610	2500	105	90 - 110	P	05/09/2025	14:11	LB135724
CCV02	Aluminum	9740	10000	97	90 - 110	P	05/09/2025	14:59	LB135724
	Antimony	4950	5000	99	90 - 110	P	05/09/2025	14:59	LB135724
	Arsenic	4910	5000	98	90 - 110	P	05/09/2025	14:59	LB135724
	Barium	10100	10000	101	90 - 110	P	05/09/2025	14:59	LB135724
	Beryllium	234	250	93	90 - 110	P	05/09/2025	14:59	LB135724
	Cadmium	2420	2500	97	90 - 110	P	05/09/2025	14:59	LB135724
	Calcium	24500	25000	98	90 - 110	P	05/09/2025	14:59	LB135724
	Chromium	993	1000	99	90 - 110	P	05/09/2025	14:59	LB135724
	Cobalt	2430	2500	97	90 - 110	P	05/09/2025	14:59	LB135724
	Copper	1240	1250	99	90 - 110	P	05/09/2025	14:59	LB135724
	Iron	5260	5000	105	90 - 110	P	05/09/2025	14:59	LB135724
	Lead	4890	5000	98	90 - 110	P	05/09/2025	14:59	LB135724

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	23900	25000	96	90 - 110	P	05/09/2025	14:59	LB135724
	Manganese	2440	2500	98	90 - 110	P	05/09/2025	14:59	LB135724
	Nickel	2440	2500	98	90 - 110	P	05/09/2025	14:59	LB135724
	Potassium	25900	25000	104	90 - 110	P	05/09/2025	14:59	LB135724
	Selenium	4940	5000	99	90 - 110	P	05/09/2025	14:59	LB135724
	Silver	1250	1250	100	90 - 110	P	05/09/2025	14:59	LB135724
	Sodium	26100	25000	104	90 - 110	P	05/09/2025	14:59	LB135724
	Thallium	4860	5000	97	90 - 110	P	05/09/2025	14:59	LB135724
	Vanadium	2460	2500	98	90 - 110	P	05/09/2025	14:59	LB135724
	Zinc	2520	2500	101	90 - 110	P	05/09/2025	14:59	LB135724
CCV03	Aluminum	9840	10000	98	90 - 110	P	05/09/2025	15:50	LB135724
	Antimony	5000	5000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Arsenic	4980	5000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Barium	9900	10000	99	90 - 110	P	05/09/2025	15:50	LB135724
	Beryllium	248	250	99	90 - 110	P	05/09/2025	15:50	LB135724
	Cadmium	2450	2500	98	90 - 110	P	05/09/2025	15:50	LB135724
	Calcium	24400	25000	98	90 - 110	P	05/09/2025	15:50	LB135724
	Chromium	998	1000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Cobalt	2450	2500	98	90 - 110	P	05/09/2025	15:50	LB135724
	Copper	1250	1250	100	90 - 110	P	05/09/2025	15:50	LB135724
	Iron	5010	5000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Lead	4940	5000	99	90 - 110	P	05/09/2025	15:50	LB135724
	Magnesium	24100	25000	97	90 - 110	P	05/09/2025	15:50	LB135724
	Manganese	2440	2500	98	90 - 110	P	05/09/2025	15:50	LB135724
	Nickel	2470	2500	99	90 - 110	P	05/09/2025	15:50	LB135724
	Potassium	24900	25000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Selenium	5020	5000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Silver	1250	1250	100	90 - 110	P	05/09/2025	15:50	LB135724
	Sodium	25000	25000	100	90 - 110	P	05/09/2025	15:50	LB135724
	Thallium	4960	5000	99	90 - 110	P	05/09/2025	15:50	LB135724
	Vanadium	2450	2500	98	90 - 110	P	05/09/2025	15:50	LB135724
	Zinc	2520	2500	101	90 - 110	P	05/09/2025	15:50	LB135724
CCV04	Aluminum	9870	10000	99	90 - 110	P	05/09/2025	16:40	LB135724
	Antimony	4850	5000	97	90 - 110	P	05/09/2025	16:40	LB135724

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	4830	5000	96	90 - 110	P	05/09/2025	16:40	LB135724
	Barium	9670	10000	97	90 - 110	P	05/09/2025	16:40	LB135724
	Beryllium	261	250	104	90 - 110	P	05/09/2025	16:40	LB135724
	Cadmium	2440	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
	Calcium	24600	25000	98	90 - 110	P	05/09/2025	16:40	LB135724
	Chromium	987	1000	99	90 - 110	P	05/09/2025	16:40	LB135724
	Cobalt	2450	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
	Copper	1230	1250	98	90 - 110	P	05/09/2025	16:40	LB135724
	Iron	4670	5000	94	90 - 110	P	05/09/2025	16:40	LB135724
	Lead	4900	5000	98	90 - 110	P	05/09/2025	16:40	LB135724
	Magnesium	24700	25000	99	90 - 110	P	05/09/2025	16:40	LB135724
	Manganese	2450	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
	Nickel	2450	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
	Potassium	23000	25000	92	90 - 110	P	05/09/2025	16:40	LB135724
	Selenium	4810	5000	96	90 - 110	P	05/09/2025	16:40	LB135724
	Silver	1230	1250	98	90 - 110	P	05/09/2025	16:40	LB135724
	Sodium	23100	25000	92	90 - 110	P	05/09/2025	16:40	LB135724
	Thallium	4930	5000	98	90 - 110	P	05/09/2025	16:40	LB135724
	Vanadium	2460	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
	Zinc	2460	2500	98	90 - 110	P	05/09/2025	16:40	LB135724
CCV05	Aluminum	9800	10000	98	90 - 110	P	05/09/2025	17:26	LB135724
	Antimony	4930	5000	99	90 - 110	P	05/09/2025	17:26	LB135724
	Arsenic	4940	5000	99	90 - 110	P	05/09/2025	17:26	LB135724
	Barium	10400	10000	104	90 - 110	P	05/09/2025	17:26	LB135724
	Beryllium	242	250	97	90 - 110	P	05/09/2025	17:26	LB135724
	Cadmium	2490	2500	100	90 - 110	P	05/09/2025	17:26	LB135724
	Calcium	25300	25000	101	90 - 110	P	05/09/2025	17:26	LB135724
	Chromium	1010	1000	101	90 - 110	P	05/09/2025	17:26	LB135724
	Cobalt	2490	2500	100	90 - 110	P	05/09/2025	17:26	LB135724
	Copper	1250	1250	100	90 - 110	P	05/09/2025	17:26	LB135724
	Iron	5450	5000	109	90 - 110	P	05/09/2025	17:26	LB135724
	Lead	5000	5000	100	90 - 110	P	05/09/2025	17:26	LB135724
	Magnesium	24700	25000	99	90 - 110	P	05/09/2025	17:26	LB135724
	Manganese	2460	2500	99	90 - 110	P	05/09/2025	17:26	LB135724

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Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	2490	2500	100	90 - 110	P	05/09/2025	17:26	LB135724
	Potassium	25200	25000	101	90 - 110	P	05/09/2025	17:26	LB135724
	Selenium	4930	5000	98	90 - 110	P	05/09/2025	17:26	LB135724
	Silver	1260	1250	101	90 - 110	P	05/09/2025	17:26	LB135724
	Sodium	25600	25000	102	90 - 110	P	05/09/2025	17:26	LB135724
	Thallium	4990	5000	100	90 - 110	P	05/09/2025	17:26	LB135724
	Vanadium	2510	2500	100	90 - 110	P	05/09/2025	17:26	LB135724
	Zinc	2540	2500	102	90 - 110	P	05/09/2025	17:26	LB135724
CCV06	Aluminum	9740	10000	97	90 - 110	P	05/09/2025	18:12	LB135724
	Antimony	4850	5000	97	90 - 110	P	05/09/2025	18:12	LB135724
	Arsenic	4840	5000	97	90 - 110	P	05/09/2025	18:12	LB135724
	Barium	9730	10000	97	90 - 110	P	05/09/2025	18:12	LB135724
	Beryllium	251	250	101	90 - 110	P	05/09/2025	18:12	LB135724
	Cadmium	2450	2500	98	90 - 110	P	05/09/2025	18:12	LB135724
	Calcium	24600	25000	98	90 - 110	P	05/09/2025	18:12	LB135724
	Chromium	1000	1000	100	90 - 110	P	05/09/2025	18:12	LB135724
	Cobalt	2450	2500	98	90 - 110	P	05/09/2025	18:12	LB135724
	Copper	1230	1250	98	90 - 110	P	05/09/2025	18:12	LB135724
	Iron	4830	5000	97	90 - 110	P	05/09/2025	18:12	LB135724
	Lead	4890	5000	98	90 - 110	P	05/09/2025	18:12	LB135724
	Magnesium	24700	25000	99	90 - 110	P	05/09/2025	18:12	LB135724
	Manganese	2490	2500	99	90 - 110	P	05/09/2025	18:12	LB135724
	Nickel	2440	2500	98	90 - 110	P	05/09/2025	18:12	LB135724
	Potassium	23800	25000	95	90 - 110	P	05/09/2025	18:12	LB135724
	Selenium	4820	5000	96	90 - 110	P	05/09/2025	18:12	LB135724
	Silver	1230	1250	98	90 - 110	P	05/09/2025	18:12	LB135724
	Sodium	23300	25000	93	90 - 110	P	05/09/2025	18:12	LB135724
	Thallium	4880	5000	98	90 - 110	P	05/09/2025	18:12	LB135724
	Vanadium	2460	2500	98	90 - 110	P	05/09/2025	18:12	LB135724
	Zinc	2450	2500	98	90 - 110	P	05/09/2025	18:12	LB135724
CCV07	Aluminum	9610	10000	96	90 - 110	P	05/09/2025	18:45	LB135724
	Antimony	4870	5000	97	90 - 110	P	05/09/2025	18:45	LB135724
	Arsenic	4870	5000	97	90 - 110	P	05/09/2025	18:45	LB135724
	Barium	10100	10000	101	90 - 110	P	05/09/2025	18:45	LB135724

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	238	250	95	90 - 110	P	05/09/2025	18:45	LB135724
	Cadmium	2460	2500	99	90 - 110	P	05/09/2025	18:45	LB135724
	Calcium	24700	25000	99	90 - 110	P	05/09/2025	18:45	LB135724
	Chromium	991	1000	99	90 - 110	P	05/09/2025	18:45	LB135724
	Cobalt	2480	2500	99	90 - 110	P	05/09/2025	18:45	LB135724
	Copper	1240	1250	99	90 - 110	P	05/09/2025	18:45	LB135724
	Iron	5250	5000	105	90 - 110	P	05/09/2025	18:45	LB135724
	Lead	4910	5000	98	90 - 110	P	05/09/2025	18:45	LB135724
	Magnesium	24400	25000	98	90 - 110	P	05/09/2025	18:45	LB135724
	Manganese	2430	2500	97	90 - 110	P	05/09/2025	18:45	LB135724
	Nickel	2460	2500	98	90 - 110	P	05/09/2025	18:45	LB135724
	Potassium	24800	25000	99	90 - 110	P	05/09/2025	18:45	LB135724
	Selenium	4860	5000	97	90 - 110	P	05/09/2025	18:45	LB135724
	Silver	1240	1250	99	90 - 110	P	05/09/2025	18:45	LB135724
	Sodium	25100	25000	100	90 - 110	P	05/09/2025	18:45	LB135724
	Thallium	4930	5000	99	90 - 110	P	05/09/2025	18:45	LB135724
	Vanadium	2470	2500	99	90 - 110	P	05/09/2025	18:45	LB135724
	Zinc	2490	2500	100	90 - 110	P	05/09/2025	18:45	LB135724

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	0.18	0.2	90	40 - 160	CV	05/06/2025	10:37	LB135678
CRI01	Aluminum	95.9	100	96	40 - 160	P	05/07/2025	13:16	LB135699
	Antimony	51.7	50.0	103	40 - 160	P	05/07/2025	13:16	LB135699
	Arsenic	19.7	20.0	98	40 - 160	P	05/07/2025	13:16	LB135699
	Barium	88.3	100	88	40 - 160	P	05/07/2025	13:16	LB135699
	Beryllium	5.55	6.0	92	40 - 160	P	05/07/2025	13:16	LB135699
	Cadmium	6.09	6.0	102	40 - 160	P	05/07/2025	13:16	LB135699
	Calcium	1950	2000	98	40 - 160	P	05/07/2025	13:16	LB135699
	Chromium	9.49	10.0	95	40 - 160	P	05/07/2025	13:16	LB135699
	Cobalt	29.1	30.0	97	40 - 160	P	05/07/2025	13:16	LB135699
	Copper	21.5	20.0	108	40 - 160	P	05/07/2025	13:16	LB135699
	Iron	96.4	100	96	40 - 160	P	05/07/2025	13:16	LB135699
	Lead	13.4	12.0	112	40 - 160	P	05/07/2025	13:16	LB135699
	Magnesium	2010	2000	100	40 - 160	P	05/07/2025	13:16	LB135699
	Manganese	22.3	20.0	112	40 - 160	P	05/07/2025	13:16	LB135699
	Nickel	39.2	40.0	98	40 - 160	P	05/07/2025	13:16	LB135699
	Potassium	1850	2000	93	40 - 160	P	05/07/2025	13:16	LB135699
	Selenium	16.5	20.0	82	40 - 160	P	05/07/2025	13:16	LB135699
	Silver	10.2	10.0	102	40 - 160	P	05/07/2025	13:16	LB135699
	Sodium	1790	2000	90	40 - 160	P	05/07/2025	13:16	LB135699
	Thallium	43.0	40.0	108	40 - 160	P	05/07/2025	13:16	LB135699
	Vanadium	40.2	40.0	101	40 - 160	P	05/07/2025	13:16	LB135699
	Zinc	40.3	40.0	101	40 - 160	P	05/07/2025	13:16	LB135699
CRI01	Aluminum	95.6	100	96	40 - 160	P	05/09/2025	13:21	LB135724
	Antimony	41.9	50.0	84	40 - 160	P	05/09/2025	13:21	LB135724
	Arsenic	18.8	20.0	94	40 - 160	P	05/09/2025	13:21	LB135724
	Barium	90.8	100	91	40 - 160	P	05/09/2025	13:21	LB135724
	Beryllium	5.34	6.0	89	40 - 160	P	05/09/2025	13:21	LB135724
	Cadmium	5.18	6.0	86	40 - 160	P	05/09/2025	13:21	LB135724
	Calcium	1920	2000	96	40 - 160	P	05/09/2025	13:21	LB135724
	Chromium	9.44	10.0	94	40 - 160	P	05/09/2025	13:21	LB135724
	Cobalt	24.3	30.0	81	40 - 160	P	05/09/2025	13:21	LB135724
	Copper	18.6	20.0	93	40 - 160	P	05/09/2025	13:21	LB135724
	Iron	97.6	100	98	40 - 160	P	05/09/2025	13:21	LB135724
	Lead	9.30	12.0	78	40 - 160	P	05/09/2025	13:21	LB135724

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	Magnesium	1980	2000	99	40 - 160	P	05/09/2025	13:21	LB135724
	Manganese	19.3	20.0	96	40 - 160	P	05/09/2025	13:21	LB135724
	Nickel	32.6	40.0	81	40 - 160	P	05/09/2025	13:21	LB135724
	Potassium	1860	2000	93	40 - 160	P	05/09/2025	13:21	LB135724
	Selenium	21.3	20.0	107	40 - 160	P	05/09/2025	13:21	LB135724
	Silver	9.79	10.0	98	40 - 160	P	05/09/2025	13:21	LB135724
	Sodium	1860	2000	93	40 - 160	P	05/09/2025	13:21	LB135724
	Thallium	35.4	40.0	88	40 - 160	P	05/09/2025	13:21	LB135724
	Vanadium	37.1	40.0	93	40 - 160	P	05/09/2025	13:21	LB135724
	Zinc	40.1	40.0	100	40 - 160	P	05/09/2025	13:21	LB135724

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB117	Mercury	0.20	+/-0.20	U	0.20	CV	05/06/2025	10:27	LB135678

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	05/06/2025	10:35	LB135678
CCB83	Mercury	0.20	+/-0.20	U	0.20	CV	05/06/2025	11:05	LB135678
CCB84	Mercury	0.20	+/-0.20	U	0.20	CV	05/06/2025	11:32	LB135678
CCB85	Mercury	0.20	+/-0.20	U	0.20	CV	05/06/2025	12:00	LB135678

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/07/2025	13:09	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	13:09	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	13:09	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	13:09	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:09	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:09	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	13:09	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	13:09	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	13:09	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	13:09	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	13:09	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	13:09	LB135699
	Magnesium	2000	+/-2000	U	2000	P	05/07/2025	13:09	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	13:09	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	13:09	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	13:09	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	13:09	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	13:09	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	13:09	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	13:09	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	13:09	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	13:09	LB135699

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/07/2025	13:43	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	13:43	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	13:43	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	13:43	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:43	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:43	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	13:43	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	13:43	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	13:43	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	13:43	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	13:43	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	13:43	LB135699
	Magnesium	2000	+/-2000	U	2000	P	05/07/2025	13:43	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	13:43	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	13:43	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	13:43	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	13:43	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	13:43	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	13:43	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	13:43	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	13:43	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	13:43	LB135699
CCB02	Aluminum	100	+/-100	U	100	P	05/07/2025	14:39	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	14:39	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	14:39	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	14:39	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	14:39	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	14:39	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	14:39	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	14:39	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	14:39	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	14:39	LB135699
	Magnesium	2000	+/-2000	U	2000	P	05/07/2025	14:39	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	14:39	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	14:39	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/07/2025	14:39	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	14:39	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	14:39	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	14:39	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	14:39	LB135699
CCB03	Aluminum	100	+/-100	U	100	P	05/07/2025	15:27	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	15:27	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	15:27	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	15:27	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	15:27	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	15:27	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	15:27	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	15:27	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	15:27	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	15:27	LB135699
	Magnesium	2000	+/-2000	U	2000	P	05/07/2025	15:27	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	15:27	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	15:27	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	15:27	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	15:27	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	15:27	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	15:27	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	15:27	LB135699
CCB04	Aluminum	100	+/-100	U	100	P	05/07/2025	16:09	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	16:09	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	16:09	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:09	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:09	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	16:09	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	16:09	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	16:09	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	16:09	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	16:09	LB135699

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/07/2025	16:09	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	16:09	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	16:09	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	16:09	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	16:09	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	16:09	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	16:09	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	16:09	LB135699
CCB05	Aluminum	100	+/-100	U	100	P	05/07/2025	16:52	LB135699
	Antimony	50.0	+/-50.0	U	50.0	P	05/07/2025	16:52	LB135699
	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	16:52	LB135699
	Beryllium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:52	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:52	LB135699
	Calcium	2000	+/-2000	U	2000	P	05/07/2025	16:52	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	16:52	LB135699
	Cobalt	30.0	+/-30.0	U	30.0	P	05/07/2025	16:52	LB135699
	Copper	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Iron	100	+/-100	U	100	P	05/07/2025	16:52	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	16:52	LB135699
	Magnesium	2000	+/-2000	U	2000	P	05/07/2025	16:52	LB135699
	Manganese	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Nickel	40.0	+/-40.0	U	40.0	P	05/07/2025	16:52	LB135699
	Potassium	2000	+/-2000	U	2000	P	05/07/2025	16:52	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	16:52	LB135699
	Sodium	2000	+/-2000	U	2000	P	05/07/2025	16:52	LB135699
	Thallium	40.0	+/-40.0	U	40.0	P	05/07/2025	16:52	LB135699
	Vanadium	40.0	+/-40.0	U	40.0	P	05/07/2025	16:52	LB135699
	Zinc	40.0	+/-40.0	U	40.0	P	05/07/2025	16:52	LB135699

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/09/2025	13:17	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	13:17	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	13:17	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	13:17	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	13:17	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	13:17	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	13:17	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	13:17	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	13:17	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	13:17	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	13:17	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	13:17	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	13:17	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	13:17	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	13:17	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	13:17	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	13:17	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	13:17	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	13:17	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	13:17	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	13:17	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	13:17	LB135724

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/09/2025	14:15	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	14:15	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	14:15	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	14:15	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	14:15	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	14:15	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	14:15	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	14:15	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	14:15	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	14:15	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	14:15	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	14:15	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	14:15	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	14:15	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	14:15	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	14:15	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	14:15	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	14:15	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	14:15	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	14:15	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	14:15	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	14:15	LB135724
CCB02	Aluminum	13.6	+/-100	J	100	P	05/09/2025	15:03	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	15:03	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	15:03	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	15:03	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	15:03	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	15:03	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	15:03	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	15:03	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	15:03	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	15:03	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	15:03	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	15:03	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	15:03	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	15:03	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	15:03	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	15:03	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	15:03	LB135724

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/09/2025	15:03	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	15:03	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	15:03	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	15:03	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	15:03	LB135724
CCB03	Aluminum	100	+/-100	U	100	P	05/09/2025	15:58	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	15:58	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	15:58	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	15:58	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	15:58	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	15:58	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	15:58	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	15:58	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	15:58	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	15:58	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	15:58	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	15:58	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	15:58	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	15:58	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	15:58	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	15:58	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	15:58	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	15:58	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	15:58	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	15:58	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	15:58	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	15:58	LB135724
CCB04	Aluminum	100	+/-100	U	100	P	05/09/2025	16:44	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	16:44	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	16:44	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	16:44	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	16:44	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	16:44	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	16:44	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	16:44	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	16:44	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	16:44	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	16:44	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	16:44	LB135724

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/09/2025	16:44	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	16:44	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	16:44	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	16:44	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	16:44	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	16:44	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	16:44	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	16:44	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	16:44	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	16:44	LB135724
CCB05	Aluminum	100	+/-100	U	100	P	05/09/2025	17:30	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	17:30	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	17:30	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	17:30	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	17:30	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	17:30	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	17:30	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	17:30	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	17:30	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	17:30	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	17:30	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	17:30	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	17:30	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	17:30	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	17:30	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	17:30	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	17:30	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	17:30	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	17:30	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	17:30	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	17:30	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	17:30	LB135724
CCB06	Aluminum	100	+/-100	U	100	P	05/09/2025	18:16	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	18:16	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	18:16	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	18:16	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	18:16	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	18:16	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	18:16	LB135724

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	05/09/2025	18:16	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	18:16	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	18:16	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	18:16	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	18:16	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	18:16	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	18:16	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	18:16	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	18:16	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	18:16	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	18:16	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	18:16	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	18:16	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	18:16	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	18:16	LB135724
CCB07	Aluminum	100	+/-100	U	100	P	05/09/2025	18:49	LB135724
	Antimony	50.0	+/-50.0	U	50.0	P	05/09/2025	18:49	LB135724
	Arsenic	20.0	+/-20.0	U	20.0	P	05/09/2025	18:49	LB135724
	Barium	100	+/-100	U	100	P	05/09/2025	18:49	LB135724
	Beryllium	6.00	+/-6.00	U	6.00	P	05/09/2025	18:49	LB135724
	Cadmium	6.00	+/-6.00	U	6.00	P	05/09/2025	18:49	LB135724
	Calcium	2000	+/-2000	U	2000	P	05/09/2025	18:49	LB135724
	Chromium	10.0	+/-10.0	U	10.0	P	05/09/2025	18:49	LB135724
	Cobalt	30.0	+/-30.0	U	30.0	P	05/09/2025	18:49	LB135724
	Copper	20.0	+/-20.0	U	20.0	P	05/09/2025	18:49	LB135724
	Iron	100	+/-100	U	100	P	05/09/2025	18:49	LB135724
	Lead	12.0	+/-12.0	U	12.0	P	05/09/2025	18:49	LB135724
	Magnesium	2000	+/-2000	U	2000	P	05/09/2025	18:49	LB135724
	Manganese	20.0	+/-20.0	U	20.0	P	05/09/2025	18:49	LB135724
	Nickel	40.0	+/-40.0	U	40.0	P	05/09/2025	18:49	LB135724
	Potassium	2000	+/-2000	U	2000	P	05/09/2025	18:49	LB135724
	Selenium	20.0	+/-20.0	U	20.0	P	05/09/2025	18:49	LB135724
	Silver	10.0	+/-10.0	U	10.0	P	05/09/2025	18:49	LB135724
	Sodium	2000	+/-2000	U	2000	P	05/09/2025	18:49	LB135724
	Thallium	40.0	+/-40.0	U	40.0	P	05/09/2025	18:49	LB135724
	Vanadium	40.0	+/-40.0	U	40.0	P	05/09/2025	18:49	LB135724
	Zinc	40.0	+/-40.0	U	40.0	P	05/09/2025	18:49	LB135724

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167875BL		**SOLID**		**Batch Number:**	**PB167875**		**Prep Date:**	**05/05/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	05/06/2025	10:44	LB135678

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167859BL		**SOLID**		**Batch Number:**	**PB167859**		**Prep Date:**	**05/05/2025**	
	Aluminum	4.95	<4.95	U	4.95	P	05/07/2025	14:12	LB135699
	Antimony	2.48	<2.48	U	2.48	P	05/07/2025	14:12	LB135699
	Arsenic	0.99	<0.99	U	0.99	P	05/07/2025	14:12	LB135699
	Barium	4.95	<4.95	U	4.95	P	05/07/2025	14:12	LB135699
	Beryllium	0.30	<0.30	U	0.30	P	05/07/2025	14:12	LB135699
	Cadmium	0.30	<0.30	U	0.30	P	05/07/2025	14:12	LB135699
	Calcium	99.0	<99.0	U	99.0	P	05/07/2025	14:12	LB135699
	Chromium	0.50	<0.50	U	0.50	P	05/07/2025	14:12	LB135699
	Cobalt	1.49	<1.49	U	1.49	P	05/07/2025	14:12	LB135699
	Copper	0.99	<0.99	U	0.99	P	05/07/2025	14:12	LB135699
	Iron	4.95	<4.95	U	4.95	P	05/07/2025	14:12	LB135699
	Lead	0.59	<0.59	U	0.59	P	05/07/2025	14:12	LB135699
	Magnesium	99.0	<99.0	U	99.0	P	05/07/2025	14:12	LB135699
	Manganese	0.99	<0.99	U	0.99	P	05/07/2025	14:12	LB135699
	Nickel	1.98	<1.98	U	1.98	P	05/07/2025	14:12	LB135699
	Potassium	99.0	<99.0	U	99.0	P	05/07/2025	14:12	LB135699
	Selenium	0.99	<0.99	U	0.99	P	05/07/2025	14:12	LB135699
	Silver	0.50	<0.50	U	0.50	P	05/07/2025	14:12	LB135699
	Sodium	99.0	<99.0	U	99.0	P	05/07/2025	14:12	LB135699
	Thallium	1.98	<1.98	U	1.98	P	05/07/2025	14:12	LB135699
	Vanadium	1.98	<1.98	U	1.98	P	05/07/2025	14:12	LB135699
	Zinc	1.98	<1.98	U	1.98	P	05/07/2025	14:12	LB135699

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	233000	255000	91	216000	294000	05/07/2025	13:21	LB135699
	Antimony	-1.02			-50	50	05/07/2025	13:21	LB135699
	Arsenic	-1.60			-20	20	05/07/2025	13:21	LB135699
	Barium	-1.29	6.0	22	-94	106	05/07/2025	13:21	LB135699
	Beryllium	1.26			-6	6	05/07/2025	13:21	LB135699
	Cadmium	-2.63	1.0	263	-5	7	05/07/2025	13:21	LB135699
	Calcium	225000	245000	92	208000	282000	05/07/2025	13:21	LB135699
	Chromium	54.1	52.0	104	42	62	05/07/2025	13:21	LB135699
	Cobalt	1.12			-30	30	05/07/2025	13:21	LB135699
	Copper	-2.32	2.0	116	-18	22	05/07/2025	13:21	LB135699
	Iron	94700	101000	94	85600	116500	05/07/2025	13:21	LB135699
	Lead	-2.88			-12	12	05/07/2025	13:21	LB135699
	Magnesium	239000	255000	94	216000	294000	05/07/2025	13:21	LB135699
	Manganese	7.87	7.0	112	-13	27	05/07/2025	13:21	LB135699
	Nickel	2.04	2.0	102	-38	42	05/07/2025	13:21	LB135699
	Potassium	0.38			0	0	05/07/2025	13:21	LB135699
	Selenium	-9.82			-20	20	05/07/2025	13:21	LB135699
	Silver	1.08			-10	10	05/07/2025	13:21	LB135699
	Sodium	35.9			0	0	05/07/2025	13:21	LB135699
	Thallium	7.75			-40	40	05/07/2025	13:21	LB135699
	Vanadium	2.40			-40	40	05/07/2025	13:21	LB135699
	Zinc	3.10			-40	40	05/07/2025	13:21	LB135699
ICSAB01	Aluminum	231000	247000	94	209000	285000	05/07/2025	13:25	LB135699
	Antimony	642	618	104	525	711	05/07/2025	13:25	LB135699
	Arsenic	117	104	112	88.4	120	05/07/2025	13:25	LB135699
	Barium	502	537	94	437	637	05/07/2025	13:25	LB135699
	Beryllium	528	495	107	420	570	05/07/2025	13:25	LB135699
	Cadmium	1070	972	110	826	1120	05/07/2025	13:25	LB135699
	Calcium	221000	235000	94	199000	271000	05/07/2025	13:25	LB135699
	Chromium	586	542	108	460	624	05/07/2025	13:25	LB135699
	Cobalt	523	476	110	404	548	05/07/2025	13:25	LB135699
	Copper	509	511	100	434	588	05/07/2025	13:25	LB135699
	Iron	90800	99300	91	84400	114500	05/07/2025	13:25	LB135699
	Lead	55.5	49.0	113	37	61	05/07/2025	13:25	LB135699
	Magnesium	235000	248000	95	210000	286000	05/07/2025	13:25	LB135699
	Manganese	512	507	101	430	584	05/07/2025	13:25	LB135699
	Nickel	1040	954	109	810	1100	05/07/2025	13:25	LB135699
	Potassium	-13.9			0	0	05/07/2025	13:25	LB135699
	Selenium	41.2	46.0	90	26	66	05/07/2025	13:25	LB135699
	Silver	197	201	98	170	232	05/07/2025	13:25	LB135699
	Sodium	-3.21			0	0	05/07/2025	13:25	LB135699
	Thallium	115	108	106	68	148	05/07/2025	13:25	LB135699

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	501	491	102	417	565	05/07/2025	13:25	LB135699
	Zinc	1080	952	113	809	1095	05/07/2025	13:25	LB135699
ICSA01	Aluminum	244000	255000	96	216000	294000	05/09/2025	13:25	LB135724
	Antimony	-3.14			-50	50	05/09/2025	13:25	LB135724
	Arsenic	5.25			-20	20	05/09/2025	13:25	LB135724
	Barium	1.93	6.0	32	-94	106	05/09/2025	13:25	LB135724
	Beryllium	1.34			-6	6	05/09/2025	13:25	LB135724
	Cadmium	-4.01	1.0	401	-5	7	05/09/2025	13:25	LB135724
	Calcium	230000	245000	94	208000	282000	05/09/2025	13:25	LB135724
	Chromium	55.8	52.0	107	42	62	05/09/2025	13:25	LB135724
	Cobalt	1.19			-30	30	05/09/2025	13:25	LB135724
	Copper	-3.94	2.0	197	-18	22	05/09/2025	13:25	LB135724
	Iron	101000	101000	100	85600	116500	05/09/2025	13:25	LB135724
	Lead	-0.13			-12	12	05/09/2025	13:25	LB135724
	Magnesium	243000	255000	95	216000	294000	05/09/2025	13:25	LB135724
	Manganese	6.20	7.0	89	-13	27	05/09/2025	13:25	LB135724
	Nickel	1.90	2.0	95	-38	42	05/09/2025	13:25	LB135724
	Potassium	-40.5			0	0	05/09/2025	13:25	LB135724
	Selenium	-7.90			-20	20	05/09/2025	13:25	LB135724
	Silver	0.32			-10	10	05/09/2025	13:25	LB135724
	Sodium	-19.2			0	0	05/09/2025	13:25	LB135724
	Thallium	9.21			-40	40	05/09/2025	13:25	LB135724
	Vanadium	0.68			-40	40	05/09/2025	13:25	LB135724
	Zinc	3.40			-40	40	05/09/2025	13:25	LB135724
ICSAB01	Aluminum	237000	247000	96	209000	285000	05/09/2025	13:59	LB135724
	Antimony	671	618	109	525	711	05/09/2025	13:59	LB135724
	Arsenic	119	104	114	88.4	120	05/09/2025	13:59	LB135724
	Barium	520	537	97	437	637	05/09/2025	13:59	LB135724
	Beryllium	515	495	104	420	570	05/09/2025	13:59	LB135724
	Cadmium	1050	972	108	826	1120	05/09/2025	13:59	LB135724
	Calcium	220000	235000	94	199000	271000	05/09/2025	13:59	LB135724
	Chromium	570	542	105	460	624	05/09/2025	13:59	LB135724
	Cobalt	521	476	110	404	548	05/09/2025	13:59	LB135724
	Copper	516	511	101	434	588	05/09/2025	13:59	LB135724
	Iron	91300	99300	92	84400	114500	05/09/2025	13:59	LB135724
	Lead	51.6	49.0	105	37	61	05/09/2025	13:59	LB135724
	Magnesium	233000	248000	94	210000	286000	05/09/2025	13:59	LB135724
	Manganese	513	507	101	430	584	05/09/2025	13:59	LB135724
	Nickel	1030	954	108	810	1100	05/09/2025	13:59	LB135724
	Potassium	-82.7			0	0	05/09/2025	13:59	LB135724
	Selenium	50.0	46.0	109	26	66	05/09/2025	13:59	LB135724
	Silver	187	201	93	170	232	05/09/2025	13:59	LB135724

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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	-84.6			0	0	05/09/2025	13:59	LB135724
	Thallium	109	108	101	68	148	05/09/2025	13:59	LB135724
	Vanadium	502	491	102	417	565	05/09/2025	13:59	LB135724
	Zinc	1090	952	114	809	1095	05/09/2025	13:59	LB135724

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Saxton Falls Sand and Gravel Co. Inc. **level:** low **sdg no.:** Q1936

contract: SAXT01 **lab code:** CHEM **case no.:** Q1936 **sas no.:** Q1936

matrix: Solid **sample id:** Q1936-01 **client id:** SMALL-PILE-AMS

Percent Solids for Sample: 90.8 **Spiked ID:** Q1936-01MS **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.014	U	0.28	98		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Saxton Falls Sand and Gravel Co. Inc. **level:** low **sdg no.:** Q1936

contract: SAXT01 **lab code:** CHEM **case no.:** Q1936 **sas no.:** Q1936

matrix: Solid **sample id:** Q1936-01 **client id:** SMALL-PILE-AMSD

Percent Solids for Sample: 90.8 **Spiked ID:** Q1936-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.014	U	0.29	96		CV

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metals
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MATRIX SPIKE SUMMARY

client: Saxton Falls Sand and Gravel Co. Inc. **level:** low **sdg no.:** Q1936

contract: SAXT01 **lab code:** CHEM **case no.:** Q1936 **sas no.:** Q1936

matrix: Solid **sample id:** Q1952-01 **client id:** CLEAN-FILLMS

Percent Solids for Sample: 74.4 **Spiked ID:** Q1952-01MS **Percent Solids for Spike Sample:** 74.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4250		3470		120	654		P
Antimony	mg/Kg	75 - 125	26.5		2.71	U	48.9	54	N	P
Arsenic	mg/Kg	75 - 125	51.4		5.84		48.9	93		P
Barium	mg/Kg	75 - 125	37.9		21.8		12.2	132	N	P
Beryllium	mg/Kg	75 - 125	10.8		0.45		12.2	85		P
Cadmium	mg/Kg	75 - 125	11.8		0.33	U	12.2	97		P
Calcium	mg/Kg	75 - 125	1760		1930		61.1	-287		P
Chromium	mg/Kg	75 - 125	39.5		16.0		24.4	96		P
Cobalt	mg/Kg	75 - 125	13.7		1.65		12.2	99		P
Copper	mg/Kg	75 - 125	58.1		38.3		18.3	108		P
Iron	mg/Kg	75 - 125	10600		9340		180	716		P
Lead	mg/Kg	75 - 125	91.7		31.5		61.1	98		P
Magnesium	mg/Kg	75 - 125	754		560		120	162		P
Manganese	mg/Kg	75 - 125	86.4		78.8		12.2	62		P
Nickel	mg/Kg	75 - 125	36.1		5.54		30.5	100		P
Potassium	mg/Kg	75 - 125	1550		638		610	149	N	P
Selenium	mg/Kg	75 - 125	110		1.08	U	120	92		P
Silver	mg/Kg	75 - 125	4.56		0.54	U	4.6	99		P
Sodium	mg/Kg	75 - 125	191		108	U	180	106		P
Thallium	mg/Kg	75 - 125	121		0.37	J	120	101		P
Vanadium	mg/Kg	75 - 125	33.1		15.9		18.3	94		P
Zinc	mg/Kg	75 - 125	148		126		12.2	188		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Saxton Falls Sand and Gravel Co. Inc. **level:** low **sdg no.:** Q1936

contract: SAXT01 **lab code:** CHEM **case no.:** Q1936 **sas no.:** Q1936

matrix: Solid **sample id:** Q1952-01 **client id:** CLEAN-FILLMSD

Percent Solids for Sample: 74.4 **Spiked ID:** Q1952-01MSD **Percent Solids for Spike Sample:** 74.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4450		3470		120	818		P
Antimony	mg/Kg	75 - 125	26.1		2.71	U	46.8	56	N	P
Arsenic	mg/Kg	75 - 125	52.2		5.84		46.8	99		P
Barium	mg/Kg	75 - 125	37.8		21.8		11.7	136	N	P
Beryllium	mg/Kg	75 - 125	10.9		0.45		11.7	89		P
Cadmium	mg/Kg	75 - 125	11.7		0.33	U	11.7	100		P
Calcium	mg/Kg	75 - 125	2960		1930		58.4	1756		P
Chromium	mg/Kg	75 - 125	39.4		16.0		23.4	100		P
Cobalt	mg/Kg	75 - 125	13.6		1.65		11.7	102		P
Copper	mg/Kg	75 - 125	60.3		38.3		17.5	126	N	P
Iron	mg/Kg	75 - 125	10900		9340		180	868		P
Lead	mg/Kg	75 - 125	90.9		31.5		58.4	102		P
Magnesium	mg/Kg	75 - 125	893		560		120	278		P
Manganese	mg/Kg	75 - 125	97.4		78.8		11.7	159		P
Nickel	mg/Kg	75 - 125	36.1		5.54		29.2	105		P
Potassium	mg/Kg	75 - 125	1580		638		580	163	N	P
Selenium	mg/Kg	75 - 125	109		1.08	U	120	91		P
Silver	mg/Kg	75 - 125	4.46		0.54	U	4.4	101		P
Sodium	mg/Kg	75 - 125	186		108	U	180	103		P
Thallium	mg/Kg	75 - 125	116		0.37	J	120	96		P
Vanadium	mg/Kg	75 - 125	32.9		15.9		17.5	97		P
Zinc	mg/Kg	75 - 125	148		126		11.7	195		P

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POST DIGEST SPIKE SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Matrix: Solid **Level:** LOW **Client ID:** CLEAN-FILLA

Sample ID: Q1952-01 **Spiked ID:** Q1952-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	41.6		2.71	U	43.4	96		P
Barium	mg/Kg	75 - 125	30.4		21.8		10.8	80		P
Copper	mg/Kg	75 - 125	51.0		38.3		16.3	78		P
Potassium	mg/Kg	75 - 125	1070		638		540	80		P

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DUPLICATE SAMPLE SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **Level:** LOW **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Matrix: Solid **Sample ID:** Q1936-01 **Client ID:** SMALL-PILE-ADUP

Percent Solids for Sample: 90.8 **Duplicate ID** Q1936-01DUP **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.014	U	0.013	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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DUPLICATE SAMPLE SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **Level:** LOW **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Matrix: Solid **Sample ID:** Q1936-01MS **Client ID:** SMALL-PILE-AMSD

Percent Solids for Sample: 90.8 **Duplicate ID** Q1936-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.28		0.28		1		CV

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

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DUPLICATE SAMPLE SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **Level:** LOW **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Matrix: Solid **Sample ID:** Q1952-01 **Client ID:** CLEAN-FILLDUP

Percent Solids for Sample: 74.4 **Duplicate ID** Q1952-01DUP **Percent Solids for Spike Sample:** 74.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3470		3290		5		P
Antimony	mg/Kg	20	2.71	U	3.10	U			P
Arsenic	mg/Kg	20	5.84		5.03		15		P
Barium	mg/Kg	20	21.8		22.9		5		P
Beryllium	mg/Kg	20	0.45		0.38		16		P
Cadmium	mg/Kg	20	0.33	U	0.37	U			P
Calcium	mg/Kg	20	1930		1630		17		P
Chromium	mg/Kg	20	16.0		13.9		14		P
Cobalt	mg/Kg	20	1.65		1.56	J	6		P
Copper	mg/Kg	20	38.3		39.4		3		P
Iron	mg/Kg	20	9340		8370		11		P
Lead	mg/Kg	20	31.5		30.5		3		P
Magnesium	mg/Kg	20	560		496		12		P
Manganese	mg/Kg	20	78.8		69.7		12		P
Nickel	mg/Kg	20	5.54		5.54		0		P
Potassium	mg/Kg	20	638		638		0		P
Selenium	mg/Kg	20	1.08	U	1.24	U			P
Silver	mg/Kg	20	0.54	U	0.16	J	200.0		P
Sodium	mg/Kg	20	108	U	124	U			P
Thallium	mg/Kg	20	0.37	J	2.48	U	200.0		P
Vanadium	mg/Kg	20	15.9		14.2		11		P
Zinc	mg/Kg	20	126		129		2		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: Saxton Falls Sand and Gravel Co. Inc. **Level:** LOW **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Matrix: Solid **Sample ID:** Q1952-01MS **Client ID:** CLEAN-FILLMSD

Percent Solids for Sample: 74.4 **Duplicate ID** Q1952-01MSD **Percent Solids for Spike Sample:** 74.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4250		4450		5		P
Antimony	mg/Kg	20	26.5		26.1		2		P
Arsenic	mg/Kg	20	51.4		52.2		2		P
Barium	mg/Kg	20	37.9		37.8		0		P
Beryllium	mg/Kg	20	10.8		10.9		0		P
Cadmium	mg/Kg	20	11.8		11.7		1		P
Calcium	mg/Kg	20	1760		2960		51	*	P
Chromium	mg/Kg	20	39.5		39.4		0		P
Cobalt	mg/Kg	20	13.7		13.6		1		P
Copper	mg/Kg	20	58.1		60.3		4		P
Iron	mg/Kg	20	10600		10900		3		P
Lead	mg/Kg	20	91.7		90.9		1		P
Magnesium	mg/Kg	20	754		893		17		P
Manganese	mg/Kg	20	86.4		97.4		12		P
Nickel	mg/Kg	20	36.1		36.1		0		P
Potassium	mg/Kg	20	1550		1580		2		P
Selenium	mg/Kg	20	110		109		1		P
Silver	mg/Kg	20	4.56		4.46		2		P
Sodium	mg/Kg	20	191		186		3		P
Thallium	mg/Kg	20	121		116		4		P
Vanadium	mg/Kg	20	33.1		32.9		1		P
Zinc	mg/Kg	20	148		148		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: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167859BS							
Aluminum	mg/Kg	95.7	84.2		88	80 - 120	P
Antimony	mg/Kg	38.3	35.4		92	80 - 120	P
Arsenic	mg/Kg	38.3	35.0		91	80 - 120	P
Barium	mg/Kg	9.6	8.16		85	80 - 120	P
Beryllium	mg/Kg	9.6	8.49		88	80 - 120	P
Cadmium	mg/Kg	9.6	8.93		93	80 - 120	P
Calcium	mg/Kg	47.8	45.0	J	94	80 - 120	P
Chromium	mg/Kg	19.1	18.0		94	80 - 120	P
Cobalt	mg/Kg	9.6	8.65		90	80 - 120	P
Copper	mg/Kg	14.4	13.4		93	80 - 120	P
Iron	mg/Kg	140	132		94	80 - 120	P
Lead	mg/Kg	47.8	44.1		92	80 - 120	P
Magnesium	mg/Kg	95.7	83.8	J	88	80 - 120	P
Manganese	mg/Kg	9.6	8.40		88	80 - 120	P
Nickel	mg/Kg	23.9	21.9		92	80 - 120	P
Potassium	mg/Kg	480	418		87	80 - 120	P
Selenium	mg/Kg	95.7	86.5		90	80 - 120	P
Silver	mg/Kg	3.6	3.29		91	80 - 120	P
Sodium	mg/Kg	140	141		101	80 - 120	P
Thallium	mg/Kg	95.7	91.2		95	80 - 120	P
Vanadium	mg/Kg	14.4	13.0		90	80 - 120	P
Zinc	mg/Kg	9.6	8.79		92	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167875BS							
Mercury	mg/Kg	0.26	0.26		99	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

SMALL-PILE-AL

Lab Name: Chemtech Consulting Group **Contract:** SAXT01

Lab Code: CHEM **Lb No.:** lb135678 **Lab Sample ID :** Q1936-01L **SDG No.:** Q1936

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	0.014	U	0.069	U			CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

CLEAN-FILLL

Lab Name: Chemtech Consulting Group **Contract:** SAXT01

Lab Code: CHEM **Lb No.:** lb135724 **Lab Sample ID :** Q1952-01L **SDG No.:** Q1936

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	3470		3570		3		P
Antimony	2.71	U	13.5	U			P
Arsenic	5.84		6.65		14		P
Barium	21.8		21.7	J	0		P
Beryllium	0.45		0.48	J	6		P
Cadmium	0.33	U	1.63	U			P
Calcium	1930		2050		6		P
Chromium	16.0		16.7		5		P
Cobalt	1.65		1.61	J	2		P
Copper	38.3		40.5		6		P
Iron	9340		9860		6		P
Lead	31.5		31.8		1		P
Magnesium	560		581		4		P
Manganese	78.8		83.3		6		P
Nickel	5.54		5.39	J	3		P
Potassium	638		619		3		P
Selenium	1.08	U	5.42	U			P
Silver	0.54	U	2.71	U			P
Sodium	108	U	542	U			P
Thallium	0.37	J	10.8	U	100.0		P
Vanadium	15.9		16.9		6		P
Zinc	126		134		7		P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Case No.:** Q1936 **SAS No.:** Q1936

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Method:**

Case No.: Q1936 **SAS No.:** Q1936

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167859**						
PB167859BL	PB167859BL	MB	SOLID	05/05/2025	2.02	100.0	100.00
PB167859BS	PB167859BS	LCS	SOLID	05/05/2025	2.09	100.0	100.00
Q1936-01	SMALL-PILE-A	SAM	SOLID	05/05/2025	2.36	100.0	90.80
Q1936-03	SMALL-PILE-B	SAM	SOLID	05/05/2025	2.03	100.0	93.80
Q1936-05	SMALL-PILE-C	SAM	SOLID	05/05/2025	2.21	100.0	97.20
Q1936-07	SMALL-PILE-D	SAM	SOLID	05/05/2025	2.13	100.0	94.20
Q1952-01DUP	CLEAN-FILLDUP	DUP	SOLID	05/05/2025	2.17	100.0	74.40
Q1952-01MS	CLEAN-FILLMS	MS	SOLID	05/05/2025	2.20	100.0	74.40
Q1952-01MSD	CLEAN-FILLMSD	MSD	SOLID	05/05/2025	2.30	100.0	74.40

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Saxton Falls Sand and Gravel Co. Inc. **SDG No.:** Q1936

Contract: SAXT01 **Lab Code:** CHEM **Method:**

Case No.: Q1936 **SAS No.:** Q1936

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167875**						
PB167875BL	PB167875BL	MB	SOLID	05/05/2025	0.52	35.0	100.00
PB167875BS	PB167875BS	LCS	SOLID	05/05/2025	0.54	35.0	100.00
Q1936-01	SMALL-PILE-A	SAM	SOLID	05/05/2025	0.56	35.0	90.80
Q1936-01DUP	SMALL-PILE-ADUP	DUP	SOLID	05/05/2025	0.59	35.0	90.80
Q1936-01MS	SMALL-PILE-AMS	MS	SOLID	05/05/2025	0.55	35.0	90.80
Q1936-01MSD	SMALL-PILE-AMSD	MSD	SOLID	05/05/2025	0.54	35.0	90.80
Q1936-03	SMALL-PILE-B	SAM	SOLID	05/05/2025	0.59	35.0	93.80
Q1936-05	SMALL-PILE-C	SAM	SOLID	05/05/2025	0.57	35.0	97.20
Q1936-07	SMALL-PILE-D	SAM	SOLID	05/05/2025	0.56	35.0	94.20

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metals
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ANALYSIS RUN LOG

Client: Saxton Falls Sand and Gravel Co. Inc. **Contract:** SAXT01

Lab code: CHEM **Case no.:** Q1936 **Sas no.:** Q1936 **Sdg no.:** Q1936

Instrument id number: **Method:** **Run number:** LB135678

Start date: 05/06/2025 **End date:** 05/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1000	HG
S0.2	S0.2	1	1002	HG
S2.5	S2.5	1	1004	HG
S5	S5	1	1006	HG
S7.5	S7.5	1	1014	HG
S10	S10	1	1019	HG
ICV117	ICV117	1	1025	HG
ICB117	ICB117	1	1027	HG
CCV82	CCV82	1	1030	HG
CCB82	CCB82	1	1035	HG
CRA	CRA	1	1037	HG
PB167875BL	PB167875BL	1	1044	HG
PB167875BS	PB167875BS	1	1049	HG
Q1936-01	SMALL-PILE-A	1	1051	HG
Q1936-01DUP	SMALL-PILE-ADUP	1	1053	HG
Q1936-01MS	SMALL-PILE-AMS	1	1056	HG
Q1936-01MSD	SMALL-PILE-AMSD	1	1058	HG
Q1936-03	SMALL-PILE-B	1	1100	HG
CCV83	CCV83	1	1103	HG
CCB83	CCB83	1	1105	HG
Q1936-05	SMALL-PILE-C	1	1107	HG
Q1936-07	SMALL-PILE-D	1	1109	HG
CCV84	CCV84	1	1130	HG
CCB84	CCB84	1	1132	HG
Q1936-01L	SMALL-PILE-AL	5	1153	HG
CCV85	CCV85	1	1157	HG
CCB85	CCB85	1	1200	HG

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metals
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ANALYSIS RUN LOG

Client: Saxton Falls Sand and Gravel Co. Inc. **Contract:** SAXT01

Lab code: CHEM **Case no.:** Q1936 **Sas no.:** Q1936 **Sdg no.:** Q1936

Instrument id number: **Method:** **Run number:** LB135699

Start date: 05/07/2025 **End date:** 05/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1234	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	1238	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	1243	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	1247	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	1251	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	1255	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	1259	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	1305	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	1309	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	1316	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	1321	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	1325	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	1339	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	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167859BL	PB167859BL	1	1412	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167859BS	PB167859BS	1	1417	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	1435	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	1439	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	1523	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	1527	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	1605	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	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1936-01	SMALL-PILE-A	1	1630	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1936-03	SMALL-PILE-B	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1936-05	SMALL-PILE-C	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1936-07	SMALL-PILE-D	1	1643	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	1647	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	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Saxton Falls Sand and Gravel Co. Inc. **Contract:** SAXT01

Lab code: CHEM **Case no.:** Q1936 **Sas no.:** Q1936 **Sdg no.:** Q1936

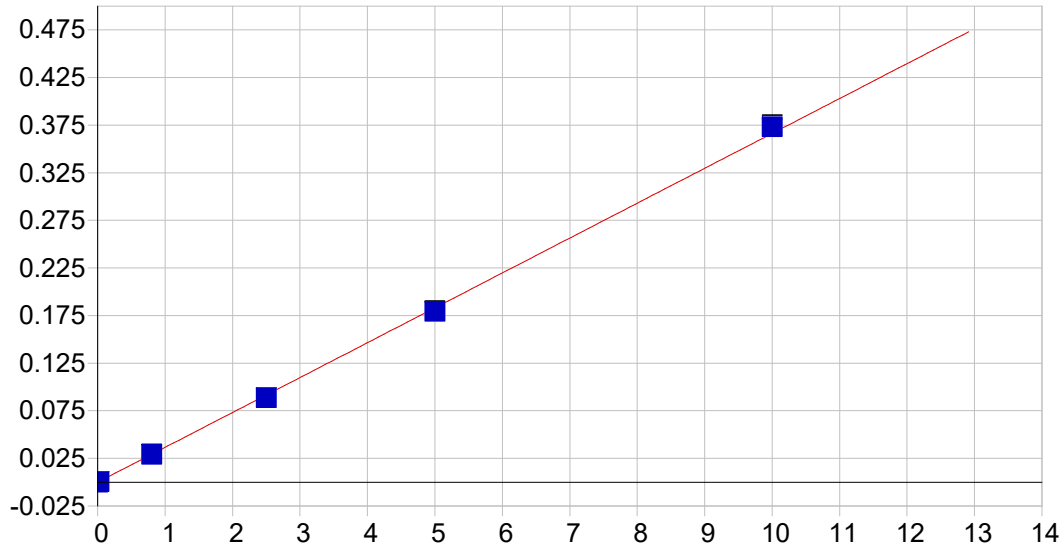
Instrument id number: **Method:** **Run number:** LB135724

Start date: 05/09/2025 **End date:** 05/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1222	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	1227	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	1231	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	1235	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	1240	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	1244	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	1248	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	1312	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	1317	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	1321	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	1325	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	1359	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	1411	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	1415	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	1459	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	1503	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1952-01DUP	CLEAN-FILLDUP	1	1541	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	1550	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	1558	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1952-01MS	CLEAN-FILLMS	1	1602	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1952-01MSD	CLEAN-FILLMSD	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1952-01A	CLEAN-FILLA	1	1610	Ba,Cu,K,Sb
CCV04	CCV04	1	1640	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	1644	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	1726	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	1730	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	1812	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	1816	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	1845	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	1849	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:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



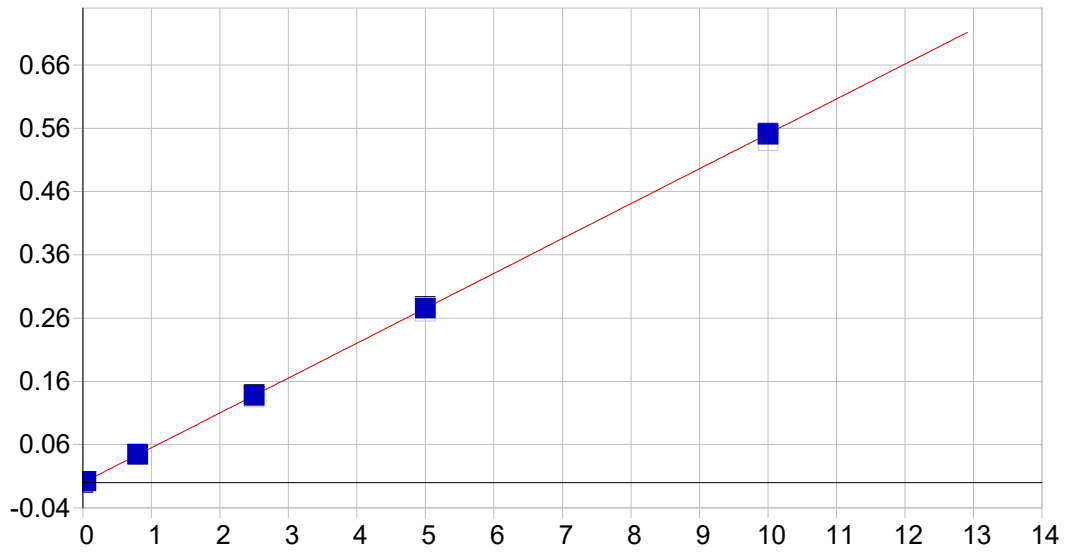
As 189.042 {479}

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A0 (Offset):	-0.000061	Re-Slope:	1.000000
A1 (Gain):	0.036639	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999768	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.003705		
Predicted MQL:	0.012350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.02000	.01996	-.000	-.220	.00067	.000	1
S3	2.5000	2.4187	-.081	-3.25	.08846	.000	1
S4	5.0000	4.8953	-.105	-2.09	.17910	.001	1
S5	10.000	10.190	.190	1.90	.37290	.002	1
S2	.80000	.79585	-.004	-.518	.02907	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



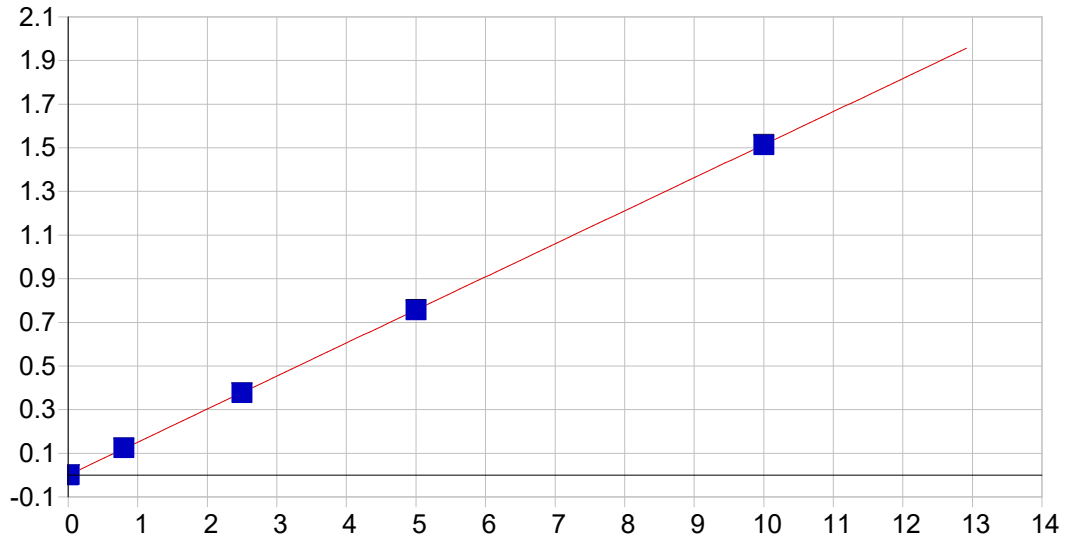
Tl 190.856 {477}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000123	Re-Slope:	1.000000
A1 (Gain):	0.055129	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.002313		
Predicted MQL:	0.007711		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00012	.000	1
S1	.04000	.04362	.004	9.04	.00214	.000	1
S3	2.5000	2.5011	.001	.046	.13522	.001	1
S4	5.0000	4.9981	-.002	-.039	.27034	.003	1
S5	10.000	9.9874	-.013	-.126	.54032	.002	1
S2	.80000	.80992	.010	1.24	.04372	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



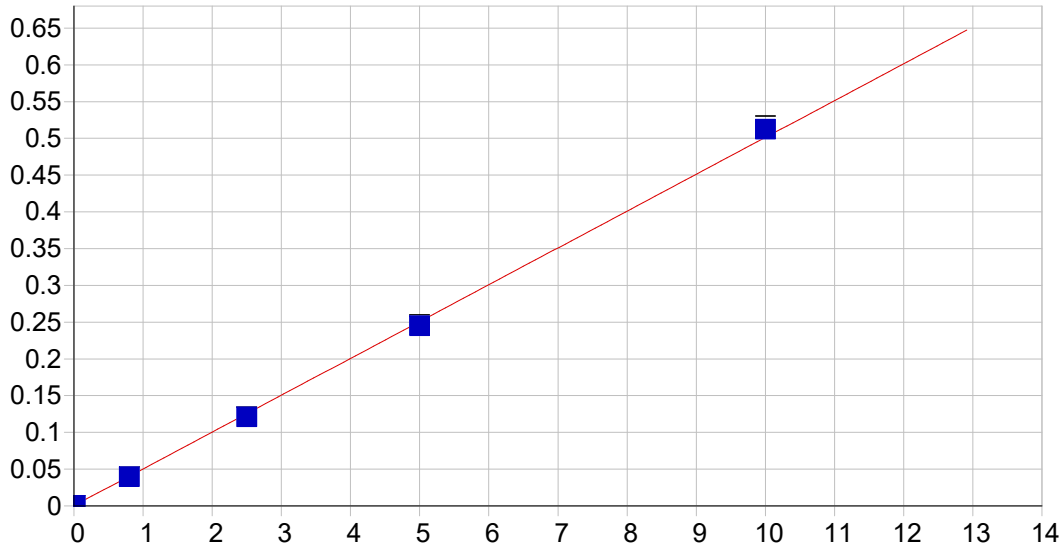
Pb 220.353 {453}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000293	Re-Slope:	1.000000
A1 (Gain):	0.151460	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001925		
Predicted MQL:	0.006417		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00029	.000	1
S1	.01200	.01426	.002	18.8	.00183	.000	1
S3	2.5000	2.4913	-.009	-.347	.37665	.000	1
S4	5.0000	4.9936	-.006	-.129	.75525	.003	1
S5	10.000	9.9916	-.008	-.084	1.5115	.004	1
S2	.80000	.82127	.021	2.66	.12397	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



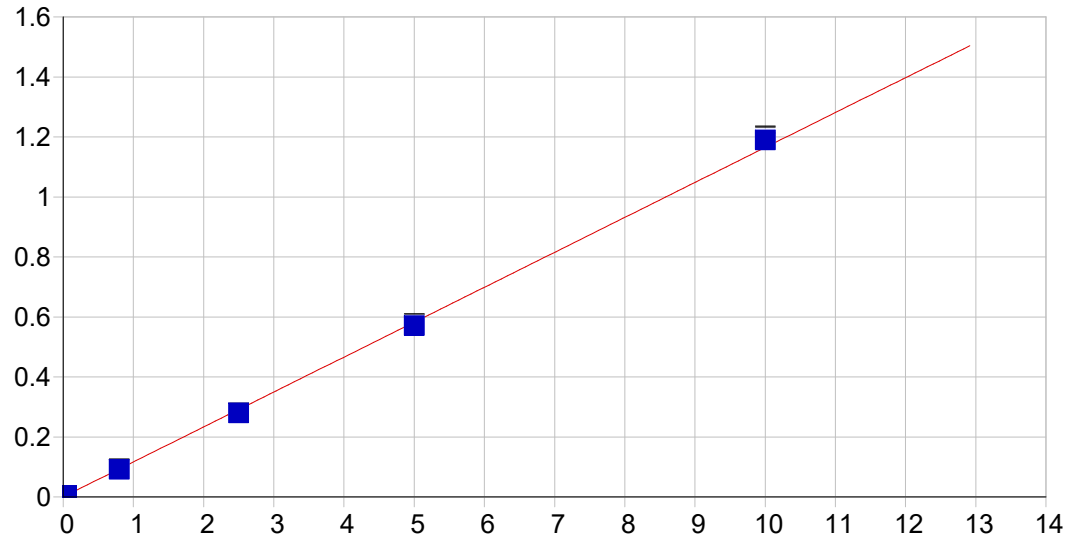
Se 196.090 {472}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000276	Re-Slope:	1.000000
A1 (Gain):	0.050099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.003909		
Predicted MQL:	0.013029		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00028	.000	1
S1	.02000	.01748	-.003	-12.6	.00115	.000	1
S3	2.5000	2.4087	-.091	-3.65	.12091	.001	1
S4	5.0000	4.8840	-.116	-2.32	.24487	.002	1
S5	10.000	10.224	.224	2.24	.51229	.005	1
S2	.80000	.78619	-.014	-1.73	.03965	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



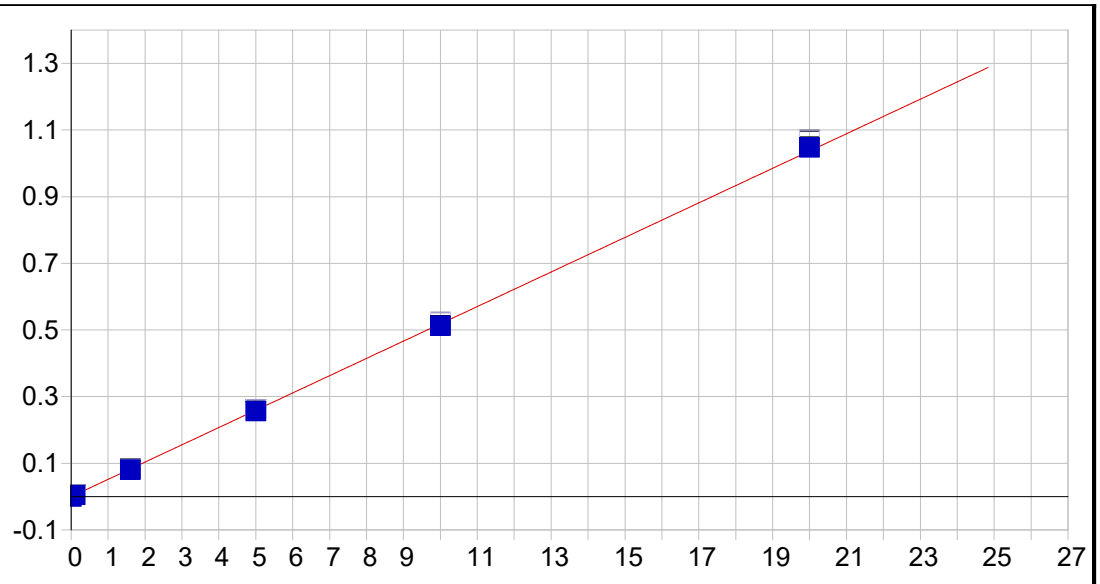
Sb 206.833 {463}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000220	Re-Slope:	1.000000
A1 (Gain):	0.116435	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999710	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.002291		
Predicted MQL:	0.007635		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00022	.000	1
S1	.05000	.05104	.001	2.08	.00618	.000	1
S3	2.5000	2.4022	-.098	-3.91	.28071	.001	1
S4	5.0000	4.9009	-.099	-1.98	.57244	.005	1
S5	10.000	10.213	.213	2.13	1.1925	.011	1
S2	.80000	.78296	-.017	-2.13	.09164	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



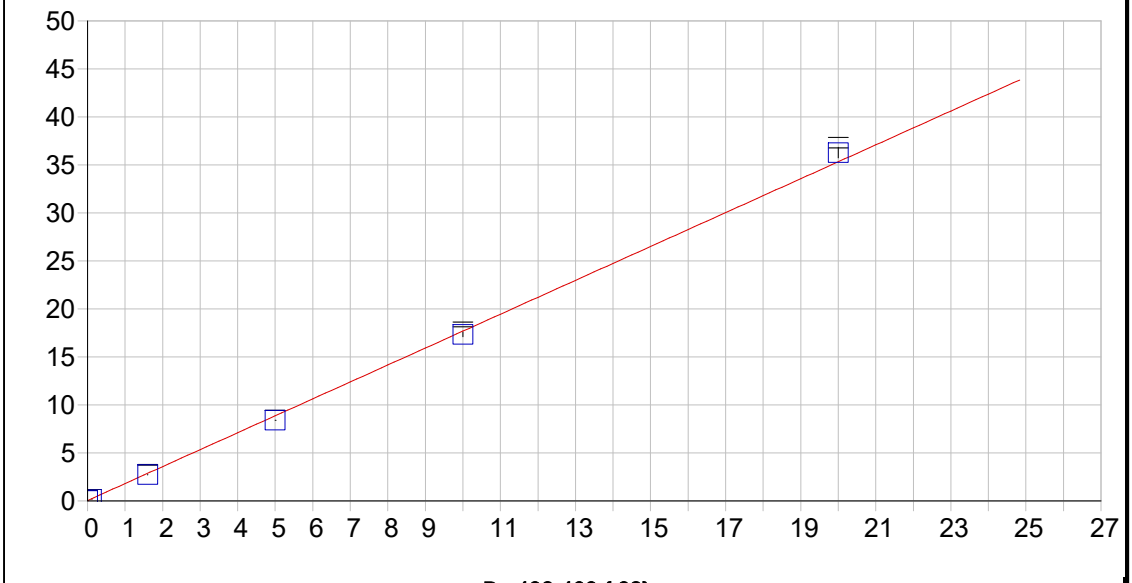
Al 396.152 { 85}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000070	Re-Slope:	1.000000
A1 (Gain):	0.051843	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.009046		
Predicted MQL:	0.030154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00007	.000	1
S1	.10000	.09857	-.001	-1.43	.00544	.000	1
S3	5.0000	4.9394	-.061	-1.21	.26103	.000	1
S4	10.000	9.8938	-.106	-1.06	.52291	.001	1
S5	20.000	20.215	.215	1.08	1.0681	.002	1
S2	1.6000	1.5530	-.047	-2.94	.08205	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



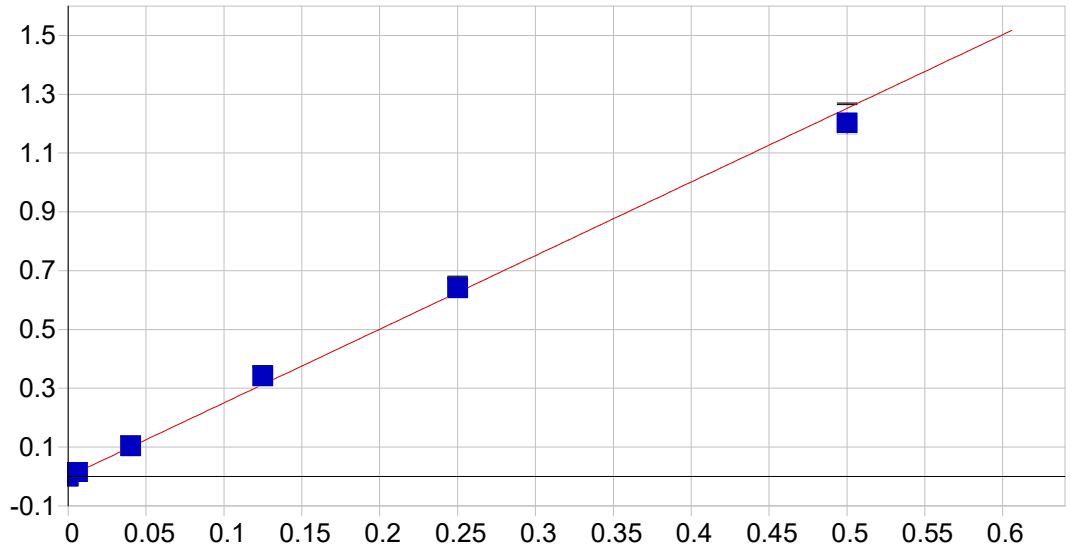
Ba 493.409 { 68}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.046662	Re-Slope:	1.000000
A1 (Gain):	1.763832	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999507	Status:	OK.
Std Error of Est:	0.004110		
Predicted MDL:	0.001095		
Predicted MQL:	0.003651		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.04669	.003	1
S1	.10000	.09529	-.005	-4.71	.21473	.000	1
S3	5.0000	4.7366	-.263	-5.27	8.4012	.014	1
S4	10.000	9.8091	-.191	-1.91	17.348	.239	1
S5	20.000	20.539	.539	2.69	36.274	.556	1
S2	1.6000	1.5202	-.080	-4.99	2.7280	.024	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



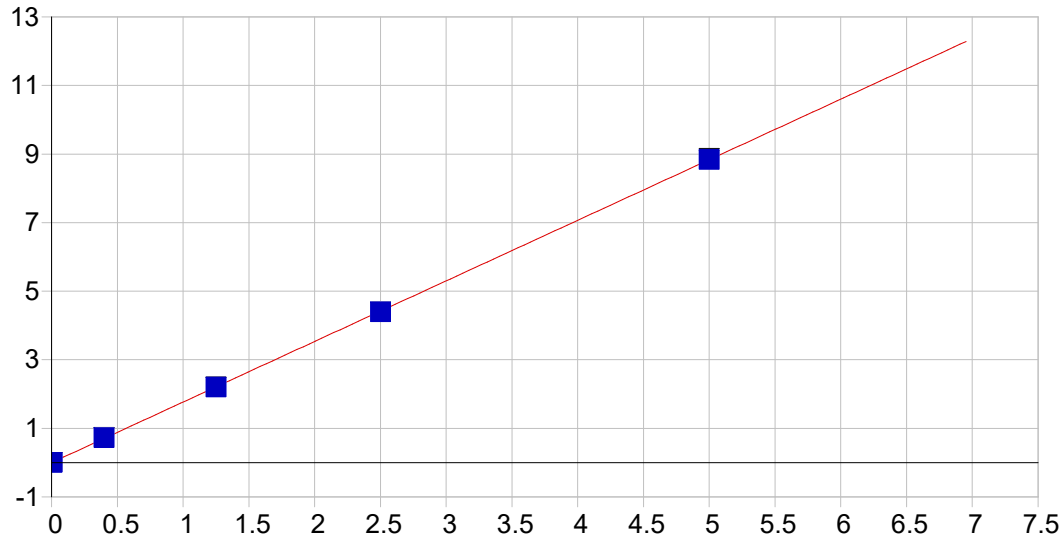
Be 234.861 {144}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	2.504215	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998890	Status:	OK.
Std Error of Est:	0.000338		
Predicted MDL:	0.000072		
Predicted MQL:	0.000239		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.00600	.00622	.000	3.66	.01550	.000	1
S3	.12500	.13634	.011	9.07	.34006	.001	1
S4	.25000	.25649	.006	2.60	.63953	.005	1
S5	.50000	.48043	-.020	-3.91	1.1975	.033	1
S2	.04000	.04152	.002	3.79	.10355	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



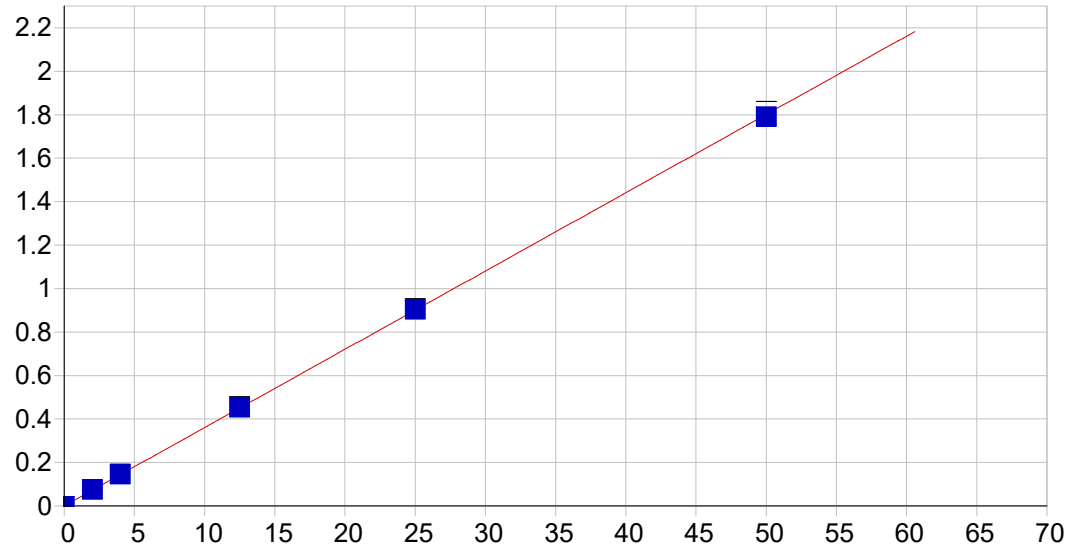
Cd 226.502 {449}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000058	Re-Slope:	1.000000
A1 (Gain):	1.766881	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	0.000113		
Predicted MQL:	0.000376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.00600	.00651	.001	8.56	.01151	.000	1
S3	1.2500	1.2437	-.006	-.500	2.1994	.001	1
S4	2.5000	2.4885	-.012	-.460	4.4007	.005	1
S5	5.0000	5.0040	.004	.080	8.8492	.027	1
S2	.40000	.41323	.013	3.31	.73070	.007	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



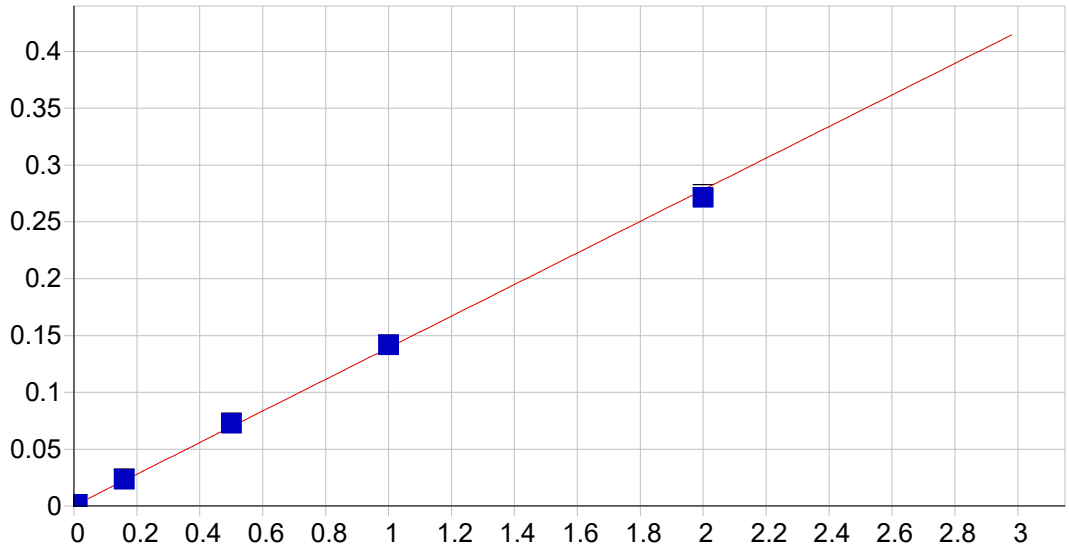
Ca 373.690 { 90}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000360	Re-Slope:	1.000000
A1 (Gain):	0.036017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000139		
Predicted MDL:	0.012193		
Predicted MQL:	0.040644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00009	-.000	.000	.00036	.000	1
S2	4.0000	4.0171	.017	.427	.14504	.001	1
S3	12.500	12.600	.100	.803	.45419	.002	1
S4	25.000	25.104	.104	.415	.90452	.003	1
S5	50.000	49.715	-.285	-.570	1.7909	.024	1
S1	2.0000	2.0635	.064	3.18	.07468	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



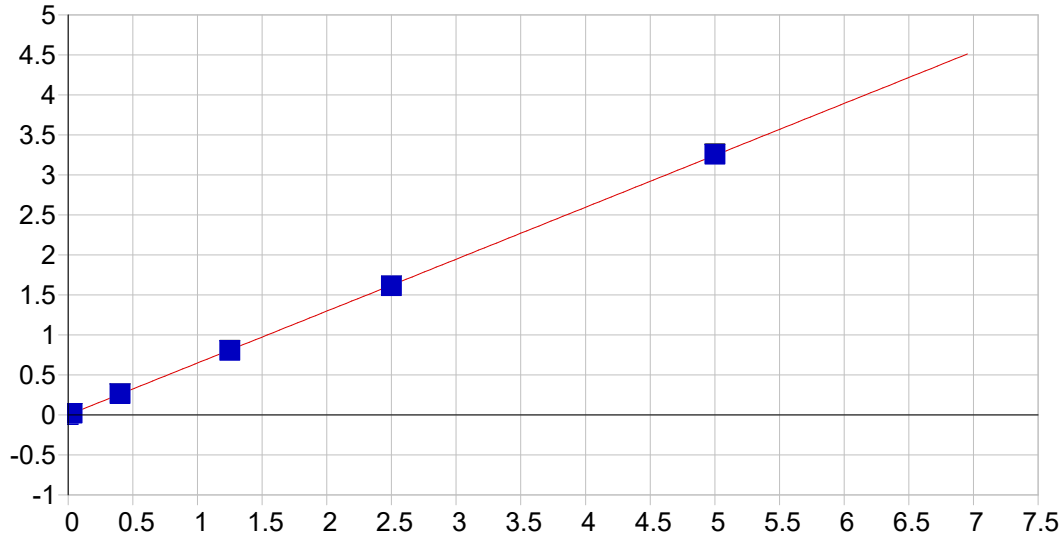
Cr 267.716 {126}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000125	Re-Slope:	1.000000
A1 (Gain):	0.139081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999609	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.000492		
Predicted MQL:	0.001640		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00012	.000	1
S1	.01000	.01026	.000	2.62	.00155	.000	1
S3	.50000	.52225	.022	4.45	.07278	.000	1
S4	1.0000	1.0177	.018	1.77	.14171	.000	1
S5	2.0000	1.9518	-.048	-2.41	.27166	.002	1
S2	.16000	.16798	.008	4.99	.02349	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



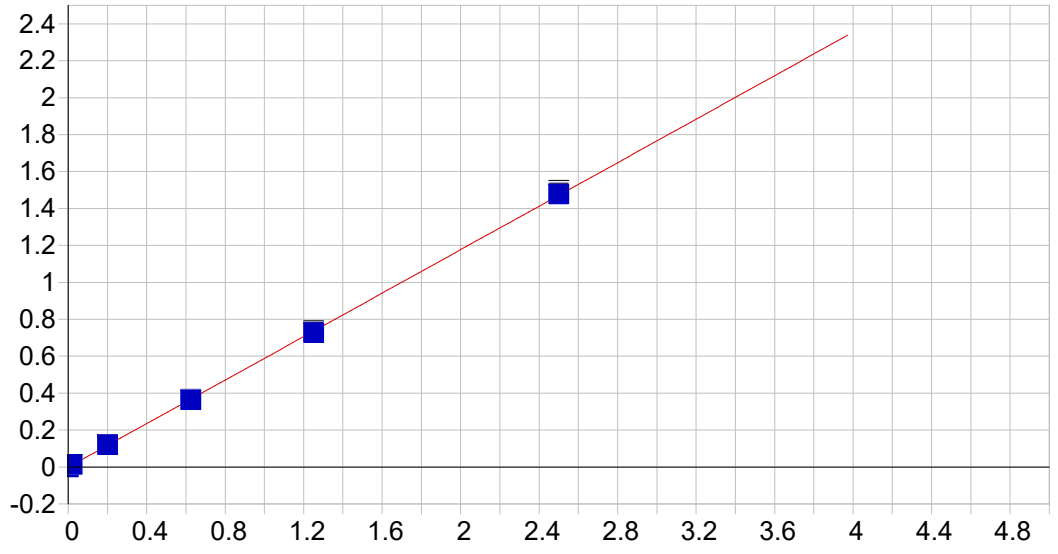
Co 228.616 {448}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000040	Re-Slope:	1.000000
A1 (Gain):	0.648836	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.000322		
Predicted MQL:	0.001074		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.03000	.03065	.001	2.17	.01985	.000	1
S3	1.2500	1.2396	-.010	-.835	.80568	.001	1
S4	2.5000	2.4848	-.015	-.607	1.6150	.003	1
S5	5.0000	5.0184	.018	.368	3.2616	.002	1
S2	.40000	.40658	.007	1.65	.26429	.002	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



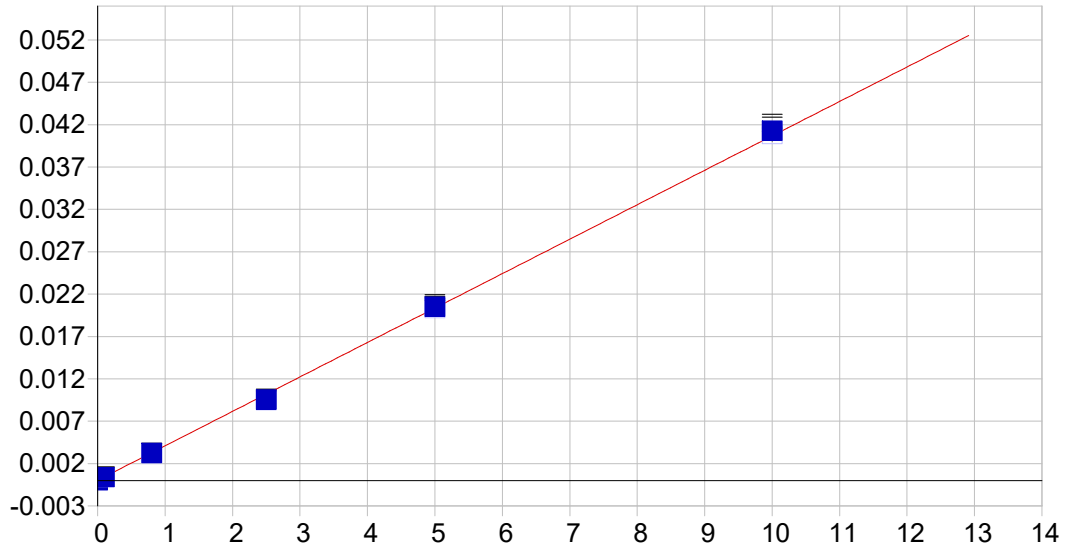
Cu 224.700 {450}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000742	Re-Slope:	1.000000
A1 (Gain):	0.588815	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000083		
Predicted MDL:	0.000501		
Predicted MQL:	0.001669		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00074	.000	1
S1	.02000	.02246	.002	12.3	.01260	.000	1
S3	.62500	.61891	-.006	-.974	.36637	.001	1
S4	1.2500	1.2373	-.013	-1.01	.73319	.005	1
S5	2.5000	2.5112	.011	.449	1.4886	.009	1
S2	.20000	.20505	.005	2.53	.12085	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



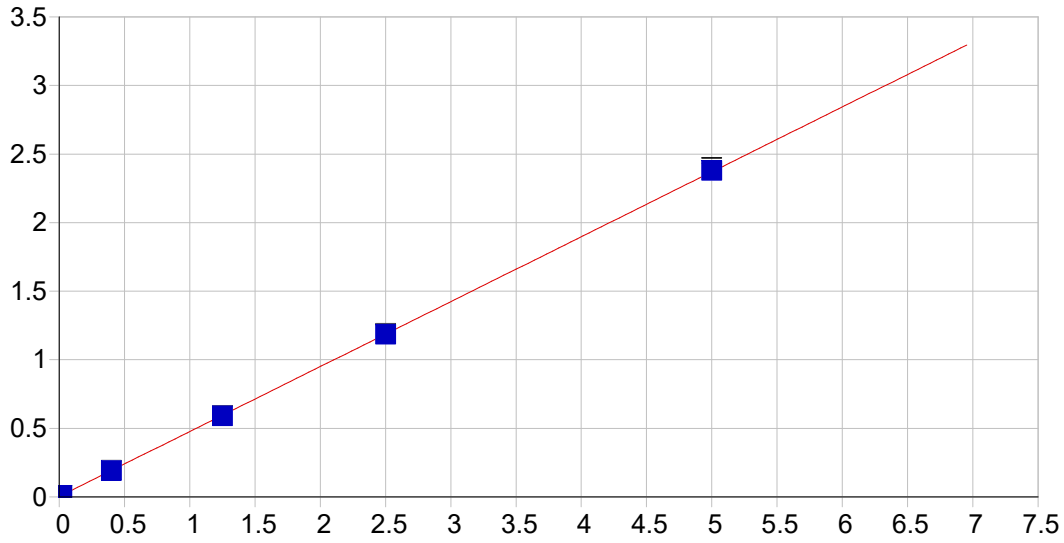
Fe 240.488 {140}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.004065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999655	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.006249		
Predicted MQL:	0.020831		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00003	.000	1
S1	.10000	.09490	-.005	-5.10	.00041	.000	1
S3	2.5000	2.3443	-.156	-6.23	.00947	.000	1
S4	5.0000	5.0356	.036	.713	.02032	.000	1
S5	10.000	10.141	.141	1.41	.04090	.001	1
S2	.80000	.78447	-.016	-1.94	.00319	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



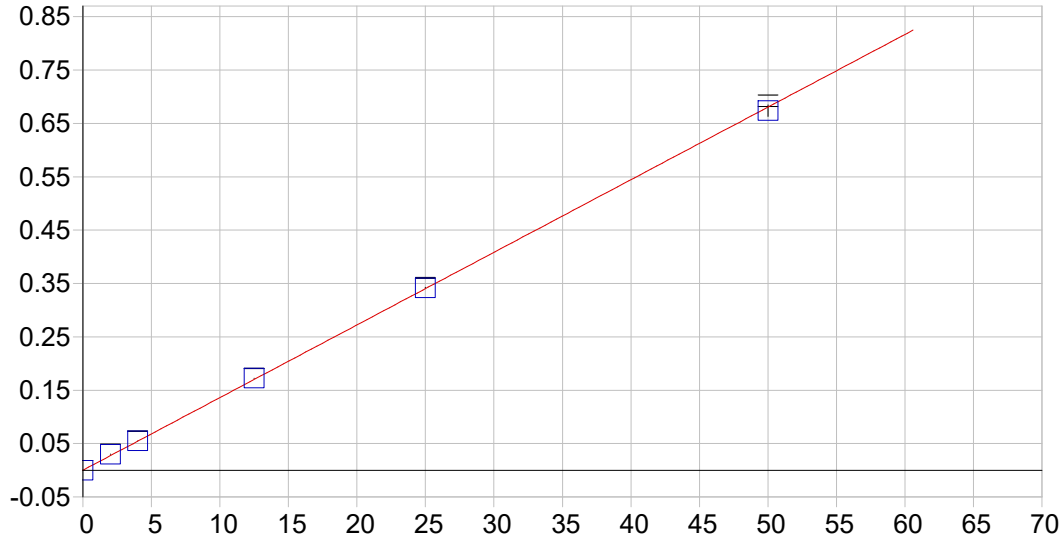
Mn 257.610 {131}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003531	Re-Slope:	1.000000
A1 (Gain):	0.473336	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.000377		
Predicted MQL:	0.001256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00353	.000	1
S1	.02000	.01492	-.005	-25.4	.01060	.000	1
S3	1.2500	1.2397	-.010	-.826	.59043	.002	1
S4	2.5000	2.4988	-.001	-.049	1.1865	.007	1
S5	5.0000	5.0202	.020	.404	2.3802	.020	1
S2	.40000	.39645	-.004	-.889	.19122	.002	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



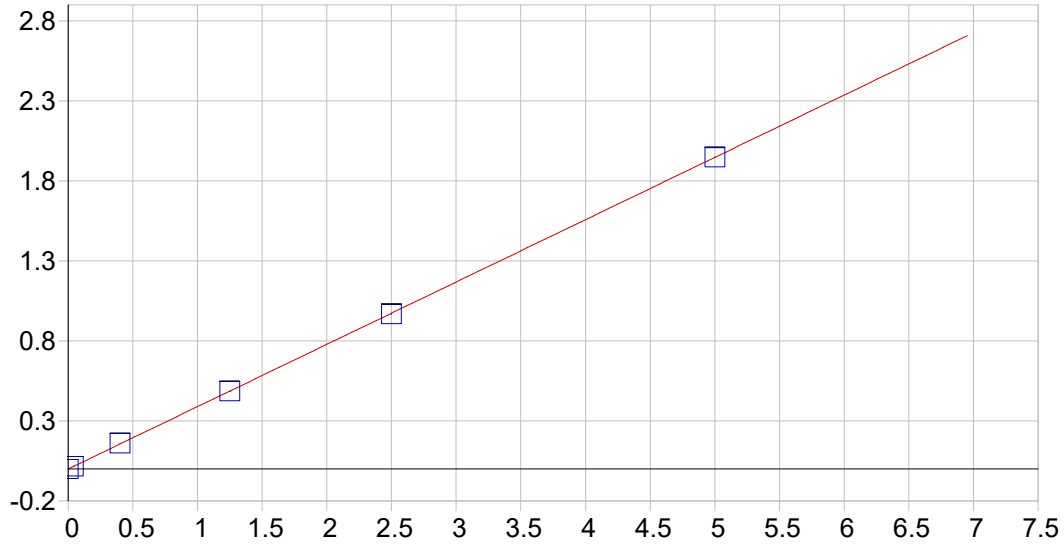
Mg 279.079 {121}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.013611	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.000123		
Predicted MDL:	0.015529		
Predicted MQL:	0.051764		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00023	-.000	.000	.00004	.000	1
S2	4.0000	4.0273	.027	.683	.05486	.000	1
S3	12.500	12.664	.164	1.31	.17242	.000	1
S4	25.000	25.118	.118	.471	.34192	.001	1
S5	50.000	49.494	-.506	-1.01	.67371	.011	1
S1	2.0000	2.1968	.197	9.84	.02994	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



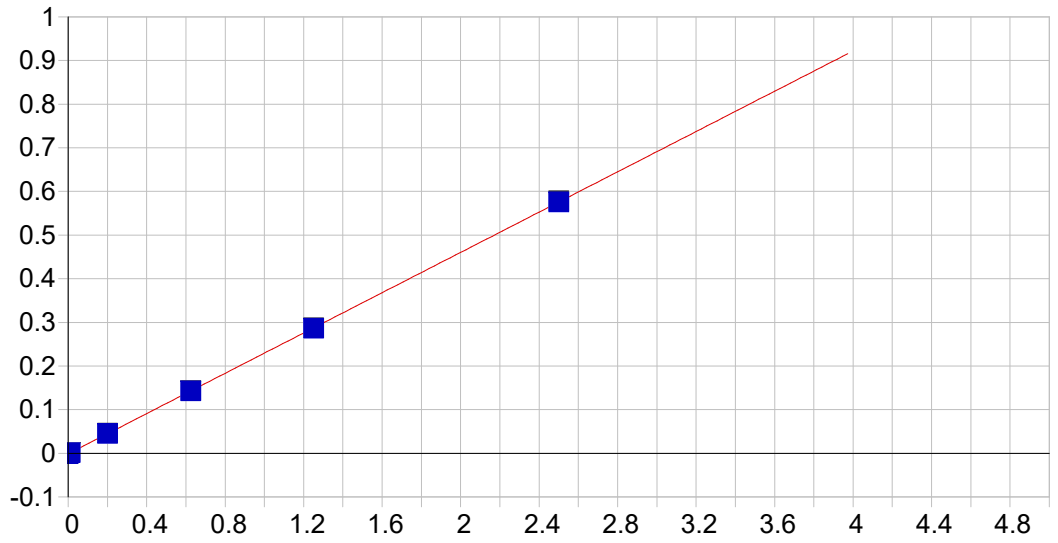
Ni 231.604 {446}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000260	Re-Slope:	1.000000
A1 (Gain):	0.389454	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000071		
Predicted MDL:	0.000464		
Predicted MQL:	0.001545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00026	.000	1
S1	.04000	.04120	.001	3.01	.01579	.000	1
S3	1.2500	1.2486	-.001	-.110	.48602	.001	1
S4	2.5000	2.4845	-.016	-.621	.96733	.002	1
S5	5.0000	5.0027	.003	.054	1.9481	.003	1
S2	.40000	.41301	.013	3.25	.16059	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



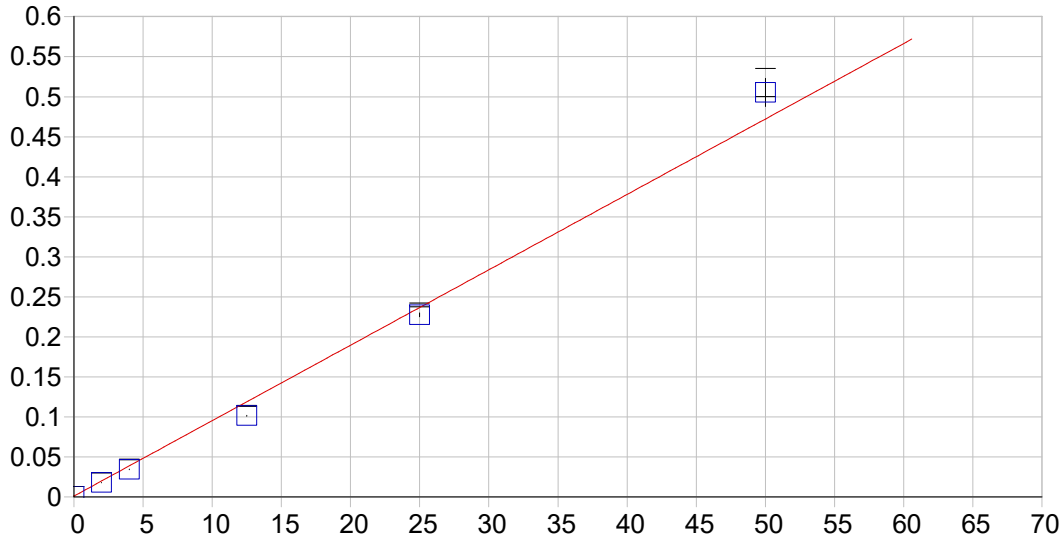
Ag 328.068 {103}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001326	Re-Slope:	1.000000
A1 (Gain):	0.230827	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.000423		
Predicted MQL:	0.001409		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00133	.000	1
S1	.01000	.01039	.000	3.88	.00106	.000	1
S3	.62500	.62536	.000	.057	.14245	.000	1
S4	1.2500	1.2471	-.003	-.234	.28539	.001	1
S5	2.5000	2.5010	.001	.040	.57368	.002	1
S2	.20000	.20119	.001	.597	.04493	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



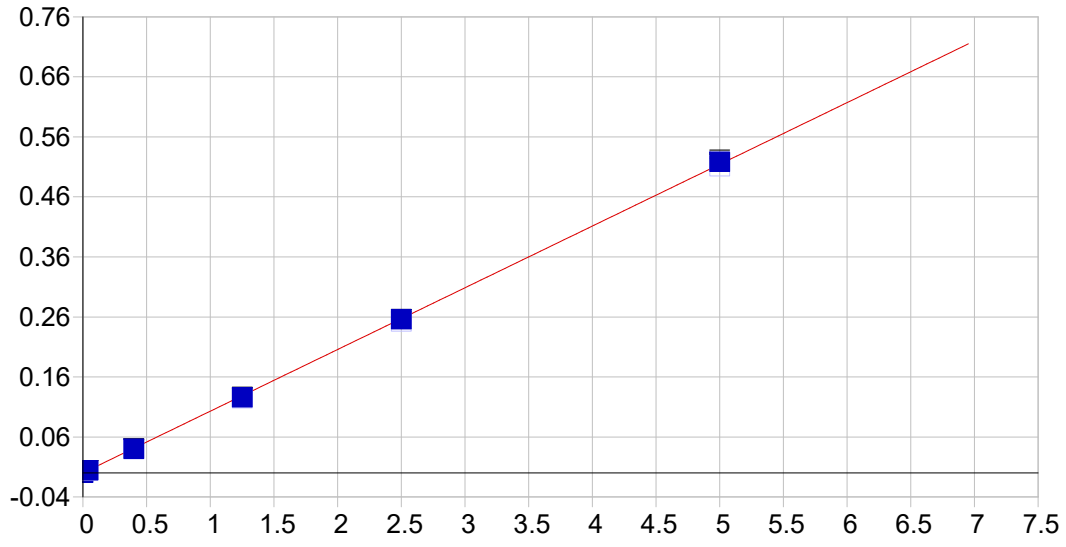
Na 589.592 { 57}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001097	Re-Slope:	1.000000
A1 (Gain):	0.009422	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996579	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	0.022557		
Predicted MQL:	0.075188		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00070	.001	.000	.00110	.000	1
S2	4.0000	3.5182	-.482	-12.0	.03425	.000	1
S3	12.500	10.651	-1.85	-14.8	.10145	.001	1
S4	25.000	24.030	-.970	-3.88	.22751	.003	1
S5	50.000	53.524	3.52	7.05	.50541	.018	1
S1	2.0000	1.7771	-.223	-11.1	.01784	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



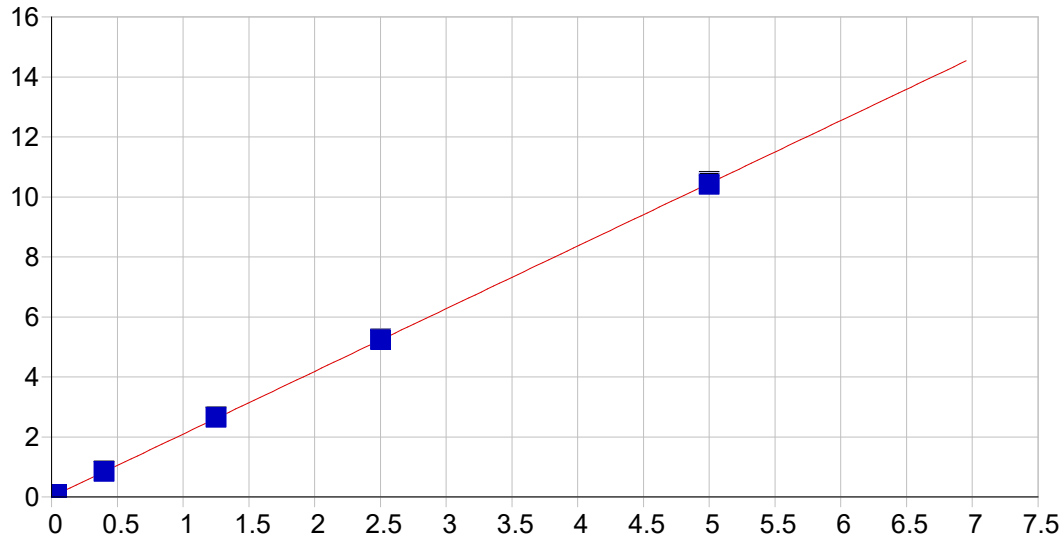
V 292.402 {115}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000137	Re-Slope:	1.000000
A1 (Gain):	0.102875	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.001920		
Predicted MQL:	0.006401		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00014	.000	1
S1	.04000	.04123	.001	3.09	.00395	.000	1
S3	1.2500	1.2269	-.023	-1.85	.12420	.001	1
S4	2.5000	2.4884	-.012	-.465	.25210	.000	1
S5	5.0000	5.0427	.043	.855	.51114	.003	1
S2	.40000	.39081	-.009	-2.30	.03947	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



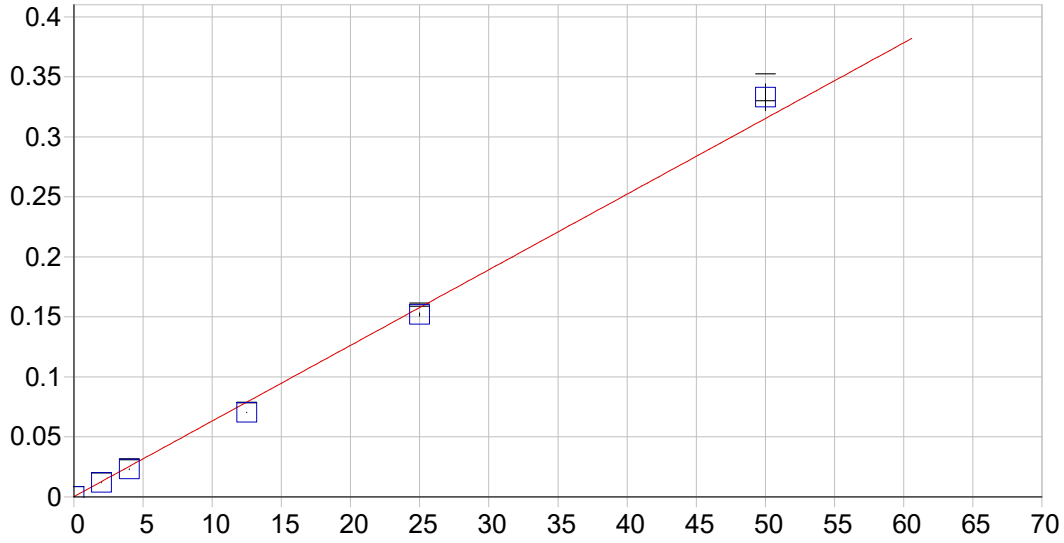
Zn 213.856 {158}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003385	Re-Slope:	1.000000
A1 (Gain):	2.090002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000298		
Predicted MDL:	0.000409		
Predicted MQL:	0.001364		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00338	.001	1
S1	.04000	.04150	.002	3.75	.09071	.002	1
S3	1.2500	1.2644	.014	1.15	2.6642	.011	1
S4	2.5000	2.5020	.002	.078	5.2688	.005	1
S5	5.0000	4.9789	-.021	-.422	10.482	.031	1
S2	.40000	.40326	.003	.815	.85201	.009	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



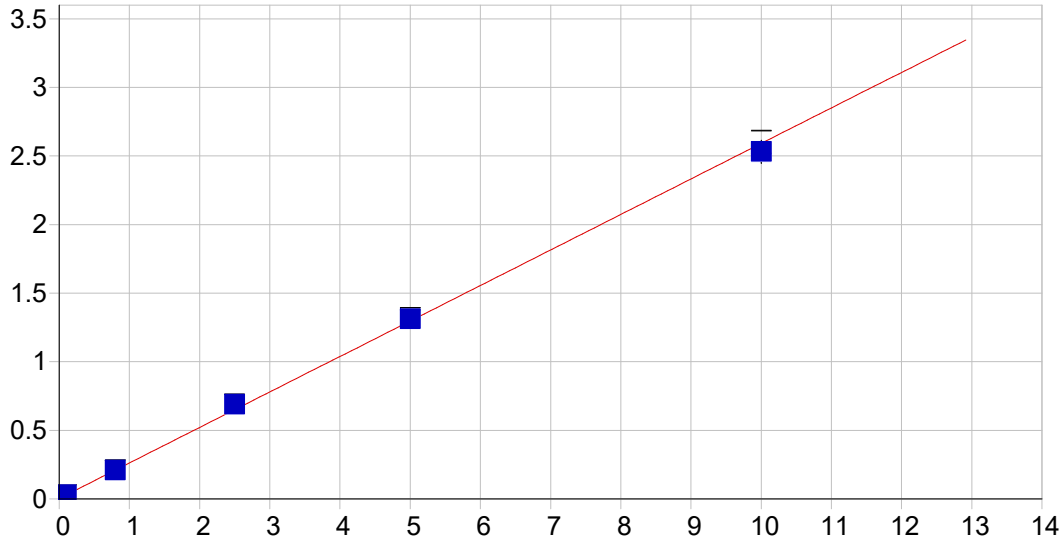
K 766.490 { 44}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000240	Re-Slope:	1.000000
A1 (Gain):	0.006300	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997934	Status:	OK.
Std Error of Est:	0.000215		
Predicted MDL:	0.036185		
Predicted MQL:	0.120616		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00052	.001	.000	.00024	.000	1
S2	4.0000	3.6290	-.371	-9.27	.02310	.000	1
S3	12.500	11.129	-1.37	-11.0	.07035	.000	1
S4	25.000	24.089	-.911	-3.64	.15199	.001	1
S5	50.000	52.806	2.81	5.61	.33290	.011	1
S1	2.0000	1.8468	-.153	-7.66	.01187	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



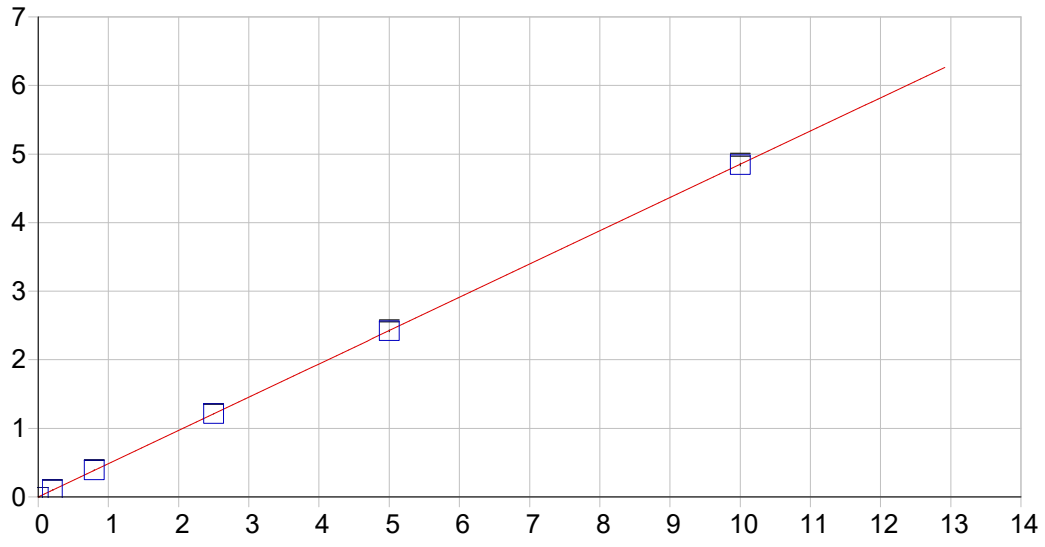
B 249.678 {135}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003102	Re-Slope:	1.000000
A1 (Gain):	0.258841	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999569	Status:	OK.
Std Error of Est:	0.000399		
Predicted MDL:	0.000882		
Predicted MQL:	0.002939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00310	.000	1
S1	.10000	.10545	.005	5.45	.03029	.000	1
S3	2.5000	2.6543	.154	6.17	.68903	.000	1
S4	5.0000	5.0660	.066	1.32	1.3122	.008	1
S5	10.000	9.7735	-.226	-2.26	2.5285	.083	1
S2	.80000	.80073	.001	.091	.21001	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



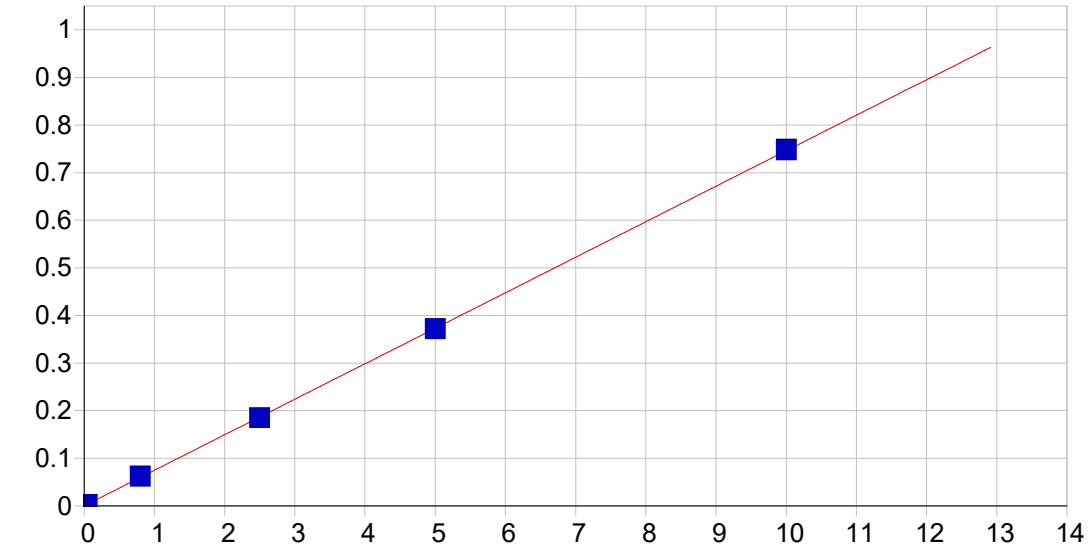
Mo 202.030 {467}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000213	Re-Slope:	1.000000
A1 (Gain):	0.485064	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000247		
Predicted MDL:	0.000379		
Predicted MQL:	0.001263		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00021	.000	1
S1	.20000	.21152	.012	5.76	.10282	.000	1
S3	2.5000	2.4965	-.004	-.140	1.2112	.002	1
S4	5.0000	4.9917	-.008	-.165	2.4215	.014	1
S5	10.000	9.9886	-.011	-.114	4.8453	.022	1
S2	.80000	.81167	.012	1.46	.39392	.005	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



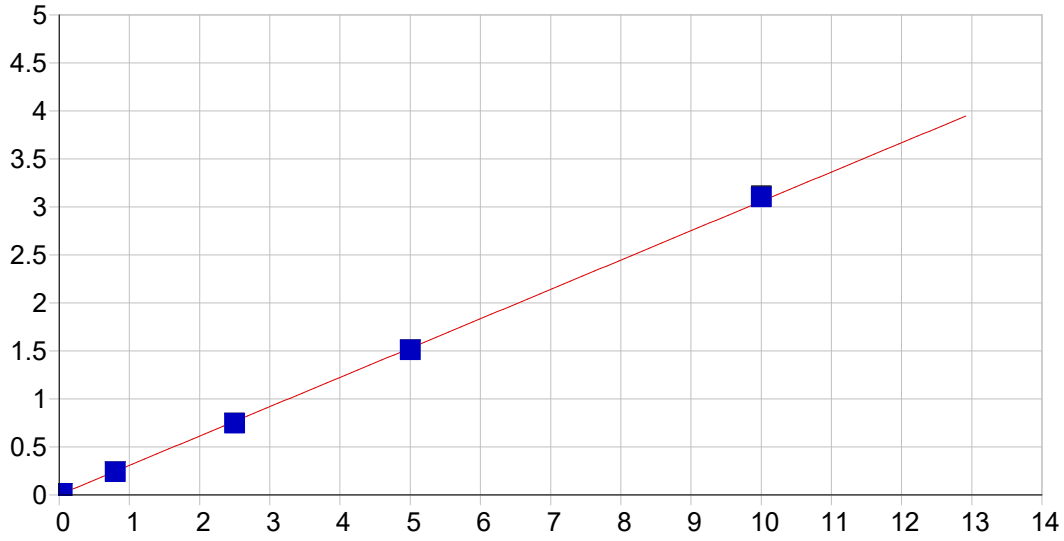
Sn 189.989 {478}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000237	Re-Slope:	1.000000
A1 (Gain):	0.074588	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001211		
Predicted MQL:	0.004035		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00024	.000	1
S1	.04000	.04264	.003	6.60	.00341	.000	1
S3	2.5000	2.4774	-.023	-.904	.18483	.000	1
S4	5.0000	4.9773	-.023	-.454	.37110	.001	1
S5	10.000	10.016	.016	.163	.74656	.002	1
S2	.80000	.82637	.026	3.30	.06181	.001	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



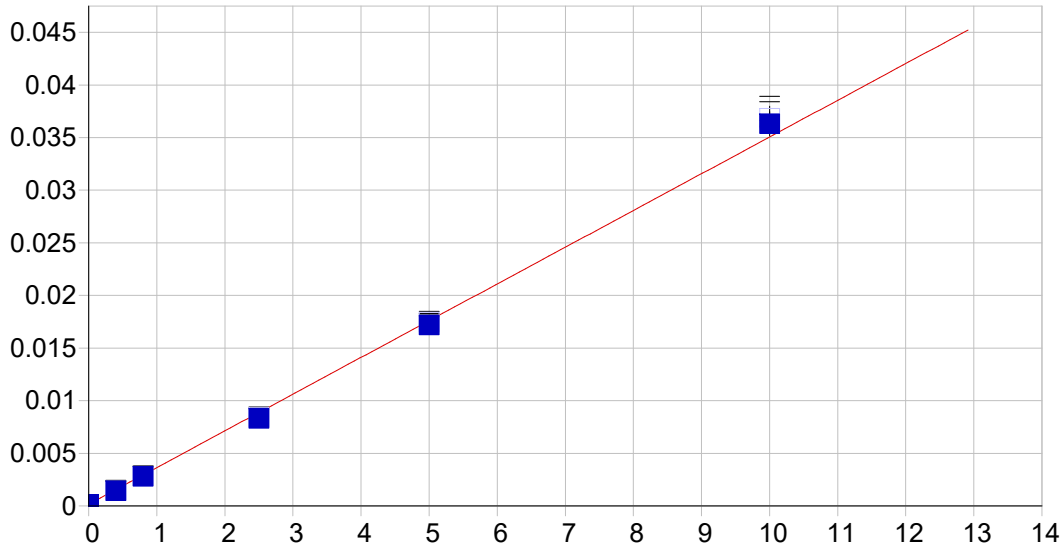
Ti 336.121 {100}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002080	Re-Slope:	1.000000
A1 (Gain):	0.305492	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999852	Status:	OK.
Std Error of Est:	0.000174		
Predicted MDL:	0.000938		
Predicted MQL:	0.003128		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00208	.000	1
S1	.04000	.04129	.001	3.21	.01468	.000	1
S3	2.5000	2.4323	-.068	-2.71	.74486	.002	1
S4	5.0000	4.9367	-.063	-1.27	1.5096	.003	1
S5	10.000	10.150	.150	1.50	3.1016	.011	1
S2	.80000	.78008	-.020	-2.49	.24030	.002	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



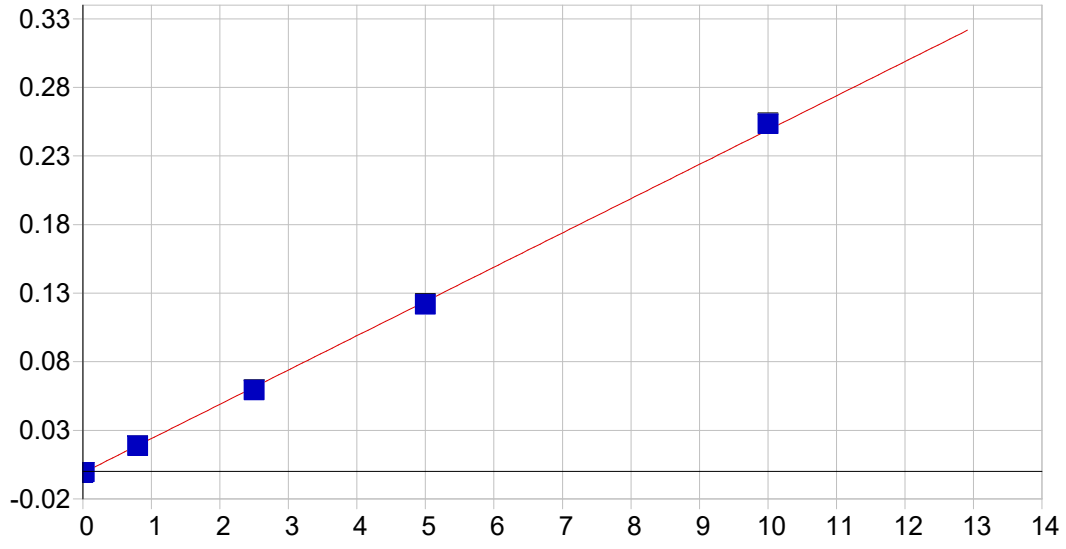
Si 288.158 {117}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000149	Re-Slope:	1.000000
A1 (Gain):	0.003491	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999177	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.011817		
Predicted MQL:	0.039390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00015	.000	1
S1	.40000	.36886	-.031	-7.79	.00144	.000	1
S3	2.5000	2.3334	-.167	-6.67	.00842	.000	1
S4	5.0000	4.8809	-.119	-2.38	.01745	.000	1
S5	10.000	10.360	.360	3.60	.03684	.001	1
S2	.80000	.75641	-.044	-5.45	.00283	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



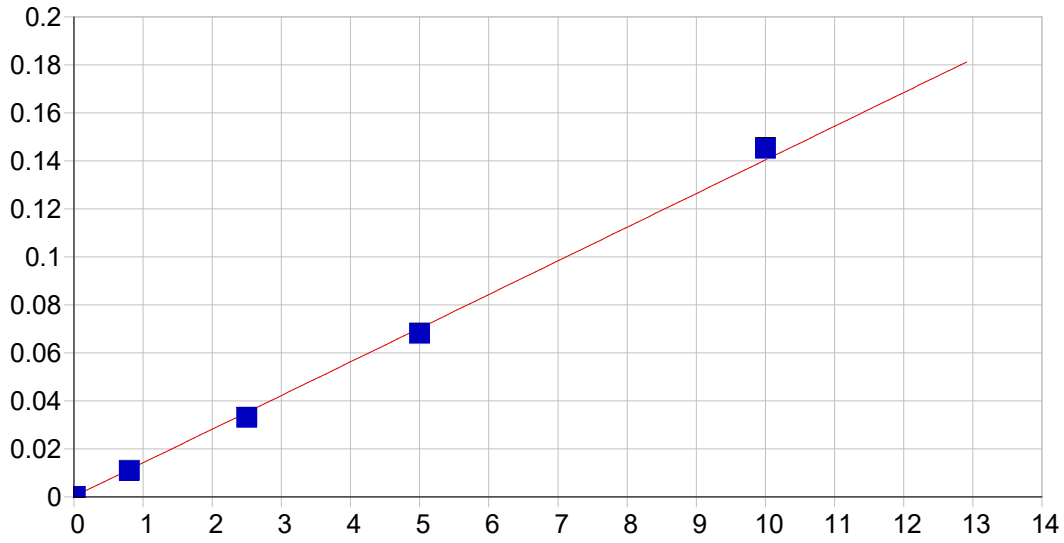
P 177.495 {490}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000978	Re-Slope:	1.000000
A1 (Gain):	0.024988	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999758	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.003964		
Predicted MQL:	0.013213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00098	.000	1
S1	.02000	.02326	.003	16.3	-.00040	.000	1
S3	2.5000	2.4107	-.089	-3.57	.05925	.000	1
S4	5.0000	4.9112	-.089	-1.78	.12172	.000	1
S5	10.000	10.185	.185	1.85	.25349	.001	1
S2	.80000	.78964	-.010	-1.30	.01875	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



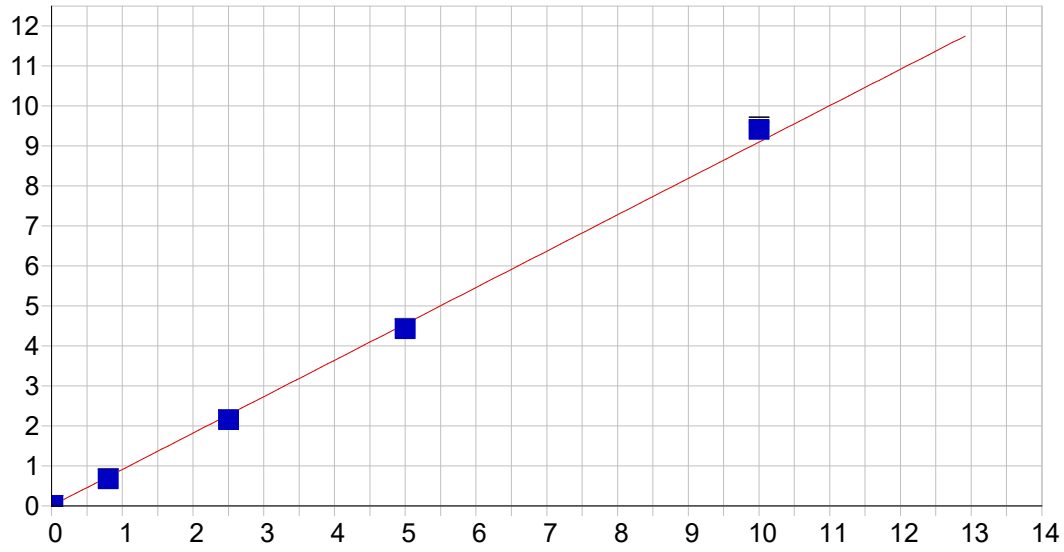
S 182.034 {485}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000185	Re-Slope:	1.000000
A1 (Gain):	0.014023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999223	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.005668		
Predicted MQL:	0.018894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00019	.000	1
S1	.02000	.01542	-.005	-22.9	.00039	.000	1
S3	2.5000	2.3490	-.151	-6.04	.03303	.000	1
S4	5.0000	4.8415	-.158	-3.17	.06789	.000	1
S5	10.000	10.345	.345	3.45	.14489	.000	1
S2	.80000	.76841	-.032	-3.95	.01093	.000	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



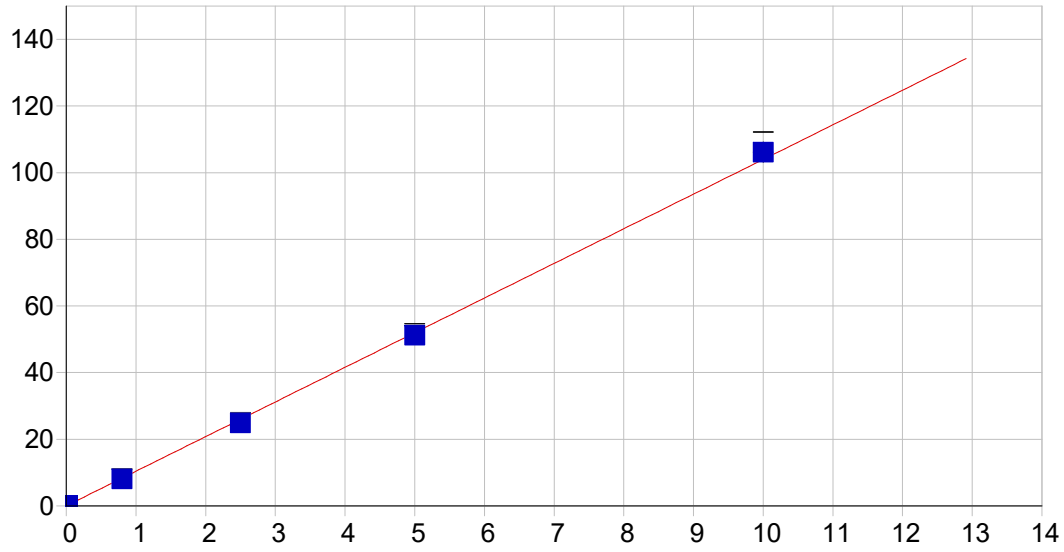
Li 670.784 { 50}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001993	Re-Slope:	1.000000
A1 (Gain):	0.909779	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999237	Status:	OK.
Std Error of Est:	0.000833		
Predicted MDL:	0.001198		
Predicted MQL:	0.003992		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00200	.000	1
S5	10.000	10.340	.340	3.40	9.4132	.064	1
S4	5.0000	4.8637	-.136	-2.73	4.4291	.010	1
S3	2.5000	2.3612	-.139	-5.55	2.1513	.002	1
S1	.02000	.01815	-.002	-9.24	.01880	.001	1
S2	.80000	.73754	-.062	-7.81	.67335	.005	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699



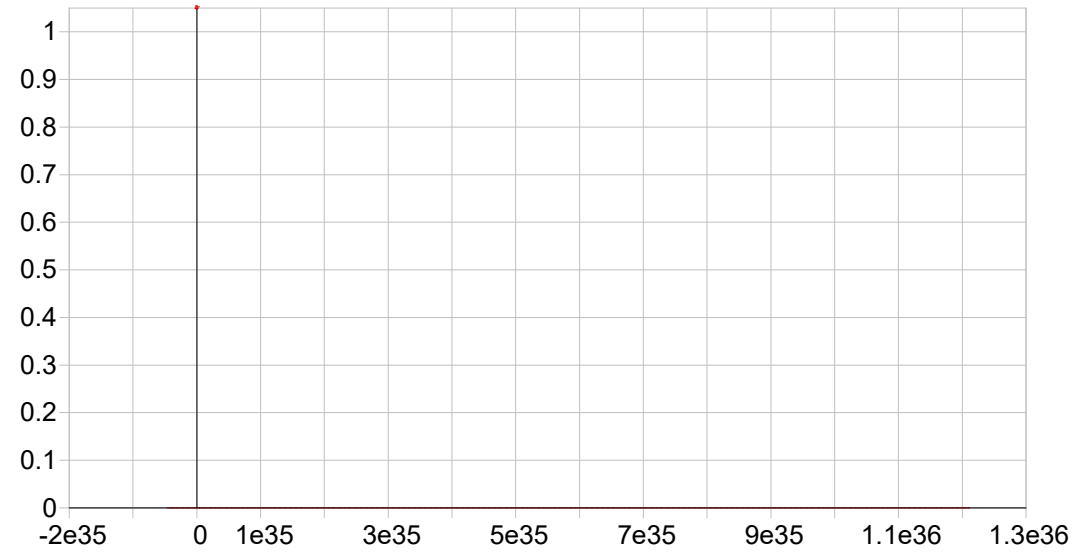
Sr 407.771 { 83}

Date of Fit:	5/8/2025 12:28:02	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001380	Re-Slope:	1.000000
A1 (Gain):	10.395459	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999692	Status:	OK.
Std Error of Est:	0.006051		
Predicted MDL:	0.000063		
Predicted MQL:	0.000211		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00140	.000	1
S1	.02000	.01979	-.000	-1.03	.20814	.001	1
S3	2.5000	2.3886	-.111	-4.46	24.857	.196	1
S4	5.0000	4.9263	-.074	-1.47	51.262	.411	1
S5	10.000	10.211	.211	2.11	106.25	3.03	1
S2	.80000	.77456	-.025	-3.18	8.0613	.065	1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

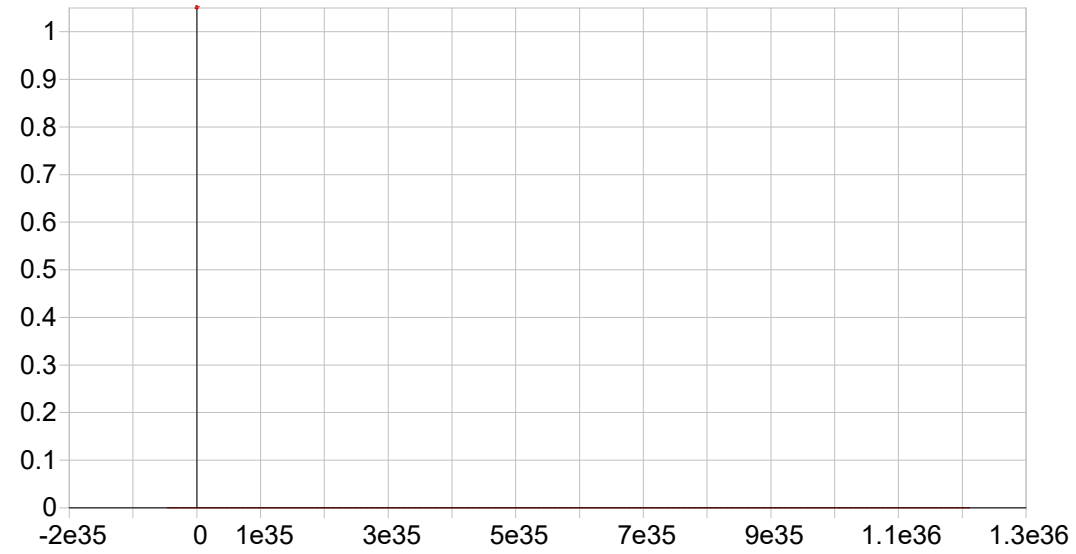


Y 224.306 {450}*

Date of Fit:	5/8/2025 12:28:02	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}*

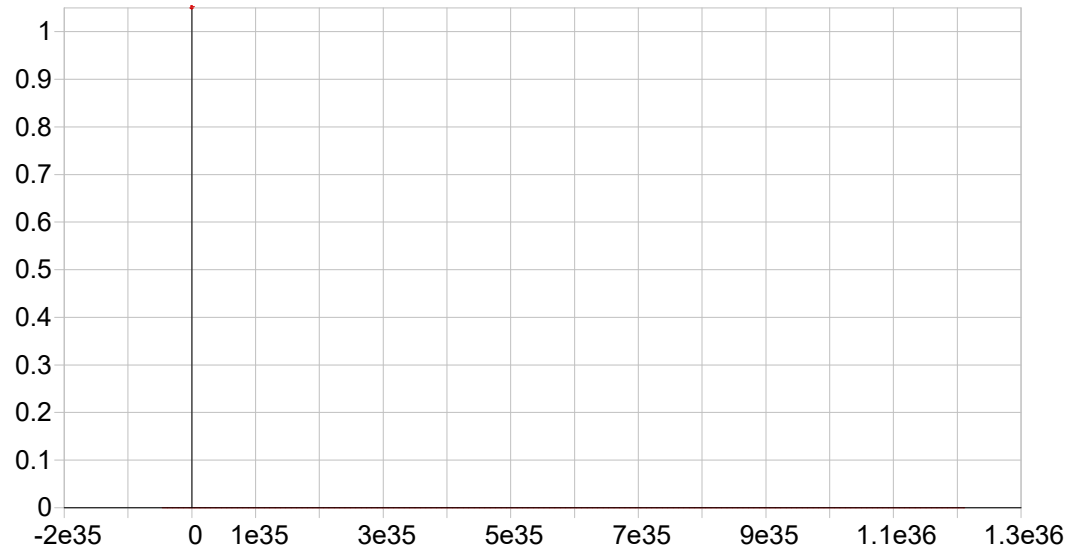
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

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

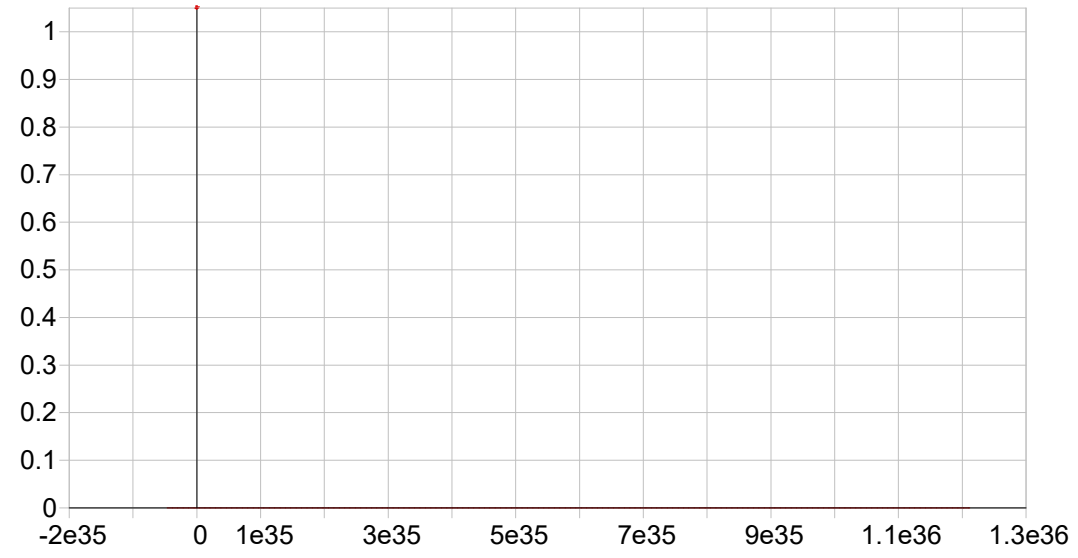


Y 371.030 { 91}*

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:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

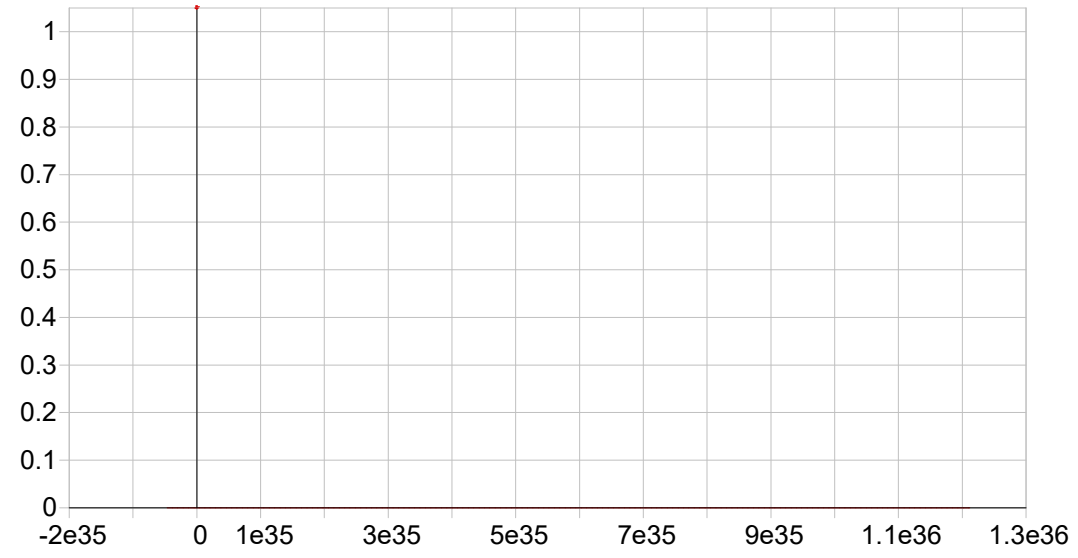


Y 224.306 {150}*

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:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

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:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S0 Acquired: 5/7/2025 12:34:20 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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**	**-.00012**	**-.00029**	**.00028**	**.00022**	**-.00007**	**.04669**	**.00003**
Stddev	.00011	.00006	.00007	.00016	.00003	.00047	.00270	.00018
%RSD	180.29	46.294	24.012	57.921	14.665	676.25	5.7780	587.04
#1	.00004	-.00018	-.00029	.00011	.00025	.00034	.04701	-.00015
#2	-.00018	-.00011	-.00023	.00030	.00022	-.00058	.04384	.00002
#3	-.00004	-.00007	-.00037	.00042	.00019	.00003	.04921	.00022

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	**-.00006**	**.00036**	**.00012**	**.00004**	**-.00074**	**.00003**	**.00353**	**.00004**
Stddev	.00007	.00029	.00001	.00010	.00012	.00005	.00002	.00016
%RSD	119.58	81.596	11.164	256.38	15.549	183.37	.69452	428.56
#1	-.00003	.00063	.00012	.00013	-.00081	.00000	.00354	-.00008
#2	-.00001	.00005	.00014	.00005	-.00061	.00008	.00351	.00021
#3	-.00014	.00039	.00011	-.00007	-.00081	-.00001	.00356	-.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	**-.00026**	**-.00133**	**.00110**	**-.00014**	**.00338**	**.00024**	**.00310**	**.00021**
Stddev	.00003	.00002	.00015	.00002	.00055	.00009	.00005	.00011
%RSD	11.463	1.4367	13.979	16.023	16.366	35.881	1.6541	51.922
#1	-.00028	-.00131	.00104	-.00015	.00356	.00016	.00311	.00029
#2	-.00028	-.00132	.00128	-.00011	.00382	.00024	.00304	.00008
#3	-.00023	-.00135	.00099	-.00015	.00276	.00033	.00314	.00025

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	**.00024**	**.00208**	**.00015**	**-.00098**	**.00019**	**.00200**	**.00140**
Stddev	.00006	.00023	.00005	.00002	.00002	.00018	.00015
%RSD	23.856	11.081	30.721	2.4323	12.756	8.9935	10.737
#1	.00029	.00235	.00013	-.00100	.00020	.00185	.00148
#2	.00023	.00194	.00020	-.00096	.00020	.00195	.00122
#3	.00018	.00196	.00012	-.00098	.00016	.00220	.00149

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S0 Acquired: 5/7/2025 12:34:20 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2968.3	68862.	14026.	1973.1	4596.1
Stddev	2.8	62.	50.	10.6	5.3
%RSD	.09328	.08981	.35722	.53801	.11639
#1	2965.1	68791.	14082.	1961.8	4590.0
#2	2969.8	68907.	14011.	1982.8	4600.0
#3	2969.9	68886.	13985.	1974.8	4598.4

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S1 Acquired: 5/7/2025 12:38:44 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.00067**	**.00214**	**.00183**	**.00115**	**.00618**	**.00544**	**.21473**	**.01550**
Stddev	.00005	.00007	.00016	.00012	.00010	.00026	.00043	.00020
%RSD	6.9477	3.3462	8.8868	10.244	1.6039	4.8582	.20202	1.3122
#1	.00068	.00220	.00188	.00122	.00609	.00575	.21521	.01544
#2	.00070	.00206	.00196	.00122	.00628	.00531	.21463	.01533
#3	.00061	.00216	.00165	.00102	.00615	.00527	.21436	.01572

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	**.01151**	**.07468**	**.00155**	**.01985**	**.01260**	**.00041**	**.01060**	**.02994**
Stddev	.00028	.00034	.00007	.00014	.00030	.00001	.00014	.00019
%RSD	2.4563	.45297	4.7670	.68988	2.3917	2.1301	1.3571	.64022
#1	.01128	.07431	.00164	.01998	.01235	.00042	.01068	.02980
#2	.01182	.07477	.00151	.01970	.01293	.00040	.01068	.02987
#3	.01142	.07497	.00151	.01986	.01251	.00041	.01043	.03016

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	**.01579**	**.00106**	**.01784**	**.00395**	**.09071**	**.01187**	**.03029**	**.10282**
Stddev	.00007	.00003	.00013	.00025	.00177	.00012	.00006	.00022
%RSD	.47176	3.1683	.73156	6.2937	1.9474	1.0139	.18792	.20966
#1	.01570	.00109	.01778	.00382	.09180	.01177	.03030	.10270
#2	.01583	.00105	.01775	.00424	.09165	.01185	.03035	.10268
#3	.01583	.00103	.01799	.00380	.08867	.01200	.03024	.10306

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	**.00341**	**.01468**	**.00144**	**-.00040**	**.00039**	**.01880**	**.20814**
Stddev	.00007	.00018	.00004	.00001	.00002	.00073	.00056
%RSD	1.9229	1.1967	2.6421	3.2987	5.3411	3.8972	.26896
#1	.00335	.01475	.00147	-.00039	.00037	.01827	.20842
#2	.00341	.01448	.00140	-.00041	.00041	.01850	.20851
#3	.00348	.01482	.00144	-.00039	.00038	.01963	.20750

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S1 Acquired: 5/7/2025 12:38:44 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**2945.9**	**69055.**	**13807.**	**1972.8**	**4544.8**
Stddev	4.2	85.	14.	5.5	3.9
%RSD	.14407	.12279	.10127	.28128	.08472
#1	2949.2	69048.	13823.	1966.4	4545.6
#2	2941.1	69142.	13802.	1975.6	4548.2
#3	2947.4	68973.	13797.	1976.3	4540.6

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S2 Acquired: 5/7/2025 12:43:04 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.02907**	**.04372**	**.12397**	**.03965**	**.09164**	**.08205**	**2.7280**	**.10355**
Stddev	.00034	.00056	.00088	.00055	.00094	.00094	.0244	.00070
%RSD	1.1831	1.2794	.71028	1.3836	1.0213	1.1487	.89542	.67206
#1	.02874	.04316	.12344	.03917	.09105	.08313	2.7495	.10432
#2	.02904	.04371	.12349	.03953	.09114	.08138	2.7014	.10297
#3	.02942	.04428	.12499	.04025	.09272	.08164	2.7331	.10336

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	**.73070**	**.14504**	**.02349**	**.26429**	**.12085**	**.00319**	**.19122**	**.05486**
Stddev	.00682	.00109	.00029	.00245	.00139	.00001	.00198	.00029
%RSD	.93320	.75405	1.2200	.92803	1.1496	.35228	1.0352	.52427
#1	.72675	.14553	.02362	.26330	.12000	.00319	.19263	.05509
#2	.72677	.14379	.02370	.26248	.12011	.00320	.18896	.05453
#3	.73857	.14581	.02317	.26708	.12246	.00318	.19208	.05494

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	**.16059**	**.04493**	**.03425**	**.03947**	**.85201**	**.02310**	**.21001**	**.39392**
Stddev	.00149	.00055	.00043	.00067	.00861	.00035	.00090	.00477
%RSD	.92706	1.2328	1.2465	1.6922	1.0107	1.5001	.42942	1.2110
#1	.15979	.04510	.03427	.04022	.85926	.02275	.21104	.39102
#2	.15967	.04538	.03466	.03896	.85429	.02344	.20963	.39133
#3	.16231	.04431	.03381	.03922	.84249	.02311	.20935	.39943

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	**.06181**	**.24030**	**.00283**	**.01875**	**.01093**	**.67335**	**8.0613**
Stddev	.00054	.00188	.00003	.00028	.00008	.00547	.0655
%RSD	.87729	.78160	.95384	1.5188	.74132	.81270	.81224
#1	.06136	.24159	.00282	.01850	.01087	.67812	8.1165
#2	.06167	.23815	.00286	.01869	.01090	.66738	7.9889
#3	.06241	.24117	.00281	.01906	.01102	.67456	8.0784

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S2 Acquired: 5/7/2025 12:43:04 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**2857.3**	**68392.**	**13723.**	**1940.7**	**4375.8**
Stddev	27.7	565.	48.	11.1	34.4
%RSD	.96833	.82608	.35336	.57395	.78624
#1	2869.3	68225.	13682.	1937.9	4393.3
#2	2876.9	67930.	13776.	1931.2	4398.0
#3	2825.6	69022.	13710.	1953.0	4336.2

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S3 Acquired: 5/7/2025 12:47:10 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.08846**	**.13522**	**.37665**	**.12091**	**.28071**	**.26103**	**8.4012**	**.34006**
Stddev	.00010	.00148	.00047	.00060	.00058	.00027	.0136	.00139
%RSD	.11129	1.0982	.12462	.49379	.20513	.10363	.16171	.40911
#1	.08838	.13396	.37640	.12055	.28089	.26103	8.4169	.34130
#2	.08844	.13485	.37636	.12057	.28006	.26130	8.3932	.34034
#3	.08857	.13686	.37719	.12160	.28117	.26076	8.3936	.33856

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	**2.1994**	**.45419**	**.07278**	**.80568**	**.36637**	**.00947**	**.59043**	**.17242**
Stddev	.0013	.00177	.00005	.00115	.00095	.00008	.00249	.00029
%RSD	.06072	.38931	.06984	.14226	.25939	.80005	.42175	.16580
#1	2.2009	.45607	.07276	.80678	.36684	.00953	.59329	.17247
#2	2.1992	.45392	.07274	.80449	.36527	.00938	.58930	.17267
#3	2.1983	.45257	.07284	.80578	.36698	.00950	.58871	.17211

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	**.48602**	**.14245**	**.10145**	**.12420**	**2.6642**	**.07035**	**.68903**	**1.2112**
Stddev	.00070	.00020	.00071	.00054	.0114	.00029	.00045	.0018
%RSD	.14314	.14043	.69524	.43142	.42798	.40733	.06490	.14564
#1	.48683	.14236	.10187	.12445	2.6521	.07047	.68851	1.2108
#2	.48561	.14231	.10064	.12359	2.6656	.07002	.68933	1.2096
#3	.48563	.14268	.10185	.12457	2.6748	.07055	.68924	1.2131

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	**.18483**	**.74486**	**.00842**	**.05925**	**.03303**	**2.1513**	**24.857**
Stddev	.00033	.00170	.00001	.00029	.00008	.0022	.196
%RSD	.17633	.22765	.17427	.48838	.24504	.10479	.78792
#1	.18485	.74673	.00844	.05918	.03305	2.1518	24.632
#2	.18450	.74443	.00841	.05900	.03294	2.1532	24.993
#3	.18515	.74342	.00843	.05957	.03310	2.1488	24.945

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S3 Acquired: 5/7/2025 12:47:10 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**2919.4**	**67876.**	**12999.**	**1907.2**	**4460.2**
Stddev	3.8	66.	61.	9.3	10.2
%RSD	.13072	.09774	.46911	.48566	.22802
#1	2915.0	67915.	12992.	1915.2	4450.4
#2	2920.9	67800.	12942.	1897.1	4459.5
#3	2922.2	67914.	13063.	1909.3	4470.7

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S4 Acquired: 5/7/2025 12:51:19 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.17910**	**.27034**	**.75525**	**.24487**	**.57244**	**.52291**	**17.348**	**.63953**
Stddev	.00070	.00281	.00316	.00165	.00480	.00063	.239	.00503
%RSD	.39179	1.0397	.41793	.67244	.83798	.11986	1.3803	.78589
#1	.17829	.27123	.75162	.24297	.56696	.52251	17.619	.63383
#2	.17954	.27259	.75737	.24594	.57444	.52258	17.262	.64143
#3	.17947	.26719	.75676	.24569	.57591	.52363	17.164	.64333

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	**4.4007**	**.90452**	**.14171**	**1.6150**	**.73319**	**.02032**	**1.1865**	**.34192**
Stddev	.0052	.00303	.00019	.0027	.00515	.00024	.0068	.00063
%RSD	.11912	.33505	.13701	.16881	.70290	1.1946	.57042	.18527
#1	4.3947	.90744	.14190	1.6120	.72724	.02059	1.1917	.34249
#2	4.4045	.90139	.14174	1.6172	.73621	.02012	1.1789	.34202
#3	4.4029	.90474	.14151	1.6159	.73612	.02026	1.1890	.34124

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	**.96733**	**.28539**	**.22751**	**.25210**	**5.2688**	**.15199**	**1.3122**	**2.4215**
Stddev	.00215	.00054	.00251	.00025	.0052	.00138	.0084	.0141
%RSD	.22247	.18877	1.1040	.10107	.09894	.91056	.64023	.58403
#1	.96484	.28586	.23010	.25240	5.2736	.15344	1.3025	2.4053
#2	.96863	.28480	.22509	.25192	5.2695	.15068	1.3172	2.4312
#3	.96851	.28550	.22735	.25200	5.2633	.15186	1.3169	2.4281

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	**.37110**	**1.5096**	**.01745**	**.12172**	**.06789**	**4.4291**	**51.262**
Stddev	.00076	.0027	.00011	.00047	.00023	.0102	.411
%RSD	.20584	.17688	.60365	.38825	.33669	.22960	.80134
#1	.37066	1.5120	.01755	.12144	.06765	4.4309	51.187
#2	.37198	1.5068	.01734	.12227	.06811	4.4182	51.705
#3	.37066	1.5101	.01746	.12146	.06792	4.4383	50.894

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S4 Acquired: 5/7/2025 12:51:19 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2902.3	68570.	13852.	1902.6	4387.3
Stddev	14.1	484.	5.	13.6	9.7
%RSD	.48414	.70630	.03363	.71712	.22141
#1	2918.3	68013.	13847.	1887.5	4397.5
#2	2897.1	68895.	13854.	1906.1	4386.2
#3	2891.6	68801.	13856.	1914.1	4378.1

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S5 Acquired: 5/7/2025 12:55:32 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.37290	.54032	1.5115	.51229	1.1925	1.0681	36.274	1.1975
Stddev	.00215	.00197	.0040	.00458	.0108	.0020	.556	.0333
%RSD	.57626	.36416	.26107	.89361	.90468	.18552	1.5328	2.7848
#1	.37197	.53884	1.5118	.51100	1.1903	1.0703	35.651	1.2309
#2	.37137	.54255	1.5152	.50849	1.1830	1.0666	36.719	1.1974
#3	.37536	.53955	1.5074	.51737	1.2042	1.0672	36.452	1.1642

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	8.8492	1.7909	.27166	3.2616	1.4886	.04090	2.3802	.67371
Stddev	.0274	.0242	.00248	.0019	.0091	.00083	.0198	.01081
%RSD	.30974	1.3523	.91225	.05676	.60845	2.0219	.83069	1.6049
#1	8.8533	1.8182	.26941	3.2609	1.4863	.04014	2.4021	.68614
#2	8.8744	1.7828	.27126	3.2638	1.4810	.04078	2.3749	.66845
#3	8.8200	1.7719	.27432	3.2603	1.4987	.04179	2.3637	.66653

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	1.9481	.57368	.50541	.51114	10.482	.33290	2.5285	4.8453
Stddev	.0028	.00202	.01757	.00303	.031	.01121	.0830	.0222
%RSD	.14262	.35266	3.4772	.59253	.29234	3.3673	3.2822	.45731
#1	1.9484	.57141	.48786	.51457	10.492	.32185	2.6102	4.8395
#2	1.9507	.57432	.50538	.50999	10.506	.33258	2.5310	4.8267
#3	1.9451	.57530	.52301	.50885	10.447	.34426	2.4442	4.8698

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	.74656	3.1016	.03684	.25349	.14489	9.4132	106.25
Stddev	.00219	.0106	.00115	.00050	.00030	.0636	3.03
%RSD	.29369	.34114	3.1202	.19726	.20615	.67596	2.8563
#1	.74669	3.1130	.03570	.25317	.14459	9.3398	104.29
#2	.74869	3.0997	.03681	.25406	.14489	9.4468	109.74
#3	.74431	3.0921	.03800	.25323	.14519	9.4530	104.70

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: S5 Acquired: 5/7/2025 12:55:32 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**2798.2**	**70448.**	**14798.**	**1876.7**	**4184.2**
Stddev	7.9	773.	362.	3.8	12.4
%RSD	.28327	1.0971	2.4433	.20461	.29650
#1	2804.0	70992.	14406.	1875.3	4189.6
#2	2801.4	70788.	14868.	1881.0	4170.0
#3	2789.2	69563.	15119.	1873.7	4193.0

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICV01 Acquired: 5/7/2025 12:59:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.9676585**	**1.023524**	**.9799268**	**.9958730**	**.9647134**	**2.306094**
Stddev	.0014103	.015130	.0016276	.0039535	.0048555	.003177
%RSD	.1457441	1.478274	.1660892	.3969879	.5033087	.1377659
#1	.9691793	1.037080	.9798705	.9913520	.9593934	2.309726
#2	.9663937	1.026289	.9815818	.9986815	.9689062	2.304720
#3	.9674025	1.007201	.9783282	.9975856	.9658405	2.303834

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5338326**	**.5147060**	**.5005371**	**9.397889**	**.5031874**	**.4880083**
Stddev	.0012211	.0017356	.0019556	.026522	.0013756	.0023304
%RSD	.2287345	.3371936	.3906934	.2822152	.2733778	.4775304
#1	.5347021	.5161438	.4982815	9.428458	.5026487	.4854348
#2	.5324366	.5151961	.5015732	9.384213	.5021627	.4899758
#3	.5343590	.5127781	.5017566	9.380996	.5047509	.4886143

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4946727**	**10.98919**	**.4879687**	**5.442909**	**.4924159**	**.2314088**
Stddev	.0019843	.03193	.0014022	.028997	.0011405	.0004786
%RSD	.4011349	.2905403	.2873615	.5327405	.2316057	.2068007
#1	.4924530	10.97227	.4895201	5.453464	.4910996	.2318989
#2	.4952905	10.96929	.4875947	5.465149	.4931079	.2309427
#3	.4962746	11.02602	.4867915	5.410113	.4930403	.2313847

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.07114**	**.4656421**	**.9699852**	**10.58275**	F **2.221177**	**2.431227**
Stddev	.05994	.0020392	.0024268	.00659	.006145	.005133
%RSD	.5951223	.4379320	.2501862	.0622331	.2766433	.2111145
#1	10.09224	.4678563	.9712933	10.57955	2.226073	2.426016
#2	10.00351	.4638412	.9671850	10.57838	2.223178	2.431389
#3	10.11768	.4652289	.9714772	10.59032	2.214282	2.436277

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICV01 Acquired: 5/7/2025 12:59:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**2.387854**	**2.353060**	F **2.181271**	F **.0094044**	F **-.008364**	F **.0018076**
Stddev	.008564	.003347	.016362	.0016532	.000515	.0005859
%RSD	.3586595	.1422523	.7501102	17.57861	6.153945	32.41492
#1	2.379203	2.356778	2.200076	.0101500	-.008263	.0024472
#2	2.396329	2.350287	2.170295	.0075097	-.008921	.0012967
#3	2.388031	2.352115	2.173441	.0105534	-.007906	.0016790

Elem	Sr4077
Units	ppm
Avg	F **-.008973**
Stddev	.000070
%RSD	.7754498
#1	-.008962
#2	-.008910
#3	-.009047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2926.293**	**70401.42**	**15332.12**	**1961.654**	**4503.586**
Stddev	4.733	172.76	61.11	2.410	10.822
%RSD	.1617396	.2453867	.3985489	.1228437	.2403033
#1	2931.748	70201.94	15282.77	1960.385	4513.747
#2	2923.846	70500.20	15313.14	1964.433	4492.206
#3	2923.284	70502.11	15400.47	1960.144	4504.804

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: LLICV01 Acquired: 5/7/2025 13:05:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0198464**	**.0432407**	**.0127738**	**.0182644**	**.0508602**	**.1006468**
Stddev	.0028700	.0021924	.0005126	.0018021	.0011931	.0061728
%RSD	14.46110	5.070340	4.012759	9.866696	2.345852	6.133159
#1	.0174236	.0436894	.0130897	.0201136	.0517666	.0943801
#2	.0190997	.0451741	.0130493	.0165134	.0495085	.1067213
#3	.0230160	.0408587	.0121824	.0181663	.0513055	.1008390

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0868902**	**.0056878**	**.0061013**	**1.946910**	**.0095938**	**.0287252**
Stddev	.0005423	.0000191	.0000222	.013646	.0006963	.0001254
%RSD	.6241546	.3364003	.3643782	.7008958	7.257337	.4365802
#1	.0864081	.0056973	.0061259	1.939738	.0102261	.0286516
#2	.0874774	.0056657	.0060955	1.962646	.0097076	.0286539
#3	.0867851	.0057003	.0060826	1.938346	.0088476	.0288700

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0215226**	**.0969792**	**.0225329**	**2.044674**	**.0388618**	**.0102820**
Stddev	.0000212	.0016969	.0002706	.015758	.0004666	.0003644
%RSD	.0985699	1.749722	1.201021	.7706856	1.200700	3.544304
#1	.0215260	.0977593	.0222228	2.026731	.0385117	.0099092
#2	.0215419	.0950325	.0227212	2.051029	.0393915	.0102993
#3	.0214999	.0981456	.0226547	2.056262	.0386823	.0106375

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.788445**	**.0407952**	**.0409965**	**1.877240**	**.1086577**	**.2052561**
Stddev	.000314	.0007696	.0001204	.005603	.0011984	.0003109
%RSD	.0175371	1.886550	.2936727	.2984859	1.102914	.1514574
#1	1.788203	.0402679	.0411274	1.874947	.1072776	.2051621
#2	1.788332	.0404392	.0408906	1.883627	.1094345	.2056031
#3	1.788799	.0416783	.0409716	1.873148	.1092612	.2050030

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: LLICV01 Acquired: 5/7/2025 13:05:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0389680	.0397378	.3887947	F .0254627	.0172409	.0175382
Stddev	.0007832	.0003702	.0046831	.0025644	.0003892	.0008908
%RSD	2.009795	.9317319	1.204524	10.07107	2.257492	5.079358
#1	.0386899	.0400767	.3849366	.0281800	.0168711	.0165178
#2	.0383618	.0393427	.3874421	.0230851	.0176470	.0181610
#3	.0398523	.0397942	.3940052	.0251229	.0172045	.0179357

Elem	Sr4077
Units	ppm
Avg	.0192554
Stddev	.0000709
%RSD	.3681489
#1	.0193282
#2	.0191866
#3	.0192514

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2978.079	70341.65	14581.86	1962.520	4685.566
Stddev	5.672	123.20	67.33	8.620	6.833
%RSD	.1904540	.1751461	.4617076	.4392377	.1458269
#1	2984.287	70208.80	14649.19	1953.526	4693.322
#2	2973.168	70364.01	14581.86	1970.710	4682.938
#3	2976.781	70452.14	14514.54	1963.324	4680.437

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICB01 Acquired: 5/7/2025 13:09:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0005910**	**-.000157**	**.0007759**	**-.001976**	**.0009844**	**.0004279**	**-.006249**
Stddev	.0031023	.000363	.0006498	.002577	.0009500	.0022156	.000453
%RSD	524.9494	231.2407	83.74397	130.4301	96.50198	517.8488	7.253856
#1	.0016351	.000109	.0000273	-.003852	.0016023	-.002007	-.006380
#2	.0030365	-.000009	.0011934	.000963	-.000109	.000966	-.006622
#3	-.002899	-.000570	.0011071	-.003038	.001460	.002325	-.005744

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000554**	**.0000706**	**.0029863**	**.0001344**	**-.000127**	**.0000816**	**-.004428**
Stddev	.0000362	.0000318	.0073295	.0002988	.000197	.0002181	.005528
%RSD	65.29989	45.00450	245.4396	222.3716	155.1013	267.3451	124.8485
#1	.0000920	.0000475	-.001922	.0003474	-.000202	.0003092	-.008892
#2	.0000197	.0001068	.011411	-.000207	.000097	.0000609	.001755
#3	.0000546	.0000574	-.000531	.000263	-.000276	-.000125	-.006146

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006282**	**-.006723**	**.0000002**	**.0005247**	**-.011585**	**.0007851**	**-.000306**
Stddev	.000085	.011224	.0000968	.0000468	.022764	.0015742	.000437
%RSD	1.353749	166.9571	41516.64	8.911235	196.4948	200.5224	142.8947
#1	-.006300	-.016558	.0001110	.0004708	.013418	.0017613	-.000382
#2	-.006357	-.009115	-.000042	.0005496	-.017064	-.001031	-.000699
#3	-.006190	.005504	-.000068	.0005539	-.031109	.001625	.000164

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007545**	**.0030516**	**-.000248**	**.0009319**	**.0004397**	**-.011877**	**.0012514**
Stddev	.013194	.0002571	.000240	.0010570	.0001131	.009596	.0025219
%RSD	174.8571	8.424696	97.02807	113.4240	25.71184	80.79501	201.5323
#1	.006786	.0027576	-.000050	-.000193	.0003282	-.003621	.0041360
#2	-.010235	.0032341	-.000178	.001085	.0005542	-.009605	-.000536
#3	-.019187	.0031632	-.000515	.001904	.0004366	-.022404	.000154

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICB01 Acquired: 5/7/2025 13:09:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.003433**	**-.001648**	**-.000058**
Stddev	.000836	.000365	.000073
%RSD	24.34350	22.14994	126.5941
#1	-.003087	-.001283	.000011
#2	-.002825	-.002013	-.000049
#3	-.004385	-.001649	-.000134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2911.253**	**71804.71**	**14705.79**	**1986.424**	**4523.395**
Stddev	4.296	125.95	48.28	4.250	2.761
%RSD	.1475804	.1754059	.3283306	.2139486	.0610440
#1	2909.121	71902.59	14731.10	1991.035	4525.725
#2	2916.198	71662.62	14736.17	1982.664	4524.115
#3	2908.438	71848.92	14650.12	1985.571	4520.345

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CRI01 Acquired: 5/7/2025 13:16:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196814	.0430400	.0134222	.0164524	.0517200	.0958834	.0883184
Stddev	.0032563	.0012008	.0001690	.0027636	.0010786	.0020722	.0009898
%RSD	16.54523	2.789862	1.259037	16.79751	2.085384	2.161164	1.120686
#1	.0200121	.0429748	.0132917	.0193478	.0517119	.0976680	.0874504
#2	.0162723	.0442720	.0136131	.0161665	.0506456	.0963716	.0893963
#3	.0227597	.0418731	.0133618	.0138429	.0528027	.0936108	.0881085

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055525	.0060883	1.953304	.0094927	.0291374	.0215100	.0963624
Stddev	.0000461	.0000123	.008274	.0002417	.0001757	.0002126	.0035514
%RSD	.8297379	.2022416	.4236052	2.546404	.6030562	.9884835	3.685421
#1	.0055166	.0060889	1.947556	.0096081	.0289827	.0213133	.0932975
#2	.0055365	.0060757	1.962788	.0096551	.0291012	.0214810	.1002543
#3	.0056045	.0061003	1.949569	.0092149	.0293284	.0217356	.0955354

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223233	2.009219	.0391890	.0102488	1.793823	.0402281	.0403421
Stddev	.0002781	.005226	.0006473	.0001608	.012912	.0011100	.0005846
%RSD	1.245749	.2601046	1.651846	1.568712	.7198060	2.759363	1.449083
#1	.0222583	2.004646	.0387966	.0103862	1.784591	.0414403	.0402374
#2	.0226281	2.014916	.0388343	.0102883	1.808578	.0399825	.0398170
#3	.0220834	2.008096	.0399362	.0100720	1.788299	.0392614	.0409720

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.853203	.0966039	.2045753	.0393008	.0395087	.3869230	.0235967
Stddev	.042557	.0008161	.0002699	.0002876	.0008100	.0089879	.0023806
%RSD	2.296424	.8447539	.1319293	.7317995	2.050238	2.322916	10.08874
#1	1.875040	.0975441	.2048748	.0389730	.0400918	.3945989	.0225826
#2	1.804160	.0960799	.2043509	.0395106	.0385838	.3770359	.0218910
#3	1.880410	.0961875	.2045002	.0394189	.0398504	.3891344	.0263164

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CRI01 Acquired: 5/7/2025 13:16:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0199402	.0162027	.0191568
Stddev	.0022704	.0003814	.0000452
%RSD	11.38617	2.353834	.2361184
#1	.0191108	.0158929	.0191253
#2	.0225088	.0160867	.0191365
#3	.0182012	.0166287	.0192087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.296	70801.51	15057.73	1975.382	4663.363
Stddev	3.224	290.53	39.89	8.474	11.217
%RSD	.1082961	.4103436	.2649081	.4290004	.2405444
#1	2977.159	70485.61	15025.17	1965.797	4676.185
#2	2974.142	71057.25	15045.78	1981.879	4658.545
#3	2980.586	70861.66	15102.22	1978.471	4655.360

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSA01 Acquired: 5/7/2025 13:21:07 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.001604**	**.0077467**	**-.002876**	**-.009818**	**-.001024**	**233.1058**
Stddev	.004760	.0013421	.002827	.002502	.003708	.0475
%RSD	296.6796	17.32483	98.28173	25.48797	362.3141	.0203736
#1	-.004341	.0091469	.000028	-.006944	-.004742	233.1308
#2	-.004363	.0076217	-.003039	-.010994	-.001003	233.1356
#3	.003892	.0064715	-.005618	-.011516	.002675	233.0510

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001293**	**.0012563**	**-.002633**	**224.6509**	**.0541416**	**.0011207**
Stddev	.000676	.0000568	.000041	.1630	.0002627	.0002462
%RSD	52.28405	4.525242	1.568603	.0725570	.4851993	21.96508
#1	-.000681	.0012093	-.002588	224.4849	.0539031	.0010545
#2	-.001179	.0012400	-.002669	224.8107	.0544231	.0009145
#3	-.002019	.0013195	-.002642	224.6572	.0540985	.0013933

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002320**	**94.66937**	**.0078713**	**239.1873**	**.0020393**	**.0010805**
Stddev	.000413	.25476	.0000613	.3383	.0004043	.0003260
%RSD	17.81147	.2691053	.7782145	.1414411	19.82346	30.17513
#1	-.001858	94.44961	.0079315	238.8091	.0022991	.0013401
#2	-.002654	94.94861	.0078734	239.4611	.0015735	.0011869
#3	-.002448	94.60989	.0078090	239.2916	.0022453	.0007145

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0358511**	**.0024025**	**.0031048**	**.0003831**	F **-.252901**	**.0001011**
Stddev	.0053792	.0005742	.0004514	.0220996	.001083	.0006339
%RSD	15.00429	23.90185	14.54012	5768.159	.4283875	627.0046
#1	.0356759	.0018409	.0035294	.0210916	-.254073	-.000596
#2	.0413158	.0029886	.0026307	-.022885	-.251936	.000643
#3	.0305617	.0023780	.0031544	.002942	-.252693	.000256

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSA01 Acquired: 5/7/2025 13:21:07 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	-.006692	-.000813	.0119387	.0030349	-.018918	.0024406
Stddev	.001046	.000708	.0068594	.0031524	.004384	.0014432
%RSD	15.63556	87.13811	57.45477	103.8723	23.17467	59.13230
#1	-.005495	.000004	.0188725	-.000389	-.014792	.0009658
#2	-.007431	-.001188	.0051563	.005816	-.018441	.0025060
#3	-.007150	-.001254	.0117873	.003678	-.023522	.0038499

Elem	Sr4077
Units	ppm
Avg	.0033409
Stddev	.0001790
%RSD	5.356569
#1	.0035274
#2	.0031706
#3	.0033247

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2657.034	64170.63	14327.01	1796.206	3889.347
Stddev	14.006	103.57	25.71	.767	14.152
%RSD	.5271395	.1613993	.1794490	.0427152	.3638647
#1	2646.352	64061.51	14299.70	1796.589	3877.370
#2	2672.892	64182.82	14350.74	1795.323	3904.963
#3	2651.860	64267.57	14330.61	1796.707	3885.708

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSAB01 Acquired: 5/7/2025 13:25:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.1174356**	**.1146601**	**.0554907**	**.0412293**	**.6416877**	**230.6390**
Stddev	.0014965	.0033814	.0002785	.0007701	.0059192	.2111
%RSD	1.274348	2.949073	.5018702	1.867808	.9224471	.0915365
#1	.1184977	.1177958	.0552140	.0412604	.6462976	230.5073
#2	.1157241	.1151069	.0554870	.0419833	.6350125	230.5272
#3	.1180852	.1110775	.0557710	.0404441	.6437531	230.8825

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5019208**	**.5281809**	**1.066469**	**221.2117**	**.5856942**	**.5230738**
Stddev	.0005869	.0020657	.000745	.1586	.0011980	.0016497
%RSD	.1169364	.3911036	.0698599	.0716873	.2045392	.3153879
#1	.5024926	.5303473	1.067312	221.0787	.5859924	.5239846
#2	.5013198	.5262333	1.065900	221.3872	.5867148	.5211695
#3	.5019500	.5279622	1.066194	221.1691	.5843752	.5240674

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5091874**	**90.84985**	**.5117779**	**234.8748**	**1.038691**	**.1969105**
Stddev	.0024792	.52928	.0001785	.2505	.002424	.0003090
%RSD	.4868900	.5825852	.0348696	.1066724	.2334035	.1569276
#1	.5080731	90.27597	.5118830	234.5905	1.041093	.1968631
#2	.5074608	91.31881	.5118788	234.9706	1.036245	.1966280
#3	.5120282	90.95477	.5115719	235.0634	1.038735	.1972405

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003214**	**.5007170**	**1.081851**	**-.013887**	F **.6668129**	**.9731401**
Stddev	.005669	.0019054	.003912	.032049	.0030834	.0054849
%RSD	176.3870	.3805380	.3616354	230.7796	.4624109	.5636248
#1	-.004863	.5029065	1.080514	.019233	.6700065	.9710050
#2	-.007876	.4994351	1.078783	-.044745	.6638530	.9690439
#3	.003097	.4998093	1.086257	-.016150	.6665790	.9793715

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSAB01 Acquired: 5/7/2025 13:25:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.9668837	.9301419	.8845349	F .0041221	F -.010563	F -.000306
Stddev	.0031432	.0034799	.0026776	.0072953	.003221	.000596
%RSD	.3250888	.3741300	.3027093	176.9808	30.49484	194.9463
#1	.9678124	.9341577	.8868348	.0003700	-.014238	-.000892
#2	.9633808	.9280106	.8815955	-.000534	-.008230	.000299
#3	.9694580	.9282575	.8851744	.012530	-.009221	-.000324

Elem	Sr4077
Units	ppm
Avg	F .0046630
Stddev	.0006324
%RSD	13.56172
#1	.0053509
#2	.0041069
#3	.0045312

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2667.911	64070.82	13920.04	1788.008	3930.565
Stddev	7.860	309.20	24.85	7.413	3.270
%RSD	.2946218	.4825925	.1784991	.4145950	.0831949
#1	2672.410	64391.28	13892.76	1796.549	3928.630
#2	2672.488	63774.27	13941.37	1784.230	3934.341
#3	2658.835	64046.90	13925.98	1783.245	3928.725

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSADLX20 Acquired: 5/7/2025 13:30:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002136**	**-.000004**	**.0010260**	**.0012164**	**.0010133**	**11.48761**	**-.004483**
Stddev	.002915	.000851	.0015876	.0029048	.0038082	.04282	.001034
%RSD	136.4908	19581.28	154.7449	238.8051	375.8202	.3727814	23.05592
#1	.001190	.000905	.0027359	.0016551	-.003059	11.44904	-.004680
#2	-.004251	-.000782	-.000401	-.001883	.004486	11.48010	-.003366
#3	-.003346	-.000136	.000743	.003877	.001613	11.53369	-.005405

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000600**	**-.000206**	**11.49931**	**.0026086**	**.0001155**	**-.000103**	**4.537575**
Stddev	.0000434	.000049	.01463	.0002205	.0002411	.000256	.016721
%RSD	72.20694	23.70977	.1272668	8.451731	208.7615	248.7047	.3685012
#1	.0000956	-.000233	11.49567	.0028575	.0002085	-.000271	4.518269
#2	.0000728	-.000235	11.48684	.0024380	-.000158	-.000229	4.546980
#3	.0000117	-.000150	11.51542	.0025302	.000296	.000191	4.547476

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005427**	**11.68116**	**.0001359**	**.0006765**	**-.059163**	**.0003766**	**-.000411**
Stddev	.000229	.09840	.0001227	.0004044	.005365	.0012186	.000222
%RSD	4.219664	.8423651	90.27110	59.77549	9.067927	323.6036	54.03774
#1	-.005386	11.57601	.0000161	.0007519	-.064841	.0016316	-.000155
#2	-.005674	11.77101	.0002613	.0002397	-.054179	-.000802	-.000525
#3	-.005221	11.69647	.0001303	.0010379	-.058471	.000300	-.000553

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.042679**	**-.018569**	**.0000289**	**.0000222**	**.0004895**	**-.006068**	**.0008201**
Stddev	.031486	.000736	.0001927	.0003038	.0002313	.004385	.0024529
%RSD	73.77421	3.964826	665.7624	1371.068	47.26189	72.26632	299.0940
#1	-.040875	-.017733	.0002159	-.000326	.0003799	-.010947	-.001367
#2	-.012133	-.018852	-.000169	.000155	.0003333	-.002455	.003472
#3	-.075028	-.019121	.000040	.000237	.0007552	-.004803	.000355

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSADLX20 Acquired: 5/7/2025 13:30:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.004375**	**-.001995**	**.0002375**
Stddev	.005128	.000526	.0000212
%RSD	117.2152	26.35892	8.939036
#1	-.003603	-.001390	.0002508
#2	-.009845	-.002344	.0002130
#3	.000323	-.002252	.0002487

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2938.361**	**70092.61**	**14283.20**	**1950.172**	**4573.417**
Stddev	4.929	129.70	36.11	6.988	7.727
%RSD	.1677520	.1850390	.2528180	.3583164	.1689586
#1	2937.237	70201.96	14250.23	1958.210	4575.363
#2	2943.755	70126.56	14321.80	1946.757	4579.985
#3	2934.091	69949.32	14277.58	1945.548	4564.903

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSABDLX20 Acquired: 5/7/2025 13:34:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079318	.0057345	.0028541	-.001209	.0288518	11.06766	.0192930
Stddev	.0022820	.0014731	.0016742	.001522	.0017401	.03058	.0009920
%RSD	28.76999	25.68748	58.65852	125.8165	6.031270	.2763274	5.141781
#1	.0060052	.0069280	.0047824	.000537	.0308504	11.10036	.0204320
#2	.0073384	.0040882	.0017707	-.001916	.0276729	11.03976	.0188294
#3	.0104519	.0061873	.0020093	-.002249	.0280322	11.06286	.0186177

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263391	.0533906	11.13374	.0294608	.0258477	.0262593	4.463874
Stddev	.0001172	.0002271	.06989	.0001572	.0001171	.0004313	.016417
%RSD	.4450494	.4254210	.6277280	.5334776	.4529927	1.642476	.3677794
#1	.0264595	.0534595	11.18851	.0296167	.0258607	.0265544	4.448703
#2	.0262253	.0531370	11.05503	.0294634	.0257247	.0257643	4.461616
#3	.0263326	.0535753	11.15768	.0293024	.0259578	.0264592	4.481304

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194673	11.31504	.0520352	.0096467	-.059292	.0248661	.0526302
Stddev	.0002805	.10005	.0001152	.0001243	.017410	.0006522	.0004382
%RSD	1.440737	.8841988	.2213054	1.288034	29.36381	2.622853	.8325767
#1	.0191743	11.39003	.0519491	.0095077	-.050477	.0255651	.0521810
#2	.0194944	11.20144	.0519905	.0096852	-.079347	.0242738	.0530565
#3	.0197333	11.35366	.0521660	.0097471	-.048052	.0247595	.0526530

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.018715	.0281647	.0483386	.0482664	.0455866	.0364324	-.002383
Stddev	.014946	.0004172	.0006909	.0006767	.0002685	.0115396	.001505
%RSD	79.86053	1.481353	1.429353	1.401927	.5890409	31.67400	63.14638
#1	-.006001	.0277928	.0487868	.0487631	.0458899	.0471864	-.000646
#2	-.014965	.0280854	.0475429	.0485404	.0453790	.0378691	-.003270
#3	-.035179	.0286159	.0486861	.0474957	.0454910	.0242417	-.003234

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: ICSABDLX20 Acquired: 5/7/2025 13:34:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.005630**	**-.001491**	**.0001070**
Stddev	.005249	.000462	.0000328
%RSD	93.23984	31.01000	30.65655
#1	.000430	-.001401	.0001429
#2	-.008542	-.001991	.0000787
#3	-.008778	-.001080	.0000993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2906.859**	**69258.86**	**14365.96**	**1949.257**	**4495.162**
Stddev	10.964	349.49	84.10	13.016	12.533
%RSD	.3771817	.5046186	.5854144	.6677455	.2788134
#1	2903.422	69227.50	14274.60	1954.427	4489.643
#2	2919.130	68926.11	14383.14	1934.450	4509.508
#3	2898.025	69622.98	14440.15	1958.893	4486.336

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV01 Acquired: 5/7/2025 13:39:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**5.083107**	**5.094317**	**5.153215**	**5.049681**	**5.023577**	**10.14481**	**9.767175**
Stddev	.028946	.064505	.015989	.055029	.043434	.01886	.126924
%RSD	.5694560	1.266218	.3102740	1.089760	.8646082	.1858778	1.299497
#1	5.053071	5.020894	5.148498	5.003477	4.990106	10.16097	9.902785
#2	5.085425	5.120182	5.140115	5.035006	5.007966	10.14937	9.747508
#3	5.110824	5.141876	5.171032	5.110560	5.072659	10.12409	9.651233

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2665465**	**2.566111**	**25.56318**	**1.045123**	**2.550203**	**1.278590**	**4.957875**
Stddev	.0017222	.003531	.11214	.001610	.005576	.008785	.011340
%RSD	.6461049	.1376018	.4386767	.1540940	.2186668	.6870898	.2287211
#1	.2685347	2.564593	25.68923	1.044310	2.547895	1.271824	4.944836
#2	.2655176	2.563593	25.52582	1.044081	2.546150	1.275427	4.965438
#3	.2655872	2.570147	25.47449	1.046978	2.556562	1.288518	4.963350

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.524938**	**25.61948**	**2.565506**	**1.275049**	**23.93900**	**2.527226**	**2.536998**
Stddev	.010201	.09100	.004051	.001684	.10449	.004626	.006779
%RSD	.4040229	.3552060	.1578934	.1321044	.4364653	.1830472	.2671978
#1	2.535416	25.68113	2.564515	1.273168	23.82592	2.531684	2.534999
#2	2.524359	25.66235	2.562044	1.275560	24.03197	2.527547	2.531444
#3	2.515038	25.51496	2.569961	1.276419	23.95910	2.522448	2.544552

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.15041**	**5.233734**	**5.094487**	**5.138162**	**5.018840**	**4.902970**	**5.234419**
Stddev	.13407	.041730	.029883	.016523	.012100	.061137	.018044
%RSD	.5551544	.7973267	.5865700	.3215811	.2410859	1.246938	.3447114
#1	23.99583	5.281700	5.072774	5.142314	5.029928	4.832425	5.219355
#2	24.23503	5.205773	5.082120	5.119959	5.020659	4.935948	5.229485
#3	24.22037	5.213729	5.128569	5.152213	5.005934	4.940538	5.254416

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV01 Acquired: 5/7/2025 13:39:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**5.088046**	**4.997122**	**4.951755**
Stddev	.033072	.017017	.068770
%RSD	.6500027	.3405428	1.388811
#1	5.061295	5.009536	4.974084
#2	5.077819	5.004106	5.006586
#3	5.125024	4.977724	4.874595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2865.719**	**69000.57**	**13693.32**	**1920.424**	**4322.764**
Stddev	9.193	288.59	70.63	14.154	4.218
%RSD	.3207789	.4182438	.5157859	.7370415	.0975689
#1	2869.576	69333.44	13613.87	1936.655	4320.899
#2	2872.355	68820.64	13717.12	1913.967	4327.593
#3	2855.226	68847.63	13748.97	1910.649	4319.801

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB01 Acquired: 5/7/2025 13:43:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0001562**	**.0007503**	**.0007378**	**-.003650**	**-.000086**	**.0039442**	**-.005643**
Stddev	.0025744	.0015771	.0004295	.003650	.001462	.0067673	.000795
%RSD	1647.670	210.1903	58.21053	99.99952	1704.114	171.5786	14.08157
#1	-.001087	.0024897	.0012289	-.007314	.001572	-.003096	-.005833
#2	-.001561	-.000586	.0004325	-.000014	-.001189	.004528	-.004770
#3	.003116	.000348	.0005520	-.003621	-.000641	.010401	-.006325

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000090**	**.0000523**	**.0089163**	**.0000340**	**.0001789**	**.0001806**	**.0067431**
Stddev	.000022	.0001051	.0021938	.0003265	.0001049	.0001792	.0019500
%RSD	24.10147	200.9902	24.60494	961.5174	58.63763	99.22074	28.91876
#1	-.000110	.0001665	.0083795	.0003724	.0003000	-.000026	.0051100
#2	-.000093	-.000041	.0113288	.0000087	.0001195	.000297	.0089022
#3	-.000067	.000031	.0070407	-.000279	.0001171	.000271	.0062172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001172**	**-.002012**	**-.000034**	**.0006701**	**-.050958**	**.0017533**	**.0006055**
Stddev	.000239	.012009	.000197	.0001015	.012867	.0003803	.0006364
%RSD	20.35826	596.8094	581.6191	15.15255	25.25044	21.68930	105.1120
#1	-.001264	.006141	.000141	.0006757	-.050649	.0015299	.0000169
#2	-.001350	-.015803	-.000248	.0007688	-.038248	.0021924	.0005187
#3	-.000901	.003625	.000005	.0005659	-.063977	.0015376	.0012809

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.043943**	**.0018214**	**.0002252**	**.0000615**	**.0012363**	**-.007655**	**-.000117**
Stddev	.010504	.0004568	.0000773	.0001209	.0008971	.005112	.002957
%RSD	23.90368	25.07704	34.34553	196.7051	72.56729	66.78905	2537.999
#1	-.044745	.0021435	.0002782	-.000060	.0002115	-.011230	.003297
#2	-.054023	.0020220	.0002609	.000062	.0018798	-.001799	-.001744
#3	-.033061	.0012987	.0001364	.000182	.0016176	-.009935	-.001903

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB01 Acquired: 5/7/2025 13:43:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.003070**	**-.000833**	**-.000003**
Stddev	.005804	.001040	.000048
%RSD	189.0835	124.8432	1657.384
#1	-.007465	-.000910	.000052
#2	.003510	.000244	-.000025
#3	-.005254	-.001832	-.000036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2995.497**	**71628.32**	**14246.03**	**1984.959**	**4710.488**
Stddev	25.997	248.75	105.82	4.015	35.587
%RSD	.8678683	.3472806	.7428010	.2022549	.7554779
#1	3015.216	71604.79	14190.28	1989.455	4736.355
#2	3005.240	71392.18	14179.75	1981.733	4725.207
#3	2966.036	71888.01	14368.07	1983.689	4669.903

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167882BL Acquired: 5/7/2025 13:47:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.001081**	**.0012805**	**.0013066**	**-.002851**	**.0015981**	**.0057156**	**-.005305**
Stddev	.002388	.0015234	.0009480	.002313	.0018796	.0020728	.000703
%RSD	220.9582	118.9723	72.55528	81.12938	117.6098	36.26527	13.24871
#1	-.003782	.0022875	.0005041	-.000211	.0007450	.0038815	-.005834
#2	-.000205	.0020261	.0023526	-.003820	.0002964	.0053009	-.004507
#3	.000746	-.000472	.0010631	-.004522	.0037530	.0079643	-.005573

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000011**	**.0000989**	**-.000482**	**.0000499**	**.0001202**	**-.000122**	**.0004494**
Stddev	.000028	.0001163	.008838	.0003602	.0001644	.000506	.0043493
%RSD	258.4523	117.5660	1832.327	721.7312	136.7123	415.4108	967.7966
#1	-.000042	-.000013	.008305	-.000091	.0000215	.000282	.0054319
#2	-.000006	.000220	-.000381	-.000219	.0003100	.000041	-.001496
#3	.000014	.000090	-.009371	.000459	.0000292	-.000689	-.002587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004421**	**-.015145**	**-.000119**	**.0008021**	**-.040789**	**.0007379**	**.0002056**
Stddev	.000241	.007515	.000226	.0000799	.007845	.0006883	.0005129
%RSD	5.460365	49.62026	190.2660	9.965241	19.23233	93.28472	249.5363
#1	-.004698	-.019625	.000111	.0007099	-.038864	.0014420	.0007243
#2	-.004263	-.019342	-.000340	.0008454	-.034087	.0000665	-.000301
#3	-.004300	-.006469	-.000127	.0008512	-.049418	.0007052	.000194

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.034642**	**-.001097**	**-.000010**	**.0089270**	**.0010808**	**-.011350**	**.0016244**
Stddev	.007892	.001128	.000021	.0011914	.0005202	.002649	.0035569
%RSD	22.78294	102.7803	217.7377	13.34578	48.13424	23.33864	218.9633
#1	-.040815	-.002178	-.000010	.0102689	.0004873	-.010828	.0012487
#2	-.025749	.000072	-.000031	.0085184	.0012968	-.014221	.0053543
#3	-.037361	-.001185	.000012	.0079937	.0014581	-.009001	-.001730

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167882BL Acquired: 5/7/2025 13:47:45 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.000705**	**-.001982**	**-.000023**
Stddev	.004606	.000224	.000034
%RSD	653.5023	11.30379	151.5178
#1	.001750	-.001879	-.000051
#2	-.006018	-.002239	.000016
#3	.002154	-.001828	-.000033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3004.241**	**73470.33**	**14356.01**	**2017.250**	**4733.255**
Stddev	11.331	120.13	108.46	3.538	19.619
%RSD	.3771692	.1635033	.7555343	.1754037	.4144923
#1	3007.863	73475.30	14466.10	2020.588	4742.046
#2	3013.318	73587.90	14249.25	2017.622	4746.942
#3	2991.542	73347.80	14352.67	2013.541	4710.778

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167882BS Acquired: 5/7/2025 13:58:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.7355472**	**1.887873**	**.9260515**	**1.817912**	**.7175840**	**1.804918**
Stddev	.0006788	.008083	.0040192	.007499	.0037587	.010571
%RSD	.0922845	.4281438	.4340121	.4125034	.5237943	.5856583
#1	.7356671	1.880158	.9217521	1.809676	.7134581	1.794526
#2	.7348164	1.887184	.9297145	1.819715	.7184807	1.804567
#3	.7361580	1.896279	.9266878	1.824345	.7208133	1.815659

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1656425**	**.1984165**	**.1880808**	**.9439973**	**.3806740**	**.1820979**
Stddev	.0028138	.0002577	.0002614	.0042475	.0009941	.0004490
%RSD	1.698726	.1298544	.1389776	.4499485	.2611360	.2465579
#1	.1688916	.1981407	.1880583	.9391117	.3795621	.1819074
#2	.1640296	.1986510	.1883527	.9460664	.3814768	.1826107
#3	.1640064	.1984577	.1878314	.9468138	.3809831	.1817755

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2809435**	**2.579789**	**.1772458**	**1.810071**	**.4608215**	**.0697345**
Stddev	.0003836	.018025	.0002920	.025722	.0003975	.0001713
%RSD	.1365452	.6987051	.1647479	1.421056	.0862703	.2455895
#1	.2813049	2.596082	.1775482	1.799119	.4603714	.0695413
#2	.2809847	2.582858	.1769655	1.791637	.4609683	.0698676
#3	.2805410	2.560426	.1772238	1.839456	.4611247	.0697946

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.616223**	**.2708696**	**.1883832**	**8.150167**	**.2842034**	**.3728402**
Stddev	.014772	.0021284	.0016918	.031228	.0005727	.0014686
%RSD	.5646442	.7857473	.8980610	.3831620	.2015002	.3939088
#1	2.614660	.2719149	.1899035	8.117069	.2836435	.3711529
#2	2.602294	.2684207	.1865606	8.154324	.2841787	.3738316
#3	2.631714	.2722731	.1886855	8.179109	.2847880	.3735360

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167882BS Acquired: 5/7/2025 13:58:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.6420527**	**.1784157**	F **.7160963**	**5.589534**	F **-.020423**	**.1866361**
Stddev	.0007925	.0001248	.0083820	.021245	.001667	.0020641
%RSD	.1234293	.0699714	1.170519	.3800809	8.163857	1.105973
#1	.6414193	.1784248	.7092280	5.566707	-.021083	.1884504
#2	.6429413	.1785357	.7254363	5.593167	-.018527	.1843903
#3	.6417973	.1782865	.7136246	5.608729	-.021660	.1870675

Elem	Sr4077
Units	ppm
Avg	**.1758003**
Stddev	.0004193
%RSD	.2385010
#1	.1760055
#2	.1760775
#3	.1753180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2957.576**	**69640.88**	**13509.53**	**1953.761**	**4618.050**
Stddev	3.590	124.88	10.32	8.180	4.972
%RSD	.1213849	.1793167	.0763835	.4186633	.1076615
#1	2954.508	69631.16	13500.62	1944.400	4613.552
#2	2961.524	69521.14	13507.13	1959.528	4623.388
#3	2956.695	69770.33	13520.83	1957.356	4617.210

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167880BL Acquired: 5/7/2025 14:04:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.002392**	**.0003170**	**-.000080**	**-.002598**	**-.000313**	**.0023697**	**-.004685**
Stddev	.001946	.0013389	.000783	.000137	.000857	.0026985	.000775
%RSD	81.37458	422.2997	979.0011	5.264021	273.6950	113.8766	16.55167
#1	-.002671	.0017041	-.000983	-.002735	-.001246	.0034655	-.003879
#2	-.000321	.0002148	.000411	-.002461	-.000131	-.000704	-.004750
#3	-.004183	-.000968	.000332	-.002598	.000438	.004348	-.005425

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**-.000007**	**-.000652**	**.0000006**	**.0000299**	**.0010866**	**-.005863**
Stddev	.000045	.000060	.000970	.0002064	.0002374	.0002894	.002573
%RSD	102.8951	837.0826	148.6787	33810.43	794.4726	26.63378	43.89233
#1	.000007	-.000002	.000126	.0000507	-.000091	.0007537	-.007718
#2	-.000078	-.000070	-.001739	.0001774	-.000123	.0012784	-.006945
#3	-.000060	.000050	-.000344	-.000226	.000303	.0012276	-.002925

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001070**	**-.001599**	**-.000041**	**.0008149**	**-.050432**	**.0011240**	**.0001768**
Stddev	.000315	.009711	.000300	.0000956	.025726	.0018505	.0002045
%RSD	29.42289	607.2383	730.8075	11.72814	51.01091	164.6376	115.6707
#1	-.001019	-.012448	-.000371	.0009176	-.075567	.0001611	.0002648
#2	-.001408	.006281	.000214	.0007286	-.024154	.0032574	-.000057
#3	-.000784	.001369	.000034	.0007985	-.051575	-.000047	.000322

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.056262**	**-.006032**	**.0000469**	**.0008391**	**.0005418**	**-.003350**	**.0009026**
Stddev	.013600	.000789	.0002055	.0004175	.0003502	.007135	.0019974
%RSD	24.17169	13.08111	437.7914	49.76103	64.63620	212.9919	221.2821
#1	-.040961	-.005186	-.000022	.0003668	.0009411	-.010541	.0031475
#2	-.066971	-.006747	.000278	.0011593	.0002866	-.003237	-.000678
#3	-.060855	-.006163	-.000115	.0009911	.0003979	.003728	.000238

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167880BL Acquired: 5/7/2025 14:04:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.002600**	**-.002028**	**-.000088**
Stddev	.002341	.000546	.000038
%RSD	90.00259	26.91112	43.25978
#1	-.004417	-.002461	-.000060
#2	.000041	-.001415	-.000131
#3	-.003425	-.002209	-.000072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2951.743**	**70155.70**	**14595.95**	**1966.392**	**4622.841**
Stddev	8.518	537.75	37.77	12.274	14.266
%RSD	.2885913	.7665114	.2587975	.6241957	.3085936
#1	2942.811	70444.89	14553.14	1975.797	4608.622
#2	2959.777	69535.23	14610.13	1952.507	4637.153
#3	2952.642	70486.98	14624.58	1970.872	4622.748

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167880BS Acquired: 5/7/2025 14:08:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.7098747**	**1.878141**	**.9078793**	**1.776111**	**.7244926**	**1.797086**
Stddev	.0044905	.015477	.0038821	.003621	.0019047	.004780
%RSD	.6325703	.8240625	.4275970	.2038947	.2629009	.2659649
#1	.7087573	1.867598	.9086537	1.772518	.7242746	1.791682
#2	.7148183	1.895910	.9036684	1.779760	.7227062	1.800758
#3	.7060484	1.870915	.9113159	1.776055	.7264969	1.798819

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1681370**	**.1888199**	**.1833928**	**.9460790**	**.3793564**	**.1786180**
Stddev	.0005560	.0008606	.0004829	.0085171	.0005687	.0002019
%RSD	.3306754	.4557565	.2632976	.9002567	.1499178	.1130437
#1	.1680545	.1897534	.1837921	.9532967	.3798502	.1786396
#2	.1676269	.1886481	.1835301	.9366848	.3787346	.1788083
#3	.1687297	.1880582	.1828561	.9482554	.3794843	.1784062

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2757338**	**2.689399**	**.1768206**	**1.765570**	**.4500984**	**.0696169**
Stddev	.0000575	.022953	.0004135	.011358	.0014587	.0001177
%RSD	.0208619	.8534666	.2338752	.6432772	.3240900	.1691120
#1	.2757327	2.684491	.1768957	1.771675	.4517710	.0695129
#2	.2756768	2.669296	.1763746	1.772570	.4490901	.0697447
#3	.2757919	2.714408	.1771914	1.752466	.4494340	.0695932

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.867237**	**.2699470**	**.1869797**	**8.481605**	**.2699253**	**.3802764**
Stddev	.024771	.0023099	.0007504	.011019	.0016826	.0002938
%RSD	.8639440	.8556975	.4013050	.1299207	.6233629	.0772640
#1	2.838801	.2725360	.1862071	8.479539	.2701370	.3804832
#2	2.884132	.2680970	.1877057	8.493512	.2714920	.3799400
#3	2.878778	.2692080	.1870262	8.471765	.2681468	.3804058

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167880BS Acquired: 5/7/2025 14:08:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.6457519**	**.1841796**	**.7601026**	**5.380746**	F **-.014742**	**.1849293**
Stddev	.0020650	.0014798	.0141489	.010970	.004505	.0004619
%RSD	.3197848	.8034730	1.861443	.2038817	30.55666	.2497912
#1	.6433679	.1851132	.7575188	5.374003	-.012776	.1847814
#2	.6469843	.1824733	.7474238	5.393404	-.019896	.1845595
#3	.6469036	.1849521	.7753654	5.374830	-.011555	.1854471

Elem	Sr4077
Units	ppm
Avg	**.1768859**
Stddev	.0004368
%RSD	.2469134
#1	.1765943
#2	.1766753
#3	.1773880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3037.243**	**70118.72**	**14210.24**	**1974.643**	**4800.333**
Stddev	6.352	227.25	105.71	6.475	13.682
%RSD	.2091326	.3240955	.7439139	.3278894	.2850321
#1	3031.440	69861.32	14101.19	1981.353	4785.512
#2	3036.260	70203.23	14217.28	1968.433	4803.004
#3	3044.030	70291.60	14312.26	1974.143	4812.483

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167859BL Acquired: 5/7/2025 14:12:27 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0002277**	**-.000304**	**.0000742**	**-.000856**	**.0008140**	**.0113524**	**-.006020**
Stddev	.0010807	.002127	.0011235	.000543	.0016452	.0062998	.001309
%RSD	474.5609	700.7201	1513.546	63.42633	202.1090	55.49306	21.73852
#1	.0004306	.001700	-.001179	-.000729	.0023929	.0186203	-.005927
#2	-.000940	-.002535	.000992	-.001451	-.000890	.0079853	-.007372
#3	.001193	-.000075	.000409	-.000388	.000940	.0074517	-.004760

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000261**	**.0000711**	**.0049507**	**.0000548**	**.0001104**	**.0000008**	**.0024297**
Stddev	.0000177	.0000217	.0064532	.0003659	.0000438	.0000739	.0031291
%RSD	67.99447	30.46777	130.3507	668.1298	39.66106	9295.833	128.7847
#1	.0000447	.0000857	-.000635	.0004771	.0000699	.0000672	.0014636
#2	.0000241	.0000814	.003473	-.000146	.0001568	.0000139	.0059279
#3	.0000094	.0000462	.012015	-.000166	.0001043	-.000079	-.000102

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004536**	**-.013744**	**-.000248**	**.0005564**	**-.038893**	**.0002291**	**.0007549**
Stddev	.000289	.009885	.000103	.0001666	.007693	.0009818	.0003872
%RSD	6.375393	71.92050	41.70158	29.94448	19.77949	428.5148	51.28212
#1	-.004723	-.020233	-.000139	.0005641	-.045055	-.000804	.0011762
#2	-.004203	-.018631	-.000260	.0003861	-.041352	.000341	.0004147
#3	-.004682	-.002368	-.000344	.0007190	-.030271	.001150	.0006739

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.022772**	**-.006185**	**.0000271**	**.0096854**	**.0013680**	**-.007870**	**.0018000**
Stddev	.023541	.000252	.0005135	.0005600	.0002040	.004847	.0035295
%RSD	103.3767	4.077613	1897.248	5.781571	14.91147	61.59288	196.0830
#1	-.004446	-.006458	-.000342	.0101757	.0014973	-.012439	.0050586
#2	-.014548	-.005960	-.000190	.0090752	.0011328	-.002785	-.001949
#3	-.049322	-.006138	.000613	.0098055	.0014738	-.008385	.002291

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167859BL Acquired: 5/7/2025 14:12:27 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	-.002105	-.002266	.0000457
Stddev	.000555	.001316	.0000196
%RSD	26.34481	58.08795	42.90334
#1	-.001741	-.003647	.0000257
#2	-.002744	-.002123	.0000649
#3	-.001831	-.001027	.0000465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3011.730	70496.77	14074.47	1976.743	4744.263
Stddev	.297	365.59	9.12	1.648	12.384
%RSD	.0098474	.5185853	.0647793	.0833872	.2610266
#1	3011.403	70423.69	14065.01	1975.206	4736.188
#2	3011.982	70173.25	14075.18	1976.539	4738.080
#3	3011.804	70893.38	14083.20	1978.484	4758.521

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167859BS Acquired: 5/7/2025 14:17:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.7316381	1.906890	.9224863	1.806945	.7395498	1.760727
Stddev	.0017270	.026764	.0039634	.005728	.0032744	.008159
%RSD	.2360438	1.403558	.4296405	.3170238	.4427546	.4633929
#1	.7323168	1.875993	.9181573	1.813531	.7357870	1.769203
#2	.7329226	1.921756	.9259365	1.804189	.7417513	1.752927
#3	.7296748	1.922922	.9233651	1.803116	.7411112	1.760049

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1706321	.1773921	.1866067	.9395109	.3755781	.1808681
Stddev	.0009505	.0011207	.0003350	.0020655	.0031922	.0007424
%RSD	.5570587	.6317440	.1794980	.2198513	.8499478	.4104716
#1	.1717287	.1786603	.1862903	.9396936	.3756156	.1801774
#2	.1700439	.1769810	.1865723	.9373601	.3723673	.1807736
#3	.1701236	.1765351	.1869575	.9414790	.3787514	.1816532

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2791160	2.762763	.1756385	1.750891	.4580598	.0687325
Stddev	.0006284	.034923	.0005557	.014404	.0018756	.0004096
%RSD	.2251467	1.264064	.3163870	.8226567	.4094573	.5959916
#1	.2790184	2.769274	.1755322	1.763436	.4567537	.0687268
#2	.2785420	2.725042	.1751437	1.735162	.4572168	.0691449
#3	.2797875	2.793972	.1762397	1.754075	.4602090	.0683257

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.939452	.2708450	.1836969	8.726710	.2513594	.3838941
Stddev	.024191	.0015471	.0011135	.059625	.0020119	.0011102
%RSD	.8229741	.5712035	.6061748	.6832456	.8003929	.2891858
#1	2.927665	.2722538	.1849511	8.731247	.2534627	.3827051
#2	2.923414	.2710918	.1828247	8.664946	.2511621	.3849035
#3	2.967277	.2691893	.1833148	8.783936	.2494535	.3840737

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167859BS Acquired: 5/7/2025 14:17:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.6607077**	**.1838462**	**.7910682**	**5.601834**	F **-.012469**	**.1802280**
Stddev	.0012704	.0006464	.0097319	.005896	.003156	.0003692
%RSD	.1922742	.3516010	1.230226	.1052579	25.30916	.2048411
#1	.6592687	.1845248	.7913496	5.598698	-.014883	.1804557
#2	.6611805	.1837762	.7811986	5.598169	-.013626	.1798020
#3	.6616738	.1832377	.8006564	5.608636	-.008898	.1804262

Elem	Sr4077
Units	ppm
Avg	**.1791792**
Stddev	.0004466
%RSD	.2492591
#1	.1794633
#2	.1794100
#3	.1786644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2966.677**	**71336.04**	**15014.79**	**1992.946**	**4644.699**
Stddev	3.936	580.93	63.18	7.371	8.485
%RSD	.1326846	.8143554	.4207677	.3698660	.1826819
#1	2963.808	71129.39	14941.89	1993.139	4643.777
#2	2971.165	71992.05	15053.57	2000.218	4653.607
#3	2965.059	70886.70	15048.91	1985.480	4636.712

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1939-05DLX5 Acquired: 5/7/2025 14:22:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**5.174387**	**.0129948**	**16.02095**	**-.014983**	**.1694681**	**14.20024**	**.3465252**
Stddev	.012159	.0021592	.01538	.002221	.0028953	.02281	.0012651
%RSD	.2349810	16.61606	.0960256	14.82619	1.708469	.1606254	.3650846
#1	5.168892	.0111706	16.03860	-.017281	.1675926	14.21122	.3466507
#2	5.165945	.0124349	16.01383	-.012847	.1680091	14.17402	.3452021
#3	5.188323	.0153788	16.01040	-.014822	.1728027	14.21548	.3477229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027176**	**.0129553**	**15.64659**	**.2578723**	**.0257327**	**.5942587**	**141.6289**
Stddev	.0001196	.0003548	.02976	.0029685	.0001467	.0016476	1.5240
%RSD	4.402365	2.738657	.1901834	1.151140	.5701473	.2772501	1.076057
#1	.0027926	.0127948	15.64368	.2608445	.0259005	.5923819	143.2404
#2	.0027806	.0127091	15.61839	.2578649	.0256288	.5954670	141.4352
#3	.0025796	.0133620	15.67769	.2549075	.0256688	.5949270	140.2109

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7951807**	**4.615474**	**.0641602**	**.0062383**	**.1378867**	**.0596229**	**5.089292**
Stddev	.0019341	.023829	.0002903	.0001387	.0158794	.0013354	.029467
%RSD	.2432218	.5162925	.4525468	2.222658	11.51627	2.239809	.5790037
#1	.7966715	4.611389	.0644374	.0063856	.1541255	.0587933	5.112274
#2	.7958753	4.593952	.0641849	.0061103	.1371415	.0611634	5.099531
#3	.7929953	4.641082	.0638582	.0062191	.1223930	.0589120	5.056071

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.829215**	**-.386881**	**.0527490**	**10.39736**	**.4108960**	**2.023806**	**1.885006**
Stddev	.014764	.003651	.0002302	.01128	.0007996	.019010	.008310
%RSD	.8070997	.9438015	.4363775	.1085308	.1946109	.9392970	.4408285
#1	1.834172	-.382747	.0527100	10.39965	.4118189	2.044524	1.889821
#2	1.812611	-.389666	.0529963	10.40733	.4104595	2.019726	1.889787
#3	1.840863	-.388230	.0525409	10.38511	.4104096	2.007168	1.875411

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1939-05DLX5 Acquired: 5/7/2025 14:22:40 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	1.304032	.0806361	.0085004
Stddev	.005398	.0005293	.0011834
%RSD	.4139792	.6563870	13.92152
#1	1.308372	.0810873	.0074096
#2	1.305737	.0800535	.0083331
#3	1.297987	.0807676	.0097586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.193	70274.62	15148.71	1973.485	4607.439
Stddev	1.451	664.92	44.58	10.806	1.370
%RSD	.0482517	.9461710	.2942967	.5475785	.0297289
#1	3008.523	69688.54	15179.16	1966.520	4607.574
#2	3007.409	70138.12	15097.54	1968.001	4606.006
#3	3005.646	70997.19	15169.45	1985.934	4608.736

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167851TB Acquired: 5/7/2025 14:26:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.004444**	**-.006049**	**-.000493**	**.0004183**	**.0006341**	**.0052932**	**-.010375**
Stddev	.002590	.002033	.000589	.0021115	.0008267	.0022560	.001192
%RSD	58.29370	33.61001	119.3967	504.8104	130.3631	42.61999	11.48600
#1	-.005354	-.004111	-.001153	.0001623	.0008573	.0062852	-.009035
#2	-.006456	-.005871	-.000020	-.001554	-.000281	.0027113	-.010776
#3	-.001521	-.008166	-.000307	.002646	.001326	.0068832	-.011315

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000260**	**-.000029**	**.0091018**	**-.000714**	**-.000362**	**-.000047**	**.0024993**
Stddev	.000024	.000009	.0038641	.000104	.000073	.000177	.0009029
%RSD	9.364902	30.74812	42.45386	14.51477	20.21568	376.5303	36.12573
#1	-.000285	-.000022	.0134223	-.000758	-.000330	.000020	.0031232
#2	-.000258	-.000039	.0059767	-.000788	-.000446	.000086	.0029106
#3	-.000236	-.000026	.0079064	-.000596	-.000310	-.000247	.0014640

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018922**	**-.010685**	**.0003203**	**.0004939**	**380.4519**	**.0011764**	**.0008661**
Stddev	.0002538	.001729	.0001317	.0003957	10.2580	.0006791	.0005482
%RSD	13.41199	16.18195	41.10877	80.12170	2.696261	57.72586	63.29475
#1	.0018276	-.011227	.0002640	.0007205	380.3266	.0011867	.0003470
#2	.0021721	-.012079	.0002262	.0000370	390.7720	.0004923	.0014393
#3	.0016770	-.008750	.0004708	.0007243	370.2572	.0018504	.0008120

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0463737**	**-.007026**	**.0000447**	**-.000872**	**.0006764**	**.0022280**	**.0099830**
Stddev	.0325080	.000419	.0003036	.000069	.0008919	.0086101	.0010606
%RSD	70.10001	5.965046	678.4350	7.886331	131.8582	386.4465	10.62417
#1	.0089389	-.007405	-.000008	-.000895	.0003565	-.007654	.0100855
#2	.0626944	-.006576	-.000229	-.000794	.0016841	.008115	.0088749
#3	.0674878	-.007098	.000371	-.000926	-.000011	.006223	.0109887

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: PB167851TB Acquired: 5/7/2025 14:26:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0582473	-.004294	-.000109
Stddev	.0038665	.000765	.000046
%RSD	6.638129	17.80952	42.33371
#1	.0622073	-.003411	-.000146
#2	.0580532	-.004750	-.000124
#3	.0544815	-.004722	-.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2805.506	67881.74	14917.09	1848.125	4291.376
Stddev	7.929	2889.54	167.11	76.708	4.001
%RSD	.2826148	4.256720	1.120270	4.150594	.0932445
#1	2809.541	68388.90	14726.43	1859.112	4292.007
#2	2810.606	64772.19	14986.68	1766.516	4295.025
#3	2796.371	70484.11	15038.16	1918.748	4287.097

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1947-04 Acquired: 5/7/2025 14:31:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.002614**	**-.003784**	**.0046404**	**-.002082**	**-.000279**	**.2025040**	**.3208027**
Stddev	.002328	.001581	.0018428	.000542	.002239	.0071953	.0010842
%RSD	89.06056	41.78990	39.71285	26.01906	802.4271	3.553186	.3379782
#1	-.005211	-.002955	.0034729	-.001473	.001353	.1977776	.3203814
#2	-.000715	-.002789	.0036835	-.002264	.000642	.1989494	.3199923
#3	-.001915	-.005607	.0067648	-.002510	-.002831	.2107848	.3220344

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000011**	**.0000590**	**8.612198**	**-.000966**	**.0006469**	**.0283921**	**.0824058**
Stddev	.000036	.0000463	.028098	.000127	.0001395	.0001412	.0045482
%RSD	329.2690	78.35821	.3262635	13.10803	21.56667	.4973412	5.519226
#1	.000020	.0001122	8.642469	-.000824	.0004936	.0285534	.0780105
#2	-.000002	.0000372	8.607177	-.001067	.0006807	.0283322	.0870928
#3	-.000051	.0000277	8.586949	-.001007	.0007665	.0282908	.0821142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6125814**	**1.711402**	**.0007117**	**.0003177**	**319.7125**	**.0009046**	**.1075134**
Stddev	.0016301	.018504	.0004042	.0001041	2.9646	.0003153	.0012051
%RSD	.2661082	1.081214	56.79798	32.76274	.9272803	34.85114	1.120843
#1	.6138205	1.725566	.0003601	.0003174	318.8899	.0005732	.1086149
#2	.6107348	1.690466	.0006216	.0002138	317.2461	.0012007	.1062263
#3	.6131890	1.718174	.0011534	.0004219	323.0016	.0009398	.1076990

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7993619**	**.0498017**	**-.000170**	**-.002601**	**.0045791**	**.7708230**	**.0275846**
Stddev	.0098267	.0005928	.000197	.001238	.0002596	.0122976	.0033784
%RSD	1.229321	1.190260	115.7665	47.61675	5.669209	1.595383	12.24722
#1	.8088412	.0502326	-.000395	-.003714	.0046905	.7824614	.0314818
#2	.8000234	.0491257	-.000034	-.001267	.0042823	.7720494	.0257841
#3	.7892212	.0500467	-.000081	-.002821	.0047643	.7579582	.0254879

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1947-04 Acquired: 5/7/2025 14:31:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.3762028	-.004705	.0447017
Stddev	.0065782	.000487	.0001007
%RSD	1.748580	10.35370	.2253105
#1	.3712574	-.004143	.0446041
#2	.3836685	-.004977	.0446958
#3	.3736826	-.004996	.0448053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2870.258	69932.32	15672.58	1880.264	4416.413
Stddev	22.378	374.60	91.12	10.004	25.724
%RSD	.7796475	.5356601	.5813957	.5320641	.5824574
#1	2863.204	69499.93	15571.63	1877.438	4411.204
#2	2852.257	70158.63	15697.39	1891.377	4393.693
#3	2895.312	70138.40	15748.74	1871.976	4444.343

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV02 Acquired: 5/7/2025 14:35:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**5.051789**	**5.121744**	**5.030230**	**5.044976**	**5.043570**	**10.14710**	**9.995294**
Stddev	.021869	.043730	.004717	.025908	.030001	.02922	.057258
%RSD	.4328907	.8538064	.0937710	.5135310	.5948280	.2879847	.5728516
#1	5.057581	5.083602	5.025684	5.034400	5.034233	10.12232	10.02756
#2	5.027607	5.112159	5.029907	5.026029	5.019348	10.17932	9.92918
#3	5.070179	5.169472	5.035101	5.074498	5.077129	10.13964	10.02914

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2603994**	**2.492908**	**24.93550**	**1.019592**	**2.494661**	**1.265942**	**4.867388**
Stddev	.0008713	.006867	.04261	.006780	.003612	.003928	.018545
%RSD	.3346132	.2754743	.1708609	.6649539	.1447900	.3102580	.3810047
#1	.2594480	2.489580	24.95856	1.015105	2.493313	1.264733	4.849211
#2	.2611585	2.500805	24.96161	1.016279	2.498753	1.262761	4.866674
#3	.2605918	2.488338	24.88634	1.027391	2.491917	1.270332	4.886280

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.468937**	**24.77595**	**2.503181**	**1.265273**	**24.05936**	**2.494041**	**2.536623**
Stddev	.002459	.08449	.004002	.008033	.06939	.001316	.019960
%RSD	.0995971	.3409981	.1598888	.6348547	.2884234	.0527844	.7868853
#1	2.468351	24.72214	2.499599	1.262658	24.06205	2.492962	2.523967
#2	2.471636	24.87332	2.507501	1.258873	23.98867	2.495508	2.526269
#3	2.466823	24.73238	2.502443	1.274287	24.12737	2.493654	2.559633

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.23399**	**5.194577**	**5.101848**	**5.015350**	**4.977266**	**4.859284**	**5.056344**
Stddev	.09729	.011918	.013851	.008709	.016815	.034619	.019851
%RSD	.4014726	.2294303	.2714962	.1736403	.3378457	.7124209	.3925912
#1	24.21335	5.200900	5.096814	5.005698	4.986508	4.829073	5.033431
#2	24.14868	5.180830	5.091218	5.022619	4.987433	4.851720	5.067241
#3	24.33995	5.202001	5.117512	5.017733	4.957857	4.897059	5.068359

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV02 Acquired: 5/7/2025 14:35:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.969226**	**5.082197**	**4.968139**
Stddev	.006151	.019490	.061675
%RSD	.1237900	.3835017	1.241404
#1	4.962408	5.086306	5.026446
#2	4.974360	5.099305	4.974397
#3	4.970911	5.060980	4.903574

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2946.804**	**71423.21**	**14243.08**	**1942.881**	**4507.486**
Stddev	2.694	441.69	23.24	14.629	7.389
%RSD	.0914046	.6184095	.1631734	.7529359	.1639308
#1	2943.694	71717.12	14267.08	1947.690	4504.440
#2	2948.366	71637.21	14220.68	1954.499	4502.106
#3	2948.352	70915.28	14241.48	1926.453	4515.911

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB02 Acquired: 5/7/2025 14:39:54 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.000882**	**.0006153**	**.0011732**	**-.001308**	**.0009744**	**.0098233**	**-.011347**
Stddev	.001474	.0006725	.0010838	.002541	.0007888	.0009030	.000654
%RSD	167.0497	109.3012	92.38248	194.2782	80.95985	9.192729	5.765711
#1	-.000755	.0011962	.0010751	-.000803	.0011722	.0107483	-.010978
#2	.000524	.0007710	.0023027	.000943	.0016454	.0097779	-.012102
#3	-.002415	-.000121	.0001418	-.004063	.0001054	.0089439	-.010961

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**.0003023**	**.0107563**	**.0002530**	**.0002331**	**.0004846**	**.0044128**
Stddev	.000008	.0000710	.0065082	.0004381	.0000815	.0002869	.0013210
%RSD	21.61735	23.47270	60.50585	173.1271	34.93434	59.21347	29.93627
#1	-.000044	.0003488	.0132843	.0002322	.0003261	.0004087	.0036004
#2	-.000031	.0003374	.0156213	.0007012	.0001745	.0002432	.0059371
#3	-.000031	.0002206	.0033634	-.000174	.0001988	.0008018	.0037009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004791**	**.0049152**	**.0006787**	**.0006999**	**-.002770**	**.0014836**	**.0011157**
Stddev	.000186	.0001587	.0000751	.0001290	.004322	.0010583	.0005068
%RSD	3.889291	3.229461	11.05991	18.42966	156.0112	71.33085	45.42085
#1	-.004993	.0050801	.0006326	.0006157	-.007093	.0016516	.0005383
#2	-.004753	.0047635	.0007653	.0008484	.001551	.0024478	.0014866
#3	-.004626	.0049021	.0006382	.0006356	-.002769	.0003514	.0013222

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002641**	**-.001512**	**.0009062**	**.0030889**	**.0013209**	**-.006739**	**.0036221**
Stddev	.007243	.000305	.0003415	.0006173	.0001384	.006321	.0017136
%RSD	274.2828	20.18398	37.69204	19.98492	10.47452	93.79421	47.30771
#1	.003441	-.001169	.0008653	.0037665	.0014503	-.006774	.0027252
#2	-.010653	-.001613	.0012663	.0025585	.0013373	-.013043	.0025432
#3	-.000709	-.001753	.0005869	.0029416	.0011751	-.000401	.0055980

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB02 Acquired: 5/7/2025 14:39:54 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.002294**	**-.000141**	**.0005893**
Stddev	.001591	.000234	.0000406
%RSD	69.34943	165.8266	6.893139
#1	-.000742	-.000145	.0005595
#2	-.002220	-.000374	.0006356
#3	-.003922	.000095	.0005728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3012.942**	**73669.43**	**15349.33**	**2004.156**	**4808.061**
Stddev	23.505	201.08	39.36	5.053	50.356
%RSD	.7801271	.2729554	.2563996	.2521226	1.047328
#1	3014.005	73691.11	15390.19	2004.285	4816.397
#2	2988.923	73858.80	15346.12	2009.143	4754.056
#3	3035.897	73458.39	15311.68	1999.039	4853.728

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1947-08 Acquired: 5/7/2025 14:44:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.001877**	**-.004769**	**.0025734**	**-.000072**	**.0002508**	**.0846294**	**.2799174**
Stddev	.001245	.000517	.0004664	.001004	.0009140	.0012664	.0003313
%RSD	66.31074	10.83851	18.12269	1387.731	364.4291	1.496408	.1183516
#1	-.001156	-.005364	.0024502	-.001221	-.000530	.0832133	.2801366
#2	-.001161	-.004517	.0021810	.000638	.000027	.0856534	.2795363
#3	-.003315	-.004427	.0030890	.000366	.001256	.0850214	.2800792

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000389**	**-.000010**	**9.561134**	**-.000734**	**.0002518**	**.0080824**	**.0440763**
Stddev	.0000377	.000145	.011432	.000199	.0001685	.0000251	.0022781
%RSD	96.84582	1381.949	.1195696	27.13646	66.91855	.3103931	5.168432
#1	-.000003	-.000094	9.574264	-.000597	.0003663	.0080549	.0463035
#2	.000051	.000156	9.555751	-.000963	.0003306	.0081041	.0441750
#3	.000069	-.000094	9.553387	-.000643	.0000583	.0080883	.0417505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3103083**	**2.714402**	**.0040428**	**.0008915**	**358.0750**	**.0008477**	**.0801690**
Stddev	.0003401	.018093	.0000861	.0001032	6.1349	.0018676	.0010081
%RSD	.1095900	.6665488	2.130697	11.57361	1.713294	220.2998	1.257518
#1	.3099313	2.732264	.0040197	.0007987	356.7598	-.001095	.0812746
#2	.3104018	2.696087	.0039705	.0008732	352.7045	.001009	.0793007
#3	.3105919	2.714855	.0041381	.0010026	364.7609	.002630	.0799318

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6245660**	**.0273391**	**.0000099**	**-.002059**	**.0009966**	**.8825955**	**.0324723**
Stddev	.0053181	.0008817	.0001379	.001000	.0003368	.0050204	.0032361
%RSD	.8514841	3.225177	1396.970	48.55934	33.79107	.5688176	9.965821
#1	.6272038	.0278610	-.000084	-.003152	.0013814	.8796136	.0316255
#2	.6184446	.0278351	-.000055	-.001190	.0007557	.8797812	.0297437
#3	.6280495	.0263210	.000168	-.001835	.0008527	.8883917	.0360476

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1947-08 Acquired: 5/7/2025 14:44:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.4679315	-.002677	.0323033
Stddev	.0016462	.000835	.0001053
%RSD	.3518141	31.18974	.3258404
#1	.4675586	-.003121	.0321988
#2	.4665037	-.001714	.0323019
#3	.4697322	-.003196	.0324093

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2808.961	70921.37	16019.77	1871.139	4293.956
Stddev	12.318	398.11	105.12	18.715	16.441
%RSD	.4385292	.5613449	.6562110	1.000203	.3828847
#1	2816.355	70554.31	15922.17	1863.648	4306.053
#2	2815.787	71344.58	16006.07	1892.439	4300.579
#3	2794.741	70865.23	16131.07	1857.330	4275.237

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1951-04 Acquired: 5/7/2025 14:48:39 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0019550**	**-.003927**	**.0090583**	**-.001173**	**.0000719**	**.1282126**	**.3262935**
Stddev	.0012394	.001798	.0010870	.001301	.0026683	.0054520	.0020750
%RSD	63.39696	45.78196	12.00034	110.8899	3709.706	4.252321	.6359432
#1	.0006290	-.005307	.0078054	-.001523	.0012108	.1281034	.3241550
#2	.0030843	-.004581	.0097501	-.002263	-.002977	.1228159	.3264270
#3	.0021517	-.001894	.0096193	.000267	.001982	.1337183	.3282987

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000043**	**-.000474**	**12.81362**	**-.000172**	**.0077058**	**.0059255**	**11.49338**
Stddev	.0000192	.000058	.03917	.000039	.0003164	.0000704	.08203
%RSD	451.2002	12.25980	.3057192	22.42182	4.105525	1.187529	.7137308
#1	.0000050	-.000424	12.78397	-.000164	.0074951	.0059983	11.41289
#2	-.000015	-.000461	12.79885	-.000138	.0075527	.0058578	11.49040
#3	.000023	-.000538	12.85803	-.000214	.0080696	.0059203	11.57687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.166679**	**2.080167**	**.0059190**	**.0008059**	**366.9764**	**.0029224**	**.0941612**
Stddev	.009157	.018814	.0005227	.0001188	2.1981	.0010034	.0000386
%RSD	.4226512	.9044612	8.831584	14.73545	.5989631	34.33333	.0410360
#1	2.158177	2.068523	.0053198	.0008461	369.0614	.0023176	.0941342
#2	2.165485	2.070104	.0062813	.0008994	364.6805	.0023690	.0941439
#3	2.176374	2.101872	.0061560	.0006723	367.1873	.0040806	.0942055

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.765322**	**-.002728**	**-.000135**	**-.002556**	**.0002193**	**1.112318**	**.0170096**
Stddev	.013012	.000610	.000385	.000699	.0004031	.006374	.0025773
%RSD	.7370723	22.35155	285.4030	27.33505	183.7725	.5730454	15.15214
#1	1.761783	-.003426	-.000556	-.003347	.0004012	1.107957	.0199810
#2	1.754445	-.002299	-.000049	-.002296	-.000243	1.109363	.0153802
#3	1.779736	-.002460	.000200	-.002024	.000499	1.119633	.0156675

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1951-04 Acquired: 5/7/2025 14:48:39 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.4847899	-.001286	.0792090
Stddev	.0078492	.000611	.0002921
%RSD	1.619092	47.53850	.3688244
#1	.4769605	-.000745	.0789375
#2	.4847506	-.001949	.0791715
#3	.4926587	-.001164	.0795181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2779.736	71512.99	15588.09	1884.895	4290.813
Stddev	13.282	199.06	26.92	6.476	31.470
%RSD	.4778237	.2783504	.1726738	.3435706	.7334336
#1	2786.503	71703.70	15557.16	1892.228	4298.268
#2	2788.272	71528.75	15606.13	1882.495	4317.886
#3	2764.433	71306.52	15601.00	1879.962	4256.284

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-05 Acquired: 5/7/2025 14:53:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.004799**	**-.004252**	**.0023298**	**.0008573**	**.0000544**	**.1139626**	**.1625884**
Stddev	.001148	.000948	.0012275	.0022221	.0015013	.0047242	.0011814
%RSD	23.91646	22.30045	52.68806	259.2039	2761.186	4.145382	.7265985
#1	-.003509	-.005343	.0034874	.0033469	-.001655	.1179582	.1626797
#2	-.005706	-.003779	.0024593	.0001499	.001161	.1151811	.1613641
#3	-.005182	-.003633	.0010427	-.000925	.000657	.1087485	.1637215

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000147**	**.0000517**	**2.596816**	**-.000522**	**.0000746**	**.0124990**	**.0571440**
Stddev	.000053	.0000958	.012899	.000201	.0002286	.0004414	.0081540
%RSD	35.73927	185.3122	.4967199	38.59659	306.4775	3.531072	14.26920
#1	-.000121	.0000420	2.600940	-.000392	.0001162	.0125288	.0522322
#2	-.000113	-.000039	2.582359	-.000419	.0002795	.0120435	.0526433
#3	-.000207	.000152	2.607149	-.000754	-.000172	.0129247	.0665564

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0180307**	**.5194756**	**.0002857**	**.0006487**	**323.2425**	**.0022338**	**.0779723**
Stddev	.0003403	.0129415	.0002466	.0001454	4.2085	.0003520	.0002165
%RSD	1.887237	2.491253	86.32477	22.40682	1.301965	15.75750	.2776176
#1	.0177141	.5047518	.0003071	.0005963	320.6807	.0020542	.0777504
#2	.0183905	.5246271	.0000291	.0008130	328.0996	.0026393	.0781829
#3	.0179874	.5290481	.0005208	.0005369	320.9471	.0020078	.0779837

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4294362**	**.0260146**	**.0003809**	**-.001150**	**.0033428**	**.3230607**	**.0296941**
Stddev	.0141085	.0006625	.0001775	.001005	.0000684	.0117843	.0042920
%RSD	3.285347	2.546561	46.60804	87.43300	2.047823	3.647689	14.45401
#1	.4215636	.0253230	.0003255	-.002177	.0034148	.3193099	.0346054
#2	.4210207	.0260773	.0005795	-.001103	.0032786	.3362639	.0266637
#3	.4457242	.0266435	.0002377	-.000168	.0033350	.3136085	.0278133

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-05 Acquired: 5/7/2025 14:53:05 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.6824502	-.002046	.0271419
Stddev	.0047075	.000661	.0001391
%RSD	.6897872	32.29090	.5124604
#1	.6835035	-.001768	.0270174
#2	.6773053	-.001570	.0271161
#3	.6865418	-.002800	.0272920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2844.271	69418.82	14492.69	1877.508	4358.392
Stddev	6.489	656.84	44.00	12.535	13.313
%RSD	.2281489	.9461994	.3036147	.6676447	.3054639
#1	2846.948	69439.77	14513.15	1878.530	4354.713
#2	2848.993	68751.75	14522.74	1864.493	4373.158
#3	2836.871	70064.93	14442.19	1889.500	4347.305

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1959-01 Acquired: 5/7/2025 14:57:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.005504**	**-.002276**	**.0033607**	**-.001913**	**.0014982**	**.2468423**
Stddev	.001697	.001610	.0003489	.000582	.0027203	.0040211
%RSD	30.82566	70.75759	10.38038	30.44556	181.5694	1.629008
#1	-.005826	-.001258	.0037336	-.002392	-.001614	.2492457
#2	-.007016	-.001437	.0033059	-.001265	.003425	.2422002
#3	-.003669	-.004132	.0030424	-.002083	.002683	.2490811

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0439739**	**-.000030**	**.0006225**	**67.76085**	**-.000669**	**.0070253**
Stddev	.0007904	.000065	.0000217	.11638	.000347	.0002160
%RSD	1.797331	218.7054	3.493092	.1717505	51.96538	3.074639
#1	.0439607	-.000101	.0006469	67.64563	-.000666	.0067918
#2	.0447707	.000026	.0006154	67.87835	-.000323	.0072180
#3	.0431902	-.000014	.0006052	67.75857	-.001018	.0070662

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0115853**	**.0576675**	**.7613560**	**1.998549**	**.0050367**	**.0005090**
Stddev	.0006813	.0035967	.0012502	.007094	.0003286	.0001401
%RSD	5.880603	6.237016	.1642040	.3549801	6.523430	27.52091
#1	.0114314	.0603317	.7618716	1.991214	.0047511	.0005226
#2	.0109941	.0590946	.7622659	2.005376	.0053958	.0003626
#3	.0123304	.0535762	.7599305	1.999056	.0049632	.0006417

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**293.9156**	**.0023534**	**.0594274**	**.7910630**	**.0095199**	**.0001785**
Stddev	1.2769	.0011835	.0005653	.0149934	.0001737	.0000654
%RSD	.4344435	50.28720	.9512615	1.895354	1.824803	36.66438
#1	293.2599	.0033771	.0599738	.8033903	.0095564	.0001113
#2	293.0997	.0010576	.0588449	.7954271	.0093308	.0001820
#3	295.3871	.0026256	.0594635	.7743717	.0096725	.0002420

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1959-01 Acquired: 5/7/2025 14:57:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.005493**	**-.000205**	**1.306318**	**.0426038**	F **26.69445**	**-.013474**
Stddev	.000444	.000509	.012612	.0007564	.16930	.000383
%RSD	8.075610	248.2895	.9654674	1.775323	.6342257	2.843550
#1	-.005635	-.000655	1.291756	.0429980	26.64094	-.013122
#2	-.004996	-.000309	1.313423	.0417317	26.55837	-.013882
#3	-.005848	.000348	1.313774	.0430815	26.88404	-.013418

Elem	Sr4077
Units	ppm
Avg	**.1511385**
Stddev	.0004220
%RSD	.2792151
#1	.1510453
#2	.1515993
#3	.1507709

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2813.179**	**69242.91**	**15212.16**	**1883.649**	**4258.606**
Stddev	15.293	155.68	27.13	2.188	27.128
%RSD	.5436299	.2248246	.1783670	.1161430	.6370205
#1	2822.396	69118.98	15207.66	1881.125	4281.351
#2	2821.615	69192.12	15241.26	1884.816	4265.887
#3	2795.526	69417.64	15187.55	1885.005	4228.580

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03 Acquired: 5/7/2025 15:01:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.005550**	**-.003995**	**.1201504**	**-.002397**	**-.000578**	**.1081888**	**.2635780**
Stddev	.000771	.000997	.0005842	.002528	.000514	.0046341	.0012621
%RSD	13.88441	24.96374	.4862452	105.4574	88.94452	4.283333	.4788462
#1	-.006401	-.003091	.1199666	.000433	-.000981	.1131826	.2637235
#2	-.005350	-.003829	.1196803	-.004432	-.000754	.1073567	.2622494
#3	-.004899	-.005065	.1208045	-.003193	.000001	.1040272	.2647611

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000051**	**.0010819**	**4.903140**	**-.000691**	**.0284911**	**.0415034**	**.0609969**
Stddev	.000068	.0000827	.027412	.000338	.0004453	.0004251	.0034685
%RSD	132.2476	7.641957	.5590677	48.92831	1.562902	1.024174	5.686370
#1	-.000099	.0011425	4.901784	-.000630	.0286586	.0415586	.0645867
#2	.000026	.0009877	4.876431	-.000387	.0288283	.0418981	.0607401
#3	-.000080	.0011155	4.931205	-.001055	.0279863	.0410534	.0576639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2749244**	**.6633883**	**.0018292**	**.0005447**	**343.4478**	**.0008285**	**.2308025**
Stddev	.0012711	.0129142	.0001067	.0000984	4.2847	.0017272	.0027363
%RSD	.4623467	1.946697	5.835286	18.06401	1.247561	208.4645	1.185544
#1	.2749432	.6522483	.0018849	.0005966	338.8267	.0027286	.2286259
#2	.2736441	.6603734	.0018967	.0006062	347.2890	.0004036	.2299075
#3	.2761861	.6775432	.0017062	.0004312	344.2277	-.000647	.2338742

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.448598**	**.0060267**	**.0000523**	**-.002136**	**.0026045**	**.6437907**	**.0185939**
Stddev	.040934	.0004391	.0001669	.000154	.0009767	.0147325	.0022301
%RSD	1.671751	7.285731	318.9322	7.229189	37.50093	2.288398	11.99355
#1	2.485993	.0055421	.0000659	-.002236	.0028542	.6586211	.0170427
#2	2.404864	.0061397	-.000121	-.002213	.0034321	.6291581	.0175895
#3	2.454938	.0063982	.000212	-.001958	.0015272	.6435930	.0211496

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03 Acquired: 5/7/2025 15:01:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.3287519	-.003694	.0350418
Stddev	.0022618	.001377	.0000467
%RSD	.6879846	37.26284	.1333011
#1	.3276620	-.005228	.0350193
#2	.3272414	-.003290	.0350105
#3	.3313522	-.002565	.0350955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.734	69577.91	15444.19	1886.283	4237.581
Stddev	5.772	412.37	134.89	13.643	10.020
%RSD	.2056594	.5926721	.8734200	.7232709	.2364608
#1	2800.551	69635.49	15454.12	1894.091	4227.969
#2	2811.982	69958.46	15573.84	1894.228	4247.965
#3	2807.670	69139.78	15304.61	1870.529	4236.810

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03DUP Acquired: 5/7/2025 15:06:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.003204**	**-.003117**	**.1069261**	**.0009430**	**.0016196**	**.0937890**	**.2282134**
Stddev	.003437	.001369	.0026580	.0013922	.0018068	.0067444	.0012254
%RSD	107.2485	43.91634	2.485824	147.6262	111.5643	7.191015	.5369615
#1	-.005911	-.002497	.1049156	.0024497	-.000395	.0888312	.2295645
#2	.000662	-.004686	.1059231	.0006752	.003098	.1014690	.2271738
#3	-.004364	-.002167	.1099397	-.000296	.002155	.0910668	.2279019

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000067**	**.0008264**	**4.328276**	**-.000613**	**.0250110**	**.0368165**	**.0481707**
Stddev	.000019	.0000325	.018807	.000228	.0001424	.0004957	.0049078
%RSD	27.91155	3.933961	.4345066	37.26333	.5691812	1.346492	10.18836
#1	-.000068	.0008570	4.337873	-.000873	.0250209	.0370840	.0535441
#2	-.000048	.0008298	4.340348	-.000517	.0248640	.0362444	.0470433
#3	-.000086	.0007923	4.306607	-.000447	.0251482	.0371209	.0439247

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2462151**	**.5803689**	**.0015806**	**.0003846**	**293.9808**	**.0006216**	**.2039550**
Stddev	.0013832	.0027810	.0002530	.0001036	2.0041	.0006733	.0024126
%RSD	.5617729	.4791794	16.00528	26.94457	.6817074	108.3139	1.182895
#1	.2477782	.5812531	.0013457	.0003016	294.7388	.0009002	.2064752
#2	.2451493	.5826003	.0015475	.0005007	291.7083	-.000146	.2037230
#3	.2457178	.5772533	.0018484	.0003515	295.4954	.001111	.2016668

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.096426**	**.0052077**	**-.000069**	**-.002914**	**.0027501**	**.5559744**	**.0196209**
Stddev	.034307	.0001368	.000116	.001096	.0003444	.0088489	.0026867
%RSD	1.636463	2.627895	168.0574	37.59840	12.52179	1.591607	13.69332
#1	2.136039	.0053615	.000006	-.001711	.0026521	.5660846	.0201366
#2	2.076954	.0051625	-.000203	-.003854	.0024654	.5496381	.0220124
#3	2.076285	.0050992	-.000010	-.003178	.0031329	.5522005	.0167137

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03DUP Acquired: 5/7/2025 15:06:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.3047413	-.002992	.0308642
Stddev	.0024418	.000417	.0000456
%RSD	.8012764	13.94015	.1478725
#1	.3024487	-.002948	.0308893
#2	.3073091	-.003429	.0308116
#3	.3044661	-.002599	.0308919

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2838.212	69919.31	14968.96	1891.839	4317.485
Stddev	3.659	548.73	84.42	18.664	12.519
%RSD	.1289049	.7848089	.5639423	.9865694	.2899687
#1	2837.126	69302.52	14888.05	1870.872	4319.219
#2	2842.291	70353.35	14962.35	1898.005	4329.046
#3	2835.220	70102.06	15056.49	1906.641	4304.188

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03LX5 Acquired: 5/7/2025 15:10:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.001855**	**.0004059**	**.0245651**	**-.001518**	**.0001248**	**.0211874**	**.0464443**
Stddev	.003876	.0001059	.0005098	.003098	.0023749	.0067057	.0019495
%RSD	208.8807	26.08876	2.075253	204.0966	1903.220	31.64955	4.197477
#1	-.001962	.0003838	.0246325	-.003839	.0025687	.0134577	.0485975
#2	.002072	.0003128	.0250378	.002000	-.000020	.0246585	.0447991
#3	-.005677	.0005211	.0240249	-.002714	-.002174	.0254460	.0459364

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000050**	**.0002016**	**.9803177**	**-.000171**	**.0056140**	**.0082248**	**.0100111**
Stddev	.000034	.0000372	.0306769	.000236	.0003780	.0002650	.0047243
%RSD	68.23547	18.46322	3.129281	138.4671	6.733773	3.221784	47.19091
#1	-.000089	.0001985	1.014249	-.000019	.0051836	.0081263	.0046216
#2	-.000025	.0001661	.954546	-.000443	.0058922	.0085249	.0119749
#3	-.000036	.0002403	.972158	-.000050	.0057662	.0080232	.0134368

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0492794**	**.1318215**	**.0002781**	**.0003848**	**63.66817**	**.0011156**	**.0452733**
Stddev	.0015415	.0080932	.0004019	.0002510	2.49774	.0007532	.0020592
%RSD	3.128121	6.139491	144.5234	65.23677	3.923063	67.51307	4.548260
#1	.0510100	.1245680	.0007358	.0002201	66.52219	.0015000	.0476479
#2	.0480535	.1303454	.0001151	.0002606	62.60120	.0015991	.0439797
#3	.0487747	.1405511	-.000017	.0006737	61.88112	.0002478	.0441925

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5259127**	**-.005683**	**-.000359**	**.0000944**	**.0011061**	**.1145466**	**.0049168**
Stddev	.0228522	.000101	.000251	.0003357	.0005241	.0039767	.0022647
%RSD	4.345237	1.775217	70.00241	355.4543	47.37755	3.471706	46.06179
#1	.5514608	-.005783	-.000069	.0001714	.0006473	.1191149	.0023567
#2	.5188562	-.005581	-.000495	-.000273	.0016772	.1126656	.0057344
#3	.5074210	-.005686	-.000513	.000385	.0009939	.1118594	.0066592

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03LX5 Acquired: 5/7/2025 15:10:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0572705	.0071776	.0066751
Stddev	.0037420	.0007775	.0001928
%RSD	6.533881	10.83217	2.888847
#1	.0578629	.0078451	.0068857
#2	.0606810	.0063239	.0065072
#3	.0532677	.0073637	.0066324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.595	69069.12	14653.53	1924.459	4572.432
Stddev	10.470	2437.02	442.13	66.568	15.260
%RSD	.3528031	3.528377	3.017224	3.459038	.3337409
#1	2955.605	66327.73	14169.42	1848.223	4555.226
#2	2974.928	69889.67	15035.96	1954.074	4577.741
#3	2972.252	70989.95	14755.20	1971.081	4584.328

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03MS Acquired: 5/7/2025 15:15:03 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.7933941	1.948643	1.057354	1.968354	.7972486	1.961137	.4312011
Stddev	.0066211	.010125	.007327	.004779	.0038139	.008753	.0032585
%RSD	.8345317	.5195999	.6930024	.2427786	.4783873	.4463301	.7556724
#1	.7962163	1.943838	1.052312	1.971048	.7936574	1.970948	.4337167
#2	.7858295	1.941815	1.053990	1.962837	.7968365	1.954128	.4275202
#3	.7981365	1.960276	1.065759	1.971177	.8012518	1.958335	.4323665

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1774346	.1996246	5.517087	.3901982	.2206383	.3211970	3.047533
Stddev	.0014136	.0010019	.011410	.0064233	.0009472	.0016892	.029929
%RSD	.7967051	.5018812	.2068186	1.646150	.4292885	.5259052	.9820865
#1	.1759429	.1988631	5.521441	.3827816	.2204854	.3224147	3.013942
#2	.1776065	.1992511	5.504140	.3939654	.2197768	.3192685	3.057292
#3	.1787545	.2007596	5.525678	.3938476	.2216526	.3219076	3.071365

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4438572	2.392491	.4855793	.0728452	316.5709	.2868772	.4038653
Stddev	.0016615	.020071	.0022025	.0014753	5.2789	.0013523	.0064692
%RSD	.3743268	.8389211	.4535903	2.025222	1.667520	.4713789	1.601828
#1	.4455498	2.369618	.4841267	.0712748	310.6096	.2882802	.3964528
#2	.4422287	2.407162	.4844977	.0742021	318.4500	.2855821	.4083731
#3	.4437931	2.400694	.4881135	.0730587	320.6532	.2867693	.4067699

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.87963	.2540734	.4188587	.7031039	.1968147	1.468724	6.085981
Stddev	.15602	.0020490	.0026042	.0028513	.0013177	.028720	.020003
%RSD	1.211368	.8064596	.6217484	.4055284	.6694890	1.955443	.3286739
#1	12.69994	.2521346	.4192327	.7034197	.1977274	1.435641	6.084867
#2	12.98076	.2538685	.4160877	.7001078	.1953041	1.483271	6.066558
#3	12.95818	.2562172	.4212557	.7057841	.1974125	1.487261	6.106518

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03MS Acquired: 5/7/2025 15:15:03 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.2877582	.1975305	.2215312
Stddev	.0060541	.0016621	.0007899
%RSD	2.103881	.8414349	.3565718
#1	.2840647	.1987797	.2222973
#2	.2844648	.1956441	.2207195
#3	.2947450	.1981676	.2215769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2822.562	69262.33	15357.57	1907.476	4255.204
Stddev	17.023	980.00	60.45	17.027	22.953
%RSD	.6031063	1.414909	.3936250	.8926508	.5394098
#1	2815.091	70393.92	15348.24	1927.096	4252.897
#2	2842.043	68701.68	15422.14	1896.566	4279.224
#3	2810.551	68691.39	15302.33	1898.766	4233.492

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03MSD Acquired: 5/7/2025 15:19:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.7631424	1.862092	1.018266	1.886565	.7683630	1.908064	.4303760
Stddev	.0099820	.020879	.005429	.012511	.0051492	.013465	.0043152
%RSD	1.308020	1.121252	.5331964	.6631885	.6701539	.7057151	1.002667
#1	.7536050	1.849385	1.020284	1.883259	.7663842	1.894753	.4260169
#2	.7623058	1.850703	1.012117	1.876039	.7644967	1.921679	.4346460
#3	.7735164	1.886189	1.022398	1.900398	.7742081	1.907758	.4304650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1713610	.1913544	5.557103	.3829190	.2129099	.3097430	3.038156
Stddev	.0006942	.0012701	.015183	.0008539	.0008705	.0013085	.040073
%RSD	.4051193	.6637275	.2732188	.2230009	.4088478	.4224368	1.318997
#1	.1721493	.1924381	5.544516	.3824548	.2135813	.3097286	3.004292
#2	.1710927	.1899568	5.573965	.3823978	.2119264	.3084418	3.082397
#3	.1708409	.1916684	5.552826	.3839045	.2132220	.3110586	3.027779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4419643	2.345009	.4658616	.0715224	331.1161	.2807748	.4070136
Stddev	.0019482	.015065	.0023789	.0002063	3.1375	.0010372	.0009451
%RSD	.4407977	.6424358	.5106354	.2884604	.9475537	.3693981	.2322033
#1	.4402521	2.341136	.4679654	.0714780	327.9401	.2798506	.4079785
#2	.4440840	2.361633	.4632801	.0713419	331.1944	.2805771	.4069725
#3	.4415568	2.332259	.4663392	.0717473	334.2137	.2818966	.4060897

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.87408	.2433213	.4055586	.6723393	.1919232	1.487061	5.825985
Stddev	.18463	.0025950	.0014426	.0053265	.0011389	.027128	.023647
%RSD	1.434137	1.066474	.3557174	.7922377	.5934049	1.824300	.4058811
#1	12.66381	.2450035	.4055709	.6770568	.1911129	1.457450	5.845419
#2	13.00968	.2446276	.4041098	.6665628	.1932253	1.510717	5.799658
#3	12.94876	.2403328	.4069950	.6733982	.1914313	1.493017	5.832879

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03MSD Acquired: 5/7/2025 15:19:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.2755716	.1914003	.2172611
Stddev	.0016032	.0022476	.0015330
%RSD	.5817734	1.174294	.7055881
#1	.2754820	.1889560	.2158253
#2	.2772177	.1933779	.2188756
#3	.2740150	.1918670	.2170825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.102	68194.98	15429.69	1867.370	4316.983
Stddev	5.540	402.47	36.49	8.359	15.422
%RSD	.1941796	.5901778	.2364938	.4476280	.3572366
#1	2856.391	68651.26	15412.47	1867.629	4306.728
#2	2856.210	67890.43	15404.98	1858.885	4334.718
#3	2846.706	68043.24	15471.60	1875.597	4309.502

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV03 Acquired: 5/7/2025 15:23:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.877645**	**5.079721**	**4.871283**	**4.899110**	**4.866236**	**9.793084**	**9.495753**
Stddev	.013229	.055287	.013243	.007823	.015557	.072760	.184980
%RSD	.2712245	1.088395	.2718668	.1596819	.3196836	.7429756	1.948031
#1	4.876163	5.016033	4.860467	4.899928	4.855166	9.736320	9.382107
#2	4.865219	5.107750	4.867329	4.890910	4.859520	9.875108	9.709200
#3	4.891552	5.115381	4.886053	4.906492	4.884022	9.767823	9.395952

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2562902**	**2.423877**	**24.47945**	**.9929156**	**2.424349**	**1.223685**	**4.818814**
Stddev	.0023372	.003200	.20338	.0071518	.003248	.004121	.064312
%RSD	.9119147	.1320163	.8308227	.7202813	.1339840	.3367502	1.334609
#1	.2542992	2.424711	24.38587	.9998608	2.425156	1.223306	4.889717
#2	.2588634	2.420342	24.71278	.9933123	2.420774	1.219768	4.802484
#3	.2557080	2.426576	24.33971	.9855737	2.427118	1.227983	4.764241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.426918**	**24.50294**	**2.432386**	**1.227870**	**23.08405**	**2.430567**	**2.449489**
Stddev	.014139	.19127	.004969	.005783	.29761	.012017	.017720
%RSD	.5826088	.7805881	.2042976	.4709569	1.289236	.4943989	.7234099
#1	2.423166	24.39453	2.431020	1.232809	23.38491	2.419657	2.458354
#2	2.442555	24.72378	2.428242	1.229291	23.07745	2.443447	2.461027
#3	2.415033	24.39051	2.437895	1.221509	22.78980	2.428597	2.429086

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.38796**	**5.066370**	**4.931418**	**4.884173**	**4.832983**	**4.698271**	**4.916003**
Stddev	.30636	.057933	.009182	.009429	.035514	.031492	.021429
%RSD	1.309885	1.143475	.1861980	.1930450	.7348282	.6702879	.4359039
#1	23.68866	5.008156	4.925517	4.874141	4.815678	4.733409	4.897739
#2	23.39899	5.124017	4.926739	4.885527	4.873832	4.688809	4.910676
#3	23.07624	5.066937	4.941997	4.892852	4.809438	4.672595	4.939592

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV03 Acquired: 5/7/2025 15:23:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.844778**	**4.829444**	**4.823158**
Stddev	.024152	.038716	.048520
%RSD	.4985096	.8016662	1.005983
#1	4.837833	4.809083	4.767139
#2	4.824859	4.874091	4.850422
#3	4.871641	4.805156	4.851914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2921.051**	**69838.19**	**13864.75**	**1937.248**	**4448.276**
Stddev	3.730	678.82	119.08	13.455	5.959
%RSD	.1276829	.9719924	.8588940	.6945261	.1339616
#1	2921.868	69205.70	13942.30	1926.597	4450.792
#2	2924.305	69753.47	13727.64	1932.777	4452.565
#3	2916.981	70555.39	13924.32	1952.369	4441.472

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB03 Acquired: 5/7/2025 15:27:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0006752**	**.0015016**	**.0010069**	**-.000796**	**.0027974**	**.0051593**	**-.006655**
Stddev	.0022226	.0006763	.0005257	.001788	.0004718	.0065375	.000156
%RSD	329.1887	45.03828	52.21008	224.6583	16.86422	126.7131	2.344244
#1	.0018977	.0012072	.0014190	.001101	.0025831	.0013195	-.006480
#2	.0020181	.0022751	.0011868	-.001039	.0024708	.0127078	-.006779
#3	-.001890	.0010224	.0004148	-.002450	.0033383	.0014506	-.006706

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000161**	**.0004442**	**.0142408**	**.0001293**	**.0005619**	**-.000165**	**.0063595**
Stddev	.0000198	.0000679	.0093466	.0001752	.0002068	.000145	.0012549
%RSD	123.4910	15.27985	65.63252	135.4684	36.80942	87.80153	19.73325
#1	.0000243	.0003687	.0152474	.0002085	.0007604	-.000123	.0049605
#2	-.000007	.0005002	.0044317	.0002509	.0003477	-.000046	.0067321
#3	.000030	.0004636	.0230435	-.000071	.0005775	-.000326	.0073860

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004652**	**-.006865**	**.0005052**	**.0006659**	**.0447673**	**.0010407**	**.0008163**
Stddev	.000517	.008578	.0002655	.0001491	.0129673	.0008213	.0001429
%RSD	11.10397	124.9476	52.54768	22.39645	28.96606	78.91778	17.50183
#1	-.004108	-.003998	.0006681	.0004938	.0298566	.0014654	.0009098
#2	-.004712	-.016509	.0006485	.0007463	.0534075	.0015629	.0008873
#3	-.005135	-.000088	.0001989	.0007576	.0510379	.0000940	.0006518

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0714546**	**-.001347**	**.0008758**	**.0040391**	**.0010594**	**-.008225**	**.0053499**
Stddev	.0353387	.000664	.0001794	.0008921	.0008468	.007956	.0007462
%RSD	49.45619	49.25143	20.48029	22.08722	79.92983	96.73568	13.94697
#1	.0584671	-.000581	.0008158	.0031562	.0002480	-.014356	.0053230
#2	.0444473	-.001737	.0010775	.0049402	.0019377	.000766	.0061091
#3	.1114494	-.001724	.0007342	.0040209	.0009927	-.011085	.0046176

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB03 Acquired: 5/7/2025 15:27:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.001873**	**.0027543**	**.0006769**
Stddev	.004673	.0009962	.0000204
%RSD	249.5124	36.17076	3.009207
#1	.000788	.0037373	.0006986
#2	-.007268	.0027801	.0006582
#3	.000862	.0017453	.0006739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3023.435**	**73456.20**	**14993.41**	**2014.151**	**4790.243**
Stddev	5.560	166.47	125.53	8.974	12.439
%RSD	.1838874	.2266251	.8372368	.4455492	.2596788
#1	3026.641	73271.23	14851.09	2007.700	4800.637
#2	3026.648	73593.98	15088.35	2024.399	4793.630
#3	3017.015	73503.38	15040.80	2010.353	4776.461

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03A Acquired: 5/7/2025 15:32:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.7411405**	**1.799354**	**.9666679**	**1.843115**	**.7438386**	**1.851106**	**.4044533**
Stddev	.0016890	.000447	.0030636	.010937	.0052145	.003360	.0007707
%RSD	.2278851	.0248350	.3169252	.5933808	.7010240	.1815258	.1905616
#1	.7391996	1.799797	.9636931	1.833136	.7417709	1.852974	.4052758
#2	.7419458	1.799360	.9664974	1.854807	.7399750	1.847227	.4037477
#3	.7422761	1.798904	.9698132	1.841401	.7497698	1.853117	.4043365

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1723281**	**.1802982**	**5.385875**	**.3553308**	**.2023905**	**.3005819**	**2.616160**
Stddev	.0007485	.0003903	.007572	.0013969	.0002542	.0009798	.006604
%RSD	.4343622	.2164742	.1405839	.3931230	.1256255	.3259537	.2524146
#1	.1730950	.1798493	5.392966	.3557107	.2020994	.3002973	2.609016
#2	.1715994	.1805571	5.377900	.3537833	.2025690	.2997759	2.617421
#3	.1722900	.1804883	5.386758	.3564985	.2025032	.3016724	2.622041

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4254251**	**2.244428**	**.4406767**	**.0670924**	**295.9777**	**.2635778**	**.3923592**
Stddev	.0027703	.013022	.0008729	.0001990	3.9011	.0002760	.0025252
%RSD	.6511726	.5801930	.1980814	.2966507	1.318031	.1047076	.6435844
#1	.4277805	2.232419	.4396914	.0670474	291.4832	.2635685	.3951964
#2	.4223730	2.242596	.4413533	.0669198	298.4856	.2633065	.3903584
#3	.4261218	2.258269	.4409854	.0673101	297.9642	.2638583	.3915227

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.46409**	**.2527502**	**.3863392**	**.6278996**	**.1803081**	**1.347221**	**5.546583**
Stddev	.04954	.0012872	.0012225	.0016978	.0002720	.008304	.015037
%RSD	.4320929	.5092947	.3164217	.2703865	.1508733	.6163555	.2710973
#1	11.41024	.2534776	.3851590	.6274787	.1803100	1.346698	5.534211
#2	11.50772	.2512639	.3862586	.6264518	.1800351	1.339191	5.563319
#3	11.47430	.2535091	.3875999	.6297682	.1805792	1.355774	5.542219

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-03A Acquired: 5/7/2025 15:32:01 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.2996396	.1894743	.2040996
Stddev	.0044544	.0005654	.0002217
%RSD	1.486573	.2983782	.1086388
#1	.3012178	.1890499	.2041790
#2	.2946110	.1892569	.2038492
#3	.3030900	.1901161	.2042708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2836.927	70865.91	14711.11	1885.702	4342.546
Stddev	7.546	54.35	49.26	5.317	3.730
%RSD	.2659980	.0766981	.3348220	.2819822	.0858911
#1	2839.858	70836.09	14660.13	1879.946	4343.359
#2	2842.567	70928.65	14758.45	1886.728	4345.802
#3	2828.354	70833.00	14714.75	1890.431	4338.476

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-01 Acquired: 5/7/2025 15:36:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0241869	-.000980	.0607720	-.001825	.0000355	18.94370	.0681653
Stddev	.0005226	.000523	.0008383	.000858	.0008032	.03806	.0004473
%RSD	2.160537	53.41413	1.379468	47.00532	2263.666	.2009355	.6561421
#1	.0247011	-.000449	.0602713	-.000842	-.000880	18.90691	.0680974
#2	.0242032	-.001495	.0603049	-.002423	.000620	18.94126	.0677559
#3	.0236564	-.000997	.0617398	-.002211	.000366	18.98293	.0686427

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015169	-.000666	7.139107	.0435873	.0130161	.0336288	34.53691
Stddev	.0000197	.000081	.003805	.0002595	.0002663	.0007118	.09911
%RSD	1.300750	12.18700	.0533029	.5953365	2.046113	2.116555	.2869664
#1	.0015280	-.000718	7.134824	.0435820	.0128876	.0335116	34.45799
#2	.0015285	-.000708	7.142100	.0438494	.0128384	.0329829	34.64815
#3	.0014941	-.000573	7.140397	.0433305	.0133223	.0343919	34.50460

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2438583	4.144605	.0289420	.0012579	33.82426	.0523442	.1366767
Stddev	.0007596	.027921	.0002623	.0003584	.17365	.0020248	.0010351
%RSD	.3114802	.6736829	.9061121	28.49345	.5133822	3.868334	.7573138
#1	.2445142	4.137213	.0286695	.0009996	33.81331	.0541810	.1365926
#2	.2440347	4.121123	.0291926	.0016670	34.00313	.0526786	.1377513
#3	.2430261	4.175478	.0289640	.0011070	33.65636	.0501729	.1356863

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.053153	-.086692	.0075332	.0007172	.7146046	2.541542	1.435711
Stddev	.003305	.000761	.0001169	.0003776	.0033685	.011433	.022294
%RSD	.1609957	.8776985	1.551753	52.65148	.4713751	.4498645	1.552810
#1	2.056140	-.086684	.0075718	.0010285	.7107227	2.528891	1.418752
#2	2.053717	-.087457	.0074019	.0008258	.7163335	2.544600	1.427417
#3	2.049601	-.085935	.0076259	.0002971	.7167576	2.551136	1.460963

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-01 Acquired: 5/7/2025 15:36:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2.899371	.0381707	.0118682
Stddev	.039499	.0007293	.0001786
%RSD	1.362331	1.910737	1.505087
#1	2.870906	.0382621	.0120726
#2	2.882742	.0374000	.0117422
#3	2.944466	.0388500	.0117899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.050	72928.30	15844.91	2007.021	4557.847
Stddev	37.011	133.08	25.28	5.299	54.599
%RSD	1.237390	.1824808	.1595503	.2640442	1.197920
#1	3024.877	73028.96	15828.03	2012.427	4606.650
#2	2996.756	72777.42	15873.98	2001.835	4568.012
#3	2951.518	72978.53	15832.72	2006.801	4498.880

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02 Acquired: 5/7/2025 15:40:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0188496	.0017705	.0302203	-.005351	-.000397	16.93060	.0403511
Stddev	.0011545	.0004863	.0005125	.002506	.000859	.03020	.0002970
%RSD	6.124987	27.46684	1.695954	46.83464	216.4778	.1783838	.7360316
#1	.0197357	.0022296	.0296289	-.003168	-.001305	16.93693	.0403621
#2	.0175440	.0012609	.0304951	-.004797	-.000287	16.95713	.0400488
#3	.0192693	.0018211	.0305367	-.008088	.000402	16.89774	.0406425

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013506	-.001294	7.363592	.0537739	.0104880	.0325524	34.95575
Stddev	.0000290	.000057	.009764	.0002425	.0001779	.0004094	.17012
%RSD	2.144338	4.401457	.1325953	.4510308	1.696687	1.257598	.4866682
#1	.0013765	-.001253	7.372704	.0537048	.0103877	.0328666	35.06532
#2	.0013193	-.001270	7.353286	.0535734	.0106935	.0327011	34.75977
#3	.0013559	-.001359	7.364786	.0540435	.0103829	.0320894	35.04215

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2180450	3.935456	.0271545	.0011688	10.03574	.0449017	.0664353
Stddev	.0002498	.003388	.0002266	.0003334	.02932	.0002771	.0001469
%RSD	.1145604	.0860809	.8344301	28.52085	.2921718	.6171748	.2210958
#1	.2179712	3.939134	.0270626	.0011661	10.06353	.0447415	.0664381
#2	.2178405	3.934771	.0274126	.0008368	10.00509	.0452217	.0662870
#3	.2183234	3.932463	.0269883	.0015035	10.03859	.0447419	.0665808

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.360725	-.096183	.0274124	-.001408	.7391570	1.756739	.9071010
Stddev	.014981	.001149	.0000786	.000069	.0029492	.002852	.0046212
%RSD	.6346010	1.194914	.2866872	4.900822	.3989939	.1623346	.5094488
#1	2.368346	-.095708	.0273996	-.001419	.7375741	1.759568	.9017841
#2	2.343465	-.097494	.0273409	-.001334	.7373371	1.753865	.9101510
#3	2.370364	-.095347	.0274966	-.001471	.7425596	1.756784	.9093679

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02 Acquired: 5/7/2025 15:40:29 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	13.63879	.0396274	.0144764
Stddev	.05110	.0003498	.0001222
%RSD	.3746344	.8826059	.8443644
#1	13.59348	.0394132	.0144156
#2	13.62873	.0394381	.0146171
#3	13.69417	.0400310	.0143964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3028.050	72448.71	15354.17	2010.735	4690.439
Stddev	4.067	158.48	83.79	3.797	10.604
%RSD	.1342989	.2187509	.5457253	.1888497	.2260738
#1	3032.480	72631.55	15438.65	2009.818	4699.738
#2	3027.186	72350.79	15271.08	2014.907	4678.891
#3	3024.485	72363.77	15352.79	2007.480	4692.688

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02DUP Acquired: 5/7/2025 15:44:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0213158	.0012555	.0362986	-.004143	-.000223	18.85512	.0438828
Stddev	.0014748	.0017178	.0009686	.001205	.000690	.10326	.0005806
%RSD	6.918852	136.8280	2.668323	29.09091	309.2716	.5476391	1.322973
#1	.0204736	.0007081	.0351834	-.003272	.000573	18.74165	.0433068
#2	.0230187	.0031803	.0367833	-.003639	-.000608	18.88017	.0438737
#3	.0204550	-.000122	.0369291	-.005518	-.000634	18.94355	.0444679

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015073	-.001177	7.592893	.0539711	.0122810	.0382411	40.49644
Stddev	.0000905	.000135	.035475	.0004668	.0001398	.0003706	.25804
%RSD	6.005764	11.46299	.4672174	.8648822	1.138461	.9690555	.6371915
#1	.0015165	-.001210	7.555613	.0535561	.0124352	.0386372	40.42465
#2	.0014125	-.001292	7.596832	.0544765	.0122454	.0381832	40.78278
#3	.0015929	-.001028	7.626235	.0538807	.0121625	.0379029	40.28190

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2559407	4.633835	.0304380	.0013814	12.08534	.0530412	.0919049
Stddev	.0026474	.036674	.0004093	.0001872	.09210	.0007577	.0005137
%RSD	1.034366	.7914388	1.344546	13.55339	.7620958	1.428495	.5588937
#1	.2533782	4.619292	.0302234	.0011669	12.00529	.0532949	.0913611
#2	.2557783	4.606664	.0309100	.0015121	12.18600	.0521892	.0923819
#3	.2586655	4.675551	.0301807	.0014653	12.06472	.0536394	.0919718

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.501092	-.108581	.0293492	.0006894	.8819402	2.612414	1.057135
Stddev	.035888	.001965	.0001882	.0017307	.0069011	.007971	.006549
%RSD	1.025049	1.810090	.6411156	251.0282	.7824894	.3051321	.6195326
#1	3.485359	-.107948	.0293655	-.000976	.8739759	2.613751	1.064598
#2	3.542159	-.107010	.0291534	.002479	.8861490	2.619632	1.052345
#3	3.475758	-.110785	.0295286	.000565	.8856959	2.603859	1.054462

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02DUP Acquired: 5/7/2025 15:44:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	19.16850	.0460479	.0106427
Stddev	.01295	.0001957	.0002823
%RSD	.0675796	.4249120	2.652559
#1	19.18026	.0458405	.0105421
#2	19.17061	.0462292	.0104244
#3	19.15462	.0460739	.0109615

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3026.758	72499.27	15238.88	1995.523	4684.191
Stddev	2.249	210.01	78.80	6.319	5.645
%RSD	.0742959	.2896711	.5170669	.3166370	.1205017
#1	3025.152	72409.66	15285.62	1992.457	4679.079
#2	3025.795	72348.92	15283.12	1991.323	4683.246
#3	3029.328	72739.21	15147.91	2002.790	4690.249

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02LX5 Acquired: 5/7/2025 15:48:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0016594**	**-.001941**	**.0068073**	**-.001853**	**-.000458**	**3.417470**	**.0008731**
Stddev	.0031095	.001502	.0006128	.000910	.000862	.004932	.0005917
%RSD	187.3834	77.34999	9.002849	49.11245	188.0449	.1443266	67.77576
#1	.0025522	-.000330	.0074414	-.000837	-.001224	3.418646	.0002211
#2	-.001799	-.003302	.0062182	-.002594	-.000625	3.421708	.0013760
#3	.004225	-.002192	.0067623	-.002129	.000475	3.412056	.0010221

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002332**	**-.000250**	**1.449557**	**.0103270**	**.0020045**	**.0067099**	**6.659720**
Stddev	.0000674	.000105	.012197	.0002395	.0001500	.0000695	.019671
%RSD	28.89663	41.82686	.8414519	2.319271	7.482646	1.036310	.2953682
#1	.0001843	-.000357	1.460145	.0100848	.0019442	.0066601	6.641288
#2	.0002052	-.000148	1.436220	.0103325	.0021753	.0067893	6.657440
#3	.0003101	-.000245	1.452305	.0105637	.0018941	.0066802	6.680431

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0382069**	**.7738870**	**.0052755**	**.0005560**	**1.858468**	**.0099632**	**.0123834**
Stddev	.0003154	.0079853	.0001002	.0000900	.009596	.0001292	.0002450
%RSD	.8254156	1.031843	1.899668	16.18749	.5163606	1.296671	1.978659
#1	.0379964	.7825445	.0053488	.0004885	1.864631	.0101052	.0123112
#2	.0380549	.7668105	.0053163	.0006582	1.847411	.0098525	.0126564
#3	.0385695	.7723059	.0051613	.0005213	1.863361	.0099319	.0121826

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4848333**	**-.026754**	**.0050752**	**.0001443**	**.1513888**	**.6532329**	**.1758227**
Stddev	.0094539	.000924	.0003461	.0010924	.0007666	.0112706	.0011188
%RSD	1.949933	3.453581	6.818987	757.1989	.5063647	1.725358	.6363434
#1	.4742411	-.027665	.0052135	.0013428	.1509398	.6496268	.1763858
#2	.4878425	-.026781	.0046814	-.000114	.1509528	.6658653	.1745342
#3	.4924164	-.025817	.0053308	-.000796	.1522740	.6442067	.1765481

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02LX5 Acquired: 5/7/2025 15:48:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2.624233	.0076182	.0030942
Stddev	.008440	.0011272	.0000307
%RSD	.3216137	14.79653	.9915898
#1	2.628950	.0086501	.0030705
#2	2.614489	.0064152	.0030832
#3	2.629259	.0077893	.0031289

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3038.331	73495.74	14920.50	2022.669	4781.846
Stddev	1.910	190.46	18.40	13.793	6.350
%RSD	.0628511	.2591459	.1232891	.6819212	.1327841
#1	3036.856	73715.51	14939.71	2038.387	4779.981
#2	3040.488	73392.89	14903.05	2012.583	4776.637
#3	3037.649	73378.81	14918.74	2017.036	4788.919

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-03 Acquired: 5/7/2025 15:53:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.7552598**	**1.913860**	**.9545673**	**1.769416**	**.5035453**	**24.61255**	**.2215972**
Stddev	.0065093	.022247	.0030153	.007508	.0022603	.05624	.0007274
%RSD	.8618620	1.162405	.3158778	.4243094	.4488668	.2284956	.3282664
#1	.7484080	1.924365	.9540859	1.760822	.5053287	24.60791	.2219803
#2	.7560097	1.928908	.9518217	1.774699	.5010033	24.67096	.2207583
#3	.7613616	1.888306	.9577943	1.772727	.5043040	24.55877	.2220530

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1863515**	**.1864485**	**8.408204**	**.4403688**	**.1958112**	**.3096027**	**40.81282**
Stddev	.0005901	.0002172	.006260	.0029349	.0007409	.0000917	.18064
%RSD	.3166600	.1164713	.0744538	.6664534	.3783678	.0296020	.4426120
#1	.1859714	.1862842	8.412568	.4420294	.1956193	.3095091	41.02017
#2	.1870313	.1866947	8.401031	.4420968	.1966292	.3096923	40.72877
#3	.1860517	.1863667	8.411012	.4369801	.1951851	.3096066	40.68952

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4277585**	**6.833849**	**.4957435**	**.0701717**	**22.32241**	**.3258283**	**.2655253**
Stddev	.0011750	.016520	.0003623	.0005116	.06463	.0029064	.0009671
%RSD	.2746829	.2417332	.0730802	.7290257	.2895234	.8919947	.3642268
#1	.4270882	6.849775	.4961317	.0707573	22.30644	.3230446	.2665720
#2	.4291152	6.834978	.4954144	.0699460	22.39353	.3288435	.2653392
#3	.4270721	6.816793	.4956845	.0698118	22.26726	.3255968	.2646648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.17480**	**.1550445**	**.4154475**	**.6644550**	**1.074704**	**3.367662**	**6.588129**
Stddev	.05616	.0015980	.0006910	.0022960	.004265	.020552	.018811
%RSD	.3962220	1.030706	.1663181	.3455455	.3968277	.6102843	.2855319
#1	14.23930	.1564325	.4152832	.6670619	1.073792	3.391383	6.591211
#2	14.13670	.1554036	.4162058	.6627338	1.079350	3.355188	6.605209
#3	14.14842	.1532975	.4148534	.6635692	1.070968	3.356414	6.567967

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-03 Acquired: 5/7/2025 15:53:14 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**16.72716**	**.2448019**	**.1934166**
Stddev	.05499	.0006867	.0006986
%RSD	.3287186	.2805276	.3611855
#1	16.72974	.2440098	.1926836
#2	16.78081	.2452300	.1940747
#3	16.67093	.2451658	.1934914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2987.302**	**71952.56**	**14736.11**	**1975.325**	**4580.239**
Stddev	1.071	365.75	9.67	8.719	1.617
%RSD	.0358557	.5083258	.0656477	.4413967	.0353140
#1	2988.536	71532.37	14735.58	1965.950	4579.005
#2	2986.611	72199.47	14726.72	1976.834	4579.642
#3	2986.760	72125.84	14746.04	1983.191	4582.070

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-04 Acquired: 5/7/2025 15:57:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.7411047**	**1.955760**	**.9424067**	**1.743200**	**.5089287**	**23.82027**	**.2230867**
Stddev	.0053990	.005220	.0038363	.010486	.0020988	.09026	.0012537
%RSD	.7285055	.2669054	.4070724	.6015361	.4124031	.3789114	.5619625
#1	.7349158	1.949872	.9421210	1.731156	.5065053	23.87489	.2242572
#2	.7435493	1.959820	.9387212	1.750301	.5101669	23.71609	.2217638
#3	.7448490	1.957588	.9463778	1.748143	.5101138	23.86984	.2232392

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1715799**	**.1823772**	**9.127047**	**.4340527**	**.1930680**	**.3054633**	**43.66372**
Stddev	.0010681	.0002469	.010230	.0017040	.0001261	.0014919	.08344
%RSD	.6225386	.1353812	.1120832	.3925785	.0652855	.4884195	.1910881
#1	.1726984	.1821312	9.138774	.4360198	.1929229	.3037411	43.57218
#2	.1705704	.1826250	9.119955	.4330305	.1931499	.3062866	43.73550
#3	.1714710	.1823756	9.122412	.4331079	.1931313	.3063622	43.68348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4335241**	**6.705906**	**.4886363**	**.0692927**	**12.59836**	**.3203876**	**.2587982**
Stddev	.0027636	.003547	.0010989	.0001617	.03728	.0022451	.0001535
%RSD	.6374637	.0528930	.2248887	.2333113	.2958836	.7007378	.0593291
#1	.4355933	6.709968	.4873686	.0693370	12.55599	.3193924	.2589550
#2	.4303857	6.703421	.4892220	.0694277	12.62608	.3188122	.2587915
#3	.4345934	6.704330	.4893182	.0691135	12.61303	.3229583	.2586482

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.80884**	**.1277336**	**.4145173**	**.6523591**	**1.074555**	**3.476169**	**6.706126**
Stddev	.02853	.0018106	.0021759	.0017662	.002250	.005202	.025317
%RSD	.2416244	1.417451	.5249367	.2707358	.2094089	.1496359	.3775161
#1	11.81303	.1298216	.4121165	.6530319	1.076135	3.474107	6.678194
#2	11.77844	.1267799	.4150760	.6503554	1.071979	3.472315	6.727562
#3	11.83505	.1265992	.4163595	.6536899	1.075551	3.482086	6.712622

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-04 Acquired: 5/7/2025 15:57:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	16.26079	.2343981	.1902846
Stddev	.04930	.0007228	.0013498
%RSD	.3031654	.3083475	.7093691
#1	16.20421	.2345404	.1911962
#2	16.28368	.2336147	.1887339
#3	16.29448	.2350391	.1909237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.232	73095.02	15778.34	1990.907	4672.365
Stddev	7.212	90.75	75.25	2.939	4.881
%RSD	.2390165	.1241531	.4769215	.1476383	.1044656
#1	3025.071	73074.11	15700.94	1993.351	4675.779
#2	3015.744	73016.55	15851.24	1987.645	4674.542
#3	3010.880	73194.40	15782.83	1991.724	4666.774

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02A Acquired: 5/7/2025 16:01:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.6738420**	**1.734272**	**.8414043**	**1.596624**	**.7229952**	**19.16546**	**.1977709**
Stddev	.0055049	.013373	.0017960	.004447	.0019516	.05399	.0007655
%RSD	.8169414	.7710906	.2134539	.2785328	.2699339	.2816826	.3870614
#1	.6685258	1.733268	.8394977	1.593081	.7216650	19.10419	.1970018
#2	.6795179	1.748119	.8416511	1.601615	.7220849	19.20607	.1985327
#3	.6734824	1.721429	.8430642	1.595176	.7252356	19.18610	.1977782

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1550573**	**.1628646**	**8.161964**	**.3884171**	**.1729416**	**.2786893**	**40.09070**
Stddev	.0002272	.0002220	.024527	.0008181	.0005152	.0012071	.14761
%RSD	.1465255	.1362930	.3004976	.2106237	.2978806	.4331311	.3681785
#1	.1551354	.1626850	8.138837	.3875269	.1729494	.2774540	39.98196
#2	.1548013	.1627960	8.159371	.3885883	.1724225	.2787480	40.03140
#3	.1552351	.1631128	8.187684	.3891360	.1734528	.2798660	40.25873

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3889603**	**5.685310**	**.4355991**	**.0627454**	**13.47651**	**.2852772**	**.2407995**
Stddev	.0015602	.013423	.0007860	.0003088	.07619	.0018558	.0005721
%RSD	.4011189	.2360937	.1804389	.4921496	.5653383	.6505130	.2375658
#1	.3872040	5.674551	.4350776	.0628003	13.39093	.2842928	.2410448
#2	.3894911	5.700352	.4365031	.0624128	13.53695	.2874178	.2412080
#3	.3901859	5.681028	.4352166	.0630230	13.50166	.2841211	.2401457

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.15283**	**.1250641**	**.4069090**	**.6422638**	**.9829367**	**4.483291**	**5.801675**
Stddev	.07722	.0011063	.0007798	.0012439	.0012748	.014291	.014943
%RSD	.6923686	.8845616	.1916424	.1936715	.1296929	.3187662	.2575613
#1	11.06804	.1261331	.4066839	.6414036	.9816197	4.467174	5.798285
#2	11.21912	.1239240	.4062665	.6436901	.9841646	4.494420	5.818022
#3	11.17133	.1251353	.4077766	.6416978	.9830260	4.488278	5.788718

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-02A Acquired: 5/7/2025 16:01:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	15.46229	.2061582	.1716784
Stddev	.04699	.0014535	.0001625
%RSD	.3039043	.7050173	.0946517
#1	15.44428	.2044956	.1715080
#2	15.51562	.2071877	.1716955
#3	15.42697	.2067913	.1718317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3029.809	72836.39	15837.80	2003.452	4702.129
Stddev	6.763	136.49	35.12	8.361	10.043
%RSD	.2232283	.1873912	.2217456	.4173285	.2135933
#1	3030.882	72967.42	15797.64	2012.954	4700.118
#2	3022.572	72846.72	15862.77	1997.219	4693.243
#3	3035.971	72695.03	15852.99	2000.184	4713.025

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV04 Acquired: 5/7/2025 16:05:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.849467**	**5.118170**	**4.841588**	**4.862858**	**4.858018**	**9.598308**	**9.488262**
Stddev	.010335	.034528	.009612	.043409	.024256	.018319	.125074
%RSD	.2131085	.6746236	.1985259	.8926554	.4992893	.1908516	1.318199
#1	4.853068	5.084002	4.830721	4.850261	4.853517	9.615939	9.618970
#2	4.837814	5.117460	4.848974	4.827141	4.836329	9.579372	9.369709
#3	4.857520	5.153048	4.845069	4.911172	4.884209	9.599612	9.476108

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2362202**	**2.399067**	**24.12596**	**.9678240**	**2.401962**	**1.215742**	**4.800425**
Stddev	.0013587	.006953	.08058	.0018010	.007670	.004501	.032910
%RSD	.5752029	.2898305	.3340035	.1860842	.3193376	.3702144	.6855682
#1	.2377048	2.391904	24.21819	.9682223	2.397134	1.214098	4.762445
#2	.2359174	2.399508	24.09054	.9658572	2.397945	1.212294	4.820531
#3	.2350384	2.405789	24.06916	.9693924	2.410807	1.220833	4.818297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.375875**	**23.72556**	**2.412603**	**1.184776**	**23.04426**	**2.407846**	**2.393060**
Stddev	.010339	.04501	.007244	.000400	.02266	.007206	.007974
%RSD	.4351467	.1897233	.3002460	.0337408	.0983452	.2992539	.3332134
#1	2.387236	23.77563	2.406244	1.184676	23.03086	2.414314	2.402160
#2	2.373370	23.71262	2.411077	1.184436	23.03150	2.400080	2.389725
#3	2.367019	23.68843	2.420488	1.185217	23.07043	2.409145	2.387295

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.29604**	**4.724559**	**4.933543**	**4.851374**	**4.791898**	**4.670348**	**4.860221**
Stddev	.10699	.035043	.017365	.013868	.009688	.018151	.019445
%RSD	.4592595	.7417126	.3519815	.2858514	.2021837	.3886535	.4000776
#1	23.23052	4.762076	4.928853	4.835807	4.801979	4.651800	4.838812
#2	23.23809	4.718928	4.919004	4.855908	4.782656	4.671168	4.865065
#3	23.41950	4.692673	4.952771	4.862407	4.791060	4.688075	4.876785

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV04 Acquired: 5/7/2025 16:05:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.779917**	**4.720513**	**4.783597**
Stddev	.026124	.017240	.048397
%RSD	.5465264	.3652237	1.011738
#1	4.761075	4.740321	4.836920
#2	4.768937	4.708887	4.742452
#3	4.809738	4.712331	4.771417

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2933.564**	**73799.17**	**14889.12**	**1967.790**	**4492.820**
Stddev	1.697	97.36	111.02	7.544	8.569
%RSD	.0578419	.1319318	.7456119	.3833561	.1907330
#1	2935.519	73723.84	14762.62	1962.996	4501.416
#2	2932.695	73909.11	14934.42	1976.485	4484.278
#3	2932.477	73764.56	14970.33	1963.889	4492.767

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB04 Acquired: 5/7/2025 16:09:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0010182**	**.0010323**	**.0005221**	**.0000612**	**.0005872**	**.0071194**	**-.008163**
Stddev	.0027741	.0012314	.0006251	.0009515	.0021926	.0077990	.000365
%RSD	272.4423	119.2786	119.7269	1553.355	373.4365	109.5457	4.472781
#1	.0042171	.0024324	.0012067	.0008045	.0025830	.0042198	-.008425
#2	-.000727	.0001175	-.000018	.0003903	.0009383	.0011856	-.007746
#3	-.000436	.0005472	.000378	-.001011	-.001760	.0159529	-.008319

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000843**	**.0003288**	**.0067289**	**.0003193**	**.0004221**	**.0001752**	**.0122531**
Stddev	.0000219	.0001191	.0032753	.0001831	.0001085	.0002747	.0024447
%RSD	25.98644	36.21550	48.67585	57.34872	25.71039	156.8667	19.95133
#1	.0000703	.0002815	.0035862	.0001203	.0003670	.0001017	.0148110
#2	.0000731	.0004643	.0101224	.0004807	.0003522	.0004792	.0099401
#3	.0001096	.0002407	.0064781	.0003569	.0005471	-.000055	.0120082

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003609**	**-.011421**	**.0006564**	**.0010131**	**-.036762**	**.0013430**	**.0009889**
Stddev	.000301	.011857	.0001773	.0002156	.012194	.0003833	.0002113
%RSD	8.342115	103.8173	27.01567	21.27922	33.17027	28.53690	21.36107
#1	-.003804	.001904	.0004572	.0008274	-.034232	.0009842	.0009141
#2	-.003262	-.015360	.0007970	.0009624	-.026032	.0012982	.0008253
#3	-.003760	-.020807	.0007149	.0012495	-.050023	.0017468	.0012274

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0187843**	**-.000646**	**.0009446**	**.0006134**	**.0010162**	**-.006928**	**.0011118**
Stddev	.0281385	.000372	.0002506	.0009174	.0007199	.002911	.0010364
%RSD	149.7980	57.56264	26.53070	149.5675	70.84511	42.01695	93.21696
#1	.0036787	-.000294	.0006642	-.000063	.0004836	-.008977	.0007642
#2	.0014244	-.000609	.0010229	.001658	.0018353	-.003596	.0002939
#3	.0512497	-.001035	.0011467	.000246	.0007298	-.008212	.0022774

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB04 Acquired: 5/7/2025 16:09:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	-.000376	-.000319	.0005802
Stddev	.001535	.000604	.0000280
%RSD	407.8589	189.7324	4.824224
#1	-.001506	.000330	.0005568
#2	-.000995	-.000419	.0005725
#3	.001371	-.000866	.0006112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.777	73537.08	15293.31	2006.377	4771.073
Stddev	12.640	216.14	34.59	4.636	17.018
%RSD	.4202484	.2939191	.2261726	.2310575	.3566929
#1	3018.172	73303.56	15276.20	2003.551	4781.830
#2	3011.451	73577.56	15270.60	2011.727	4779.937
#3	2993.706	73730.12	15333.12	2003.853	4751.453

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-06 Acquired: 5/7/2025 16:13:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0105598**	**-.000443**	**.0323224**	**-.003026**	**.0003024**	**12.30661**	**.0360465**
Stddev	.0020971	.000206	.0007894	.000723	.0017824	.00172	.0008199
%RSD	19.85892	46.55429	2.442223	23.87371	589.3649	.0139903	2.274583
#1	.0086431	-.000444	.0331633	-.002203	-.000132	12.30726	.0355349
#2	.0127998	-.000236	.0322064	-.003323	.002262	12.30791	.0356124
#3	.0102366	-.000649	.0315974	-.003554	-.001223	12.30465	.0369921

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007548**	**-.000454**	**3.728847**	**.0378956**	**.0084715**	**.0171613**	**21.94521**
Stddev	.0000314	.000121	.005473	.0004710	.0002025	.0004165	.14176
%RSD	4.162538	26.59150	.1467677	1.242842	2.390071	2.427151	.6459777
#1	.0007604	-.000363	3.725142	.0373542	.0086993	.0167473	21.90950
#2	.0007210	-.000590	3.726267	.0381217	.0084029	.0175803	22.10142
#3	.0007831	-.000408	3.735133	.0382109	.0083121	.0171564	21.82472

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1636245**	**3.595825**	**.0189780**	**.0008213**	**32.58664**	**.0356385**	**.0625733**
Stddev	.0007304	.014007	.0002903	.0002148	.23861	.0005534	.0002507
%RSD	.4463657	.3895230	1.529554	26.15778	.7322241	1.552705	.4006402
#1	.1627912	3.580006	.0192450	.0006659	32.64380	.0362415	.0627609
#2	.1639281	3.600821	.0190200	.0007315	32.79148	.0351539	.0626705
#3	.1641540	3.606649	.0186690	.0010665	32.32465	.0355202	.0622886

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.285995**	**-.057361**	**.0070780**	**-.001739**	**.7328854**	**2.497786**	**.8340999**
Stddev	.040609	.001296	.0001051	.000273	.0000982	.029147	.0063857
%RSD	1.776407	2.259411	1.485351	15.70026	.0134052	1.166897	.7655760
#1	2.320687	-.058133	.0071540	-.001627	.7329877	2.489321	.8414489
#2	2.295970	-.055865	.0071221	-.002051	.7328769	2.530227	.8299051
#3	2.241329	-.058086	.0069580	-.001541	.7327917	2.473808	.8309457

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1956-06 Acquired: 5/7/2025 16:13:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2.026544	.0275547	.0103746
Stddev	.002285	.0008803	.0000907
%RSD	.1127432	3.194748	.8740036
#1	2.029031	.0266340	.0103986
#2	2.026062	.0283881	.0102744
#3	2.024539	.0276421	.0104509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3006.683	72236.60	15161.34	1998.248	4634.373
Stddev	6.663	285.99	47.31	9.388	1.335
%RSD	.2216103	.3959135	.3120482	.4698184	.0288051
#1	3009.857	72417.90	15200.26	2004.954	4632.840
#2	2999.026	71906.91	15175.06	1987.519	4635.272
#3	3011.165	72385.00	15108.68	2002.271	4635.009

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-02 Acquired: 5/7/2025 16:18:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0688160	.0132726	5.515090	-.027134	.0042939	139.9232	1.044569
Stddev	.0012348	.0026051	.028912	.001855	.0015792	1.0523	.008011
%RSD	1.794385	19.62774	.5242367	6.835167	36.77743	.7520585	.7669668
#1	.0682144	.0116782	5.495761	-.027539	.0036662	140.0759	1.048059
#2	.0702363	.0118607	5.501182	-.028753	.0060904	138.8029	1.035404
#3	.0679973	.0162789	5.548328	-.025111	.0031251	140.8909	1.050243

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104983	.0003092	14.27772	.2247000	.1845455	1.336936	255.3320
Stddev	.0000548	.0002461	.10555	.0010609	.0013656	.006269	.4283
%RSD	.5218591	79.58333	.7392562	.4721288	.7399746	.4689394	.1677387
#1	.0105605	.0002146	14.28822	.2236056	.1834054	1.332512	254.8383
#2	.0104573	.0001245	14.16732	.2257239	.1841721	1.334185	255.5537
#3	.0104770	.0005886	14.37763	.2247706	.1860589	1.344110	255.6041

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.592299	23.43807	.2223969	.0032540	8.557362	.3417813	2.193457
Stddev	.029125	.24853	.0011129	.0003237	.031336	.0041208	.016512
%RSD	.8107481	1.060387	.5004128	9.948383	.3661903	1.205683	.7527853
#1	3.593631	23.41373	.2217006	.0033819	8.591653	.3403949	2.180172
#2	3.562531	23.20260	.2218097	.0028858	8.530214	.3385326	2.211944
#3	3.620735	23.69788	.2236804	.0034942	8.550219	.3464166	2.188256

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.244177	-.835102	.0073344	.3668476	2.633808	5.059836	8.850665
Stddev	.031500	.002301	.0004954	.0016891	.019891	.006248	.072249
%RSD	.5044651	.2755046	6.755013	.4604221	.7552205	.1234783	.8163113
#1	6.228774	-.834794	.0072197	.3660636	2.635559	5.065080	8.792985
#2	6.280415	-.832971	.0069063	.3656931	2.613100	5.061504	8.827307
#3	6.223343	-.837541	.0078771	.3687862	2.652766	5.052923	8.931704

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1960-02 Acquired: 5/7/2025 16:18:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	1.473580	.2179105	-.159080
Stddev	.006788	.0015500	.001054
%RSD	.4606585	.7112800	.6628103
#1	1.469172	.2168800	-.158177
#2	1.470171	.2171585	-.160239
#3	1.481397	.2196930	-.158824

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3186.668	76695.11	15672.18	2134.918	4337.550
Stddev	8.207	347.28	73.46	12.808	12.500
%RSD	.2575524	.4528076	.4687337	.5999419	.2881918
#1	3191.216	77008.34	15708.71	2148.538	4342.940
#2	3191.593	76321.65	15720.22	2123.116	4346.451
#3	3177.193	76755.32	15587.62	2133.100	4323.259

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1962-01 Acquired: 5/7/2025 16:22:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0306974**	**-.029165**	**.0757997**	**-.033289**	**-.004982**	**157.3681**	**.8333290**
Stddev	.0039569	.000599	.0011757	.003703	.000559	.5454	.0010437
%RSD	12.88993	2.054316	1.550992	11.12445	11.21859	.3465912	.1252413
#1	.0316711	-.028562	.0763214	-.030006	-.005601	157.6898	.8337922
#2	.0340765	-.029174	.0766242	-.037304	-.004515	156.7383	.8321339
#3	.0263445	-.029760	.0744535	-.032558	-.004830	157.6760	.8340609

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0163910**	**.0294539**	**23.93786**	**.2602418**	**.2931229**	**.2792147**	**314.2733**
Stddev	.0001167	.0000881	.03117	.0011494	.0004719	.0003927	1.5475
%RSD	.7122060	.2989860	.1301953	.4416717	.1610030	.1406416	.4924098
#1	.0162621	.0293859	23.97161	.2611119	.2925843	.2792531	312.4984
#2	.0164213	.0294224	23.91016	.2606748	.2933208	.2788043	315.3399
#3	.0164896	.0295534	23.93182	.2589388	.2934638	.2795869	314.9817

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.156119**	**42.54917**	**.3222184**	**.0059957**	**12.02716**	**.5192030**	**.4858870**
Stddev	.003246	.04371	.0002672	.0005543	.02492	.0015056	.0006680
%RSD	.0781113	.1027311	.0829292	9.244886	.2071674	.2899894	.1374758
#1	4.157137	42.59277	.3220013	.0053653	12.04207	.5185697	.4851170
#2	4.158735	42.50534	.3221371	.0062149	12.04101	.5181175	.4862332
#3	4.152486	42.54940	.3225169	.0064069	11.99839	.5209219	.4863108

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.98979**	**-.795930**	**.0019102**	**-.008912**	**10.10171**	**3.746760**	**9.718286**
Stddev	.01134	.005058	.0001557	.001644	.00463	.005788	.037011
%RSD	.0872972	.6355350	8.150095	18.45137	.0458019	.1544679	.3808341
#1	12.99796	-.797274	.0017305	-.010760	10.10702	3.746518	9.690531
#2	12.99457	-.790335	.0019949	-.007609	10.09852	3.752665	9.704022
#3	12.97685	-.800181	.0020051	-.008367	10.09960	3.741098	9.760307

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1962-01 Acquired: 5/7/2025 16:22:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	2.561569	.1948256	-.212111
Stddev	.004958	.0011936	.001534
%RSD	.1935450	.6126461	.7230490
#1	2.556551	.1936465	-.210350
#2	2.566464	.1947972	-.213153
#3	2.561692	.1960332	-.212830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4838.473	117693.9	27080.79	3236.651	4146.301
Stddev	2.505	170.4	75.81	4.503	1.135
%RSD	.0517686	.1447592	.2799414	.1391128	.0273808
#1	4841.184	117515.5	27016.31	3234.319	4146.779
#2	4837.991	117711.4	27164.31	3233.793	4145.004
#3	4836.244	117854.9	27061.76	3241.842	4147.118

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1964-01 Acquired: 5/7/2025 16:26:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0684629	.0094401	.4559301	-.014753	-.002102	153.7935	1.286288
Stddev	.0037518	.0051470	.0178791	.004204	.002029	3.9376	.030396
%RSD	5.480074	54.52306	3.921450	28.49816	96.53007	2.560287	2.363085
#1	.0641308	.0150364	.4460712	-.015781	-.004444	151.4186	1.270461
#2	.0706561	.0083746	.4451508	-.010130	-.000946	158.3386	1.321332
#3	.0706019	.0049092	.4765682	-.018349	-.000914	151.6231	1.267071

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123087	-.000370	7.854359	.1698003	.0991362	.1734160	197.0282
Stddev	.0001346	.001684	.212489	.0006301	.0041031	.0076593	1.9575
%RSD	1.093579	454.9663	2.705362	.3710617	4.138822	4.416700	.9935048
#1	.0122346	-.000815	7.721769	.1695904	.0968404	.1700303	196.1812
#2	.0124641	-.001787	8.099446	.1705085	.0966949	.1680331	199.2665
#3	.0122274	.001492	7.741863	.1693020	.1038733	.1821847	195.6368

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.135646	27.55726	.1923676	.0043935	1.863045	.2646919	.5764350
Stddev	.095462	.68225	.0078177	.0001398	.026336	.0084199	.0007601
%RSD	2.308283	2.475758	4.063958	3.181455	1.413611	3.181012	.1318693
#1	4.076497	27.16518	.1869691	.0045548	1.841528	.2596822	.5771064
#2	4.245775	28.34505	.1888012	.0043080	1.892414	.2744128	.5765889
#3	4.084665	27.16155	.2013326	.0043178	1.855194	.2599806	.5756097

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.289273	-.560159	.0039967	.0264251	1.687515	7.128220	11.85334
Stddev	.055928	.008137	.0005196	.0026628	.040854	.081970	.45320
%RSD	.8892580	1.452595	13.00137	10.07659	2.420958	1.149943	3.823382
#1	6.244121	-.555596	.0042781	.0246418	1.664300	7.101529	11.57014
#2	6.351835	-.569553	.0033971	.0251477	1.734688	7.220210	11.61383
#3	6.271863	-.555327	.0043149	.0294859	1.663559	7.062923	12.37604

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1964-01 Acquired: 5/7/2025 16:26:31 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	3.446302	.2391046	-.122947
Stddev	.121955	.0051933	.000489
%RSD	3.538729	2.171984	.3974663
#1	3.358356	.2361131	-.123173
#2	3.395026	.2451013	-.123282
#3	3.585523	.2360994	-.122386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3484.929	83694.74	17755.15	2317.085	4435.936
Stddev	85.897	550.96	340.09	8.648	142.313
%RSD	2.464804	.6583028	1.915426	.3732102	3.208173
#1	3534.226	83819.50	17957.21	2312.142	4521.783
#2	3534.818	83092.09	17362.51	2312.042	4514.362
#3	3385.745	84172.63	17945.73	2327.070	4271.664

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-01 Acquired: 5/7/2025 16:30:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0290288	.0084294	.1116758	-.037448	-.006235	73.73903	.5155150
Stddev	.0022260	.0047221	.0047759	.001355	.000232	.10841	.0025659
%RSD	7.668187	56.01992	4.276572	3.617735	3.717467	.1470162	.4977341
#1	.0307291	.0134231	.1163279	-.037413	-.006300	73.78050	.5151393
#2	.0265093	.0078288	.1067851	-.036111	-.005977	73.61601	.5131577
#3	.0298481	.0040363	.1119146	-.038820	-.006427	73.82057	.5182481

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212045	.0979150	22.07277	.0072526	.3369587	1.038788	226.7853
Stddev	.0001104	.0002023	.03846	.0000622	.0005630	.001559	1.0638
%RSD	.5205799	.2065593	.1742517	.8571982	.1670722	.1500472	.4690966
#1	.0210777	.0977382	22.05441	.0071809	.3372099	1.037247	225.8751
#2	.0212784	.0978713	22.04693	.0072917	.3363139	1.038754	227.9548
#3	.0212576	.0981355	22.11697	.0072852	.3373524	1.040364	226.5259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.90733	13.63555	.1717612	-.002222	.4352731	.0680214	.9089306
Stddev	.04649	.03421	.0016452	.000084	.0041392	.0003256	.0007982
%RSD	.4261976	.2509136	.9578168	3.763173	.9509440	.4787052	.0878128
#1	10.88106	13.64459	.1711444	-.002313	.4397795	.0679722	.9085924
#2	10.87992	13.66433	.1736256	-.002204	.4316406	.0677232	.9083571
#3	10.96100	13.59772	.1705136	-.002149	.4343992	.0683688	.9098421

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.025627	^ *****	.0044056	.0168363	2.499051	1.690678	8.963379
Stddev	.004445	-----	.0001689	.0017546	.004577	.007807	.034314
%RSD	.1469273	-----	3.833994	10.42176	.1831559	.4617386	.3828265
#1	3.022147	^ -----	.0042241	.0167161	2.499015	1.698714	8.949835
#2	3.024098	^ -----	.0045582	.0151448	2.494492	1.690196	8.937904
#3	3.030635	^ -----	.0044345	.0186479	2.503646	1.683123	9.002399

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-01 Acquired: 5/7/2025 16:30:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.4379661	.1113295	-.068903
Stddev	.0077863	.0005045	.001196
%RSD	1.777822	.4531945	1.735599
#1	.4469315	.1110044	-.068130
#2	.4328983	.1119107	-.070281
#3	.4340684	.1110733	-.068299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9278.056	227617.1	46673.79	6167.134	4150.210
Stddev	5.198	607.0	19.94	7.589	2.537
%RSD	.0560244	.2666624	.0427308	.1230609	.0611409
#1	9283.611	227730.0	46684.19	6175.275	4149.657
#2	9277.248	226961.6	46686.39	6160.254	4152.978
#3	9273.310	228159.7	46650.80	6165.873	4147.994

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-03 Acquired: 5/7/2025 16:35:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0262195	-.010807	.1036903	-.030332	-.005472	68.79098	.3663867
Stddev	.0016790	.001427	.0012025	.001490	.000774	.22337	.0018253
%RSD	6.403671	13.20787	1.159729	4.913399	14.13759	.3247125	.4981840
#1	.0281061	-.009773	.1049079	-.030504	-.005791	68.53477	.3643509
#2	.0248893	-.012435	.1025035	-.028763	-.006035	68.94479	.3678770
#3	.0256630	-.010212	.1036594	-.031729	-.004590	68.89339	.3669323

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176930	.0632267	16.45035	.0123988	.2790541	.7916635	225.3285
Stddev	.0001518	.0005586	.05423	.0003101	.0003756	.0013095	.9494
%RSD	.8582074	.8834572	.3296478	2.501322	.1345996	.1654163	.4213423
#1	.0177877	.0631616	16.39175	.0121105	.2794525	.7904452	225.1302
#2	.0177735	.0627036	16.49877	.0123591	.2790034	.7914969	226.3614
#3	.0175179	.0638150	16.46052	.0127270	.2787064	.7930484	224.4939

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.288189	8.742072	.0974078	.0012825	.5448659	.0705701	.3714789
Stddev	.012707	.017168	.0006139	.0001198	.0035780	.0007162	.0006195
%RSD	.2402952	.1963800	.6302314	9.344039	.6566723	1.014881	.1667565
#1	5.275271	8.726780	.0980830	.0012609	.5423159	.0699010	.3713933
#2	5.300675	8.760642	.0968833	.0014117	.5433257	.0713256	.3721368
#3	5.288622	8.738793	.0972571	.0011750	.5489560	.0704839	.3709067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.085460	^ *****	.0074245	.0063426	4.105591	3.466187	9.935445
Stddev	.017357	-----	.0000514	.0008082	.010855	.024668	.022266
%RSD	.5625510	-----	.6924111	12.74277	.2643952	.7116701	.2241078
#1	3.065480	^ -----	.0074655	.0065379	4.093788	3.438584	9.934852
#2	3.094078	^ -----	.0073668	.0054546	4.115147	3.473903	9.913482
#3	3.096821	^ -----	.0074412	.0070353	4.107838	3.486075	9.958002

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-03 Acquired: 5/7/2025 16:35:09 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	3.052421	.1163319	-.105863
Stddev	.009864	.0001398	.000928
%RSD	.3231452	.1202120	.8767001
#1	3.058266	.1161728	-.106038
#2	3.041032	.1164355	-.106691
#3	3.057964	.1163873	-.104860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7867.639	193766.2	41890.73	5244.690	4304.591
Stddev	9.593	527.7	209.04	8.982	5.725
%RSD	.1219256	.2723445	.4990158	.1712681	.1329978
#1	7864.914	193500.0	41814.48	5237.197	4298.540
#2	7878.300	193424.6	41730.52	5242.227	4309.922
#3	7859.704	194374.0	42127.20	5254.648	4305.310

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-05 Acquired: 5/7/2025 16:39:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**.0277306**	**.0075510**	**.0615702**	**-.029772**	**-.005180**	**98.37520**	**.5742024**
Stddev	.0012009	.0013442	.0012471	.002365	.000632	.54389	.0040787
%RSD	4.330621	17.80191	2.025488	7.942273	12.20085	.5528732	.7103331
#1	.0264966	.0065572	.0624344	-.027179	-.005325	99.00221	.5788888
#2	.0288954	.0070154	.0621356	-.030326	-.005727	98.03080	.5714539
#3	.0277997	.0090805	.0601405	-.031810	-.004488	98.09258	.5722645

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166112**	**.0187382**	**16.71130**	**.0423535**	**.1415341**	**.4835578**	**286.3732**
Stddev	.0000642	.0002034	.08831	.0002988	.0005645	.0013813	.4187
%RSD	.3864921	1.085548	.5284623	.7053660	.3988435	.2856641	.1462208
#1	.0166802	.0185045	16.81144	.0424784	.1412790	.4848342	286.8517
#2	.0165532	.0188750	16.67790	.0425696	.1411421	.4837479	286.0737
#3	.0166001	.0188352	16.64456	.0420126	.1421811	.4820912	286.1941

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.052440**	**15.99616**	**.0935310**	**.0049933**	**1.132202**	**.1480828**	**.5219333**
Stddev	.034832	.08265	.0008489	.0000620	.023010	.0007185	.0010601
%RSD	.5755024	.5166593	.9076112	1.242197	2.032350	.4852256	.2031080
#1	6.092561	16.08212	.0944767	.0049453	1.137115	.1488462	.5209211
#2	6.029931	15.91729	.0928348	.0049712	1.107133	.1474196	.5218432
#3	6.034827	15.98907	.0932815	.0050634	1.152360	.1479826	.5230355

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.121911**	**-.777484**	**.0035126**	**.0007499**	**4.343087**	**3.944304**	**9.512502**
Stddev	.019990	.002941	.0003033	.0020221	.027200	.014994	.040742
%RSD	.3265245	.3783095	8.635573	269.6551	.6262860	.3801375	.4283015
#1	6.143079	-.780035	.0037399	.0015120	4.374494	3.939193	9.489333
#2	6.103358	-.778150	.0036297	-.001543	4.327585	3.961186	9.488628
#3	6.119295	-.774266	.0031681	.002280	4.327182	3.932535	9.559545

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-05 Acquired: 5/7/2025 16:39:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	1.559153	.1626299	-.151732
Stddev	.003839	.0004437	.000447
%RSD	.2462326	.2728096	.2944625
#1	1.562890	.1631358	-.151216
#2	1.555219	.1623072	-.151971
#3	1.559350	.1624467	-.152008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4651.346	114721.2	25821.77	3104.693	4353.124
Stddev	10.068	197.2	161.53	1.887	10.543
%RSD	.2164431	.1719203	.6255422	.0607950	.2421950
#1	4661.691	114500.1	25637.17	3104.177	4365.142
#2	4641.582	114879.1	25891.00	3106.784	4345.434
#3	4650.766	114784.3	25937.14	3103.117	4348.794

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-07 Acquired: 5/7/2025 16:43:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.0315801	.0249058	.0771387	-.049376	-.007187	92.68502	.7421473
Stddev	.0024279	.0023106	.0031356	.000731	.000241	.21017	.0021857
%RSD	7.687990	9.277207	4.064828	1.479572	3.357607	.2267600	.2945160
#1	.0343441	.0234810	.0781248	-.048774	-.006921	92.44637	.7396586
#2	.0306038	.0236646	.0796626	-.050188	-.007249	92.76622	.7430275
#3	.0297923	.0275717	.0736286	-.049165	-.007392	92.84249	.7437556

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201534	.0700228	23.47046	.0104390	.1878214	.9408471	383.2808
Stddev	.0000364	.0008329	.00515	.0001914	.0009855	.0039646	2.9033
%RSD	.1804412	1.189394	.0219519	1.833471	.5246817	.4213900	.7574976
#1	.0201854	.0696476	23.47567	.0106314	.1884948	.9391685	386.6111
#2	.0201139	.0694435	23.46536	.0102486	.1866903	.9379979	381.2819
#3	.0201610	.0709772	23.47033	.0104369	.1882790	.9453749	381.9495

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.43873	10.16701	.0633352	.0036934	.6671762	.1195165	.6778094
Stddev	.00873	.03155	.0017164	.0005257	.0039506	.0010106	.0050507
%RSD	.0762973	.3103499	2.710053	14.23488	.5921393	.8455670	.7451555
#1	11.43015	10.15286	.0614213	.0042997	.6629809	.1188090	.6727115
#2	11.44760	10.20317	.0647381	.0033640	.6677226	.1190666	.6828116
#3	11.43845	10.14501	.0638463	.0034165	.6708252	.1206739	.6779053

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.416507	^ *****	.0068367	.0137206	3.524932	3.071352	7.287227
Stddev	.026619	-----	.0002622	.0002856	.006904	.014917	.040051
%RSD	.7791252	-----	3.834601	2.081702	.1958753	.4856682	.5496122
#1	3.398356	^ -----	.0068992	.0134497	3.516961	3.070977	7.301675
#2	3.404101	^ -----	.0070621	.0140189	3.528757	3.056626	7.241956
#3	3.447064	^ -----	.0065490	.0136931	3.529077	3.086452	7.318049

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: Q1936-07 Acquired: 5/7/2025 16:43:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	.8754000	.1686661	-.215489
Stddev	.0084248	.0012359	.003027
%RSD	.9623916	.7327753	1.404626
#1	.8850220	.1700879	-.218978
#2	.8693483	.1678480	-.213561
#3	.8718298	.1680625	-.213929

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6265.543	153867.8	34231.72	4171.879	4232.859
Stddev	18.946	176.3	121.23	14.876	21.042
%RSD	.3023770	.1145584	.3541527	.3565860	.4971070
#1	6255.711	153990.2	34244.64	4187.419	4226.031
#2	6287.384	153665.7	34104.55	4157.769	4256.467
#3	6253.536	153947.3	34345.98	4170.450	4216.079

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV05 Acquired: 5/7/2025 16:47:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**5.139580**	**5.062520**	**4.800930**	**5.204642**	**5.167419**	**9.816214**	**9.562438**
Stddev	.040778	.020557	.021006	.045548	.037030	.014004	.060774
%RSD	.7934091	.4060562	.4375501	.8751406	.7166036	.1426633	.6355497
#1	5.092588	5.084538	4.824919	5.154827	5.125142	9.803138	9.497592
#2	5.160490	5.043831	4.785827	5.214937	5.183015	9.830991	9.571629
#3	5.165661	5.059193	4.792043	5.244161	5.194100	9.814513	9.618094

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2328290**	**2.364233**	**23.47288**	**.9652673**	**2.385288**	**1.275292**	**4.958418**
Stddev	.0016594	.015508	.05519	.0025864	.012903	.006526	.021873
%RSD	.7127272	.6559274	.2351074	.2679506	.5409606	.5117403	.4411276
#1	.2347435	2.382133	23.53639	.9674533	2.400188	1.268037	4.935951
#2	.2318032	2.355719	23.44566	.9659368	2.377792	1.277154	4.979644
#3	.2319402	2.354849	23.43659	.9624120	2.377885	1.280685	4.959659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.330272**	**22.76885**	**2.410223**	**1.223892**	**24.88836**	**2.401172**	**2.477385**
Stddev	.003509	.01456	.012492	.001354	.23910	.000449	.004702
%RSD	.1506041	.0639380	.5182832	.1106004	.9606720	.0186939	.1898136
#1	2.327644	22.77674	2.424571	1.224061	24.64179	2.401544	2.478524
#2	2.334257	22.75205	2.401760	1.225152	25.11921	2.401298	2.481412
#3	2.328915	22.77776	2.404340	1.222461	24.90408	2.400674	2.472217

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.03338**	**4.715879**	**5.094926**	**4.763144**	**4.827141**	**4.972723**	**4.822608**
Stddev	.21447	.018880	.017834	.029545	.010490	.042970	.028356
%RSD	.8567286	.4003552	.3500354	.6202746	.2173163	.8641095	.5879771
#1	24.79984	4.734530	5.076102	4.797242	4.817786	4.923274	4.851076
#2	25.22150	4.696777	5.097108	4.745157	4.838482	4.993908	4.822380
#3	25.07880	4.716330	5.111569	4.747033	4.825155	5.000986	4.794366

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCV05 Acquired: 5/7/2025 16:47:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**4.920723**	**4.966922**	**4.789198**
Stddev	.018700	.028744	.092558
%RSD	.3800292	.5787144	1.932643
#1	4.940611	4.936724	4.782735
#2	4.903496	4.993950	4.700041
#3	4.918061	4.970092	4.884819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2873.445**	**73341.13**	**15650.59**	**1923.999**	**4528.648**
Stddev	8.783	121.36	105.60	1.509	12.243
%RSD	.3056575	.1654769	.6747310	.0784421	.2703366
#1	2883.445	73206.21	15529.98	1923.212	4514.522
#2	2869.911	73375.80	15726.43	1923.047	4535.248
#3	2866.980	73441.39	15695.36	1925.740	4536.175

Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB05 Acquired: 5/7/2025 16:52:03 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	**-.000076**	**-.001492**	**.0006699**	**-.002059**	**.0011350**	**.0050681**	**-.019604**
Stddev	.002947	.001230	.0004621	.000651	.0007986	.0037998	.000760
%RSD	3876.848	82.41784	68.98339	31.62333	70.35883	74.97525	3.876905
#1	-.000430	-.001434	.0001459	-.002541	.0020429	.0011849	-.019934
#2	.003032	-.000292	.0008445	-.001318	.0008214	.0052408	-.018735
#3	-.002830	-.002750	.0010192	-.002317	.0005408	.0087786	-.020143

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000074**	**.0001179**	**.0076611**	**-.000170**	**.0001244**	**.0003953**	**.0081765**
Stddev	.000015	.0001139	.0031096	.000168	.0000430	.0005958	.0048186
%RSD	19.76944	96.59501	40.58991	99.10104	34.59639	150.7106	58.93262
#1	-.000088	.0000962	.0061392	.000020	.0001222	-.000147	.0086645
#2	-.000059	.0000164	.0056055	-.000300	.0000825	.001033	.0031325
#3	-.000076	.0002410	.0112386	-.000229	.0001684	.000300	.0127326

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009380**	**-.004703**	**.0001735**	**.0013721**	**-.043714**	**.0020162**	**-.000101**
Stddev	.0001544	.019921	.0002609	.0001428	.021464	.0002181	.000133
%RSD	16.45607	423.6093	150.4154	10.41055	49.10138	10.81688	131.3192
#1	.0007600	.000025	-.000042	.0012875	-.059122	.0022457	-.000252
#2	.0010189	.012429	.000464	.0012918	-.019198	.0019912	-.000045
#3	.0010352	-.026563	.000099	.0015370	-.052822	.0018116	-.000006

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0197378**	**-.002665**	**.0003657**	**.0009277**	**.0005473**	**.0100791**	**.0025891**
Stddev	.0138091	.000306	.0001479	.0009442	.0005556	.0039761	.0023304
%RSD	69.96260	11.49942	40.45894	101.7786	101.5287	39.44900	90.00954
#1	.0064175	-.002693	.0004945	.0014748	.0009058	.0071651	.0014703
#2	.0188073	-.002345	.0003984	-.000163	.0008288	.0084636	.0010290
#3	.0339886	-.002956	.0002041	.001471	-.000093	.0146087	.0052679

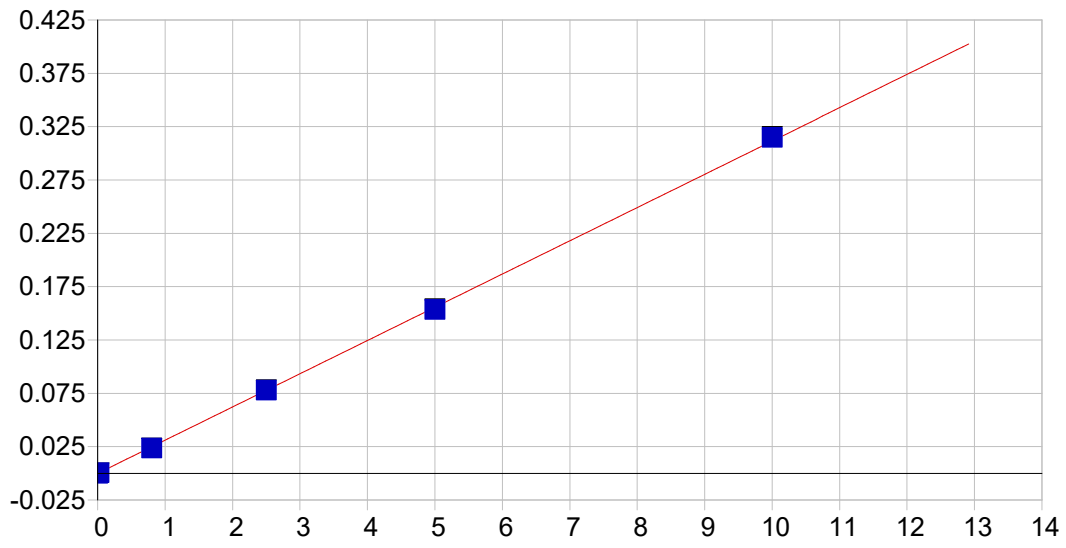
Reviewed By:jaswal
On:5/8/2025 4:11:40 PM
Inst Id :P4
LB :LB135699

Sample Name: CCB05 Acquired: 5/7/2025 16:52:03 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v36) 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	-.005962	-.001232	.0000842
Stddev	.003361	.000208	.0000044
%RSD	56.37325	16.89526	5.262197
#1	-.004269	-.001338	.0000833
#2	-.009833	-.001367	.0000891
#3	-.003785	-.000993	.0000804

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.711	76292.35	16473.07	1991.992	4815.632
Stddev	8.058	176.84	130.95	2.343	7.395
%RSD	.2705966	.2317885	.7949203	.1176315	.1535627
#1	2975.974	76105.14	16331.54	1994.693	4816.387
#2	2970.663	76315.32	16497.74	1990.772	4807.888
#3	2986.495	76456.57	16589.93	1990.511	4822.620

Reviewed By:
On:
Inst Id :P4
LB :LB135724



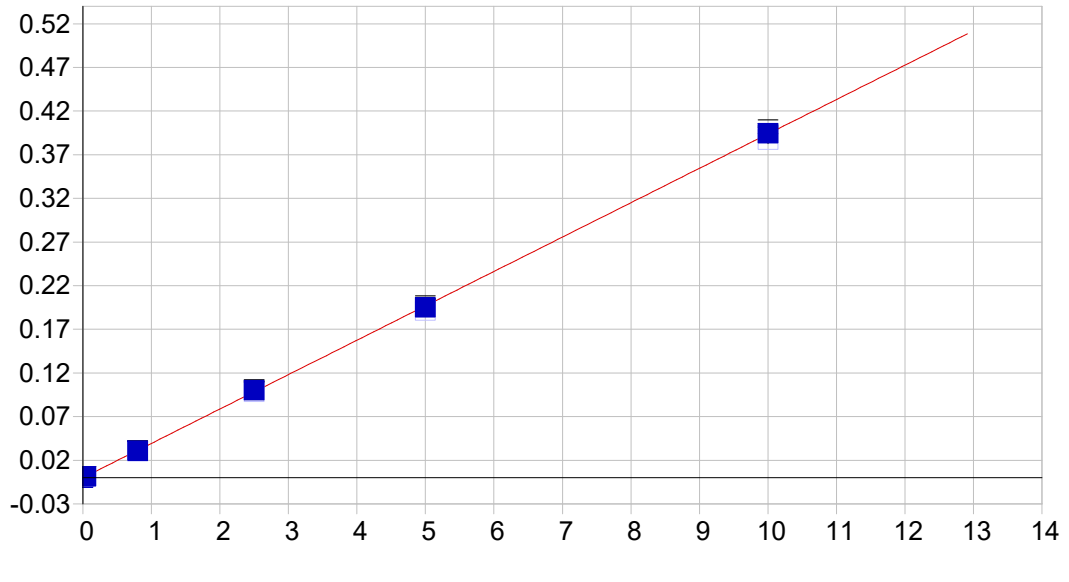
As 189.042 {479}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	0.031168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999880	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.003872		
Predicted MQL:	0.012907		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.02000	.01891	-.001	-5.45	.00048	.000	1
S3	2.5000	2.5070	.007	.280	.07795	.000	1
S4	5.0000	4.9326	-.067	-1.35	.15347	.001	1
S5	10.000	10.105	.105	1.05	.31450	.001	1
S2	.80000	.75693	-.043	-5.38	.02346	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



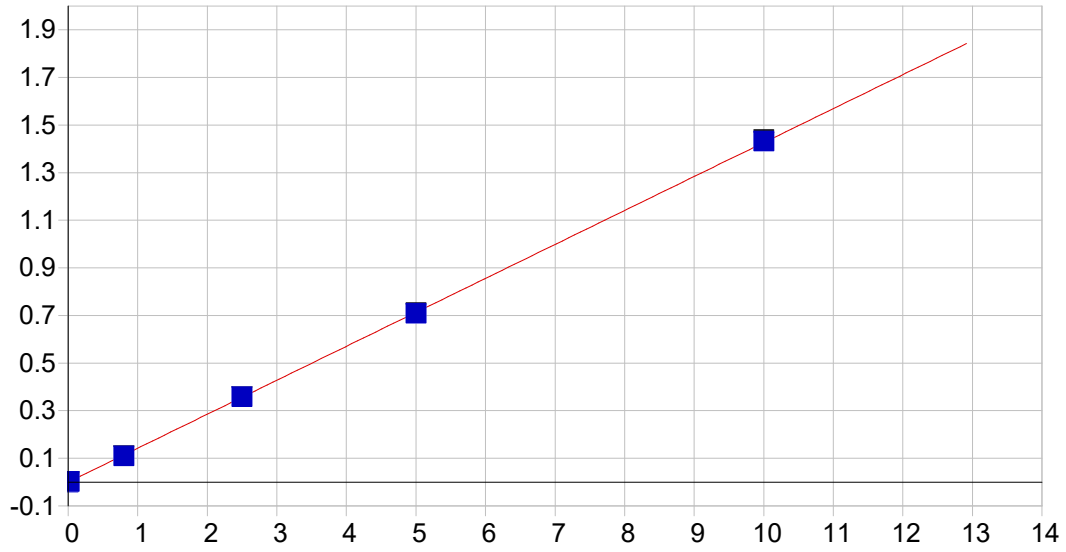
Tl 190.856 {477}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000079	Re-Slope:	1.000000
A1 (Gain):	0.039389	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.002794		
Predicted MQL:	0.009314		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00008	.000	1
S1	.04000	.04151	.002	3.76	.00145	.000	1
S3	2.5000	2.5465	.047	1.86	.09841	.001	1
S4	5.0000	4.9550	-.045	-.901	.19147	.002	1
S5	10.000	10.014	.014	.141	.38711	.004	1
S2	.80000	.78293	-.017	-2.13	.03018	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



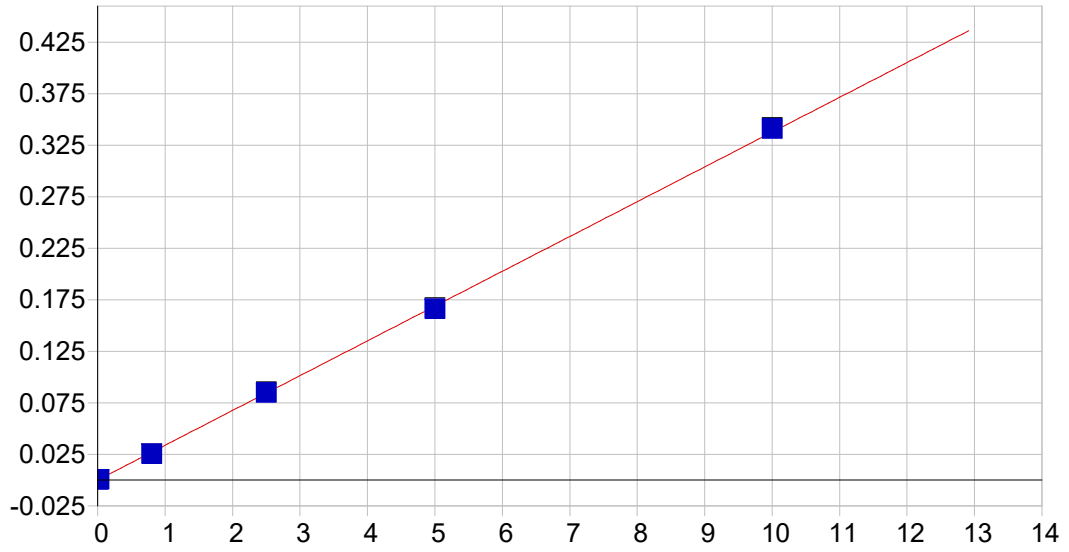
Pb 220.353 {453}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000099	Re-Slope:	1.000000
A1 (Gain):	0.142660	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.001920		
Predicted MQL:	0.006401		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.01200	.01161	-.000	-3.25	.00152	.000	1
S3	2.5000	2.5129	.013	.516	.35802	.001	1
S4	5.0000	4.9697	-.030	-.606	.70814	.002	1
S5	10.000	10.047	.047	.466	1.4317	.005	1
S2	.80000	.77124	-.029	-3.59	.10981	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



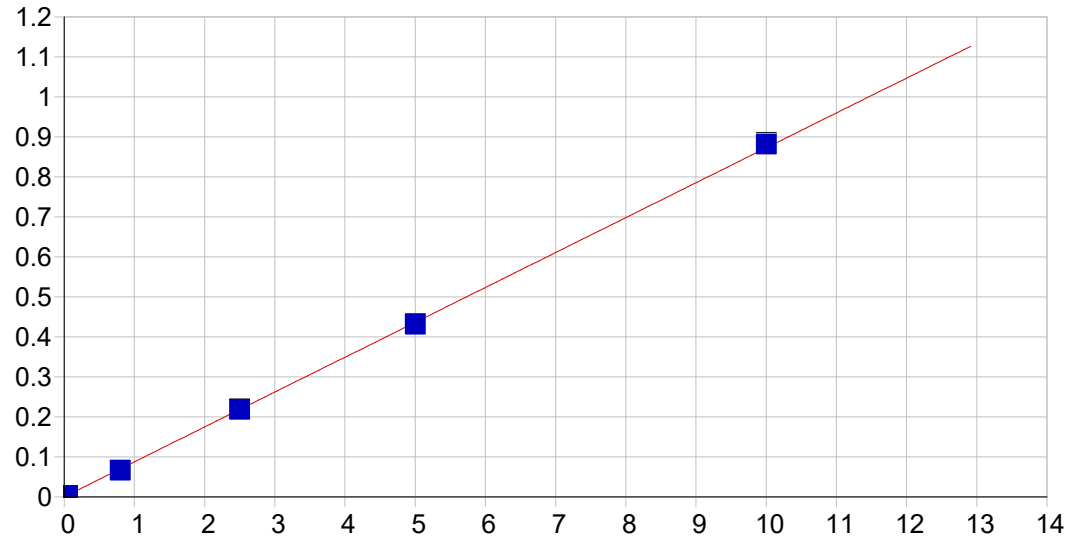
Se 196.090 {472}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000081	Re-Slope:	1.000000
A1 (Gain):	0.033760	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.004621		
Predicted MQL:	0.015402		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.02000	.02472	.005	23.6	.00092	.000	1
S3	2.5000	2.5154	.015	.615	.08497	.000	1
S4	5.0000	4.9264	-.074	-1.47	.16634	.001	1
S5	10.000	10.096	.096	.962	.34081	.001	1
S2	.80000	.75726	-.043	-5.34	.02564	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



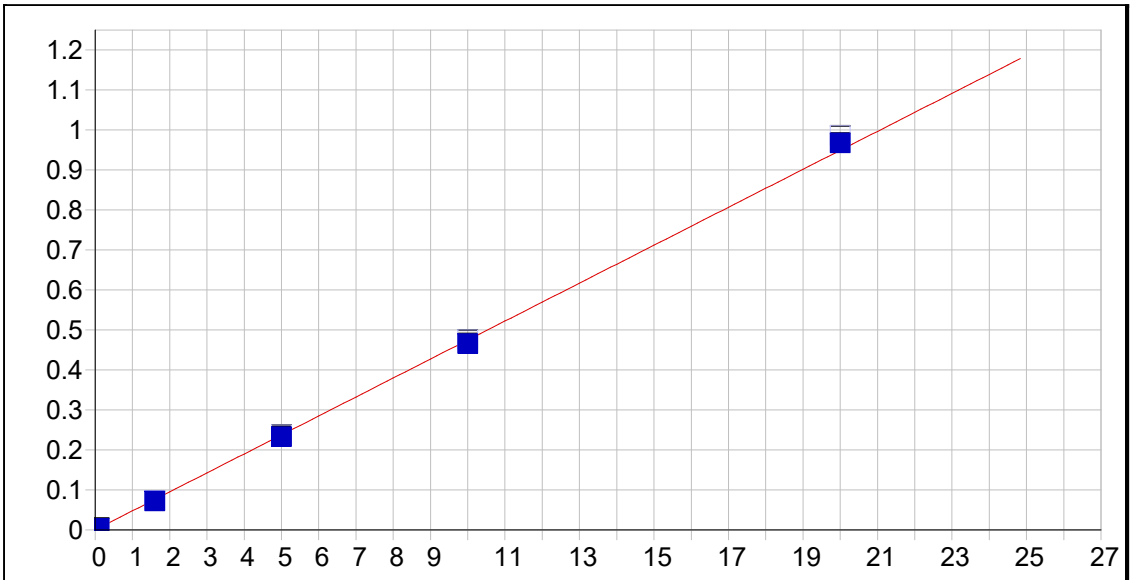
Sb 206.833 {463}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000398	Re-Slope:	1.000000
A1 (Gain):	0.087216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.002551		
Predicted MQL:	0.008502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00040	.000	1
S1	.05000	.04996	-.000	-.072	.00476	.000	1
S3	2.5000	2.5003	.000	.011	.21905	.001	1
S4	5.0000	4.9352	-.065	-1.30	.43201	.001	1
S5	10.000	10.108	.108	1.08	.88432	.002	1
S2	.80000	.75685	-.043	-5.39	.06660	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



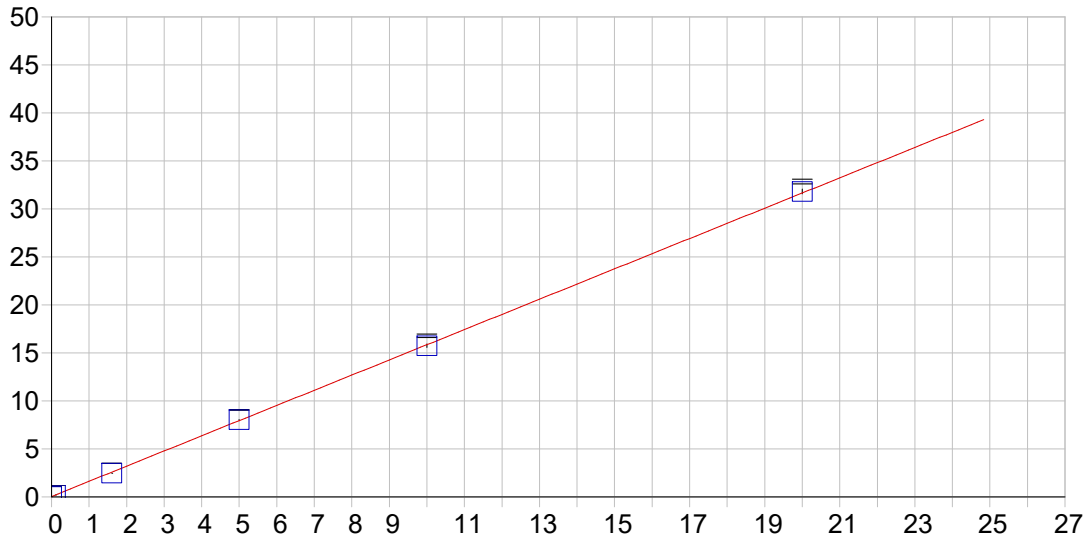
Al 396.152 { 85}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.047450	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.009237		
Predicted MQL:	0.030789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00023	.000	1
S1	.10000	.09651	-.003	-3.49	.00517	.000	1
S3	5.0000	4.9039	-.096	-1.92	.23752	.001	1
S4	10.000	9.8121	-.188	-1.88	.47502	.001	1
S5	20.000	20.377	.377	1.89	.98553	.001	1
S2	1.6000	1.5105	-.089	-5.59	.07337	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



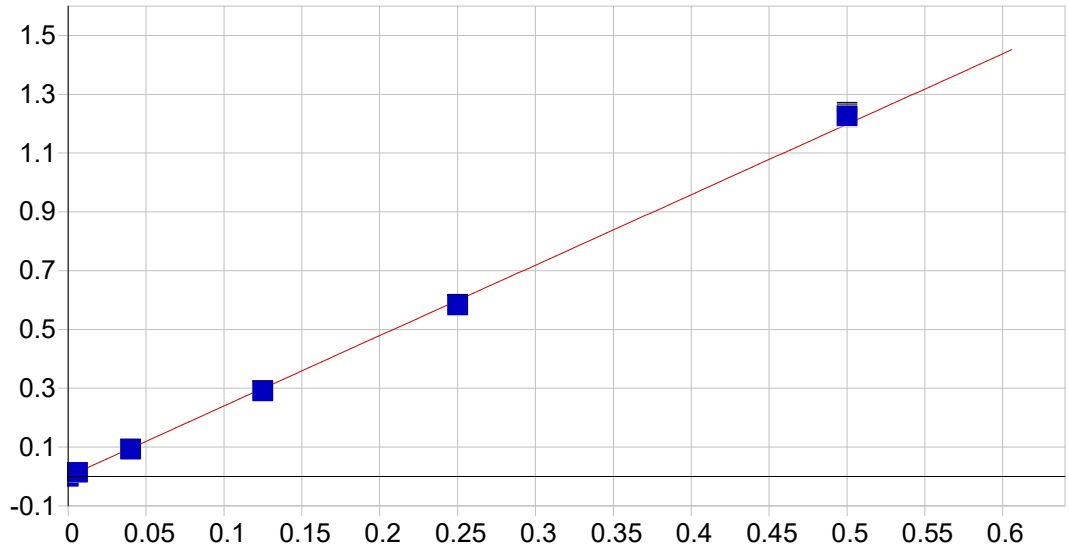
Ba 493.409 { 68}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.044878	Re-Slope:	1.000000
A1 (Gain):	1.580562	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.001414		
Predicted MDL:	0.001168		
Predicted MQL:	0.003892		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.04489	.000	1
S1	.10000	.09336	-.007	-6.64	.19245	.002	1
S3	5.0000	5.0533	.053	1.07	8.0319	.031	1
S4	10.000	9.9281	-.072	-.719	15.737	.183	1
S5	20.000	20.098	.098	.491	31.811	.260	1
S2	1.6000	1.5270	-.073	-4.56	2.4584	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



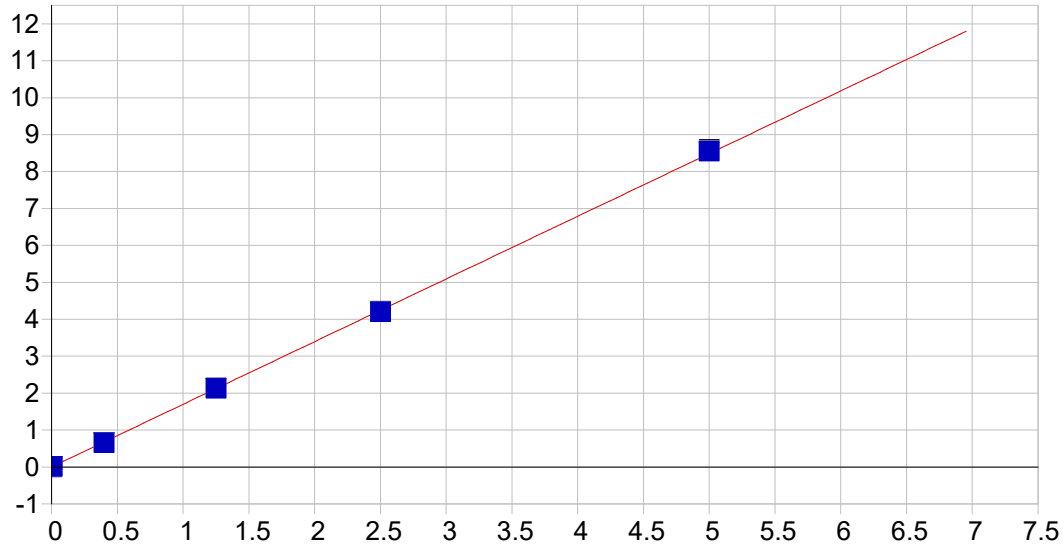
Be 234.861 {144}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	2.395666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999647	Status:	OK.
Std Error of Est:	0.000182		
Predicted MDL:	0.000070		
Predicted MQL:	0.000233		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.00600	.00574	-.000	-4.35	.01372	.000	1
S3	.12500	.12123	-.004	-3.02	.28916	.002	1
S4	.25000	.24337	-.007	-2.65	.58043	.003	1
S5	.50000	.51209	.012	2.42	1.2215	.011	1
S2	.04000	.03857	-.001	-3.57	.09205	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



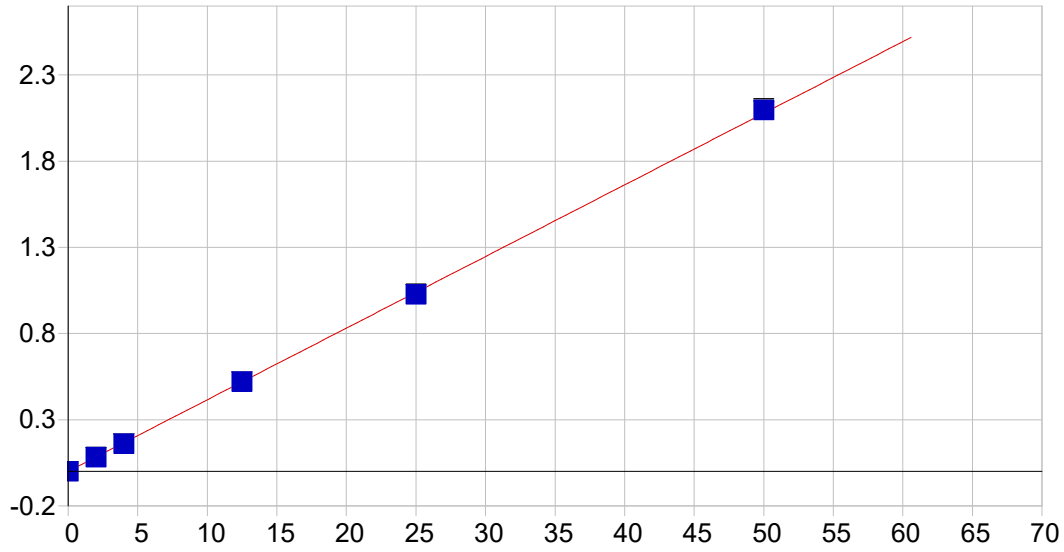
Cd 226.502 {449}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000084	Re-Slope:	1.000000
A1 (Gain):	1.697249	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000168		
Predicted MDL:	0.000111		
Predicted MQL:	0.000370		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00008	.000	1
S1	.00600	.00615	.000	2.45	.01040	.000	1
S3	1.2500	1.2524	.002	.192	2.1274	.006	1
S4	2.5000	2.4741	-.026	-1.04	4.2028	.012	1
S5	5.0000	5.0378	.038	.757	8.5579	.032	1
S2	.40000	.38549	-.015	-3.63	.65479	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



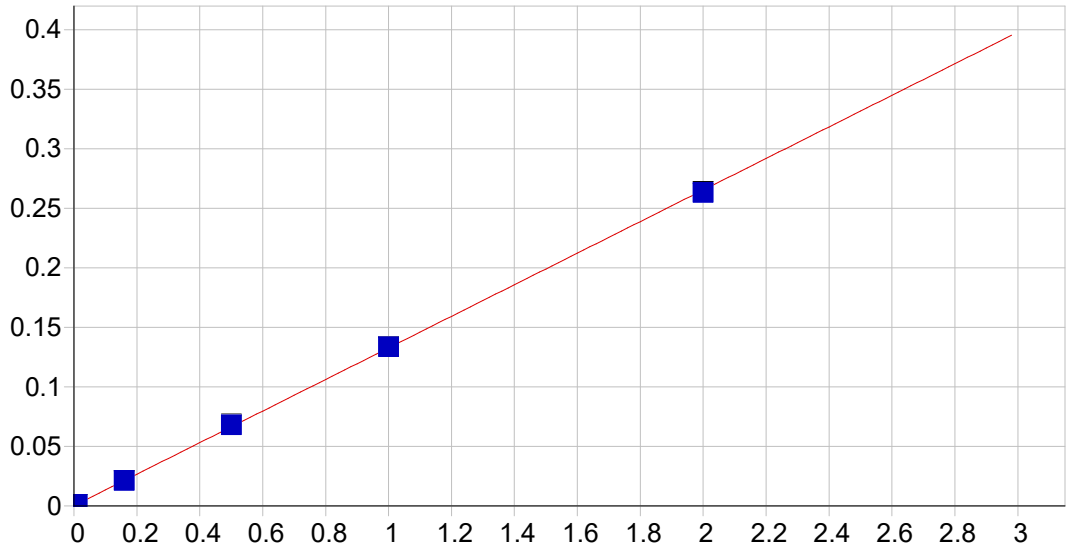
Ca 373.690 { 90}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000411	Re-Slope:	1.000000
A1 (Gain):	0.041553	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999930	Status:	OK.
Std Error of Est:	0.000260		
Predicted MDL:	0.010400		
Predicted MQL:	0.034668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00042	.001	1
S2	4.0000	3.8656	-.134	-3.36	.16104	.000	1
S3	12.500	12.530	.030	.238	.52106	.002	1
S4	25.000	24.715	-.285	-1.14	1.0274	.002	1
S5	50.000	50.441	.441	.882	2.0964	.008	1
S1	2.0000	1.9484	-.052	-2.58	.08137	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



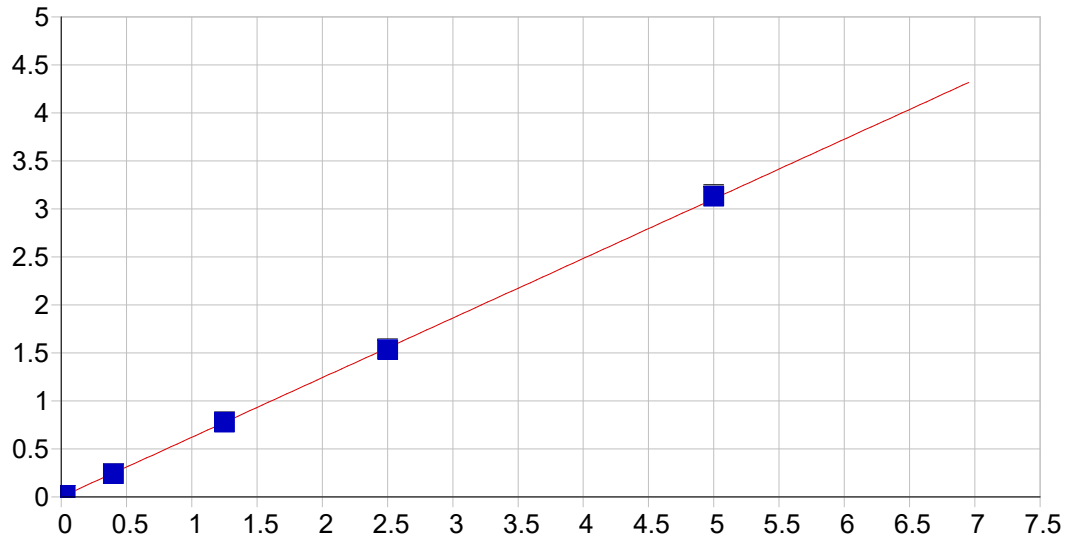
Cr 267.716 {126}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000113	Re-Slope:	1.000000
A1 (Gain):	0.132658	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.000484		
Predicted MQL:	0.001612		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.01000	.00924	-.001	-7.64	.00134	.000	1
S3	.50000	.51285	.013	2.57	.06817	.001	1
S4	1.0000	1.0059	.006	.595	.13360	.000	1
S5	2.0000	1.9831	-.017	-.845	.26327	.001	1
S2	.16000	.15886	-.001	-.714	.02119	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



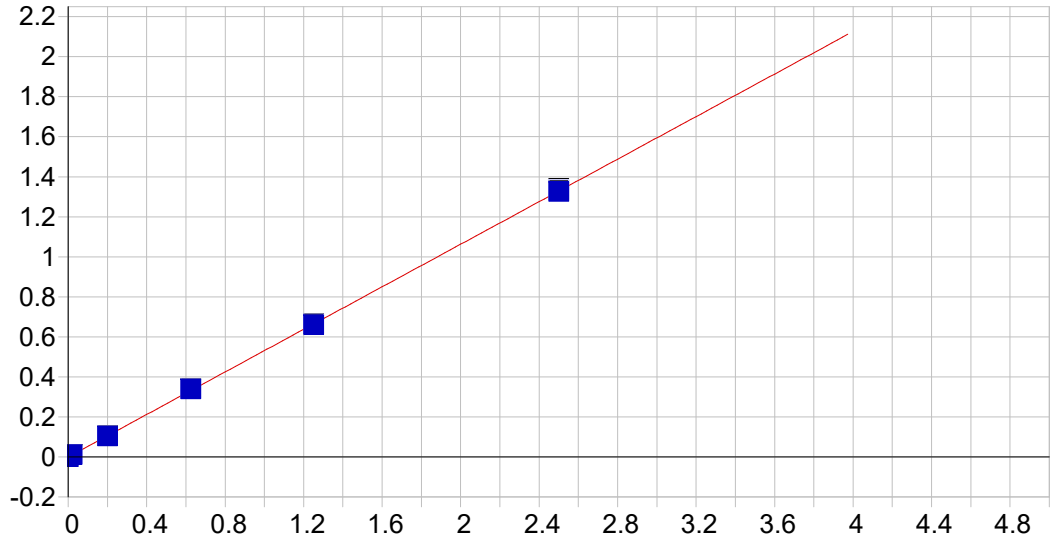
Co 228.616 {448}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.620930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000151		
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	.00013	.000	1
S1	.03000	.02898	-.001	-3.40	.01804	.000	1
S3	1.2500	1.2527	.003	.212	.77925	.001	1
S4	2.5000	2.4702	-.030	-1.19	1.5366	.005	1
S5	5.0000	5.0429	.043	.858	3.1367	.011	1
S2	.40000	.38523	-.015	-3.69	.23975	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



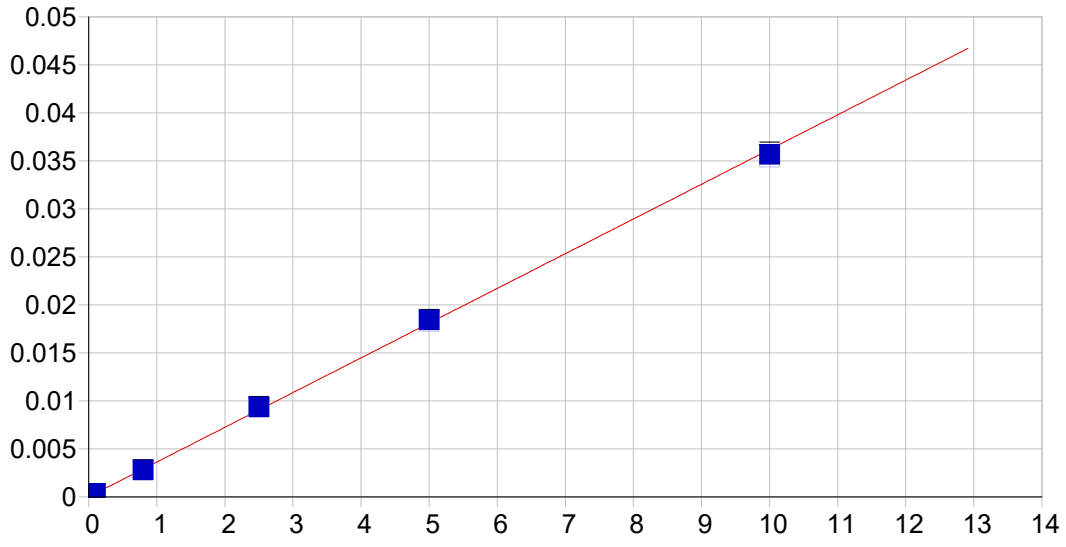
Cu 224.700 {450}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000670	Re-Slope:	1.000000
A1 (Gain):	0.531649	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	0.000502		
Predicted MQL:	0.001675		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00067	.000	1
S1	.02000	.02130	.001	6.48	.01076	.000	1
S3	.62500	.63767	.013	2.03	.34077	.001	1
S4	1.2500	1.2432	-.007	-.548	.66510	.001	1
S5	2.5000	2.4950	-.005	-.200	1.3355	.006	1
S2	.20000	.19788	-.002	-1.06	.10531	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



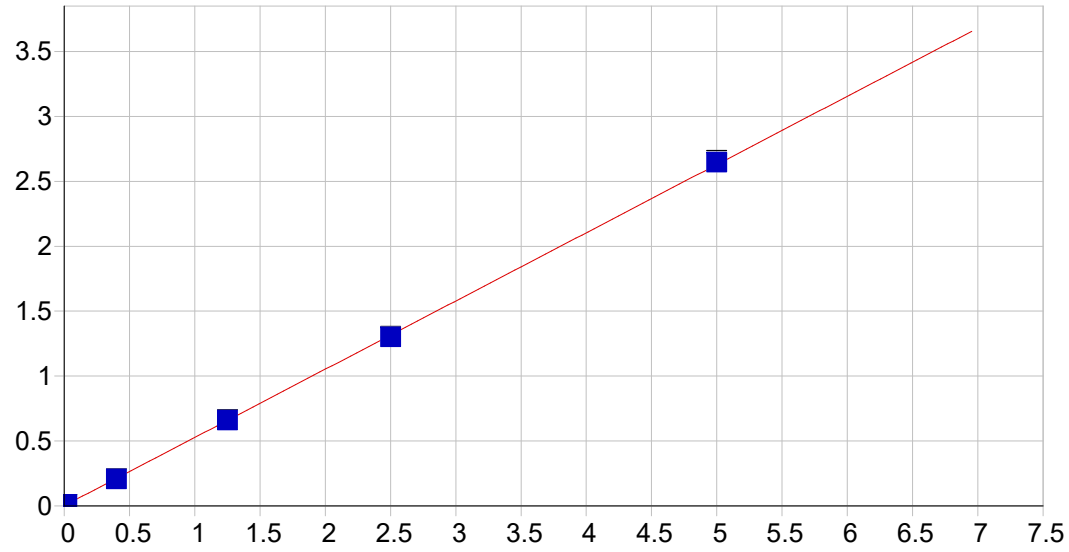
Fe 240.488 {140}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.003617	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999782	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.006063		
Predicted MQL:	0.020209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.10000	.09774	-.002	-2.26	.00036	.000	1
S3	2.5000	2.5863	.086	3.45	.00929	.000	1
S4	5.0000	5.0903	.090	1.81	.01827	.000	1
S5	10.000	9.8562	-.144	-1.44	.03536	.000	1
S2	.80000	.76936	-.031	-3.83	.00277	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



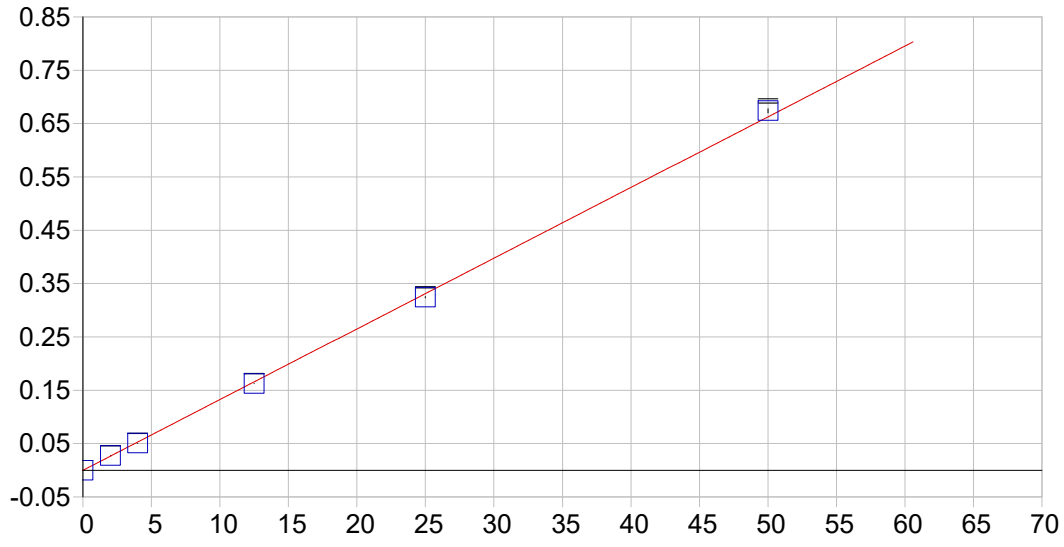
Mn 257.610 {131}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001600	Re-Slope:	1.000000
A1 (Gain):	0.525567	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.000338		
Predicted MQL:	0.001126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00160	.000	1
S1	.02000	.01961	-.000	-1.95	.01191	.000	1
S3	1.2500	1.2551	.005	.412	.66139	.002	1
S4	2.5000	2.4709	-.029	-1.16	1.3005	.005	1
S5	5.0000	5.0349	.035	.698	2.6483	.012	1
S2	.40000	.38941	-.011	-2.65	.20630	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



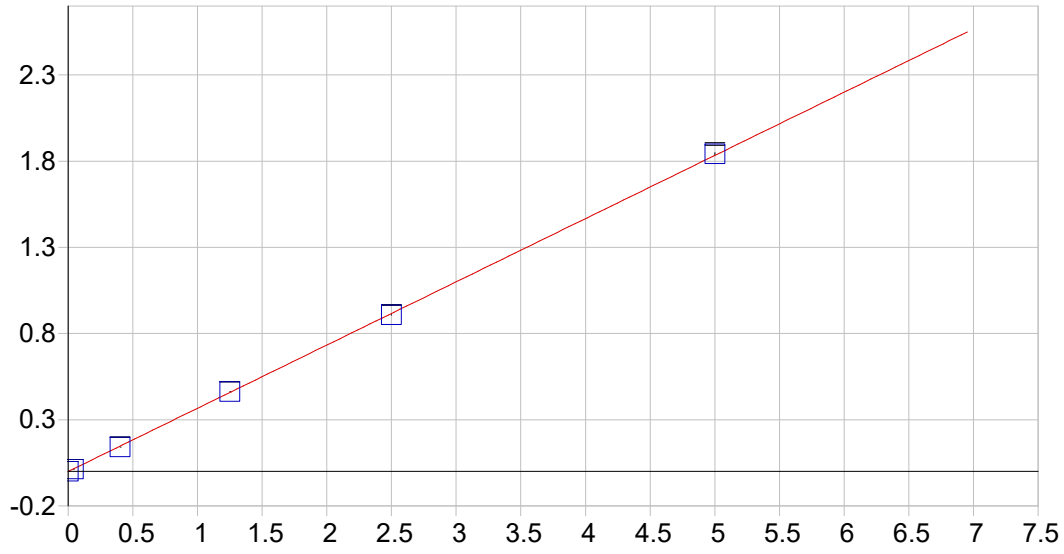
Mg 279.079 {121}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000051	Re-Slope:	1.000000
A1 (Gain):	0.013254	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999789	Status:	OK.
Std Error of Est:	0.000144		
Predicted MDL:	0.014946		
Predicted MQL:	0.049820		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	-.00005	.000	1
S2	4.0000	3.8183	-.182	-4.54	.05056	.000	1
S3	12.500	12.272	-.228	-1.83	.16261	.000	1
S4	25.000	24.489	-.511	-2.04	.32454	.001	1
S5	50.000	50.861	.861	1.72	.67408	.004	1
S1	2.0000	2.0597	.060	2.99	.02725	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



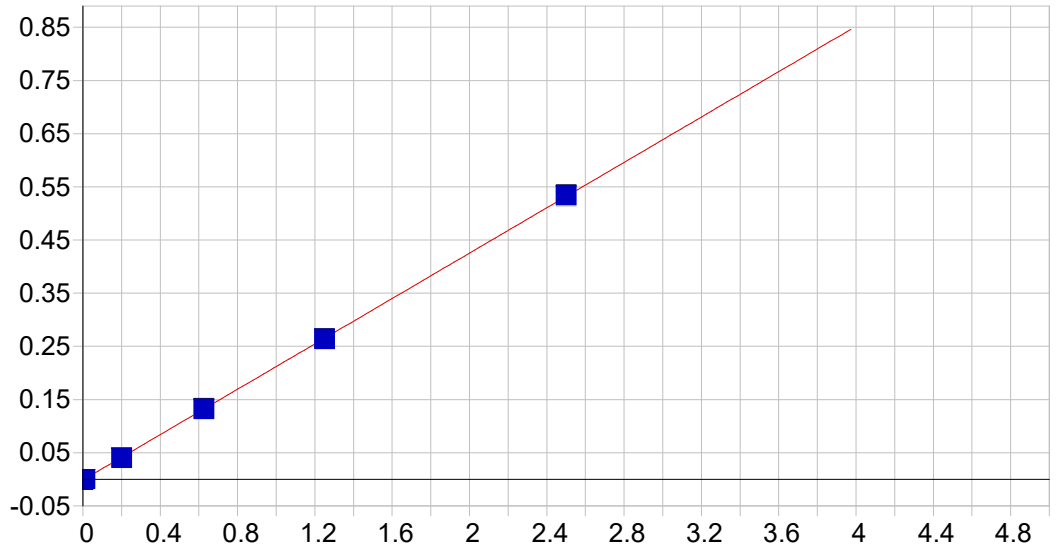
Ni 231.604 {446}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000266	Re-Slope:	1.000000
A1 (Gain):	0.366756	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.000465		
Predicted MQL:	0.001548		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00026	.000	1
S1	.04000	.03878	-.001	-3.05	.01396	.000	1
S3	1.2500	1.2625	.012	.998	.46276	.001	1
S4	2.5000	2.4777	-.022	-.893	.90844	.002	1
S5	5.0000	5.0244	.024	.488	1.8425	.007	1
S2	.40000	.38668	-.013	-3.33	.14155	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



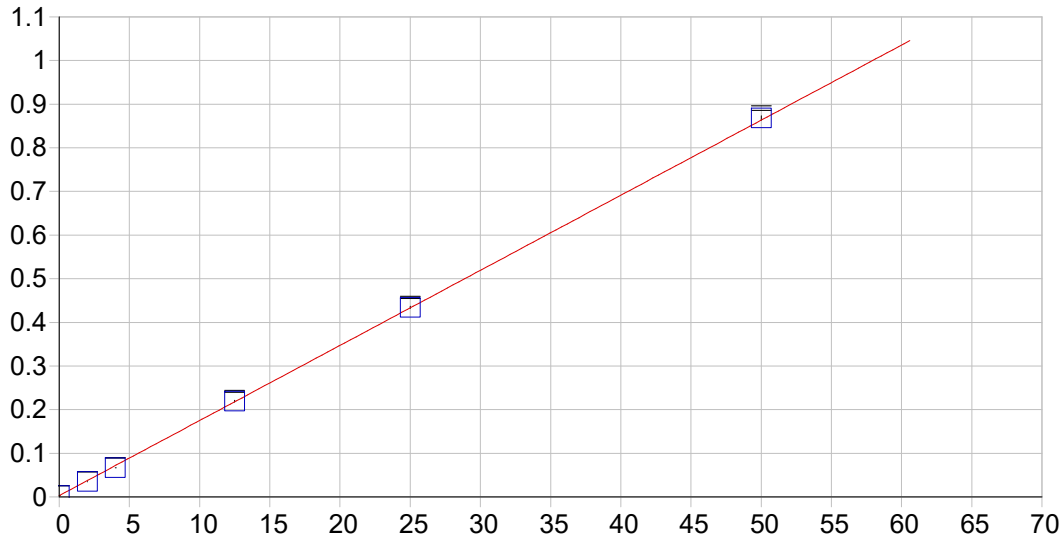
Ag 328.068 {103}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001306	Re-Slope:	1.000000
A1 (Gain):	0.213325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.000431		
Predicted MQL:	0.001435		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00131	.000	1
S1	.01000	.00948	-.001	-5.20	.00070	.000	1
S3	.62500	.62723	.002	.357	.13197	.001	1
S4	1.2500	1.2430	-.007	-.564	.26279	.000	1
S5	2.5000	2.5101	.010	.405	.53205	.001	1
S2	.20000	.19522	-.005	-2.39	.04017	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



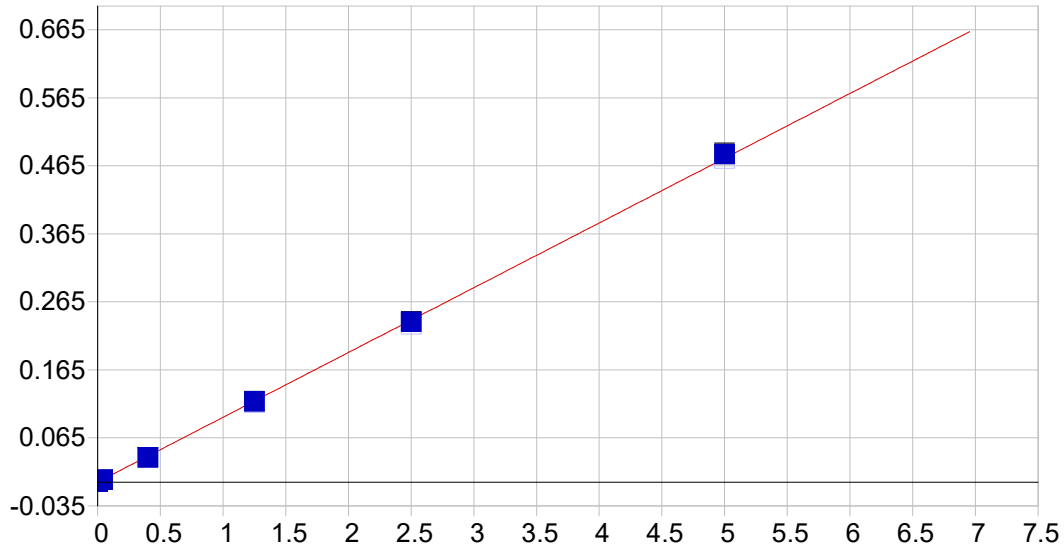
Na 589.592 { 57}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003012	Re-Slope:	1.000000
A1 (Gain):	0.017208	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000179		
Predicted MDL:	0.011673		
Predicted MQL:	0.038910		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00027	.000	.000	.00302	.000	1
S2	4.0000	3.7020	-.298	-7.45	.06671	.000	1
S3	12.500	12.585	.085	.680	.21957	.002	1
S4	25.000	25.063	.063	.250	.43428	.003	1
S5	50.000	50.300	.300	.601	.86856	.005	1
S1	2.0000	1.8501	-.150	-7.49	.03485	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



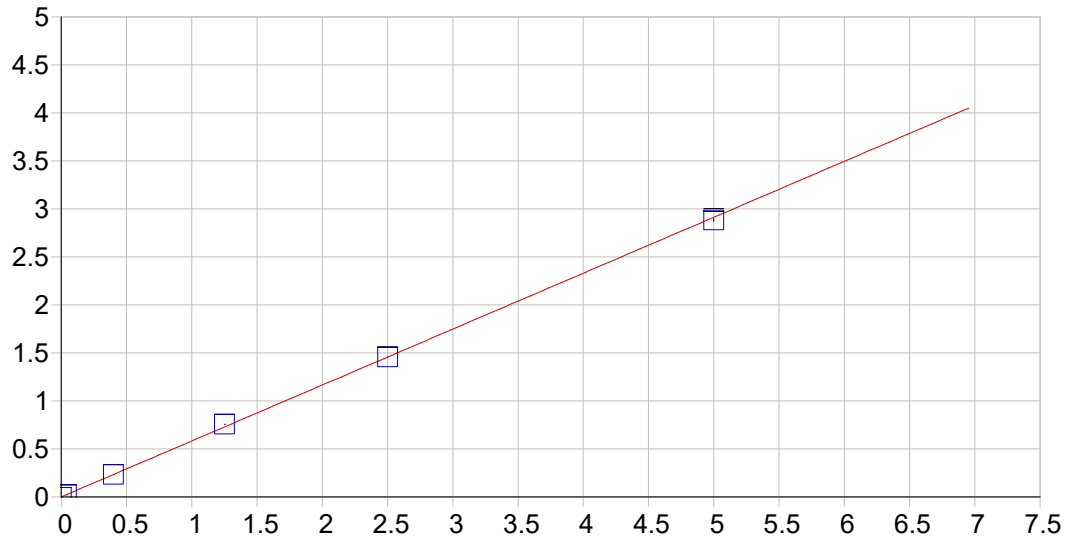
V 292.402 {115}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000100	Re-Slope:	1.000000
A1 (Gain):	0.095238	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999858	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.001942		
Predicted MQL:	0.006472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00010	.000	1
S1	.04000	.03769	-.002	-5.77	.00355	.000	1
S3	1.2500	1.2397	-.010	-.822	.11643	.001	1
S4	2.5000	2.4710	-.029	-1.16	.23196	.001	1
S5	5.0000	5.0632	.063	1.26	.47537	.002	1
S2	.40000	.37828	-.022	-5.43	.03557	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



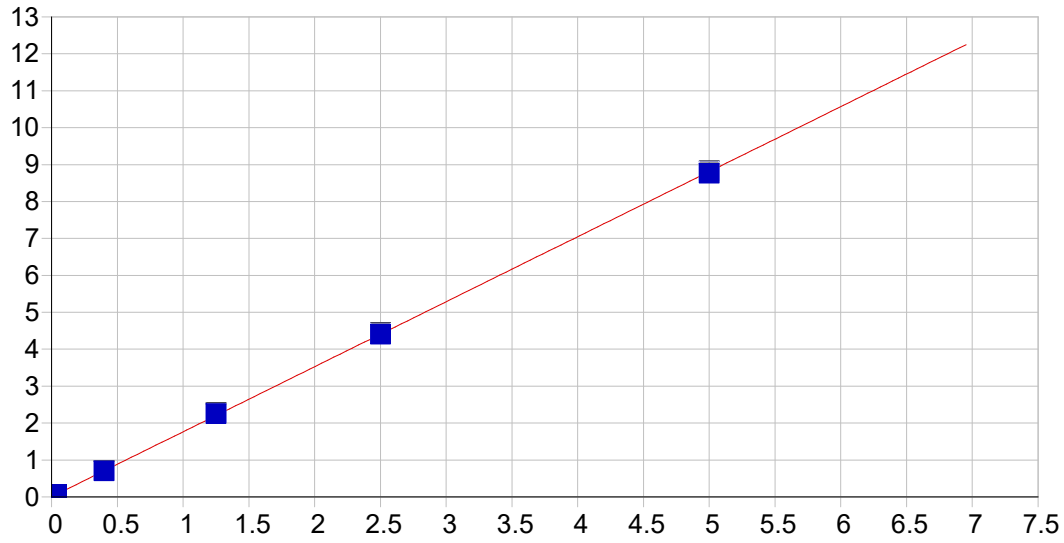
Zn 206.200 {464}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000291	Re-Slope:	1.000000
A1 (Gain):	0.582543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999869	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.000273		
Predicted MQL:	0.000909		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00029	.000	1
S1	.04000	.04135	.001	3.38	.02438	.000	1
S3	1.2500	1.2988	.049	3.90	.75689	.001	1
S4	2.5000	2.4991	-.001	-.036	1.4561	.003	1
S5	5.0000	4.9518	-.048	-.963	2.8849	.014	1
S2	.40000	.39893	-.001	-.268	.23268	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



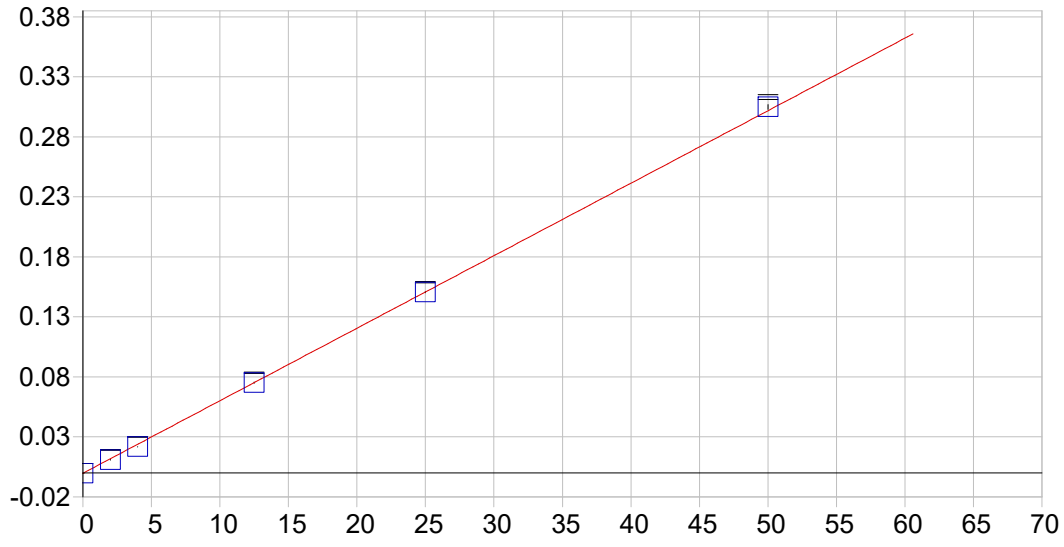
Zn 213.856 {158}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002269	Re-Slope:	1.000000
A1 (Gain):	1.761457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000409		
Predicted MDL:	0.000355		
Predicted MQL:	0.001183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00227	.000	1
S1	.04000	.04053	.001	1.32	.07415	.001	1
S3	1.2500	1.2797	.030	2.37	2.2717	.015	1
S4	2.5000	2.5004	.000	.015	4.4372	.021	1
S5	5.0000	4.9740	-.026	-.520	8.8250	.010	1
S2	.40000	.39544	-.005	-1.14	.70372	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



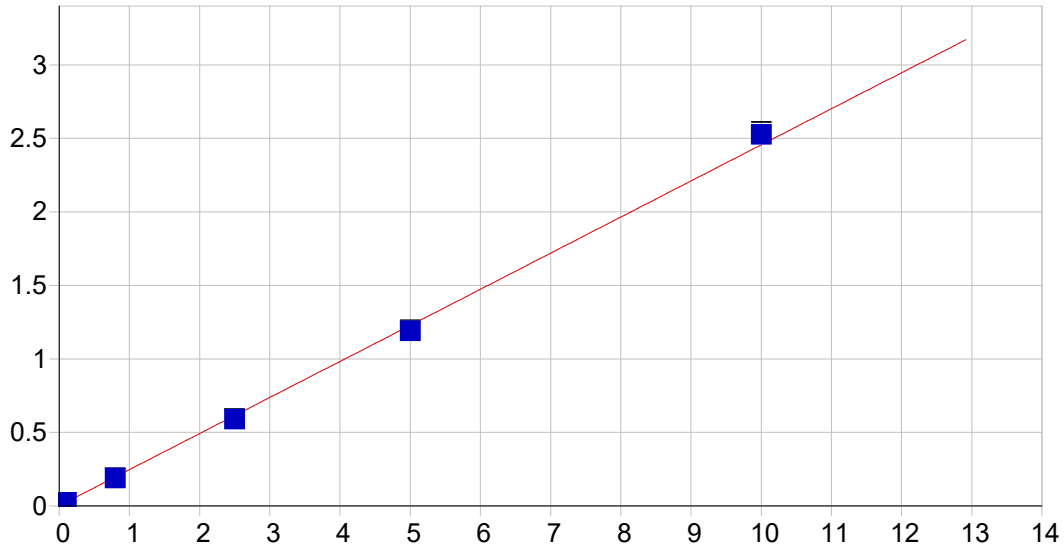
K 766.490 { 44}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000277	Re-Slope:	1.000000
A1 (Gain):	0.006041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999751	Status:	OK.
Std Error of Est:	0.000071		
Predicted MDL:	0.032198		
Predicted MQL:	0.107328		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	-.00028	.000	1
S2	4.0000	3.6446	-.355	-8.89	.02174	.000	1
S3	12.500	12.487	-.013	-.108	.07516	.001	1
S4	25.000	24.985	-.015	-.059	.15067	.001	1
S5	50.000	50.521	.521	1.04	.30494	.002	1
S1	2.0000	1.8627	-.137	-6.86	.01098	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



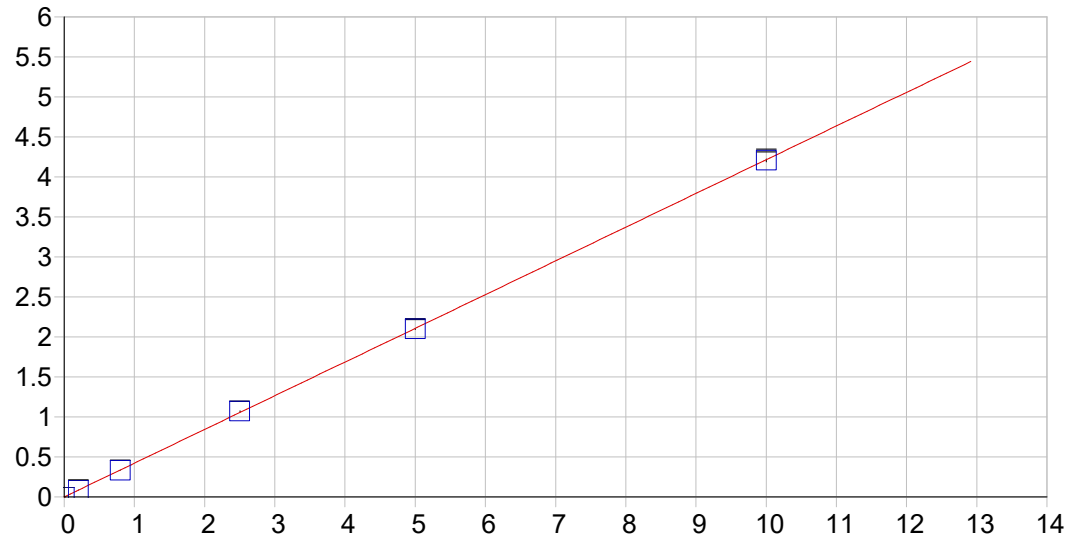
B 249.678 {135}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000981	Re-Slope:	1.000000
A1 (Gain):	0.245467	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999491	Status:	OK.
Std Error of Est:	0.000411		
Predicted MDL:	0.000874		
Predicted MQL:	0.002913		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00098	.000	1
S1	.10000	.10111	.001	1.11	.02570	.000	1
S3	2.5000	2.4006	-.099	-3.98	.58920	.003	1
S4	5.0000	4.8461	-.154	-3.08	1.1884	.007	1
S5	10.000	10.288	.288	2.88	2.5223	.020	1
S2	.80000	.76367	-.036	-4.54	.18810	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



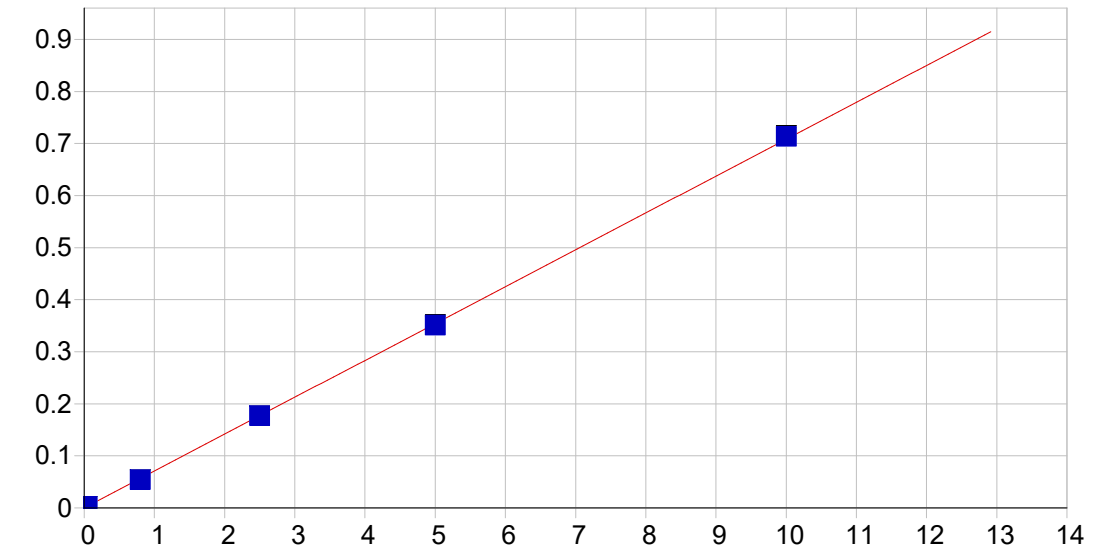
Mo 202.030 {467}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000134	Re-Slope:	1.000000
A1 (Gain):	0.421427	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000235		
Predicted MDL:	0.000387		
Predicted MQL:	0.001290		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.20000	.20355	.004	1.77	.08591	.000	1
S3	2.5000	2.5441	.044	1.76	1.0723	.001	1
S4	5.0000	4.9794	-.021	-.411	2.0986	.005	1
S5	10.000	9.9808	-.019	-.192	4.2063	.017	1
S2	.80000	.79207	-.008	-.991	.33393	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



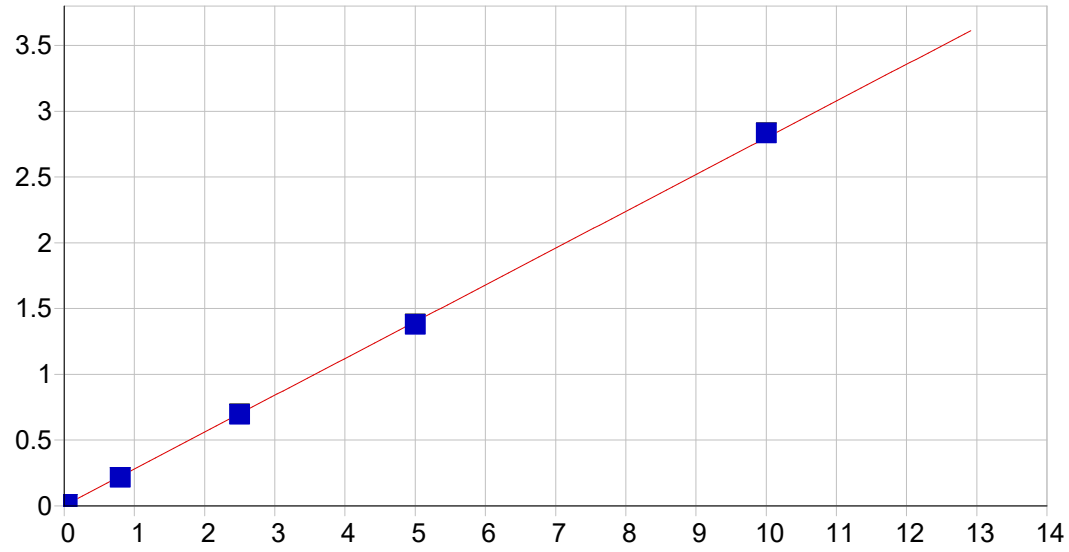
Sn 189.989 {478}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000097	Re-Slope:	1.000000
A1 (Gain):	0.070820	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.001200		
Predicted MQL:	0.004002		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00010	.000	1
S1	.04000	.04063	.001	1.58	.00297	.000	1
S3	2.5000	2.5026	.003	.105	.17715	.000	1
S4	5.0000	4.9559	-.044	-.881	.35071	.001	1
S5	10.000	10.078	.078	.779	.71309	.002	1
S2	.80000	.76292	-.037	-4.63	.05407	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



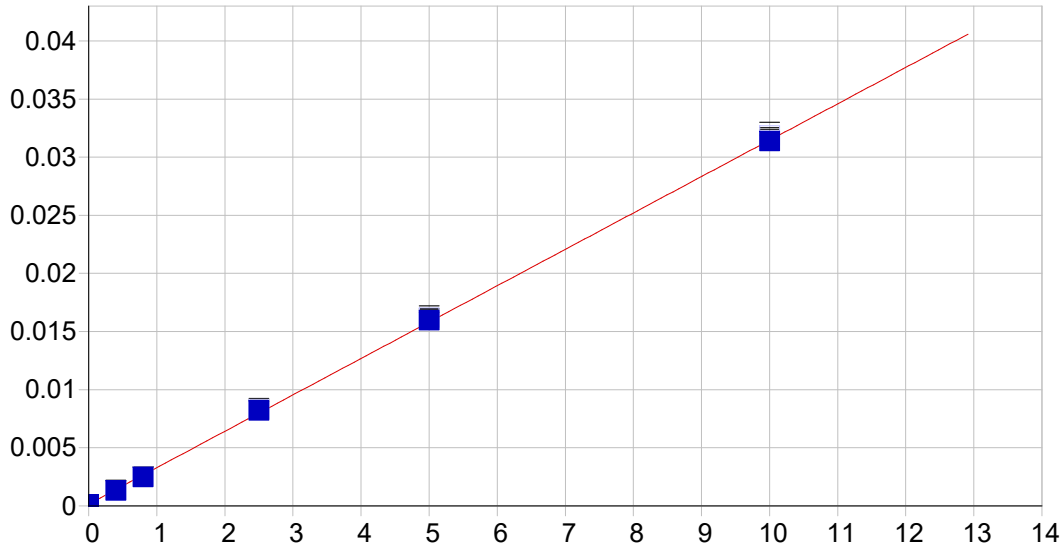
Ti 336.121 {100}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002145	Re-Slope:	1.000000
A1 (Gain):	0.279624	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000147		
Predicted MDL:	0.000956		
Predicted MQL:	0.003188		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00215	.000	1
S1	.04000	.03942	-.001	-1.46	.01316	.000	1
S3	2.5000	2.4809	-.019	-.764	.69561	.002	1
S4	5.0000	4.9269	-.073	-1.46	1.3793	.002	1
S5	10.000	10.130	.130	1.30	2.8337	.001	1
S2	.80000	.76300	-.037	-4.63	.21542	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



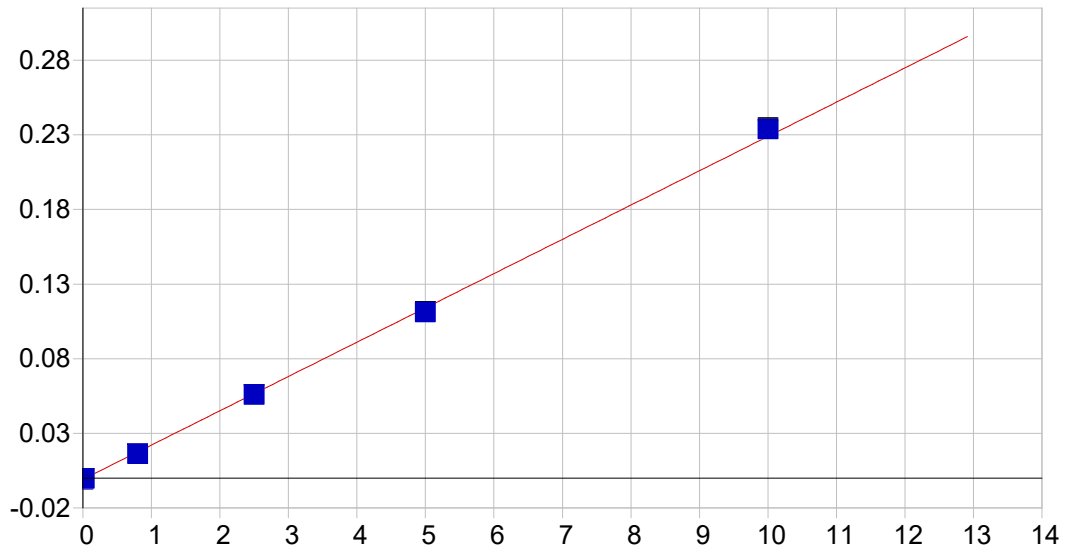
Si 288.158 {117}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.003130	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999774	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.012251		
Predicted MQL:	0.040837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00016	.000	1
S1	.40000	.37400	-.026	-6.50	.00133	.000	1
S3	2.5000	2.5673	.067	2.69	.00831	.000	1
S4	5.0000	5.0481	.048	.963	.01620	.000	1
S5	10.000	9.9711	-.029	-.289	.03184	.000	1
S2	.80000	.73909	-.061	-7.61	.00251	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



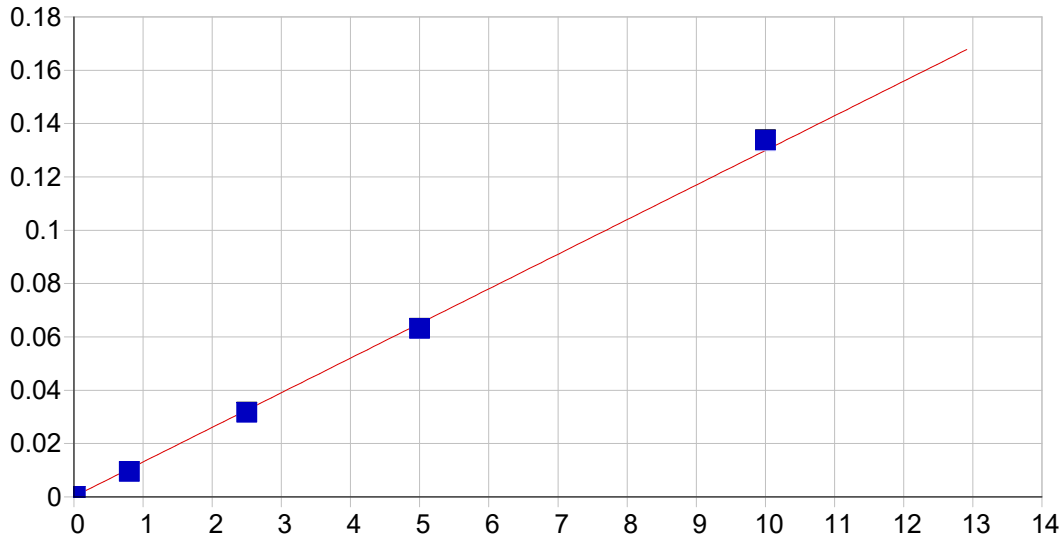
P 177.495 {490}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000846	Re-Slope:	1.000000
A1 (Gain):	0.022977	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999664	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.004012		
Predicted MQL:	0.013374		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00085	.000	1
S1	.02000	.02115	.001	5.75	-.00036	.000	1
S3	2.5000	2.4673	-.033	-1.31	.05584	.000	1
S4	5.0000	4.8744	-.126	-2.51	.11114	.001	1
S5	10.000	10.214	.214	2.14	.23382	.001	1
S2	.80000	.74284	-.057	-7.15	.01622	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



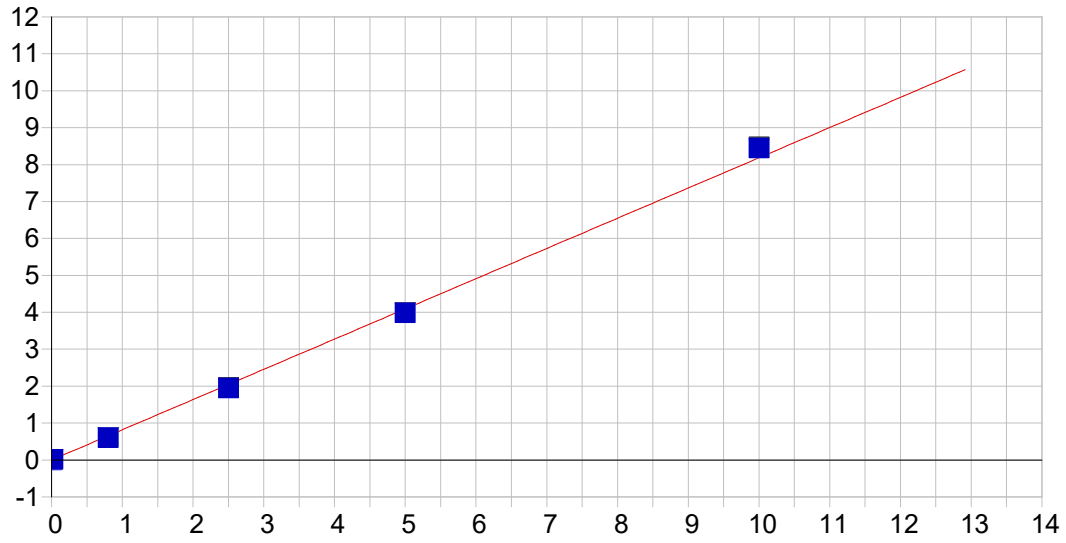
S 182.034 {485}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.012981	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999358	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.005753		
Predicted MQL:	0.019175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00013	.000	1
S1	.02000	.01750	-.002	-12.5	.00034	.000	1
S3	2.5000	2.4312	-.069	-2.75	.03160	.000	1
S4	5.0000	4.8567	-.143	-2.87	.06300	.000	1
S5	10.000	10.296	.296	2.96	.13345	.000	1
S2	.80000	.71831	-.082	-10.2	.00942	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



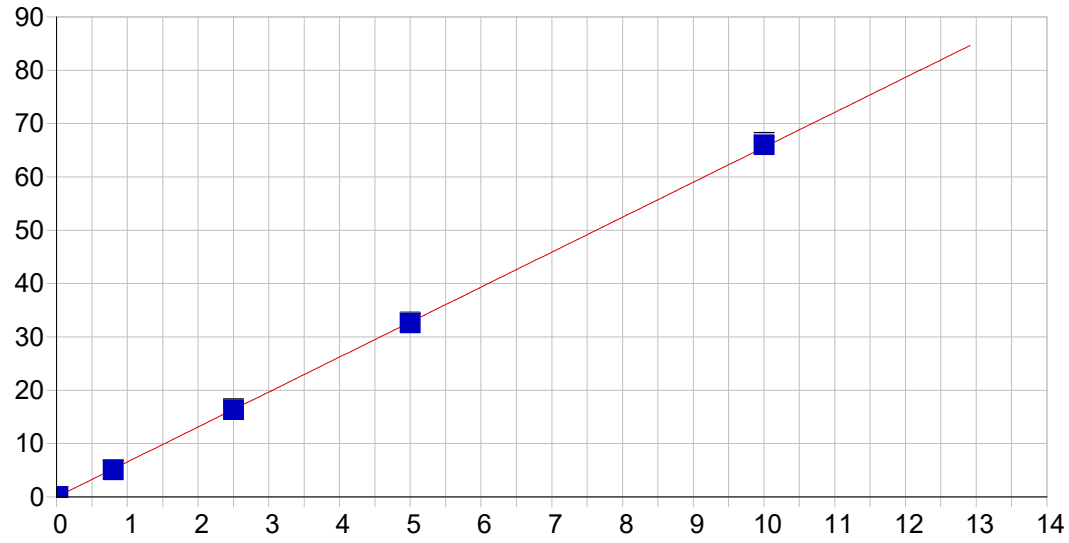
Li 670.784 { 50}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000154	Re-Slope:	1.000000
A1 (Gain):	0.818466	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999322	Status:	OK.
Std Error of Est:	0.000707		
Predicted MDL:	0.001243		
Predicted MQL:	0.004145		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00015	.000	1
S5	10.000	10.319	.319	3.19	8.4496	.023	1
S4	5.0000	4.8672	-.133	-2.66	3.9856	.005	1
S3	2.5000	2.3817	-.118	-4.73	1.9502	.007	1
S1	.02000	.01837	-.002	-8.14	.01514	.000	1
S2	.80000	.73385	-.066	-8.27	.60080	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724



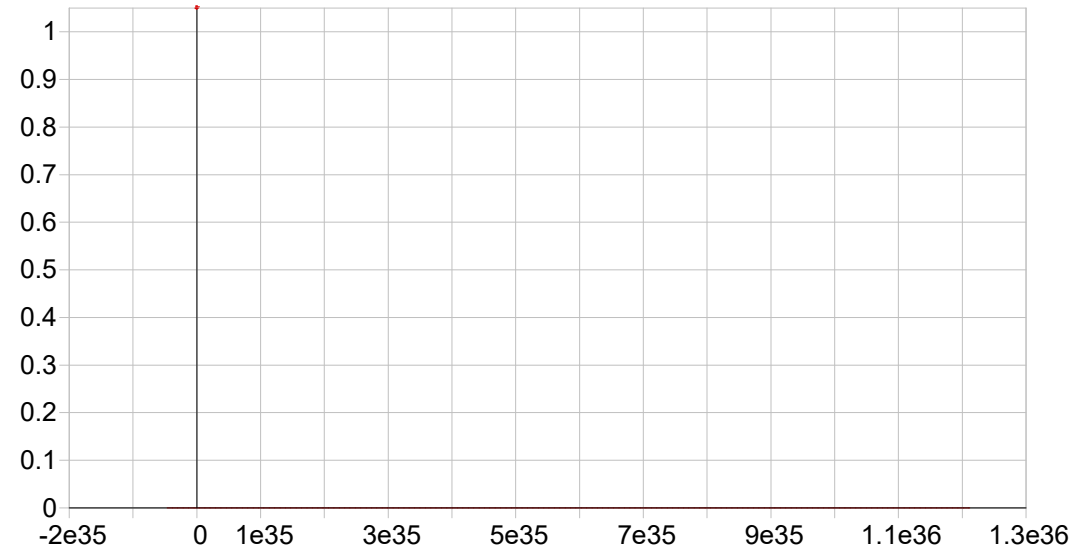
Sr 407.771 { 83}

Date of Fit:	5/9/2025 12:48:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	6.554955	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.001642		
Predicted MDL:	0.000085		
Predicted MQL:	0.000283		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.02000	.01938	-.001	-3.09	.12778	.000	1
S3	2.5000	2.4899	-.010	-.405	16.337	.181	1
S4	5.0000	4.9721	-.028	-.557	32.624	.146	1
S5	10.000	10.072	.072	.716	66.082	.373	1
S2	.80000	.76694	-.033	-4.13	5.0324	.006	1

Reviewed By:
On:
Inst Id :P4
LB :LB135724

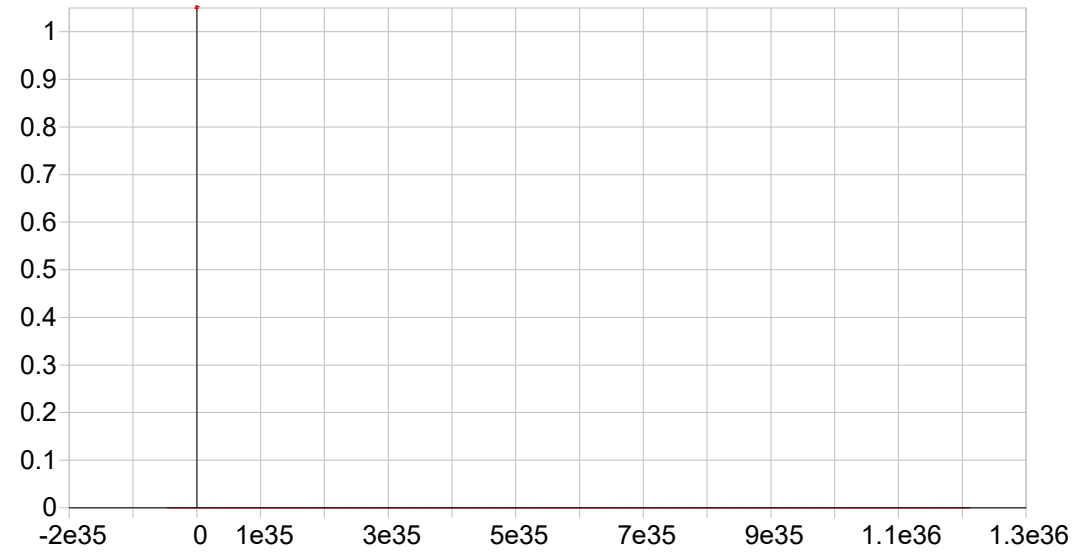


Y 224.306 {450}*

Date of Fit:	5/9/2025 12:09:44	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}*

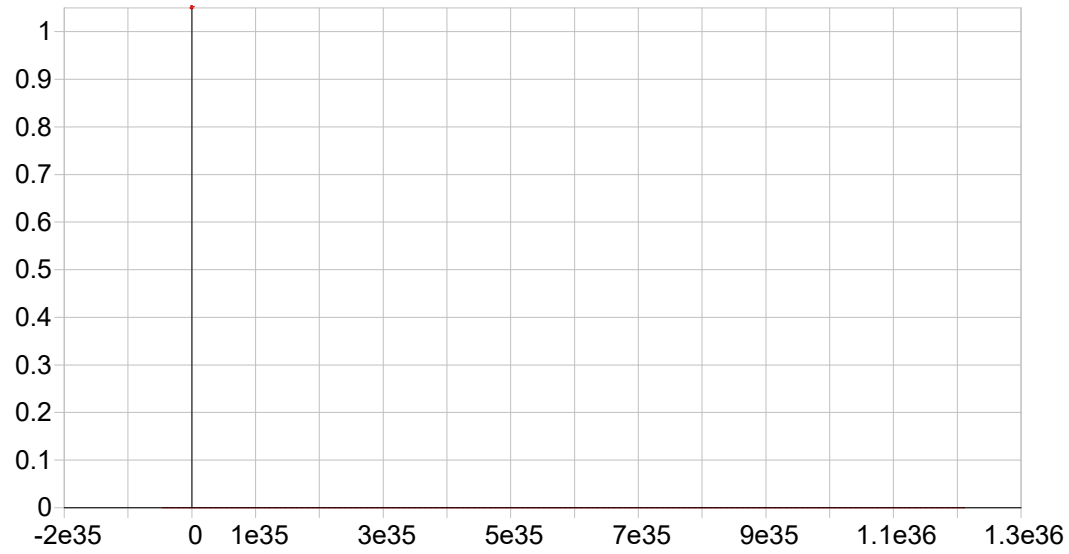
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P4
LB :LB135724

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

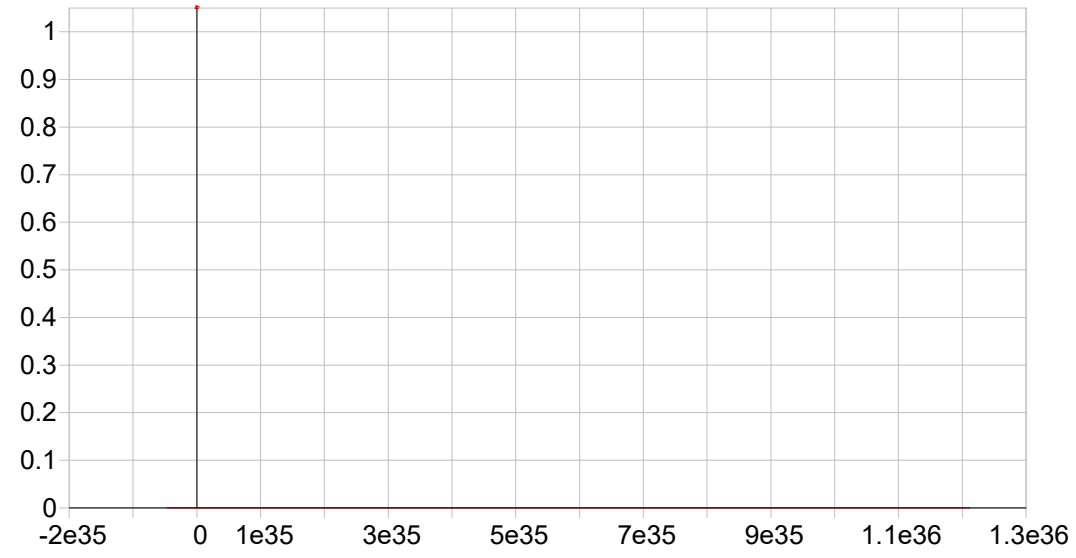


Y 371.030 { 91}*

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:
On:
Inst Id :P4
LB :LB135724

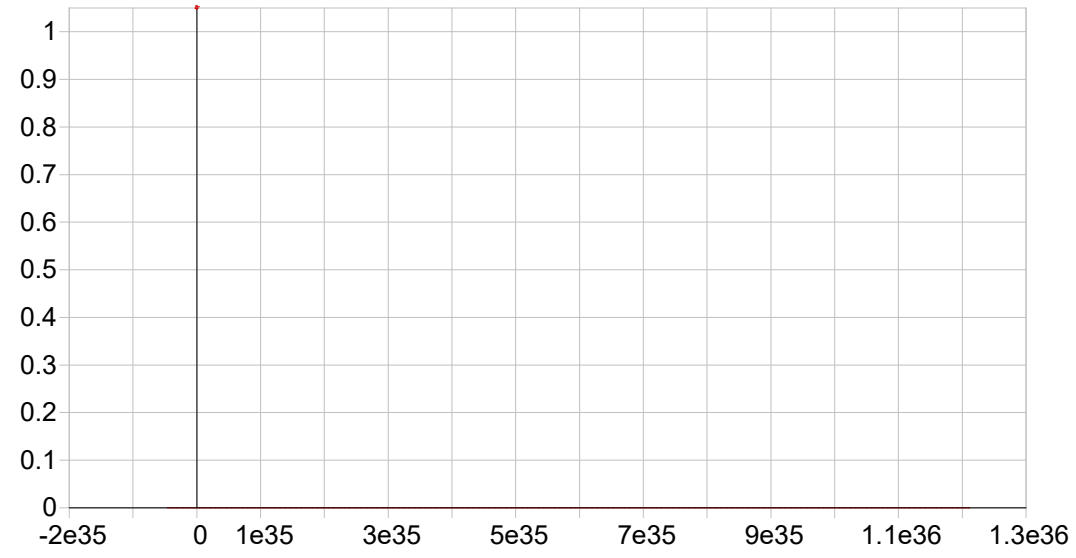


Y 224.306 {150}*

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:
On:
Inst Id :P4
LB :LB135724

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S0 Acquired: 5/9/2025 12:22:56 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.00010	.00008	.00040	.00023	.04489	.00008
Stddev	.00007	.00003	.00012	.00009	.00011	.00015	.00046	.00011
%RSD	69.208	44.201	121.58	109.66	28.389	65.345	1.0316	133.90
#1	-.00018	-.00005	.00003	.00018	.00050	.00035	.04486	.00014
#2	-.00010	-.00007	-.00020	.00006	.00028	.00006	.04537	-.00004
#3	-.00003	-.00012	-.00013	.00000	.00042	.00027	.04445	.00014

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	-.00008	.00042	.00011	.00013	-.00067	.00002	.00160	-.00005
Stddev	.00015	.00050	.00002	.00012	.00025	.00001	.00011	.00009
%RSD	176.51	121.18	19.924	91.334	36.856	46.611	6.5632	171.13
#1	-.00016	-.00013	.00014	.00021	-.00086	.00002	.00167	.00004
#2	-.00018	.00086	.00011	.00017	-.00039	.00002	.00148	-.00012
#3	.00009	.00051	.00009	-.00000	-.00077	.00001	.00165	-.00007

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00026	-.00131	.00302	.00010	.00227	-.00028	.00098	.00013
Stddev	.00004	.00001	.00018	.00020	.00040	.00011	.00017	.00012
%RSD	16.752	1.0259	6.0147	196.02	17.491	38.691	17.065	91.134
#1	-.00029	-.00132	.00289	.00032	.00183	-.00031	.00085	.00002
#2	-.00029	-.00129	.00322	.00005	.00260	-.00036	.00092	.00026
#3	-.00021	-.00130	.00294	-.00007	.00237	-.00016	.00117	.00011

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	.00010	.00215	.00016	-.00085	.00013	-.00015	.00012
Stddev	.00007	.00029	.00001	.00011	.00003	.00032	.00005
%RSD	69.529	13.439	7.9059	12.491	22.021	215.85	47.176
#1	.00003	.00236	.00015	-.00088	.00016	-.00004	.00007
#2	.00011	.00182	.00015	-.00093	.00011	.00010	.00010
#3	.00016	.00227	.00017	-.00073	.00011	-.00052	.00017

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S0 Acquired: 5/9/2025 12:22:56 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3364.5	74123.	15013.	2997.8	4894.6
Stddev	6.7	128.	56.	10.4	6.0
%RSD	.19863	.17333	.36985	.34601	.12246
#1	3356.9	74243.	14961.	2986.1	4887.7
#2	3366.8	74140.	15007.	3001.7	4897.7
#3	3369.7	73988.	15071.	3005.7	4898.4

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S1 Acquired: 5/9/2025 12:27:23 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.00048	.00145	.00152	.00092	.00476	.00517	.19245	.01372
Stddev	.00017	.00009	.00012	.00008	.00013	.00024	.00156	.00022
%RSD	34.615	5.8555	7.8562	8.6108	2.6769	4.7324	.81243	1.5699
#1	.00029	.00142	.00158	.00101	.00473	.00525	.19165	.01378
#2	.00057	.00139	.00161	.00088	.00466	.00490	.19145	.01389
#3	.00060	.00155	.00139	.00086	.00491	.00537	.19425	.01348

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	.01040	.08137	.00134	.01804	.01076	.00036	.01191	.02725
Stddev	.00002	.00022	.00002	.00025	.00020	.00001	.00013	.00013
%RSD	.17362	.26470	1.4424	1.3694	1.8988	3.8499	1.1055	.48187
#1	.01041	.08119	.00132	.01776	.01058	.00035	.01189	.02711
#2	.01038	.08131	.00135	.01816	.01098	.00037	.01179	.02736
#3	.01041	.08161	.00135	.01821	.01071	.00038	.01205	.02728

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	.01396	.00070	.03485	.00355	.07415	.01098	.02570	.08591
Stddev	.00024	.00004	.00019	.00014	.00117	.00018	.00016	.00025
%RSD	1.7180	5.8174	.53862	4.0647	1.5727	1.6541	.64028	.28680
#1	.01372	.00073	.03481	.00364	.07406	.01089	.02588	.08606
#2	.01396	.00066	.03468	.00362	.07303	.01085	.02567	.08563
#3	.01420	.00071	.03505	.00338	.07536	.01118	.02556	.08606

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	.00297	.01316	.00133	-.00036	.00034	.01514	.12778
Stddev	.00008	.00022	.00002	.00007	.00001	.00042	.00049
%RSD	2.5529	1.6565	1.7143	18.419	3.4461	2.7834	.38195
#1	.00302	.01315	.00133	-.00042	.00033	.01528	.12722
#2	.00288	.01338	.00136	-.00029	.00034	.01548	.12808
#3	.00301	.01295	.00131	-.00038	.00036	.01467	.12805

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S1 Acquired: 5/9/2025 12:27:23 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3319.4	74140.	14733.	3010.8	4752.2
Stddev	10.5	210.	39.	6.5	11.7
%RSD	.31598	.28295	.26683	.21491	.24673
#1	3307.4	74352.	14689.	3016.5	4739.9
#2	3326.4	74136.	14763.	3012.3	4763.2
#3	3324.5	73932.	14749.	3003.8	4753.6

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S2 Acquired: 5/9/2025 12:31:47 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.02346	.03018	.10981	.02564	.06660	.07337	2.4584	.09205
Stddev	.00020	.00023	.00059	.00017	.00013	.00037	.0034	.00028
%RSD	.86939	.76544	.54087	.65715	.19996	.50191	.13608	.30361
#1	.02326	.02995	.10930	.02559	.06650	.07322	2.4618	.09222
#2	.02346	.03019	.11046	.02549	.06675	.07311	2.4551	.09220
#3	.02367	.03041	.10967	.02582	.06654	.07379	2.4583	.09173

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	.65479	.16104	.02119	.23975	.10531	.00277	.20630	.05056
Stddev	.00093	.00033	.00008	.00018	.00044	.00003	.00011	.00017
%RSD	.14178	.20607	.38305	.07364	.41834	.90164	.05156	.33702
#1	.65379	.16136	.02124	.23974	.10480	.00280	.20642	.05055
#2	.65563	.16070	.02124	.23958	.10553	.00277	.20627	.05073
#3	.65494	.16106	.02110	.23993	.10559	.00275	.20622	.05039

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	.14155	.04017	.06671	.03557	.70372	.02174	.18810	.33393
Stddev	.00020	.00015	.00010	.00016	.00269	.00023	.00076	.00072
%RSD	.13974	.36173	.15673	.44850	.38238	1.0728	.40374	.21707
#1	.14135	.04034	.06680	.03543	.70654	.02164	.18818	.33342
#2	.14175	.04010	.06660	.03554	.70343	.02158	.18882	.33361
#3	.14156	.04007	.06674	.03574	.70119	.02201	.18730	.33476

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	.05407	.21542	.00251	.01622	.00942	.60080	5.0324
Stddev	.00027	.00029	.00003	.00007	.00004	.00147	.0060
%RSD	.49648	.13256	1.1989	.42220	.38743	.24393	.11849
#1	.05376	.21526	.00254	.01628	.00944	.60089	5.0300
#2	.05419	.21524	.00250	.01615	.00938	.59930	5.0392
#3	.05426	.21575	.00249	.01623	.00944	.60222	5.0280

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S2 Acquired: 5/9/2025 12:31:47 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3350.5	74115.	14638.	3014.9	4807.5
Stddev	5.9	306.	60.	19.4	7.7
%RSD	.17515	.41297	.40899	.64431	.16026
#1	3357.0	73768.	14576.	2992.8	4813.6
#2	3349.2	74348.	14643.	3029.2	4798.9
#3	3345.5	74229.	14695.	3022.7	4810.0

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S3 Acquired: 5/9/2025 12:35:54 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.07795	.09841	.35802	.08497	.21905	.23752	8.0319	.28916
Stddev	.00025	.00068	.00122	.00047	.00069	.00058	.0312	.00168
%RSD	.32027	.68773	.34087	.54915	.31530	.24443	.38830	.58249
#1	.07769	.09917	.35943	.08459	.21834	.23784	8.0432	.28764
#2	.07797	.09820	.35745	.08484	.21972	.23787	8.0559	.28885
#3	.07819	.09787	.35720	.08549	.21911	.23685	7.9967	.29097

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	2.1274	.52106	.06817	.77925	.34077	.00929	.66139	.16261
Stddev	.0059	.00177	.00054	.00089	.00095	.00005	.00176	.00046
%RSD	.27756	.33886	.79105	.11440	.28011	.58396	.26572	.28210
#1	2.1340	.52156	.06833	.78006	.34006	.00932	.65949	.16244
#2	2.1226	.52252	.06756	.77829	.34039	.00923	.66296	.16312
#3	2.1257	.51910	.06860	.77940	.34185	.00933	.66173	.16225

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	.46276	.13197	.21957	.11643	2.2717	.07516	.58920	1.0723
Stddev	.00081	.00085	.00220	.00057	.0147	.00059	.00345	.0009
%RSD	.17573	.64750	1.0000	.49133	.64829	.78652	.58472	.08697
#1	.46348	.13242	.22157	.11609	2.2778	.07534	.58538	1.0713
#2	.46188	.13098	.21722	.11709	2.2549	.07450	.59207	1.0724
#3	.46291	.13250	.21992	.11612	2.2823	.07564	.59016	1.0732

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	.17715	.69561	.00831	.05584	.03160	1.9502	16.337
Stddev	.00033	.00222	.00008	.00011	.00006	.0065	.181
%RSD	.18495	.31938	1.0210	.19433	.19508	.33330	1.1082
#1	.17742	.69436	.00834	.05596	.03155	1.9496	16.136
#2	.17679	.69818	.00822	.05580	.03158	1.9570	16.387
#3	.17725	.69430	.00838	.05576	.03167	1.9440	16.487

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S3 Acquired: 5/9/2025 12:35:54 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3252.8	72839.	14993.	2973.1	4592.6
Stddev	5.2	637.	41.	22.3	5.1
%RSD	.16067	.87485	.27483	.74880	.11013
#1	3258.8	72422.	15040.	2955.3	4588.8
#2	3250.7	73572.	14963.	2998.1	4598.4
#3	3249.0	72521.	14975.	2965.9	4590.8

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S4 Acquired: 5/9/2025 12:40:03 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.15347	.19147	.70814	.16634	.43201	.47502	15.737	.58043
Stddev	.00058	.00164	.00236	.00068	.00128	.00126	.183	.00303
%RSD	.37858	.85516	.33263	.40700	.29633	.26503	1.1605	.52256
#1	.15288	.18958	.70585	.16557	.43106	.47634	15.876	.58364
#2	.15404	.19246	.70803	.16683	.43347	.47383	15.530	.58003
#3	.15349	.19236	.71055	.16662	.43151	.47488	15.805	.57762

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	4.2028	1.0274	.13360	1.5366	.66510	.01827	1.3005	.32454
Stddev	.0125	.0017	.00030	.0045	.00125	.00008	.0051	.00110
%RSD	.29723	.16114	.22443	.29337	.18789	.46459	.39421	.33845
#1	4.1903	1.0293	.13334	1.5317	.66415	.01818	1.3064	.32538
#2	4.2029	1.0263	.13353	1.5374	.66463	.01833	1.2968	.32330
#3	4.2153	1.0266	.13393	1.5406	.66651	.01831	1.2983	.32496

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	.90844	.26279	.43428	.23196	4.4372	.15067	1.1884	2.0986
Stddev	.00183	.00019	.00261	.00061	.0211	.00054	.0066	.0049
%RSD	.20145	.07098	.60109	.26381	.47632	.36151	.55595	.23235
#1	.90659	.26296	.43144	.23260	4.4128	.15019	1.1957	2.0930
#2	.90847	.26259	.43480	.23138	4.4486	.15055	1.1868	2.1016
#3	.91025	.26282	.43658	.23190	4.4502	.15126	1.1828	2.1013

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	.35071	1.3793	.01620	.11114	.06300	3.9856	32.624
Stddev	.00124	.0022	.00017	.00060	.00008	.0053	.146
%RSD	.35252	.15642	1.0325	.53970	.13206	.13410	.44771
#1	.34929	1.3813	.01606	.11044	.06293	3.9810	32.775
#2	.35129	1.3770	.01615	.11147	.06298	3.9842	32.614
#3	.35156	1.3796	.01638	.11149	.06310	3.9915	32.483

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S4 Acquired: 5/9/2025 12:40:03 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3211.2	70957.	14407.	2900.3	4473.0
Stddev	1.0	133.	96.	11.4	6.8
%RSD	.03059	.18763	.66975	.39458	.15309
#1	3211.7	70931.	14295.	2911.6	4478.4
#2	3210.1	71101.	14459.	2900.7	4475.4
#3	3211.9	70838.	14466.	2888.7	4465.3

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S5 Acquired: 5/9/2025 12:44:15 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.31450	.38711	1.4317	.34081	.88432	.98553	31.811	1.2215
Stddev	.00109	.00428	.0050	.00104	.00221	.00124	.260	.0113
%RSD	.34500	1.1047	.35110	.30469	.24967	.12622	.81577	.92561
#1	.31401	.38222	1.4326	.33982	.88309	.98643	31.952	1.2323
#2	.31375	.39011	1.4263	.34073	.88300	.98411	31.512	1.2097
#3	.31574	.38901	1.4362	.34189	.88687	.98605	31.970	1.2225

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	8.5579	2.0964	.26327	3.1367	1.3355	.03536	2.6483	.67408
Stddev	.0317	.0076	.00084	.0114	.0055	.00026	.0125	.00387
%RSD	.37043	.36114	.31850	.36389	.41320	.73916	.47180	.57460
#1	8.5631	2.1032	.26371	3.1380	1.3325	.03510	2.6627	.67843
#2	8.5239	2.0882	.26230	3.1247	1.3321	.03534	2.6420	.67099
#3	8.5867	2.0977	.26379	3.1474	1.3419	.03562	2.6402	.67282

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	1.8425	.53205	.86856	.47537	8.8250	.30494	2.5223	4.2063
Stddev	.0072	.00091	.00510	.00177	.0097	.00193	.0205	.0166
%RSD	.39078	.17015	.58692	.37163	.10968	.63322	.81247	.39503
#1	1.8446	.53269	.86267	.47670	8.8307	.30273	2.5420	4.1971
#2	1.8344	.53101	.87134	.47337	8.8138	.30634	2.5011	4.1964
#3	1.8483	.53244	.87166	.47605	8.8305	.30574	2.5236	4.2255

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	.71309	2.8337	.03184	.23382	.13345	8.4496	66.082
Stddev	.00203	.0011	.00031	.00086	.00017	.0230	.373
%RSD	.28420	.03732	.96620	.36866	.12645	.27274	.56461
#1	.71305	2.8337	.03149	.23328	.13326	8.4278	66.513
#2	.71108	2.8326	.03199	.23336	.13349	8.4473	65.869
#3	.71513	2.8347	.03204	.23481	.13359	8.4737	65.865

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: S5 Acquired: 5/9/2025 12:44:15 Type: Cal
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3130.6	70974.	13686.	2835.3	4277.5
Stddev	9.8	94.	100.	6.1	13.5
%RSD	.31338	.13221	.73006	.21457	.31478
#1	3129.8	70898.	13576.	2838.0	4270.6
#2	3140.8	71079.	13772.	2828.4	4293.0
#3	3121.3	70946.	13710.	2839.6	4268.8

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICV01 Acquired: 5/9/2025 12:48:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.9888959	.9955584	.9624031	1.036275	1.014937	2.375036
Stddev	.0037560	.0046746	.0031899	.005449	.005911	.009731
%RSD	.3798190	.4695489	.3314478	.5258348	.5824372	.4097294
#1	.9882910	.9967068	.9629191	1.030049	1.018051	2.370854
#2	.9929176	.9995519	.9589867	1.038597	1.008119	2.368095
#3	.9854790	.9904166	.9653035	1.040178	1.018640	2.386160

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5226044	.4703200	.4928564	9.210081	.4880423	.4833464
Stddev	.0025156	.0010504	.0006112	.048779	.0008023	.0005179
%RSD	.4813571	.2233392	.1240128	.5296265	.1643936	.1071533
#1	.5250436	.4699039	.4931159	9.258574	.4889366	.4833230
#2	.5227507	.4715147	.4921583	9.210647	.4878043	.4828405
#3	.5200188	.4695414	.4932950	9.161020	.4873859	.4838756

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5034179	9.317280	.4804694	5.447048	.4859265	.2282464
Stddev	.0010995	.031643	.0016041	.017216	.0010736	.0003023
%RSD	.2184045	.3396210	.3338569	.3160645	.2209380	.1324515
#1	.5022129	9.352698	.4787404	5.431114	.4854567	.2285786
#2	.5036744	9.307349	.4819092	5.465310	.4851679	.2279874
#3	.5043665	9.291793	.4807586	5.444718	.4871549	.2281730

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05120	.4679715	.9769339	10.17523	F .0140658	F .0003589
Stddev	.04219	.0010352	.0027560	.04484	.0004581	.0002215
%RSD	.4197795	.2212061	.2821024	.4406760	3.257126	61.71449
#1	10.09082	.4690386	.9789208	10.20809	.0136318	.0002073
#2	10.00684	.4679043	.9780932	10.12415	.0140208	.0006131
#3	10.05595	.4669715	.9737877	10.19345	.0145448	.0002563

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICV01 Acquired: 5/9/2025 12:48:47 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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 -.000920	F .0004333	F -.006507	F .0042389	F .0066018	F .0009705
Stddev	.001077	.0005894	.003321	.0003934	.0055606	.0001581
%RSD	117.0865	136.0043	51.03314	9.280255	84.22927	16.28819
#1	-.000146	.0010494	-.010019	.0037847	.0017563	.0010941
#2	-.000464	.0003757	-.003419	.0044649	.0053759	.0010251
#3	-.002151	-.000125	-.006082	.0044672	.0126730	.0007924

Elem	Sr4077
Units	ppm
Avg	F -.007526
Stddev	.000046
%RSD	.6060301
#1	-.007541
#2	-.007475
#3	-.007563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3261.601	75481.45	15061.03	2999.086	4694.920
Stddev	3.753	133.14	37.54	9.126	3.955
%RSD	.1150609	.1763873	.2492677	.3043010	.0842406
#1	3261.780	75328.96	15055.53	2995.679	4696.916
#2	3265.261	75540.82	15026.55	2992.153	4697.480
#3	3257.762	75574.58	15101.02	3009.426	4690.365

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: LLICV01 Acquired: 5/9/2025 13:12:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205753	.0429375	.0110601	.0236290	.0505965	.0942039	.0902039
Stddev	.0053628	.0016271	.0001520	.0043624	.0021218	.0068582	.0007731
%RSD	26.06423	3.789499	1.374276	18.46197	4.193648	7.280162	.8570435
#1	.0211314	.0444173	.0112190	.0196840	.0485431	.0914756	.0903068
#2	.0149561	.0432001	.0110454	.0228890	.0504658	.1020064	.0909204
#3	.0256383	.0411950	.0109160	.0283141	.0527808	.0891298	.0893846

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057776	.0059341	1.927379	.0095238	.0281008	.0208012	.0880827
Stddev	.0000678	.0000828	.011135	.0000975	.0004914	.0002566	.0018968
%RSD	1.174154	1.395673	.5777015	1.024267	1.748775	1.233694	2.153392
#1	.0058145	.0058676	1.931467	.0094116	.0286666	.0207546	.0899501
#2	.0056994	.0060269	1.914778	.0095887	.0278551	.0205710	.0881401
#3	.0058191	.0059078	1.935892	.0095711	.0277806	.0210779	.0861578

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195008	2.033585	.0379560	.0096652	1.730135	.0359821	.0401376
Stddev	.0001244	.011483	.0001237	.0001023	.019046	.0018946	.0002647
%RSD	.6377374	.5646721	.3259248	1.058853	1.100847	5.265322	.6594286
#1	.0196259	2.046719	.0378148	.0097467	1.708623	.0380871	.0400085
#2	.0193772	2.025442	.0380080	.0095503	1.744850	.0344136	.0399622
#3	.0194994	2.028593	.0380453	.0096986	1.736932	.0354455	.0404420

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.744251	.1091011	.2038662	.0390444	.0399379	.3482973	.0194013
Stddev	.005838	.0008847	.0007948	.0002000	.0001602	.0055751	.0005774
%RSD	.3347026	.8108686	.3898706	.5123205	.4010403	1.600681	2.976319
#1	1.738020	.1100934	.2032457	.0388707	.0397680	.3494227	.0199238
#2	1.749594	.1088151	.2035908	.0392631	.0399596	.3532239	.0194987
#3	1.745140	.1083948	.2047620	.0389996	.0400861	.3422454	.0187813

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: LLICV01 Acquired: 5/9/2025 13:12:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0160900	.0185057	.0194093
Stddev	.0034651	.0012166	.0000196
%RSD	21.53576	6.574479	.1009411
#1	.0200675	.0172284	.0193935
#2	.0144775	.0186376	.0194312
#3	.0137250	.0196510	.0194032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3334.481	75828.27	14361.74	3015.942	4884.079
Stddev	6.396	182.24	135.87	12.499	13.065
%RSD	.1918262	.2403330	.9460559	.4144380	.2675021
#1	3331.501	75643.14	14224.36	3001.553	4871.004
#2	3330.119	76007.48	14496.05	3024.107	4884.099
#3	3341.824	75834.20	14364.80	3022.166	4897.134

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICB01 Acquired: 5/9/2025 13:17:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000010	.0010236	.0005537	.0015101	.0005752	.0010332	-.002174
Stddev	.002554	.0007916	.0018460	.0054560	.0023303	.0044118	.001073
%RSD	24519.45	77.33356	333.3634	361.3111	405.1410	427.0001	49.36089
#1	-.001545	.0015427	.0004769	.0070006	-.001277	.0044833	-.002306
#2	.002938	.0001125	.0024369	-.003911	-.000189	.0025541	-.003175
#3	-.001424	.0014156	-.001253	.001440	.003192	-.003938	-.001041

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000021	.0000616	.0090646	-.000320	-.000404	.0000897	-.005344
Stddev	.0000184	.0000406	.0073355	.000310	.000258	.0002009	.001764
%RSD	873.4952	65.92019	80.92499	96.71076	63.80463	224.0781	33.00638
#1	-.000019	.0000992	.0175347	-.000002	-.000526	-.000055	-.005134
#2	.000015	.0000671	.0048899	-.000621	-.000108	.000319	-.007203
#3	.000011	.0000185	.0047693	-.000337	-.000578	.000005	-.003694

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001180	-.016729	.0001022	-.000200	-.057992	-.001199	.0006964
Stddev	.000030	.011302	.0000716	.000117	.002572	.000564	.0001826
%RSD	2.521870	67.56212	70.09797	58.38878	4.434633	46.99253	26.22046
#1	-.001194	-.023996	.0001827	-.000070	-.060189	-.000835	.0005104
#2	-.001201	-.022483	.0000783	-.000297	-.055163	-.000914	.0008754
#3	-.001146	-.003707	.0000455	-.000233	-.058623	-.001848	.0007036

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.044033	.0047138	-.000220	.0057557	.0006755	-.017137	-.000266
Stddev	.009694	.0002761	.000127	.0008388	.0007811	.001167	.001057
%RSD	22.01452	5.857566	57.62829	14.57340	115.6322	6.807570	396.5181
#1	-.050289	.0050300	-.000325	.0064998	.0011339	-.017362	-.001438
#2	-.048943	.0045208	-.000254	.0048467	.0011190	-.018174	.000613
#3	-.032867	.0045904	-.000079	.0059206	-.000226	-.015874	.000026

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICB01 Acquired: 5/9/2025 13:17:00 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0037918	-.000335	.0000474
Stddev	.0021911	.000446	.0000253
%RSD	57.78374	133.1606	53.25727
#1	.0042302	.000156	.0000760
#2	.0057306	-.000715	.0000385
#3	.0014147	-.000445	.0000279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3299.469	75129.98	14739.86	3007.439	4783.185
Stddev	5.923	195.90	53.00	13.238	5.540
%RSD	.1795097	.2607503	.3595750	.4401598	.1158205
#1	3301.775	74903.87	14690.14	2992.157	4778.086
#2	3292.739	75237.21	14795.62	3014.787	4782.389
#3	3303.891	75248.86	14733.83	3015.372	4789.079

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CRI01 Acquired: 5/9/2025 13:21:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0187721	.0353829	.0092955	.0213244	.0418645	.0955933
Stddev	.0063051	.0074720	.0018547	.0060626	.0129610	.0020768
%RSD	33.58745	21.11752	19.95304	28.43038	30.95949	2.172530
#1	.0207407	.0379952	.0101716	.0273108	.0498193	.0943934
#2	.0238579	.0411980	.0105499	.0214740	.0488658	.0979914
#3	.0117176	.0269555	.0071650	.0151884	.0269085	.0943952

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0908493	.0053436	.0051769	1.915085	.0094443	.0242996
Stddev	.0014758	.0000396	.0013694	.011842	.0001238	.0063407
%RSD	1.624488	.7416107	26.45129	.6183395	1.310977	26.09397
#1	.0925491	.0053225	.0059907	1.919092	.0095752	.0278332
#2	.0901044	.0053191	.0059442	1.924404	.0094286	.0280863
#3	.0898944	.0053894	.0035960	1.901760	.0093291	.0169794

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186223	.0976074	.0192793	1.984056	.0325619	.0097876
Stddev	.0044941	.0060081	.0001882	.027035	.0084136	.0004594
%RSD	24.13293	6.155367	.9762530	1.362590	25.83871	4.693719
#1	.0211182	.0907401	.0191410	2.001249	.0375360	.0097009
#2	.0213144	.1018935	.0194937	1.952895	.0373020	.0102841
#3	.0134342	.1001888	.0192033	1.998024	.0228477	.0093777

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.859656	.0371165	.0400596	1.858384	.1002933	.1755616
Stddev	.007152	.0010736	.0003703	.022806	.0002336	.0452087
%RSD	.3845634	2.892508	.9245001	1.227202	.2329488	25.75091
#1	1.859479	.0376262	.0402165	1.860497	.1001677	.2028278
#2	1.852595	.0378404	.0396367	1.834595	.1005628	.2004804
#3	1.866895	.0358831	.0403258	1.880060	.1001493	.1233767

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CRI01 Acquired: 5/9/2025 13:21:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0333046	.0392716	.3699272	.0179797	F .0126159	.0179084
Stddev	.0090122	.0001720	.0067428	.0028288	.0093212	.0008255
%RSD	27.05983	.4379050	1.822748	15.73299	73.88426	4.609504
#1	.0385129	.0393037	.3654453	.0204625	.0177401	.0187257
#2	.0385027	.0394253	.3776818	.0185765	.0182509	.0179247
#3	.0228983	.0390859	.3666545	.0149002	.0018568	.0170750

Elem	Sr4077
Units	ppm
Avg	.0192032
Stddev	.0000961
%RSD	.5002688
#1	.0191791
#2	.0191214
#3	.0193090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3790.421	75051.37	15521.24	3019.722	5524.230
Stddev	746.133	139.99	58.16	9.758	1090.444
%RSD	19.68471	.1865256	.3747013	.3231484	19.73929
#1	3341.098	75212.54	15519.01	3026.835	4872.605
#2	3378.454	74981.49	15464.22	3023.733	4916.979
#3	4651.712	74960.07	15580.47	3008.597	6783.105

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSA01 Acquired: 5/9/2025 13:25:39 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052520	.0092064	-.000125	-.007901	-.003141	244.3410	.0019327
Stddev	.0023323	.0034611	.003657	.006946	.001123	.1769	.0008861
%RSD	44.40674	37.59423	2931.036	87.91281	35.75071	.0724006	45.84984
#1	.0076166	.0117584	-.003210	-.002068	-.001846	244.1758	.0029111
#2	.0051859	.0105939	.003915	-.006051	-.003840	244.3195	.0011840
#3	.0029535	.0052668	-.001079	-.015585	-.003739	244.5277	.0017031

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013362	-.004011	230.0689	.0558184	.0011921	-.003937	100.7166
Stddev	.0000996	.000090	.2489	.0002351	.0001847	.000539	.1131
%RSD	7.451741	2.232391	.1081659	.4211999	15.49305	13.68776	.1123234
#1	.0012314	-.004115	229.9901	.0555479	.0010719	-.004192	100.8091
#2	.0014295	-.003959	230.3476	.0559739	.0014048	-.003318	100.7502
#3	.0013476	-.003960	229.8690	.0559333	.0010996	-.004300	100.5905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061998	242.6508	.0018969	.0003181	-.019210	.0006769	.0033987
Stddev	.0001112	.3632	.0003578	.0004260	.015941	.0005834	.0004416
%RSD	1.792876	.1496632	18.85947	133.9336	82.98459	86.19237	12.99163
#1	.0062311	242.2734	.0015489	-.000080	-.007804	.0012832	.0033425
#2	.0060763	242.9978	.0022637	.000767	-.012401	.0001194	.0038657
#3	.0062919	242.6813	.0018783	.000267	-.037425	.0006281	.0029880

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.040470	.0351008	-.000071	-.004534	-.001113	.0115330	.0034611
Stddev	.024758	.0003784	.000145	.002068	.000178	.0196993	.0072810
%RSD	61.17598	1.077891	204.6306	45.61995	15.97709	170.8087	210.3652
#1	-.065804	.0348914	-.000217	-.005380	-.000927	.0083009	-.001065
#2	-.016332	.0348735	.000072	-.006044	-.001282	-.006350	.011860
#3	-.039274	.0355376	-.000067	-.002176	-.001129	.032648	-.000411

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSA01 Acquired: 5/9/2025 13:25:39 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.015536	.0041426	.0020434
Stddev	.003007	.0013432	.0002247
%RSD	19.35154	32.42395	10.99387
#1	-.016456	.0054624	.0018464
#2	-.017976	.0027772	.0019956
#3	-.012177	.0041881	.0022880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3005.119	66490.36	14767.09	2692.273	4068.878
Stddev	7.975	122.99	46.18	4.032	10.460
%RSD	.2653925	.1849671	.3127345	.1497666	.2570687
#1	3011.287	66489.39	14784.99	2696.729	4075.262
#2	2996.113	66367.86	14714.64	2691.216	4056.807
#3	3007.957	66613.82	14801.65	2688.875	4074.565

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSAB01 Acquired: 5/9/2025 13:59:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.1187355	.1093646	.0516253	.0499895	.6706285	236.7875
Stddev	.0057284	.0061706	.0035308	.0052989	.0029715	1.4803
%RSD	4.824490	5.642260	6.839297	10.59997	.4430921	.6251802
#1	.1221143	.1138543	.0492033	.0545022	.6671979	236.1226
#2	.1219706	.1119113	.0556765	.0513116	.6722867	238.4837
#3	.1121214	.1023282	.0499960	.0441548	.6724008	235.7561

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5202348	.5154831	1.052296	220.2117	.5702838	.5213045
Stddev	.0034973	.0071136	.001353	1.8564	.0020249	.0006231
%RSD	.6722492	1.379986	.1286028	.8430095	.3550636	.1195251
#1	.5191957	.5109519	1.052575	219.2422	.5718671	.5220208
#2	.5241339	.5236820	1.050825	222.3521	.5709822	.5208874
#3	.5173749	.5118154	1.053488	219.0407	.5680022	.5210054

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5156005	91.28923	.5128438	232.8966	1.031726	.1870382
Stddev	.0007362	.39141	.0036269	2.0412	.001386	.0004057
%RSD	.1427800	.4287617	.7072087	.8764571	.1343315	.2168924
#1	.5160370	91.72948	.5111751	231.6202	1.031003	.1873688
#2	.5160140	90.98057	.5170047	235.2508	1.030851	.1871603
#3	.5147505	91.15763	.5103517	231.8188	1.033324	.1865855

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.084623	.5020618	1.085791	-.082694	F .0243946	F -.000003
Stddev	.005016	.0045101	.000929	.017909	.0022249	.000423
%RSD	5.927824	.8983110	.0855878	21.65677	9.120494	12172.91
#1	-.079969	.4995772	1.086819	-.062691	.0249363	.000375
#2	-.089937	.5072678	1.085011	-.097239	.0219489	.000074
#3	-.083963	.4993403	1.085542	-.088151	.0262987	-.000459

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSAB01 Acquired: 5/9/2025 13:59:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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 -.006268	F -.002209	F -.009082	F .0032445	F -.001918	F .0019291
Stddev	.001170	.001029	.006759	.0037391	.001658	.0005729
%RSD	18.66224	46.56641	74.42883	115.2435	86.43239	29.69692
#1	-.005341	-.001118	-.006234	.0072378	-.001128	.0022130
#2	-.007582	-.003162	-.004212	.0026695	-.003824	.0012697
#3	-.005881	-.002347	-.016799	-.000174	-.000804	.0023047

Elem	Sr4077
Units	ppm
Avg	F .0079481
Stddev	.0007526
%RSD	9.469250
#1	.0071749
#2	.0086783
#3	.0079912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.030	69753.99	14582.15	2772.828	4151.449
Stddev	2.998	167.31	155.87	3.437	4.486
%RSD	.0988518	.2398600	1.068880	.1239524	.1080700
#1	3029.679	69564.81	14686.22	2770.073	4146.541
#2	3035.460	69882.51	14402.95	2776.680	4155.339
#3	3033.950	69814.65	14657.29	2771.732	4152.467

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSADLX20 Acquired: 5/9/2025 14:03:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001992	.0005290	.0002140	.0066331	-.001105	11.80072	-.002160
Stddev	.002123	.0014492	.0010560	.0027704	.001471	.02060	.000897
%RSD	106.5887	273.9388	493.3978	41.76708	133.1751	.1745796	41.53654
#1	-.000035	.0004408	.0009655	.0038732	-.002754	11.81259	-.001869
#2	-.001691	.0020204	-.000993	.0066120	-.000631	11.77693	-.003166
#3	-.004249	-.000874	.000670	.0094140	.000072	11.81264	-.001444

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000671	-.000135	11.59958	.0025833	.0000016	-.000094	4.626774
Stddev	.0000601	.000146	.03766	.0000076	.0001244	.000598	.032159
%RSD	89.59983	108.3135	.3246340	.2938616	7956.381	636.2316	.6950588
#1	.0001039	.000030	11.63708	.0025745	-.000141	-.000403	4.606492
#2	-.000002	-.000185	11.56177	.0025881	.000054	.000595	4.609976
#3	.000100	-.000249	11.59989	.0025871	.000091	-.000474	4.663853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001106	11.75853	-.000268	.0000847	-.125192	-.000431	.0002525
Stddev	.000292	.06263	.000453	.0003358	.002631	.001703	.0002271
%RSD	26.36721	.5326385	168.8599	396.5515	2.101258	395.0250	89.95570
#1	-.001088	11.81179	.000201	-.000108	-.123943	.001480	.0000874
#2	-.001406	11.68953	-.000703	.000472	-.128214	-.000986	.0001586
#3	-.000823	11.77428	-.000302	-.000110	-.123418	-.001788	.0005115

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.089861	.0016360	.0001911	.0005834	.0005969	-.021122	-.000706
Stddev	.028683	.0008761	.0002885	.0006914	.0005622	.008213	.002226
%RSD	31.91932	53.55019	151.0151	118.5209	94.19501	38.88382	315.1950
#1	-.110471	.0022696	-.000105	-.000013	.0002227	-.012731	-.002573
#2	-.057103	.0006362	.000207	.001342	.0003245	-.029144	-.001304
#3	-.102009	.0020023	.000471	.000421	.0012434	-.021489	.001758

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSADLX20 Acquired: 5/9/2025 14:03:13 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000916	-.001114	.0005295
Stddev	.001534	.000731	.0001117
%RSD	167.5383	65.62402	21.09844
#1	-.000469	-.000513	.0005756
#2	.000346	-.000901	.0004021
#3	-.002624	-.001927	.0006108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3282.245	74177.43	14553.29	2974.715	4748.386
Stddev	4.540	124.54	90.24	3.805	9.546
%RSD	.1383131	.1679014	.6200461	.1278966	.2010392
#1	3279.297	74084.42	14459.62	2971.716	4738.391
#2	3287.472	74128.94	14560.60	2978.994	4757.409
#3	3279.965	74318.92	14639.65	2973.433	4749.359

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSABDLX20 Acquired: 5/9/2025 14:07:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083559	.0067522	.0010269	.0094309	.0314854	11.49035	.0205801
Stddev	.0025147	.0017375	.0010219	.0056501	.0028124	.02852	.0020860
%RSD	30.09497	25.73293	99.51567	59.91047	8.932293	.2481838	10.13605
#1	.0111248	.0084332	.0003196	.0156922	.0293954	11.51020	.0201545
#2	.0077290	.0068601	.0005626	.0078882	.0303779	11.50318	.0228462
#3	.0062140	.0049632	.0021985	.0047124	.0346829	11.45767	.0187398

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268334	.0524508	11.18178	.0290707	.0255558	.0265264	4.469562
Stddev	.0001502	.0002216	.00848	.0002303	.0003809	.0008743	.048415
%RSD	.5598239	.4224365	.0758476	.7923374	1.490326	3.295887	1.083206
#1	.0266925	.0524958	11.17239	.0292303	.0253700	.0265147	4.458730
#2	.0269915	.0522103	11.18887	.0288066	.0253036	.0274065	4.427481
#3	.0268163	.0526465	11.18408	.0291751	.0259939	.0256580	4.522475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0251358	11.37810	.0518549	.0095737	-.126300	.0223150	.0538476
Stddev	.0003781	.02634	.0003526	.0000214	.002871	.0009970	.0005087
%RSD	1.504024	.2315380	.6799277	.2235938	2.272846	4.467991	.9446607
#1	.0247034	11.36364	.0518766	.0095940	-.122995	.0230725	.0537625
#2	.0254038	11.40850	.0514920	.0095514	-.127735	.0226872	.0543935
#3	.0253001	11.36214	.0521961	.0095756	-.128171	.0211855	.0533869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.087224	.0502794	.0496224	.0487469	.0474323	.0284330	-.001843
Stddev	.019631	.0009828	.0000414	.0004913	.0012858	.0009859	.003486
%RSD	22.50608	1.954752	.0833308	1.007854	2.710739	3.467449	189.1541
#1	-.109836	.0508475	.0496655	.0492794	.0477820	.0273817	.002111
#2	-.074538	.0508462	.0496188	.0483113	.0485071	.0285806	-.004475
#3	-.077299	.0491445	.0495830	.0486502	.0460079	.0293369	-.003165

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: ICSABDLX20 Acquired: 5/9/2025 14:07:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0049585	-.000777	.0004864
Stddev	.0002361	.001695	.0000192
%RSD	4.762434	218.1857	3.943018
#1	.0052119	-.001489	.0004808
#2	.0049191	.001158	.0005077
#3	.0047446	-.002000	.0004706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3278.804	73910.72	14453.83	2967.570	4763.830
Stddev	10.082	202.68	55.71	10.189	11.239
%RSD	.3074827	.2742290	.3854290	.3433296	.2359153
#1	3271.054	73839.09	14421.89	2957.580	4751.222
#2	3290.202	74139.49	14421.43	2977.946	4772.798
#3	3275.157	73753.58	14518.15	2967.185	4767.468

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV01 Acquired: 5/9/2025 14:11:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	5.217443	5.110602	5.138144	5.287412	5.294026	10.36700	10.48781
Stddev	.018276	.025230	.017246	.013271	.017727	.02145	.15468
%RSD	.3502957	.4936892	.3356378	.2509983	.3348549	.2069292	1.474824
#1	5.197964	5.095137	5.137705	5.272439	5.273580	10.38771	10.63994
#2	5.220149	5.139716	5.121123	5.297725	5.303396	10.36840	10.49277
#3	5.234216	5.096951	5.155605	5.292072	5.305102	10.34488	10.33071

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2547683	2.530587	25.70305	1.028561	2.541665	1.300214	5.337002
Stddev	.0010974	.008737	.18557	.002083	.007851	.004438	.010587
%RSD	.4307412	.3452608	.7219577	.2025011	.3088893	.3413412	.1983644
#1	.2559651	2.532092	25.88754	1.030687	2.543280	1.296767	5.327889
#2	.2545306	2.521195	25.70517	1.028470	2.533132	1.298652	5.348615
#3	.2538092	2.538473	25.51643	1.026525	2.548583	1.305221	5.334502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.562708	25.18346	2.556626	1.292787	26.05302	2.586487	2.614288
Stddev	.008307	.14323	.009299	.003111	.07667	.007749	.009475
%RSD	.3241668	.5687379	.3637102	.2406595	.2942750	.2995988	.3624232
#1	2.572268	25.33134	2.555549	1.295806	25.96450	2.593410	2.624802
#2	2.558611	25.17365	2.547914	1.292963	26.09846	2.587934	2.606412
#3	2.557244	25.04539	2.566417	1.289591	26.09610	2.578116	2.611649

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.83864	5.137948	5.243312	5.089395	5.190204	5.132832	5.115952
Stddev	.09995	.030461	.019899	.015237	.017567	.009900	.020916
%RSD	.3868412	.5928676	.3795158	.2993816	.3384643	.1928796	.4088418
#1	25.72327	5.169329	5.229817	5.082026	5.206024	5.128565	5.101383
#2	25.89359	5.136017	5.233953	5.079243	5.193289	5.125782	5.106554
#3	25.89907	5.108498	5.266165	5.106915	5.171298	5.144151	5.139919

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV01 Acquired: 5/9/2025 14:11:43 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	5.085969	5.211967	5.210923
Stddev	.025682	.009653	.011681
%RSD	.5049671	.1852039	.2241554
#1	5.065427	5.220018	5.220534
#2	5.077716	5.214617	5.197922
#3	5.114763	5.201266	5.214313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3229.139	73500.99	14650.21	2918.800	4572.224
Stddev	4.690	232.48	123.60	11.874	5.036
%RSD	.1452546	.3163014	.8436558	.4068010	.1101380
#1	3234.553	73289.62	14518.05	2905.807	4571.360
#2	3226.545	73463.36	14669.66	2929.088	4577.636
#3	3226.318	73750.00	14762.94	2921.505	4567.677

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB01 Acquired: 5/9/2025 14:15:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0022800	.0010476	.0000628	.0058781	-.000016	.0092656	-.002756
Stddev	.0021477	.0029621	.0011518	.0033861	.001182	.0036224	.000274
%RSD	94.19829	282.7534	1833.095	57.60463	7447.235	39.09568	9.958500
#1	.0025231	.0004827	.0009301	.0065404	.001313	.0050913	-.003064
#2	.0042957	-.001591	-.001244	.0088841	-.000413	.0115851	-.002538
#3	.0000211	.004251	.000502	.0022098	-.000948	.0111202	-.002667

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000539	.0003693	.0154184	.0002967	.0000887	.0002778	.0171472
Stddev	.0000312	.0000988	.0068734	.0003345	.0000291	.0003116	.0035525
%RSD	57.96353	26.75487	44.57907	112.7164	32.75116	112.1597	20.71765
#1	.0000887	.0002976	.0218016	.0006552	.0000716	.0006322	.0173461
#2	.0000448	.0003282	.0163115	-.000007	.0000723	.0000465	.0134994
#3	.0000282	.0004820	.0081421	.000242	.0001223	.0001548	.0205960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010551	.0129820	.0001214	.0001937	-.116682	-.003096	.0018650
Stddev	.0002096	.0030056	.0001329	.0000909	.002809	.002275	.0002601
%RSD	19.86822	23.15243	109.4102	46.93314	2.407218	73.47208	13.94743
#1	.0012071	.0137793	.0001206	.0001717	-.114440	-.002181	.0017581
#2	.0011422	.0096581	.0002547	.0002937	-.119833	-.001421	.0016754
#3	.0008160	.0155086	-.000011	.0001159	-.115774	-.005686	.0021615

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.063238	.0085763	.0008687	.0051806	.0012187	-.010217	-.001782
Stddev	.024029	.0003500	.0000537	.0006663	.0003476	.005188	.000764
%RSD	37.99860	4.080761	6.178215	12.86196	28.52245	50.78121	42.88353
#1	-.040560	.0086330	.0009259	.0047448	.0010674	-.011600	-.000903
#2	-.088422	.0082014	.0008606	.0048493	.0016163	-.004477	-.002292
#3	-.060730	.0088945	.0008195	.0059476	.0009724	-.014574	-.002151

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB01 Acquired: 5/9/2025 14:15:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0072822	-.000109	.0006423
Stddev	.0050635	.000553	.0000927
%RSD	69.53321	506.7082	14.43687
#1	.0074739	-.000736	.0005366
#2	.0122471	.000307	.0006802
#3	.0021255	.000102	.0007100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3328.956	73642.21	15130.59	2977.791	4861.275
Stddev	7.352	183.55	28.06	9.054	4.243
%RSD	.2208620	.2492502	.1854254	.3040532	.0872855
#1	3336.709	73722.67	15098.95	2971.193	4861.523
#2	3328.074	73432.16	15140.40	2974.067	4856.914
#3	3322.084	73771.79	15152.43	2988.113	4865.390

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167892BL Acquired: 5/9/2025 14:20:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0017517	-.000530	-.001468	.0024048	.0008921	.0035475	-.002059
Stddev	.0034534	.001603	.001154	.0022791	.0026379	.0056581	.000689
%RSD	197.1503	302.5750	78.59559	94.77597	295.7115	159.4972	33.47424
#1	.0038778	-.002309	-.002477	.0011113	-.001092	.0038069	-.002834
#2	.0036102	.000803	-.001718	.0010666	-.000118	.0090714	-.001826
#3	-.002233	-.000083	-.000210	.0050364	.003886	-.002236	-.001516

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000220	.0001454	.0102471	.0003315	-.000040	.0003360	.0144168
Stddev	.0000389	.0001001	.0050654	.0002230	.000190	.0003384	.0017554
%RSD	176.3061	68.89802	49.43237	67.27415	469.6722	100.7331	12.17597
#1	.0000516	.0000324	.0074989	.0005526	.000118	.0000993	.0140670
#2	.0000365	.0001804	.0160926	.0003355	-.000251	.0001851	.0163207
#3	-.000022	.0002233	.0071497	.0001066	.000011	.0007236	.0128626

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027232	.0063343	.0003281	.0000744	-.117645	-.000348	.0007037
Stddev	.0001951	.0070452	.0001468	.0002171	.008264	.001728	.0001364
%RSD	7.164944	111.2230	44.74931	291.7517	7.024406	497.0180	19.37848
#1	.0028401	.0082730	.0003303	-.000050	-.110189	.000755	.0007582
#2	.0024979	.0122071	.0001801	.000325	-.126530	-.002340	.0005485
#3	.0028315	-.001477	.0004737	-.000052	-.116216	.000541	.0008044

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.076672	.0055283	.0001360	.0056476	.0013369	-.024923	.0011224
Stddev	.039575	.0004967	.0004217	.0005534	.0011828	.009836	.0014440
%RSD	51.61619	8.985225	310.1257	9.798437	88.47084	39.46566	128.6466
#1	-.030977	.0061007	.0000344	.0050525	.0023366	-.013771	.0025714
#2	-.099067	.0052102	.0005992	.0057438	.0000312	-.028635	-.000316
#3	-.099971	.0052740	-.000226	.0061466	.0016429	-.032363	.001112

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167892BL Acquired: 5/9/2025 14:20:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0058261	-.000533	.0000624
Stddev	.0031672	.001138	.0000886
%RSD	54.36187	213.3814	141.8669
#1	.0021721	-.000998	.0001590
#2	.0075228	.000764	-.000015
#3	.0077835	-.001365	.000043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3336.036	78236.64	14845.63	3108.999	4864.642
Stddev	1.800	294.26	79.13	5.876	7.434
%RSD	.0539424	.3761216	.5330244	.1890044	.1528247
#1	3337.171	78124.73	14777.05	3115.056	4863.692
#2	3336.975	78014.75	14827.63	3108.620	4872.506
#3	3333.961	78570.44	14932.21	3103.321	4857.729

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167892BS Acquired: 5/9/2025 14:24:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.7693242	1.952328	.9443498	1.936484	.7852432	1.836685
Stddev	.0064785	.020945	.0047695	.007794	.0064956	.010304
%RSD	.8420960	1.072831	.5050577	.4024919	.8272108	.5610144
#1	.7705279	1.959065	.9430596	1.927657	.7793176	1.846987
#2	.7623283	1.969075	.9403582	1.942418	.7842237	1.836689
#3	.7751164	1.928843	.9496317	1.939377	.7921882	1.826379

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1831904	.1860207	.1917656	.9595393	.3856596	.1869508
Stddev	.0010462	.0020056	.0006833	.0078998	.0006282	.0010126
%RSD	.5711004	1.078184	.3563162	.8232869	.1628945	.5416147
#1	.1838467	.1880653	.1915515	.9682314	.3856305	.1861510
#2	.1837407	.1859402	.1912151	.9575893	.3850465	.1866121
#3	.1819839	.1840565	.1925303	.9527971	.3863019	.1880893

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2941188	2.906580	.1875686	1.829058	.4728939	.0719820
Stddev	.0006249	.030576	.0008571	.005310	.0016992	.0001191
%RSD	.2124682	1.051974	.4569549	.2903287	.3593217	.1653964
#1	.2935650	2.885428	.1883416	1.828032	.4722792	.0720394
#2	.2939951	2.892674	.1877174	1.824336	.4715875	.0718451
#3	.2947963	2.941638	.1866469	1.834807	.4748149	.0720614

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.233819	.2809610	.1960779	9.152525	.2875091	.4016384
Stddev	.043147	.0007204	.0004781	.145526	.0032211	.0013633
%RSD	1.334236	.2564240	.2438219	1.590012	1.120357	.3394448
#1	3.189400	.2801392	.1955445	9.012619	.2910052	.4000674
#2	3.236487	.2814837	.1964676	9.141870	.2868603	.4023362
#3	3.275569	.2812601	.1962217	9.303085	.2846618	.4025115

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167892BS Acquired: 5/9/2025 14:24:35 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.6764176	.1925900	.8040932	5.802032	F -.011535	.1962272
Stddev	.0034220	.0007152	.0123956	.007447	.007322	.0005178
%RSD	.5059040	.3713753	1.541568	.1283564	63.47834	.2638751
#1	.6747197	.1931203	.7901979	5.794567	-.019005	.1968242
#2	.6741765	.1917765	.8140145	5.802070	-.011229	.1959001
#3	.6803565	.1928732	.8080673	5.809461	-.004370	.1959574

Elem	Sr4077
Units	ppm
Avg	.1891241
Stddev	.0005128
%RSD	.2711273
#1	.1892084
#2	.1895894
#3	.1885744

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3318.574	74061.07	15036.25	2994.498	4814.810
Stddev	7.869	175.69	180.34	.460	13.331
%RSD	.2371067	.2372204	1.199372	.0153466	.2768733
#1	3309.736	74074.55	14841.55	2994.156	4801.608
#2	3324.818	74229.63	15069.62	2995.021	4828.267
#3	3321.168	73879.03	15197.57	2994.318	4814.555

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-01 Acquired: 5/9/2025 14:28:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0247867	-.007424	.0709662	-.031351	-.002553	119.6633
Stddev	.0067935	.001005	.0003510	.005219	.002712	.1494
%RSD	27.40764	13.53194	.4945634	16.64796	106.2341	.1248205
#1	.0242759	-.006750	.0705852	-.036903	-.000158	119.8342
#2	.0318211	-.006943	.0712763	-.026545	-.002003	119.5574
#3	.0182631	-.008579	.0710372	-.030606	-.005498	119.5984

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4859532	.0048522	-.003958	946.0664	.1014340	.0412357
Stddev	.0034115	.0000247	.000206	2.1877	.0002413	.0007259
%RSD	.7020203	.5092817	5.200952	.2312463	.2378753	1.760433
#1	.4891008	.0048518	-.003732	946.8017	.1012876	.0404080
#2	.4864305	.0048771	-.004134	947.7918	.1017125	.0415350
#3	.4823281	.0048277	-.004009	943.6058	.1013020	.0417641

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0599315	131.7115	3.617611	72.80640	.0597162	-.000217
Stddev	.0003961	.2944	.012419	.21885	.0002211	.000128
%RSD	.6608680	.2235466	.3433016	.3005959	.3702319	59.00128
#1	.0602991	131.5752	3.622264	73.01028	.0594882	-.000092
#2	.0599834	132.0494	3.603537	72.57515	.0599297	-.000211
#3	.0595121	131.5099	3.627032	72.83377	.0597306	-.000348

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.495152	.1087883	.3220742	12.53597	.1687079	.0025752
Stddev	.024480	.0016477	.0014025	.13204	.0024036	.0004070
%RSD	.7003897	1.514589	.4354655	1.053327	1.424734	15.80346
#1	3.469663	.1081341	.3209493	12.38637	.1700025	.0022739
#2	3.518480	.1075681	.3216277	12.58529	.1701868	.0030382
#3	3.497313	.1106626	.3236456	12.63626	.1659345	.0024137

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-01 Acquired: 5/9/2025 14:28:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.006989	5.527149	11.81711	6.113804	F 29.29931	.0699690
Stddev	.001156	.021705	.05300	.025165	.09214	.0003892
%RSD	16.53381	.3927028	.4485347	.4116150	.3144662	.5561869
#1	-.008263	5.549397	11.75637	6.084891	29.19977	.0703675
#2	-.006010	5.526017	11.85398	6.130778	29.31655	.0695899
#3	-.006693	5.506031	11.84098	6.125741	29.38160	.0699498

Elem	Sr4077
Units	ppm
Avg	4.481759
Stddev	.035446
%RSD	.7908992
#1	4.485989
#2	4.514900
#3	4.444387

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3016.460	68281.88	15102.42	2745.476	3861.242
Stddev	6.231	263.13	55.45	13.088	7.882
%RSD	.2065825	.3853585	.3671299	.4767242	.2041223
#1	3023.214	68553.07	15043.43	2759.306	3869.591
#2	3010.933	68264.95	15153.47	2743.840	3853.930
#3	3015.234	68027.62	15110.35	2733.283	3860.205

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02 Acquired: 5/9/2025 14:33:08 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.1223155	-.014761	.1617977	-.015153	.0001242	112.0129	1.245642
Stddev	.0058647	.004715	.0023427	.001759	.0019308	.2959	.004202
%RSD	4.794725	31.94019	1.447899	11.60784	1554.548	.2641431	.3373678
#1	.1232631	-.011909	.1638651	-.014201	.0009524	111.8845	1.243010
#2	.1160347	-.012172	.1592532	-.017183	-.002083	112.3513	1.250489
#3	.1276487	-.020204	.1622748	-.014075	.001503	111.8030	1.243428

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138015	-.001444	898.2252	.1302385	.0861222	.3711745	146.3337
Stddev	.0000707	.000161	4.3568	.0002046	.0002466	.0007366	.8589
%RSD	.5124482	11.14480	.4850402	.1570854	.2862936	.1984404	.5869148
#1	.0137272	-.001536	898.4296	.1302510	.0860452	.3720025	146.7819
#2	.0138681	-.001537	893.7698	.1304366	.0859233	.3709286	146.8757
#3	.0138093	-.001258	902.4761	.1300280	.0863980	.3705923	145.3435

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.753276	41.23785	.2249317	.0016915	3.908738	.2742686	.2119667
Stddev	.003848	.28901	.0003367	.0003246	.004383	.0007204	.0010557
%RSD	.2194825	.7008266	.1496828	19.19155	.1121345	.2626785	.4980703
#1	1.749366	41.01801	.2245582	.0014631	3.903795	.2739072	.2109140
#2	1.757060	41.56520	.2252119	.0020632	3.910265	.2738003	.2130254
#3	1.753403	41.13034	.2250250	.0015483	3.912153	.2750982	.2119606

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.29472	.0945405	.0156314	-.006852	7.469947	7.418364	5.013425
Stddev	.15929	.0010623	.0005656	.001847	.025341	.039147	.028009
%RSD	.6837968	1.123619	3.618569	26.95110	.3392424	.5277030	.5586788
#1	23.39289	.0949719	.0162821	-.008970	7.462412	7.437185	5.042147
#2	23.38033	.0953192	.0152568	-.006010	7.498201	7.444546	5.011939
#3	23.11093	.0933304	.0153554	-.005577	7.449227	7.373361	4.986188

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02 Acquired: 5/9/2025 14:33:08 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	10.96891	.0654778	7.155543
Stddev	.05295	.0006708	.026053
%RSD	.4827271	1.024514	.3640911
#1	11.01970	.0662432	7.176617
#2	10.97298	.0651980	7.126414
#3	10.91404	.0649921	7.163598

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3079.581	71927.88	14977.05	2866.695	3845.080
Stddev	1.296	379.60	60.80	14.543	3.833
%RSD	.0420766	.5277460	.4059832	.5072915	.0996789
#1	3078.309	71742.20	15020.41	2876.404	3840.663
#2	3079.534	71676.87	14907.55	2849.975	3847.527
#3	3080.899	72364.58	15003.20	2873.706	3847.049

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02DUP Acquired: 5/9/2025 14:37:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.1188871	-.014099	.1504011	-.008135	-.000285	95.80371	1.066503
Stddev	.0038093	.001447	.0018380	.004690	.001727	.12061	.002043
%RSD	3.204157	10.26205	1.222083	57.65284	605.1685	.1258932	.1916023
#1	.1204895	-.013793	.1514884	-.005825	.001434	95.71368	1.066362
#2	.1216334	-.012830	.1482789	-.005049	-.000270	95.94075	1.068613
#3	.1145383	-.015675	.1514359	-.013533	-.002021	95.75672	1.064533

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115506	-.003651	778.1614	.1121110	.0715286	.3258254	134.5490
Stddev	.0001182	.000185	3.5218	.0004299	.0004282	.0003536	.2879
%RSD	1.023490	5.078332	.4525794	.3834184	.5986157	.1085310	.2139443
#1	.0115622	-.003515	774.1591	.1121871	.0719168	.3259457	134.2197
#2	.0116625	-.003862	780.7865	.1116482	.0710694	.3254274	134.6746
#3	.0114269	-.003577	779.5386	.1124977	.0715998	.3261032	134.7528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.481529	35.22762	.1846104	.0019273	3.313406	.2257130	.1993789
Stddev	.003337	.14673	.0006164	.0002231	.024423	.0003388	.0006748
%RSD	.2252453	.4165106	.3338766	11.57380	.7370944	.1501216	.3384738
#1	1.479802	35.21102	.1844153	.0020277	3.285328	.2255526	.1986397
#2	1.485375	35.38194	.1841151	.0020826	3.325161	.2254841	.1999621
#3	1.479409	35.08990	.1853007	.0016717	3.329728	.2261022	.1995349

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.69541	.0914249	.0145312	-.007193	6.277032	4.362843	3.806867
Stddev	.14237	.0007258	.0002854	.001636	.008580	.098083	.027279
%RSD	.6879092	.7938828	1.964055	22.74656	.1366905	2.248151	.7165796
#1	20.54140	.0907901	.0146165	-.005779	6.281601	4.249957	3.806592
#2	20.72260	.0922162	.0147642	-.006814	6.282360	4.411357	3.779727
#3	20.82221	.0912684	.0142129	-.008985	6.267134	4.427215	3.834283

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02DUP Acquired: 5/9/2025 14:37:32 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	9.095753	.0534721	5.847118
Stddev	.027296	.0012698	.051946
%RSD	.3000981	2.374621	.8884049
#1	9.082980	.0542267	5.854693
#2	9.077185	.0520061	5.894861
#3	9.127094	.0541834	5.791801

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3065.152	70502.38	15658.31	2825.799	3900.843
Stddev	7.311	68.56	68.85	3.364	8.121
%RSD	.2385180	.0972379	.4397318	.1190344	.2081743
#1	3072.705	70559.32	15606.54	2823.228	3909.263
#2	3064.640	70426.29	15631.94	2829.606	3900.206
#3	3058.111	70521.53	15736.46	2824.564	3893.060

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02LX5 Acquired: 5/9/2025 14:41:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0227629	-.000111	.0296487	-.000964	-.002224	21.08985	.2396477
Stddev	.0012587	.001338	.0018888	.003819	.002246	.08283	.0010413
%RSD	5.529618	1207.463	6.370586	395.9987	100.9888	.3927419	.4345345
#1	.0214157	.001245	.0291218	.002693	-.004749	21.00920	.2395849
#2	.0229641	-.000147	.0317450	-.000660	-.000451	21.17470	.2407191
#3	.0239089	-.001430	.0280793	-.004927	-.001472	21.08565	.2386393

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026375	-.001456	178.2047	.0253599	.0153112	.0746642	30.16860
Stddev	.0000406	.000141	.5000	.0003297	.0002430	.0006184	.08968
%RSD	1.540329	9.661902	.2805578	1.300190	1.586994	.8282179	.2972601
#1	.0026308	-.001598	177.9862	.0255719	.0155793	.0743581	30.27118
#2	.0026811	-.001452	178.7768	.0255277	.0152488	.0742586	30.12959
#3	.0026007	-.001317	177.8513	.0249800	.0151055	.0753759	30.10504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3495771	8.069388	.0411727	.0004430	.6448638	.0523785	.0418171
Stddev	.0016723	.050249	.0000962	.0003591	.0089838	.0012203	.0008224
%RSD	.4783738	.6227054	.2337158	81.04480	1.393128	2.329800	1.966783
#1	.3477985	8.012223	.0410725	.0000474	.6347023	.0532045	.0409200
#2	.3511176	8.106576	.0411813	.0007482	.6481373	.0509768	.0419957
#3	.3498153	8.089365	.0412644	.0005335	.6517517	.0529541	.0425356

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.185226	.0215414	.0030912	-.006207	1.491840	1.532298	.8739442
Stddev	.028883	.0006356	.0003011	.000666	.004442	.020719	.0017374
%RSD	.6901198	2.950588	9.742081	10.73129	.2977862	1.352178	.1988020
#1	4.151905	.0220001	.0028929	-.006024	1.487969	1.551902	.8745943
#2	4.200659	.0218082	.0034377	-.005652	1.496690	1.510619	.8752627
#3	4.203114	.0208159	.0029430	-.006946	1.490860	1.534374	.8719754

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02LX5 Acquired: 5/9/2025 14:41:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.861667	.0109278	1.404819
Stddev	.006552	.0005250	.005184
%RSD	.3519366	4.804191	.3690188
#1	1.868665	.0115125	1.399544
#2	1.855679	.0107740	1.409907
#3	1.860658	.0104968	1.405006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3184.275	72353.79	15368.94	2893.910	4441.562
Stddev	2.837	206.01	62.57	8.040	4.801
%RSD	.0891055	.2847245	.4070898	.2778183	.1080968
#1	3187.224	72167.34	15391.29	2902.742	4440.126
#2	3181.564	72319.09	15298.26	2891.969	4437.643
#3	3184.038	72574.95	15417.25	2887.018	4446.917

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02MS Acquired: 5/9/2025 14:46:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8595758	1.765179	1.092130	1.804602	.2351552	99.25109	1.226297
Stddev	.0072871	.005513	.003880	.004149	.0028649	.31302	.001349
%RSD	.8477569	.3123416	.3552370	.2299109	1.218311	.3153856	.1100454
#1	.8635732	1.771074	1.092759	1.800252	.2376959	99.30597	1.226601
#2	.8511648	1.764315	1.095656	1.808515	.2357197	99.53305	1.227469
#3	.8639894	1.760149	1.087974	1.805039	.2320501	98.91426	1.224822

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1867287	.1888346	731.9118	.4847016	.2656033	.6025109	142.4931
Stddev	.0011943	.0002876	4.9009	.0021758	.0009803	.0011360	.6355
%RSD	.6395746	.1523091	.6696028	.4488844	.3690980	.1885425	.4459606
#1	.1871944	.1885673	732.5159	.4821935	.2656138	.6012157	142.2412
#2	.1876200	.1891389	736.4826	.4858285	.2646177	.6029790	142.0222
#3	.1853717	.1887977	726.7368	.4860827	.2665783	.6033381	143.2159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.711539	36.70390	.6645116	.0739959	6.585052	.5022642	.4007668
Stddev	.009753	.27116	.0016498	.0004967	.023070	.0027107	.0015793
%RSD	.5698445	.7387718	.2482775	.6712639	.3503444	.5396976	.3940778
#1	1.710712	36.68770	.6635850	.0734638	6.577676	.5050743	.3989987
#2	1.721679	36.98280	.6635334	.0744473	6.566571	.5020533	.4012637
#3	1.702225	36.44121	.6664165	.0740766	6.610908	.4996652	.4020379

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.09534	.3346422	.3754138	.6019131	6.749564	8.043772	10.15369
Stddev	.09975	.0009098	.0012068	.0006232	.016609	.032172	.03756
%RSD	.3207824	.2718777	.3214592	.1035384	.2460757	.3999635	.3698866
#1	31.03341	.3348697	.3740342	.6014979	6.761438	8.042092	10.12255
#2	31.04221	.3354167	.3759334	.6016116	6.756670	8.012472	10.14312
#3	31.21041	.3336403	.3762738	.6026297	6.730584	8.076751	10.19540

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02MS Acquired: 5/9/2025 14:46:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	8.937583	.2659001	5.557071
Stddev	.031362	.0015975	.012455
%RSD	.3509004	.6008021	.2241338
#1	8.966242	.2675002	5.558540
#2	8.942426	.2643052	5.543946
#3	8.904082	.2658948	5.568726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3091.978	69834.25	15553.82	2804.175	3930.296
Stddev	4.603	196.86	85.19	4.474	9.715
%RSD	.1488611	.2819013	.5477215	.1595630	.2471820
#1	3097.292	70035.65	15543.89	2809.278	3941.426
#2	3089.248	69824.85	15474.03	2800.927	3925.948
#3	3089.393	69642.26	15643.54	2802.318	3923.515

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02MSD Acquired: 5/9/2025 14:50:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8759923	1.793282	1.104227	1.771372	.2261642	109.4053	1.363671
Stddev	.0085230	.016269	.004752	.008314	.0023220	.2359	.005868
%RSD	.9729523	.9071997	.4303319	.4693284	1.026668	.2156058	.4303217
#1	.8756694	1.807362	1.109217	1.780563	.2274854	109.6474	1.370062
#2	.8846722	1.797011	1.103707	1.769175	.2234831	109.3924	1.362425
#3	.8676354	1.775473	1.099756	1.764377	.2275241	109.1761	1.358525

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1836131	.1886827	836.2591	.4700825	.2753218	.6304850	168.7567
Stddev	.0005222	.0004103	3.5213	.0008335	.0015581	.0020360	.5805
%RSD	.2844200	.2174681	.4210717	.1773140	.5659308	.3229308	.3439743
#1	.1841180	.1891122	840.1585	.4707009	.2770210	.6322022	169.1127
#2	.1830751	.1882947	835.3068	.4691346	.2739601	.6282358	169.0704
#3	.1836461	.1886412	833.3119	.4704121	.2749843	.6310171	168.0868

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.879889	40.90524	.6875692	.0749946	7.207957	.4981486	.4051835
Stddev	.002329	.17369	.0009786	.0000223	.033766	.0020145	.0013440
%RSD	.1238906	.4246082	.1423310	.0297320	.4684557	.4043928	.3316882
#1	1.882497	41.10555	.6883666	.0749689	7.212896	.4991271	.4042946
#2	1.879150	40.79648	.6864771	.0750085	7.238981	.4958318	.4045264
#3	1.878019	40.81369	.6878640	.0750065	7.171993	.4994870	.4067296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.96111	.3461903	.3783960	.6063423	6.500460	7.104501	10.94526
Stddev	.16975	.0013824	.0012555	.0015428	.030593	.022327	.04973
%RSD	.4855263	.3993078	.3317819	.2544443	.4706225	.3142591	.4543511
#1	34.89822	.3472272	.3797229	.6078476	6.535521	7.117594	10.99331
#2	35.15333	.3467228	.3772269	.6047646	6.486669	7.117188	10.94847
#3	34.83179	.3446209	.3782382	.6064149	6.479191	7.078722	10.89400

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02MSD Acquired: 5/9/2025 14:50:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	9.693540	.2692850	6.334062
Stddev	.015802	.0002827	.075020
%RSD	.1630153	.1049636	1.184397
#1	9.708284	.2692874	6.419454
#2	9.695476	.2695664	6.278748
#3	9.676859	.2690011	6.303985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3137.722	70064.76	16113.44	2814.438	3921.589
Stddev	10.302	204.05	25.39	11.235	9.914
%RSD	.3283288	.2912330	.1576013	.3992060	.2528054
#1	3127.390	70177.92	16084.96	2817.643	3910.629
#2	3147.994	69829.20	16121.64	2801.948	3929.932
#3	3137.781	70187.16	16133.72	2823.722	3924.206

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02A Acquired: 5/9/2025 14:54:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8824774	1.866051	1.101283	1.842363	.7467092	111.0819	1.414726
Stddev	.0062992	.023920	.000387	.004231	.0040208	.1231	.002408
%RSD	.7138061	1.281851	.0351703	.2296457	.5384671	.1107846	.1701780
#1	.8874750	1.874825	1.101130	1.847184	.7504914	111.1075	1.416845
#2	.8845554	1.884345	1.100996	1.839266	.7424861	111.1901	1.412108
#3	.8754017	1.838983	1.101724	1.840641	.7471500	110.9480	1.415224

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1894734	.1897038	882.4723	.4821196	.2743289	.6149186	154.1970
Stddev	.0013813	.0006925	2.7340	.0020115	.0009981	.0024513	.5392
%RSD	.7290079	.3650159	.3098082	.4172092	.3638475	.3986348	.3496801
#1	.1910260	.1893320	882.5100	.4828144	.2735407	.6144320	153.6990
#2	.1883808	.1892766	879.7197	.4798529	.2739947	.6127471	154.1224
#3	.1890135	.1905027	885.1872	.4836916	.2754512	.6175767	154.7697

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.882408	41.79630	.6889775	.0756504	7.212637	.5273037	.3987870
Stddev	.001195	.07455	.0025067	.0001838	.030013	.0035720	.0026996
%RSD	.0634734	.1783664	.3638235	.2429292	.4161148	.6774054	.6769419
#1	1.883780	41.88200	.6876882	.0756930	7.177987	.5311398	.4017253
#2	1.881601	41.74649	.6873779	.0758091	7.230501	.5240732	.3964166
#3	1.881841	41.76039	.6918664	.0754491	7.229424	.5266981	.3982190

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.42115	.3542168	.3795735	.6649976	7.538083	9.236305	11.36805
Stddev	.15801	.0017001	.0000915	.0016767	.008325	.076796	.03433
%RSD	.4590554	.4799666	.0241046	.2521420	.1104392	.8314548	.3019602
#1	34.23928	.3549559	.3795892	.6630792	7.542084	9.227012	11.36494
#2	34.52479	.3522722	.3796561	.6661833	7.543652	9.164579	11.40382
#3	34.49938	.3554222	.3794751	.6657302	7.528513	9.317325	11.33538

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-02A Acquired: 5/9/2025 14:54:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	10.43794	.2702240	7.115953
Stddev	.01956	.0010605	.043914
%RSD	.1874143	.3924529	.6171250
#1	10.45975	.2714425	7.163512
#2	10.42193	.2695090	7.107407
#3	10.43214	.2697205	7.076939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3136.838	70239.02	15502.33	2817.112	3921.157
Stddev	9.738	125.65	70.94	15.118	13.747
%RSD	.3104471	.1788955	.4576217	.5366478	.3505771
#1	3141.173	70228.40	15420.42	2802.035	3926.953
#2	3143.656	70369.64	15543.38	2832.270	3931.057
#3	3125.685	70119.01	15543.20	2817.031	3905.462

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV02 Acquired: 5/9/2025 14:59:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.909349	4.863252	4.894178	4.944806	4.950099	9.738270	10.14024
Stddev	.006364	.068129	.015896	.008873	.015761	.053396	.05789
%RSD	.1296297	1.400898	.3247869	.1794451	.3183948	.5483139	.5708724
#1	4.909623	4.789533	4.877984	4.940552	4.938879	9.710577	10.13577
#2	4.902852	4.876328	4.894793	4.938860	4.943299	9.704410	10.08472
#3	4.915572	4.923895	4.909757	4.955005	4.968118	9.799824	10.20023

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2335457	2.422114	24.51232	.9933927	2.426073	1.235297	5.255705
Stddev	.0008405	.004600	.14921	.0027634	.005805	.001903	.029734
%RSD	.3598698	.1899267	.6087291	.2781747	.2392840	.1540255	.5657466
#1	.2327006	2.419767	24.43231	.9950534	2.423086	1.235864	5.273912
#2	.2335550	2.419161	24.42018	.9902027	2.422370	1.233175	5.221393
#3	.2343814	2.427414	24.68448	.9949219	2.432764	1.236852	5.271810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.438674	23.91559	2.437950	1.246369	26.10701	2.461456	2.519092
Stddev	.017841	.14210	.004988	.005953	.19746	.008920	.012083
%RSD	.7315940	.5941821	.2045864	.4775916	.7563626	.3623815	.4796533
#1	2.429841	23.82227	2.434826	1.248711	26.24078	2.460036	2.523905
#2	2.426972	23.84538	2.435321	1.239602	25.88022	2.453330	2.505345
#3	2.459208	24.07914	2.443702	1.250795	26.20004	2.471000	2.528027

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.92233	4.673180	4.968522	4.861823	4.936530	5.267139	4.884637
Stddev	.18640	.021497	.011090	.015428	.026529	.035512	.021683
%RSD	.7190735	.4599994	.2232064	.3173397	.5374094	.6742166	.4439055
#1	26.04086	4.649882	4.962179	4.851814	4.930331	5.276935	4.881538
#2	25.70748	4.677411	4.962059	4.854064	4.913648	5.227757	4.864670
#3	26.01866	4.692247	4.981327	4.879591	4.965610	5.296724	4.907703

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV02 Acquired: 5/9/2025 14:59:12 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.797180	4.883388	4.974594
Stddev	.013689	.020840	.060298
%RSD	.2853483	.4267457	1.212120
#1	4.794589	4.870893	5.003288
#2	4.784972	4.871825	4.905308
#3	4.811979	4.907445	5.015187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3257.206	72043.92	15325.10	2894.639	4588.704
Stddev	4.018	471.69	65.67	14.257	10.426
%RSD	.1233618	.6547292	.4284862	.4925307	.2272067
#1	3261.352	71686.16	15355.57	2887.697	4600.474
#2	3256.935	72578.47	15370.01	2911.037	4585.013
#3	3253.329	71867.13	15249.74	2885.183	4580.626

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB02 Acquired: 5/9/2025 15:03:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0020542	.0010836	.0001188	.0042249	.0006781	.0136174	-.002320
Stddev	.0014239	.0011688	.0015627	.0019923	.0009120	.0075540	.000544
%RSD	69.31726	107.8674	1315.667	47.15544	134.4877	55.47325	23.44839
#1	.0010799	.0020630	-.000446	.0019569	-.000230	.0114968	-.001718
#2	.0013944	-.000210	-.001083	.0056925	.001594	.0073503	-.002463
#3	.0036883	.001398	.001885	.0050252	.000670	.0220051	-.002778

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000007	.0002885	.0159602	.0003629	-.000040	-.000026	.0205969
Stddev	.000075	.0000311	.0021528	.0004890	.000138	.000414	.0052657
%RSD	1125.232	10.77203	13.48870	134.7276	343.9909	1601.998	25.56549
#1	.000065	.0002716	.0163974	.0003011	-.000095	.000028	.0163204
#2	-.000002	.0002696	.0136224	-.000092	.000117	.000359	.0264782
#3	-.000084	.0003244	.0178609	.000880	-.000142	-.000465	.0189920

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038298	-.002451	.0000719	-.000047	-.086305	-.002203	.0015945
Stddev	.0001522	.005486	.0002422	.000040	.004075	.003064	.0000942
%RSD	3.975338	223.8128	336.6546	85.58990	4.721515	139.1007	5.906429
#1	.0037350	-.000258	-.000196	-.000079	-.090998	-.005431	.0016813
#2	.0040054	.001599	.000274	-.000002	-.083657	.000666	.0016079
#3	.0037490	-.008694	.000138	-.000059	-.084262	-.001844	.0014944

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.058310	.0084726	.0004151	.0030314	.0007322	-.002305	.0000627
Stddev	.019563	.0001960	.0002911	.0004355	.0008868	.003292	.0020721
%RSD	33.54953	2.312921	70.11102	14.36633	121.1203	142.8466	3306.092
#1	-.058584	.0082716	.0006739	.0027248	.0000607	-.002045	.0023960
#2	-.077735	.0086631	.0001000	.0028395	.0017375	.000850	-.001563
#3	-.038612	.0084830	.0004714	.0035299	.0003984	-.005719	-.000645

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB02 Acquired: 5/9/2025 15:03:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0071539	.0000902	.0005130
Stddev	.0047333	.0010371	.0000316
%RSD	66.16373	1149.708	6.155011
#1	.0036009	-.000451	.0005079
#2	.0125271	.001286	.0004843
#3	.0053338	-.000564	.0005468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3318.563	74302.14	15220.36	3000.316	4838.384
Stddev	10.412	105.02	15.93	7.287	10.557
%RSD	.3137370	.1413468	.1046503	.2428723	.2181969
#1	3318.500	74189.35	15234.09	2997.045	4842.033
#2	3308.183	74319.94	15224.10	3008.665	4826.487
#3	3329.006	74397.12	15202.90	2995.237	4846.633

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-03 Acquired: 5/9/2025 15:07:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0305752	.0056025	.0115840	.0510167	-.006977	F 2150.890
Stddev	.0020614	.0034594	.0072991	.0181578	.006679	2.509
%RSD	6.742085	61.74741	63.00971	35.59181	95.72103	.1166548
#1	.0302118	.0095891	.0198539	.0558659	-.007987	2153.170
#2	.0287196	.0038265	.0088575	.0662575	-.013093	2148.202
#3	.0327941	.0033918	.0060407	.0309266	.000149	2151.299

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2421630	.0043221	-.000371	49.68052	.1706211	.1072396
Stddev	.0015213	.0000720	.000875	.09761	.0009266	.0004481
%RSD	.6282125	1.665725	235.7252	.1964676	.5430426	.4178813
#1	.2404199	.0042534	-.000723	49.58660	.1695709	.1067625
#2	.2428458	.0043970	.000625	49.78143	.1709688	.1073045
#3	.2432233	.0043159	-.001015	49.67352	.1713234	.1076517

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0800663	95.33065	2.560018	182.6750	.2765556	.0007060
Stddev	.0012596	.70984	.006391	.5419	.0012885	.0002315
%RSD	1.573252	.7446095	.2496272	.2966729	.4659073	32.79035
#1	.0786196	95.48940	2.553047	182.2469	.2755628	.0005253
#2	.0806590	94.55487	2.565600	183.2843	.2760923	.0006257
#3	.0809202	95.94767	2.561405	182.4937	.2780117	.0009669

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2006.884	.2793940	.2690618	39.39515	.0643973	-.002881
Stddev	10.737	.0011461	.0006318	.31669	.0016187	.001311
%RSD	.5350035	.4102049	.2348195	.8038776	2.513651	45.51329
#1	2017.754	.2792213	.2691155	39.33864	.0646547	-.001433
#2	1996.286	.2783440	.2696651	39.11053	.0626653	-.003989
#3	2006.613	.2806166	.2684048	39.73629	.0658719	-.003222

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-03 Acquired: 5/9/2025 15:07:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000412	.5531115	F 28.64271	6.172886	F 46.65452	.0705812
Stddev	.004285	.0032530	.18038	.024252	.20125	.0010417
%RSD	1040.442	.5881246	.6297624	.3928802	.4313592	1.475814
#1	.003589	.5494010	28.58985	6.144896	46.42227	.0706291
#2	.000109	.5544606	28.49467	6.187631	46.77744	.0695165
#3	-.004933	.5554729	28.84362	6.186132	46.76385	.0715982

Elem	Sr4077
Units	ppm
Avg	.1164376
Stddev	.0008293
%RSD	.7122298
#1	.1155461
#2	.1171861
#3	.1165806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.703	59707.71	14663.22	2569.935	3463.080
Stddev	11.916	109.57	84.80	6.646	12.456
%RSD	.4008634	.1835103	.5782998	.2586238	.3596790
#1	2985.762	59651.61	14686.42	2577.609	3476.956
#2	2969.930	59833.97	14569.24	2566.041	3459.419
#3	2962.418	59637.55	14734.00	2566.154	3452.865

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1968-01 Acquired: 5/9/2025 15:12:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0309883	.0128169	.1349284	-.036044	-.008036	100.7032	1.106936
Stddev	.0030508	.0011610	.0012206	.004861	.001416	.3361	.005233
%RSD	9.844990	9.058091	.9046279	13.48547	17.62289	.3337367	.4727619
#1	.0275676	.0126628	.1356753	-.035582	-.009526	100.9934	1.112686
#2	.0334277	.0117407	.1335198	-.041120	-.007874	100.3349	1.102453
#3	.0319696	.0140473	.1355901	-.031431	-.006708	100.7811	1.105667

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108033	-.008766	17.70210	.2060654	.1172633	.2466348	255.4939
Stddev	.0001197	.000175	.06102	.0005794	.0006392	.0011136	.4907
%RSD	1.107709	1.998493	.3446793	.2811717	.5450776	.4515084	.1920456
#1	.0106966	-.008913	17.76266	.2067182	.1168583	.2462948	255.4296
#2	.0109327	-.008572	17.64064	.2058655	.1169314	.2457310	255.0385
#3	.0107805	-.008815	17.70301	.2056123	.1180001	.2478788	256.0135

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.015960	54.61293	.2577507	.0003169	2.915054	.2708436	.5799629
Stddev	.015852	.11952	.0011760	.0000841	.008735	.0009777	.0009738
%RSD	.2259488	.2188581	.4562668	26.53914	.2996654	.3609783	.1679081
#1	7.013594	54.67171	.2565101	.0003990	2.916910	.2715653	.5809444
#2	7.001424	54.47540	.2578925	.0002309	2.905540	.2697309	.5799473
#3	7.032863	54.69168	.2588493	.0003209	2.922712	.2712346	.5789970

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.80830	.1462103	.0027195	.0027591	3.013628	3.718892	6.591254
Stddev	.08302	.0014652	.0003098	.0012968	.007988	.024521	.021064
%RSD	.4661798	1.002118	11.39020	47.00147	.2650595	.6593654	.3195678
#1	17.73581	.1463203	.0027707	.0012710	3.021097	3.690651	6.568169
#2	17.79022	.1446932	.0023873	.0036476	3.005206	3.731243	6.596168
#3	17.89887	.1476174	.0030004	.0033586	3.014582	3.734782	6.609427

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1968-01 Acquired: 5/9/2025 15:12:04 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.4200341	.4078223	-.135893
Stddev	.0077992	.0013678	.000297
%RSD	1.856797	.3353911	.2183517
#1	.4122924	.4094009	-.135602
#2	.4278895	.4069904	-.135882
#3	.4199204	.4070755	-.136195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3593.129	80235.76	16545.57	3245.647	4496.349
Stddev	13.597	109.99	46.26	3.897	13.415
%RSD	.3784276	.1370874	.2795694	.1200806	.2983566
#1	3595.166	80323.49	16492.56	3248.983	4502.019
#2	3605.592	80271.43	16566.38	3246.595	4505.997
#3	3578.628	80112.36	16577.76	3241.363	4481.029

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1968-05 Acquired: 5/9/2025 15:16:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0943563	.0023131	.9517053	-.048558	.0608200	88.07642	1.006463
Stddev	.0026354	.0038713	.0027436	.001813	.0041617	.36493	.004285
%RSD	2.793061	167.3596	.2882772	3.733096	6.842652	.4143323	.4257718
#1	.0939037	-.000347	.9525822	-.049057	.0581156	88.48872	1.011149
#2	.0971887	.000532	.9486305	-.046548	.0587320	87.79489	1.002743
#3	.0919765	.006754	.9539032	-.050068	.0656123	87.94565	1.005497

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085906	-.003762	197.5124	.2013024	.1746418	1.031748	246.4492
Stddev	.0002765	.000151	.9947	.0013277	.0006243	.002140	.6591
%RSD	3.219201	4.010577	.5036190	.6595650	.3574538	.2073925	.2674508
#1	.0088615	-.003658	198.5863	.2012302	.1740896	1.030859	245.8573
#2	.0086016	-.003935	197.3284	.2026648	.1745166	1.030196	247.1595
#3	.0083087	-.003694	196.6226	.2000123	.1753192	1.034189	246.3310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.790676	71.52917	.3518394	-.000111	10.03154	.3338429	2.787844
Stddev	.020405	.35040	.0004991	.000486	.03223	.0019418	.009350
%RSD	.3523853	.4898730	.1418680	438.3769	.3212638	.5816409	.3353998
#1	5.813502	71.87609	.3512814	-.000092	9.99526	.3328590	2.798165
#2	5.784325	71.53604	.3519934	.000366	10.04252	.3325901	2.779938
#3	5.774202	71.17538	.3522434	-.000606	10.05684	.3360797	2.785429

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.37103	.4732826	.0128655	.2338852	5.814662	4.916964	8.827096
Stddev	.06068	.0030005	.0001614	.0014663	.023486	.028662	.009476
%RSD	.5336194	.6339874	1.254356	.6269160	.4039085	.5829213	.1073474
#1	11.31298	.4765959	.0130424	.2334976	5.840778	4.883908	8.836948
#2	11.36608	.4725034	.0127263	.2355064	5.795276	4.932079	8.826292
#3	11.43403	.4707485	.0128278	.2326518	5.807931	4.934904	8.818048

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1968-05 Acquired: 5/9/2025 15:16:52 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.639251	.2690833	.1144380
Stddev	.006069	.0008778	.0016033
%RSD	.3702516	.3262265	1.401000
#1	1.636658	.2683450	.1161292
#2	1.646186	.2688509	.1129402
#3	1.634909	.2700539	.1142445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.331	76648.40	15435.02	3066.744	4159.573
Stddev	6.592	249.40	108.71	7.147	7.854
%RSD	.1964501	.3253775	.7042809	.2330620	.1888269
#1	3356.867	76592.12	15316.76	3058.600	4161.803
#2	3361.018	76431.96	15457.72	3071.973	4166.071
#3	3348.107	76921.13	15530.59	3069.658	4150.844

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-03DLX5 Acquired: 5/9/2025 15:20:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0058068	.0001767	.0085948	.0059450	-.001190	442.4799	.0440784
Stddev	.0049611	.0046020	.0021393	.0089595	.002288	1.1920	.0010667
%RSD	85.43713	2603.700	24.89082	150.7053	192.2180	.2694001	2.419961
#1	.0016640	.0049305	.0069352	.0132369	.001312	443.7576	.0452996
#2	.0044516	-.000143	.0110092	-.004057	-.003175	441.3977	.0433288
#3	.0113046	-.004257	.0078399	.008655	-.001708	442.2844	.0436068

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009517	-.000207	10.03731	.0341497	.0211495	.0185510	17.58611
Stddev	.0000841	.000113	.04036	.0001406	.0003360	.0006065	.04301
%RSD	8.838662	54.72301	.4021490	.4117881	1.588854	3.269536	.2445453
#1	.0009813	-.000161	10.08210	.0339918	.0207940	.0187777	17.63502
#2	.0010171	-.000336	10.02607	.0342613	.0214619	.0178638	17.56908
#3	.0008568	-.000124	10.00375	.0341961	.0211925	.0190116	17.55423

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5276532	36.10316	.0549447	-.000370	395.0940	.0553292	.0508595
Stddev	.0022443	.09768	.0005107	.000353	1.6677	.0019487	.0003674
%RSD	.4253434	.2705689	.9294879	95.28196	.4220922	3.521934	.7223683
#1	.5302310	36.16213	.0545845	-.000777	396.3138	.0575792	.0508845
#2	.5261338	35.99041	.0547205	-.000154	393.1937	.0541837	.0512138
#3	.5265947	36.15696	.0555292	-.000179	395.7745	.0542247	.0504803

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.404445	.0117694	-.000266	-.000052	.1125117	5.033921	1.118025
Stddev	.028855	.0002188	.000381	.001547	.0008266	.037150	.003315
%RSD	.4505507	1.859416	142.9631	2957.568	.7347179	.7379963	.2964753
#1	6.436539	.0115364	-.000112	.001504	.1134204	5.076605	1.114942
#2	6.380646	.0119707	.000013	-.000070	.1118042	5.008880	1.121531
#3	6.396149	.0118010	-.000700	-.001590	.1123105	5.016278	1.117604

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1966-03DLX5 Acquired: 5/9/2025 15:20:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	8.724960	.0158987	.0254999
Stddev	.034059	.0006808	.0002185
%RSD	.3903622	4.282323	.8569407
#1	8.691079	.0166793	.0256973
#2	8.724608	.0154274	.0252651
#3	8.759194	.0155894	.0255373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3088.774	67124.21	14701.43	2822.755	4091.289
Stddev	8.614	123.70	27.58	9.499	7.654
%RSD	.2788840	.1842798	.1876114	.3365198	.1870772
#1	3097.992	67032.12	14669.71	2812.720	4100.123
#2	3087.400	67075.71	14714.83	2831.608	4087.083
#3	3080.929	67264.81	14719.76	2823.936	4086.660

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1947-01 Acquired: 5/9/2025 15:25:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0299832	.0089441	.1575181	-.028951	-.002375	94.66637	.9373878
Stddev	.0016217	.0015367	.0012959	.003134	.001356	.35723	.0049555
%RSD	5.408538	17.18059	.8226714	10.82584	57.08591	.3773524	.5286541
#1	.0298535	.0104029	.1560338	-.031859	-.001445	94.77959	.9410852
#2	.0316658	.0090895	.1584245	-.025631	-.001750	94.95326	.9393212
#3	.0284303	.0073399	.1580960	-.029363	-.003931	94.26625	.9317570

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092302	-.005295	22.91558	.1763693	.0939138	.3833578	172.4714
Stddev	.0000825	.000185	.11844	.0006050	.0001698	.0015754	.1508
%RSD	.8937107	3.486130	.5168417	.3430202	.1807647	.4109394	.0874442
#1	.0093050	-.005508	23.00163	.1769860	.0938352	.3821425	172.5533
#2	.0092439	-.005189	22.96460	.1763453	.0941086	.3827932	172.2973
#3	.0091417	-.005187	22.78050	.1757767	.0937975	.3851376	172.5635

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.949135	39.94476	.2094613	-.000344	2.240045	.2266406	.4863683
Stddev	.004742	.15470	.0007662	.000234	.018723	.0009260	.0008450
%RSD	.2432688	.3872863	.3657956	68.02120	.8358137	.4085992	.1737439
#1	1.948022	40.04428	.2096314	-.000332	2.238590	.2259381	.4855424
#2	1.954334	40.02346	.2086244	-.000583	2.222092	.2276900	.4863312
#3	1.945048	39.76653	.2101282	-.000116	2.259452	.2262937	.4872312

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.18747	.0978422	.0012494	.0074584	1.486953	5.079229	6.775313
Stddev	.02426	.0006490	.0004186	.0008805	.005686	.014511	.047653
%RSD	.2381276	.6632800	33.50159	11.80573	.3824000	.2856878	.7033321
#1	10.16422	.0971124	.0010648	.0076153	1.490373	5.079059	6.765232
#2	10.18557	.0983544	.0017285	.0082498	1.490097	5.064804	6.733508
#3	10.21263	.0980598	.0009548	.0065099	1.480389	5.093824	6.827200

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1947-01 Acquired: 5/9/2025 15:25:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.071451	.2648706	-.040681
Stddev	.017357	.0014590	.000337
%RSD	.8379339	.5508505	.8291393
#1	2.070402	.2652968	-.040668
#2	2.054642	.2660690	-.040351
#3	2.089309	.2632459	-.041025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3559.612	79468.51	16290.88	3227.533	4442.532
Stddev	14.302	224.69	78.52	14.256	13.891
%RSD	.4017738	.2827388	.4819982	.4417006	.3126884
#1	3569.414	79724.31	16297.76	3243.434	4451.426
#2	3566.222	79378.18	16209.14	3215.894	4449.646
#3	3543.202	79303.05	16365.74	3223.271	4426.525

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1947-05 Acquired: 5/9/2025 15:29:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0231599	.0132394	.1425715	-.044687	-.006718	98.90542	1.024215
Stddev	.0016202	.0036915	.0025275	.001217	.002479	.58581	.007060
%RSD	6.995771	27.88263	1.772759	2.724373	36.90553	.5922906	.6893197
#1	.0236696	.0092033	.1445245	-.044349	-.004032	99.20802	1.030610
#2	.0244640	.0140704	.1397169	-.043675	-.008919	98.23020	1.016638
#3	.0213462	.0164446	.1434731	-.046038	-.007202	99.27805	1.025395

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119187	-.006886	28.07440	.2276283	.1211603	.1470061	251.3314
Stddev	.0001089	.000289	.19855	.0000235	.0005888	.0002540	.8443
%RSD	.9136945	4.202056	.7072448	.0103196	.4859710	.1727622	.3359204
#1	.0119026	-.006556	28.21314	.2276470	.1215656	.1472821	250.5989
#2	.0118188	-.007098	27.84696	.2276360	.1214303	.1469538	252.2547
#3	.0120348	-.007003	28.16311	.2276019	.1204849	.1467823	251.1405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.437868	50.78014	.2546069	-.000889	2.894443	.2662459	.5782205
Stddev	.021472	.28114	.0010471	.000261	.020197	.0018335	.0007689
%RSD	.4838246	.5536321	.4112410	29.32876	.6977747	.6886381	.1329738
#1	4.441617	50.90526	.2558131	-.001139	2.875202	.2652649	.5785042
#2	4.414769	50.45817	.2539322	-.000618	2.915476	.2651117	.5773501
#3	4.457218	50.97700	.2540754	-.000911	2.892651	.2683612	.5788072

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.66464	.1200879	.0004594	.0008665	3.239651	3.612349	7.835149
Stddev	.11662	.0018809	.0004710	.0005952	.019929	.018061	.036020
%RSD	.7444906	1.566296	102.5145	68.69114	.6151638	.4999731	.4597253
#1	15.53678	.1189816	.0005139	.0015512	3.259135	3.599222	7.871424
#2	15.76516	.1222597	.0009009	.0004721	3.219305	3.632946	7.834633
#3	15.69200	.1190225	-.000036	.0005763	3.240515	3.604878	7.799390

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1947-05 Acquired: 5/9/2025 15:29:34 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0707695	.4004706	-.143731
Stddev	.0062084	.0015195	.001101
%RSD	8.772773	.3794361	.7662217
#1	.0743358	.4005809	-.143136
#2	.0636006	.3988989	-.145002
#3	.0743720	.4019320	-.143054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3589.754	80259.45	16048.44	3251.202	4431.404
Stddev	7.290	134.74	139.83	6.706	11.989
%RSD	.2030735	.1678757	.8713026	.2062755	.2705570
#1	3581.570	80270.75	15917.90	3257.302	4423.516
#2	3592.142	80119.43	16196.01	3244.021	4425.495
#3	3595.551	80388.19	16031.41	3252.284	4445.201

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1951-01 Acquired: 5/9/2025 15:33:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0705066	.0133620	.5268561	-.030106	-.005618	159.0357	1.128320
Stddev	.0048189	.0023271	.0020553	.006955	.001767	.3148	.003628
%RSD	6.834709	17.41563	.3901055	23.10148	31.44746	.1979312	.3215362
#1	.0752816	.0118240	.5252386	-.024464	-.003819	159.1643	1.130070
#2	.0705933	.0160392	.5261609	-.027978	-.005683	158.6770	1.124149
#3	.0656449	.0122228	.5291689	-.037877	-.007351	159.2659	1.130741

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124030	-.010138	19.39707	.2168042	.1246432	.3246675	264.9965
Stddev	.0000796	.000168	.06059	.0013628	.0002615	.0003150	.6728
%RSD	.6421079	1.660642	.3123478	.6285835	.2098055	.0970091	.2538956
#1	.0124435	-.010266	19.42054	.2155472	.1246605	.3246759	264.7316
#2	.0123112	-.010200	19.32826	.2182525	.1248956	.3249782	265.7614
#3	.0124542	-.009947	19.44241	.2166128	.1243734	.3243484	264.4964

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.991669	42.21531	.2421703	.0025835	9.386867	.3230538	.6937859
Stddev	.004997	.10521	.0004939	.0002610	.031796	.0023159	.0019714
%RSD	.0834033	.2492143	.2039259	10.10281	.3387261	.7168850	.2841523
#1	5.988993	42.21197	.2416909	.0027656	9.370841	.3234404	.6954927
#2	5.997434	42.32214	.2421428	.0027003	9.423487	.3251522	.6942370
#3	5.988579	42.11181	.2426774	.0022845	9.366273	.3205690	.6916280

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.79170	.1238137	.0065963	.0379532	2.384347	2.722582	6.791820
Stddev	.06292	.0016320	.0003089	.0004941	.007477	.016555	.013919
%RSD	.5335920	1.318151	4.682270	1.301795	.3135956	.6080715	.2049395
#1	11.72257	.1237664	.0063438	.0384717	2.388028	2.703799	6.776692
#2	11.80692	.1254688	.0065045	.0374879	2.375743	2.735051	6.794684
#3	11.84562	.1222058	.0069407	.0378999	2.389270	2.728895	6.804085

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1951-01 Acquired: 5/9/2025 15:33:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3.661257	.3606095	-.106382
Stddev	.005473	.0011657	.000980
%RSD	.1494758	.3232485	.9207812
#1	3.667565	.3616757	-.106062
#2	3.658441	.3593649	-.107481
#3	3.657766	.3607879	-.105602

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3491.325	77987.41	16781.07	3166.515	4380.098
Stddev	3.663	444.86	33.17	7.976	4.380
%RSD	.1049156	.5704291	.1976684	.2518785	.1000000
#1	3487.201	78073.45	16755.21	3163.965	4384.581
#2	3492.574	77505.82	16769.52	3160.126	4375.829
#3	3494.200	78382.97	16818.47	3175.454	4379.885

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01 Acquired: 5/9/2025 15:37:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.1078215	.0068289	.5817665	-.025162	-.002226	64.00641
Stddev	.0020463	.0036772	.0041107	.004604	.003674	.08362
%RSD	1.897824	53.84711	.7065877	18.29899	165.0338	.1306440
#1	.1088306	.0043570	.5785010	-.022259	.000499	63.99834
#2	.1091672	.0050751	.5863826	-.030471	-.000774	64.09377
#3	.1054667	.0110547	.5804159	-.022755	-.006405	63.92711

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4023904	.0082974	-.002041	35.67928	.2951654	.0304863
Stddev	.0018307	.0001765	.000280	.09413	.0015261	.0002890
%RSD	.4549518	2.126642	13.74329	.2638239	.5170443	.9480485
#1	.4015255	.0081630	-.002365	35.64349	.2968164	.0308192
#2	.4044933	.0082321	-.001879	35.78605	.2948735	.0303411
#3	.4011525	.0084973	-.001878	35.60829	.2938063	.0302987

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7067961	172.3639	1.454370	10.33716	.1022464	.0014438
Stddev	.0006653	1.0101	.002082	.03987	.0000077	.0001768
%RSD	.0941288	.5860057	.1431444	.3857391	.0075649	12.24451
#1	.7062096	173.3552	1.456448	10.29256	.1022414	.0016166
#2	.7075190	172.4003	1.452285	10.36937	.1022424	.0012633
#3	.7066598	171.3361	1.454378	10.34956	.1022553	.0014515

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1035086	.2936608	2.315999	11.77210	.1096303	.0045692
Stddev	.0066364	.0012246	.013722	.10390	.0010968	.0004722
%RSD	6.411448	.4170132	.5925032	.8825720	1.000442	10.33413
#1	.1098404	.2935896	2.325733	11.88976	.1108567	.0044965
#2	.1040807	.2949194	2.321960	11.69299	.1087434	.0050735
#3	.0966047	.2924733	2.300305	11.73354	.1092909	.0041376

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01 Acquired: 5/9/2025 15:37:48 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0236146	1.346892	F 13.53970	7.112052	3.181532	.1023266
Stddev	.0012741	.004096	.07709	.030993	.012143	.0005737
%RSD	5.395600	.3040970	.5693993	.4357806	.3816569	.5606732
#1	.0231788	1.344315	13.62740	7.137640	3.195030	.1028809
#2	.0250495	1.351615	13.50904	7.120926	3.171499	.1017353
#3	.0226156	1.344748	13.48264	7.077590	3.178065	.1023636

Elem	Sr4077
Units	ppm
Avg	.0667637
Stddev	.0008930
%RSD	1.337528
#1	.0659851
#2	.0665674
#3	.0677385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3411.463	77101.12	15309.67	3087.100	4589.218
Stddev	5.689	439.95	73.98	18.308	9.899
%RSD	.1667532	.5706158	.4832023	.5930528	.2156924
#1	3409.767	76676.31	15342.83	3078.090	4588.027
#2	3406.815	77072.26	15224.92	3075.042	4579.969
#3	3417.807	77554.79	15361.27	3108.167	4599.658

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01DUP Acquired: 5/9/2025 15:41:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0812009	.0042462	.4924431	-.012376	-.000565	53.05379	.3695949
Stddev	.0035320	.0030445	.0016058	.003070	.002682	.11356	.0006029
%RSD	4.349736	71.69888	.3260803	24.80474	474.9230	.2140411	.1631244
#1	.0827135	.0009787	.4935496	-.008883	-.001747	52.98534	.3701392
#2	.0771644	.0070030	.4906014	-.014643	-.002452	52.99117	.3689468
#3	.0837246	.0047569	.4931783	-.013603	.002505	53.18487	.3696986

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061796	-.003134	26.35029	.2244774	.0252041	.6353384	135.1525
Stddev	.0000662	.000139	.04984	.0013508	.0004372	.0004751	.4899
%RSD	1.071257	4.446421	.1891379	.6017412	1.734800	.0747858	.3624996
#1	.0061078	-.003290	26.34002	.2260145	.0254516	.6358582	135.7010
#2	.0061928	-.003092	26.30638	.2239385	.0254613	.6352302	134.9981
#3	.0062382	-.003021	26.40446	.2234793	.0246992	.6349266	134.7584

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.125548	8.005887	.0894951	.0025522	.0851531	.2290653	2.087255
Stddev	.002346	.021726	.0005583	.0002147	.0056094	.0030121	.006599
%RSD	.2084264	.2713732	.6238170	8.414139	6.587440	1.314968	.3161634
#1	1.123903	8.023547	.0889572	.0023960	.0863540	.2324222	2.094791
#2	1.124508	7.981627	.0894563	.0024635	.0900648	.2281749	2.082513
#3	1.128235	8.012487	.0900717	.0027971	.0790405	.2265987	2.084461

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.29811	.0942941	.0040443	.0225470	1.118695	6.750552	5.639992
Stddev	.03561	.0006681	.0001137	.0006737	.000845	.053718	.020657
%RSD	.3457703	.7085725	2.810291	2.987938	.0755219	.7957579	.3662669
#1	10.31430	.0947853	.0039139	.0230935	1.118954	6.796627	5.663260
#2	10.32275	.0935332	.0040969	.0227532	1.117751	6.763480	5.632906
#3	10.25728	.0945636	.0041222	.0217943	1.119381	6.691550	5.623810

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01DUP Acquired: 5/9/2025 15:41:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.607061	.0822800	.0580495
Stddev	.006612	.0003175	.0007196
%RSD	.2536349	.3858282	1.239585
#1	2.604483	.0820010	.0572769
#2	2.614574	.0826254	.0581710
#3	2.602127	.0822136	.0587006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3416.104	75670.00	15873.77	3043.600	4679.652
Stddev	4.140	175.50	46.13	8.039	5.282
%RSD	.1212021	.2319269	.2905905	.2641440	.1128679
#1	3412.185	75469.92	15885.04	3037.387	4678.149
#2	3420.435	75742.24	15913.22	3040.733	4685.523
#3	3415.692	75797.86	15823.05	3052.680	4675.285

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01LX5 Acquired: 5/9/2025 15:46:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0245298	.0008601	.1175001	-.000738	-.000492	13.16069	.0801277
Stddev	.0025257	.0040634	.0008781	.003261	.001033	.19638	.0014545
%RSD	10.29634	472.4567	.7473351	441.8058	209.8442	1.492203	1.815263
#1	.0228388	.0013027	.1183835	-.004198	.000620	13.37698	.0812673
#2	.0274331	.0046841	.1174896	-.000295	-.000676	12.99354	.0784895
#3	.0233176	-.003407	.1166273	.002279	-.001421	13.11155	.0806264

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017589	-.001111	7.558513	.0617880	.0059563	.1493214	36.39172
Stddev	.0000820	.000018	.090713	.0002054	.0001910	.0001718	.27655
%RSD	4.659837	1.659766	1.200143	.3324638	3.207022	.1150657	.7599264
#1	.0017834	-.001114	7.662445	.0617691	.0060210	.1493637	36.69482
#2	.0016675	-.001092	7.495260	.0615927	.0057413	.1494681	36.15313
#3	.0018259	-.001129	7.517833	.0620023	.0061065	.1491324	36.32719

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3074244	2.143784	.0198739	.0003567	-.044455	.0623880	.4949369
Stddev	.0039364	.031150	.0001089	.0001365	.002024	.0011082	.0033971
%RSD	1.280453	1.453039	.5477944	38.25896	4.553998	1.776275	.6863758
#1	.3116170	2.179294	.0197708	.0003957	-.044977	.0634312	.4988546
#2	.3038075	2.130989	.0198632	.0004693	-.042220	.0612246	.4931493
#3	.3068486	2.121069	.0199877	.0002049	-.046167	.0625083	.4928068

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.285980	.0229610	.0007642	.0048879	.2662610	1.556768	1.403839
Stddev	.033554	.0011015	.0002598	.0011096	.0055202	.014616	.008556
%RSD	1.467827	4.797435	33.99855	22.70041	2.073227	.9388843	.6095047
#1	2.280067	.0239155	.0005076	.0058437	.2725979	1.568413	1.397677
#2	2.255775	.0217557	.0010271	.0036711	.2624959	1.540366	1.400231
#3	2.322098	.0232118	.0007580	.0051488	.2636894	1.561524	1.413608

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01LX5 Acquired: 5/9/2025 15:46:06 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.6337967	.0228813	.0139980
Stddev	.0035184	.0005623	.0004600
%RSD	.5551361	2.457679	3.286488
#1	.6355854	.0233900	.0144426
#2	.6297433	.0229765	.0135239
#3	.6360615	.0222774	.0140275

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.175	73646.44	14776.61	2993.651	4723.723
Stddev	3.184	302.84	186.69	20.549	5.161
%RSD	.0961417	.4112048	1.263395	.6864034	.1092607
#1	3308.630	73310.89	14561.11	2970.479	4718.450
#2	3313.104	73899.45	14888.85	3000.818	4723.955
#3	3314.792	73728.98	14879.88	3009.657	4728.764

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV03 Acquired: 5/9/2025 15:50:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.983100	4.961558	4.938935	5.018234	4.996758	9.842527	9.896867
Stddev	.004856	.019640	.013058	.014899	.009878	.038492	.041339
%RSD	.0974480	.3958453	.2643860	.2968878	.1976833	.3910760	.4176981
#1	4.977917	4.983223	4.936333	5.025794	4.989755	9.819731	9.887527
#2	4.987545	4.944919	4.953098	5.027836	5.008057	9.820882	9.860997
#3	4.983839	4.956534	4.927374	5.001071	4.992464	9.886969	9.942077

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2479230	2.451325	24.39898	.9978877	2.451503	1.251644	5.006082
Stddev	.0010084	.005188	.10081	.0047329	.007977	.002274	.047406
%RSD	.4067543	.2116416	.4131754	.4742920	.3254085	.1817036	.9469657
#1	.2479716	2.447573	24.45691	1.001741	2.446552	1.249683	5.035252
#2	.2468912	2.457245	24.28257	.992605	2.460705	1.254137	4.951383
#3	.2489063	2.449156	24.45746	.999317	2.447251	1.251112	5.031612

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.437272	24.14778	2.466739	1.249813	24.99170	2.448499	2.523145
Stddev	.010723	.14565	.006049	.005575	.05472	.003643	.001841
%RSD	.4399606	.6031622	.2452194	.4460328	.2189591	.1487937	.0729694
#1	2.439351	24.22564	2.463814	1.255687	25.03293	2.446687	2.524782
#2	2.425661	23.97975	2.473694	1.244596	24.92962	2.446117	2.523502
#3	2.446802	24.23796	2.462707	1.249156	25.01256	2.452693	2.521152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.88891	4.945038	4.996441	4.922683	4.899808	5.073004	5.029166
Stddev	.06430	.020550	.011979	.010543	.007991	.021809	.010770
%RSD	.2583308	.4155720	.2397532	.2141731	.1630917	.4299108	.2141472
#1	24.95199	4.947854	4.986904	4.918137	4.906007	5.076005	5.032012
#2	24.82346	4.923225	5.009886	4.934736	4.890789	5.049850	5.038226
#3	24.89129	4.964035	4.992534	4.915176	4.902628	5.093158	5.017258

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV03 Acquired: 5/9/2025 15:50:20 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.909143	4.936274	4.932349
Stddev	.019956	.001098	.069221
%RSD	.4065056	.0222413	1.403414
#1	4.892188	4.935447	4.924123
#2	4.931135	4.935856	4.867608
#3	4.904107	4.937520	5.005316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3225.979	71939.28	14510.83	2900.056	4526.912
Stddev	12.971	447.30	80.26	4.600	20.724
%RSD	.4020810	.6217706	.5530932	.1586136	.4578036
#1	3234.582	71608.52	14485.64	2894.867	4540.972
#2	3211.060	72448.21	14600.66	2901.669	4503.112
#3	3232.296	71761.12	14446.19	2903.632	4536.653

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB03 Acquired: 5/9/2025 15:58:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0022851	.0008006	-.000083	.0045258	-.001647	.0032727	-.004765
Stddev	.0013296	.0014688	.000885	.0051080	.001303	.0020267	.000554
%RSD	58.18397	183.4578	1070.478	112.8653	79.11971	61.92849	11.63710
#1	.0037892	-.000838	-.001097	.0089198	-.002961	.0042465	-.004914
#2	.0017995	.001241	.000324	.0057363	-.001626	.0046288	-.005229
#3	.0012666	.001998	.000526	-.001079	-.000355	.0009429	-.004151

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000034	.0001018	.0023206	-.000072	-.000080	-.000108	-.001557
Stddev	.000053	.0000846	.0010397	.000317	.000227	.000138	.006107
%RSD	157.2800	83.08286	44.80355	441.9783	284.2926	128.0007	392.2998
#1	-.000083	.0000312	.0033315	.000019	.000028	.000043	-.003071
#2	-.000040	.0000787	.0012542	-.000424	.000073	-.000227	.005165
#3	.000022	.0001956	.0023762	.000190	-.000340	-.000140	-.006764

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001023	-.011056	-.000176	.0000472	-.104246	-.001288	.0004783
Stddev	.000371	.018815	.000272	.0004231	.001436	.000587	.0000995
%RSD	36.26290	170.1818	154.5942	896.3868	1.377849	45.56819	20.80015
#1	-.000717	-.028024	-.000126	.0005011	-.103434	-.001713	.0004220
#2	-.001436	-.014321	-.000470	-.000336	-.105905	-.000618	.0005931
#3	-.000917	.009178	.000068	-.000023	-.103400	-.001534	.0004197

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.059298	.0018721	-.000005	-.000545	-.000223	-.012430	-.005085
Stddev	.014934	.0003599	.000104	.000333	.000891	.007572	.002232
%RSD	25.18392	19.22342	2001.845	61.19725	398.7810	60.91952	43.89364
#1	-.065638	.0019631	.000067	-.000880	-.001011	-.004917	-.005527
#2	-.042241	.0014755	-.000124	-.000540	.000743	-.012312	-.007062
#3	-.070016	.0021778	.000042	-.000213	-.000401	-.020060	-.002665

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB03 Acquired: 5/9/2025 15:58:36 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0027119	.0003601	.0000048
Stddev	.0045766	.0004566	.0000170
%RSD	168.7553	126.7872	356.9447
#1	-.000923	.0008077	.0000126
#2	.007851	.0003778	-.000015
#3	.001208	-.000105	.000016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3260.976	74652.43	15534.62	3004.630	4716.744
Stddev	4.104	234.09	52.45	14.712	5.225
%RSD	.1258647	.3135731	.3376578	.4896609	.1107731
#1	3265.379	74795.06	15552.21	2999.643	4722.527
#2	3257.255	74382.27	15576.02	2993.059	4712.364
#3	3260.295	74779.97	15475.63	3021.187	4715.339

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01MS Acquired: 5/9/2025 16:02:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8414304	1.986909	1.500794	1.801458	.4345361	69.62022	.6207341
Stddev	.0025585	.009509	.004354	.006246	.0001335	.51606	.0051171
%RSD	.3040670	.4785808	.2900915	.3467321	.0307248	.7412545	.8243664
#1	.8422726	1.975949	1.505531	1.804151	.4344603	69.19722	.6158920
#2	.8434616	1.992964	1.499886	1.794317	.4346902	70.19521	.6260878
#3	.8385569	1.991814	1.496967	1.805906	.4344577	69.46822	.6202224

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776331	.1923525	28.78514	.6458419	.2248653	.9506782	174.0085
Stddev	.0019162	.0006193	.16852	.0030746	.0011784	.0015659	.2311
%RSD	1.078734	.3219519	.5854440	.4760601	.5240424	.1647100	.1327880
#1	.1754215	.1930656	28.61451	.6431463	.2262213	.9524078	174.0608
#2	.1787971	.1920419	28.95147	.6451889	.2240890	.9493570	174.2089
#3	.1786807	.1919499	28.78944	.6491906	.2242858	.9502698	173.7558

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.413462	12.34387	.5914144	.0745635	3.124303	.5412365	2.429269
Stddev	.010902	.08429	.0019868	.0001538	.012962	.0042615	.003222
%RSD	.7712852	.6828331	.3359356	.2063111	.4148861	.7873599	.1326367
#1	1.402760	12.24729	.5936282	.0746187	3.137981	.5373440	2.425805
#2	1.424553	12.40255	.5908286	.0743897	3.112201	.5457897	2.432177
#3	1.413073	12.38179	.5897864	.0746821	3.122728	.5405756	2.429824

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.33886	.3845147	.3795074	.6938791	1.441618	9.330659	12.34095
Stddev	.01237	.0017474	.0007185	.0016116	.011873	.013088	.04575
%RSD	.0488346	.4544424	.1893263	.2322519	.8236101	.1402684	.3707158
#1	25.35305	.3826128	.3803163	.6957161	1.431292	9.316108	12.39377
#2	25.33323	.3848822	.3792627	.6932173	1.454591	9.334401	12.31487
#3	25.33031	.3860491	.3789432	.6927037	1.438969	9.341468	12.31420

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01MS Acquired: 5/9/2025 16:02:57 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.876166	.3012890	.2398519
Stddev	.013390	.0024913	.0026522
%RSD	.4655519	.8268941	1.105759
#1	2.879505	.2991794	.2376889
#2	2.861422	.3040376	.2428109
#3	2.887571	.3006500	.2390558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3348.579	75970.03	16518.43	3065.436	4504.691
Stddev	4.756	213.53	146.27	10.548	10.150
%RSD	.1420238	.2810710	.8855059	.3440800	.2253318
#1	3343.116	76216.32	16680.31	3063.681	4492.975
#2	3351.793	75857.02	16395.76	3055.876	4510.245
#3	3350.828	75836.76	16479.21	3076.751	4510.852

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01MSD Acquired: 5/9/2025 16:06:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8934081	1.984228	1.555232	1.873695	.4461293	76.15789	.6460994
Stddev	.0104898	.018368	.004126	.010118	.0052188	.19243	.0015473
%RSD	1.174136	.9257092	.2652777	.5399986	1.169788	.2526746	.2394750
#1	.8939130	1.983755	1.557303	1.880233	.4446382	76.07554	.6473537
#2	.8826750	1.966101	1.550480	1.862041	.4418184	76.02035	.6443704
#3	.9036364	2.002828	1.557911	1.878812	.4519314	76.37780	.6465740

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1863755	.1995437	50.64005	.6748901	.2330791	1.032280	186.5907
Stddev	.0008138	.0006591	.09083	.0006043	.0009186	.005078	1.6411
%RSD	.4366443	.3302807	.1793695	.0895382	.3941147	.4918972	.8795374
#1	.1854668	.1992730	50.70863	.6742748	.2329788	1.032815	188.2983
#2	.1870371	.1990631	50.53704	.6749128	.2322148	1.026956	185.0253
#3	.1866226	.2002950	50.67449	.6754828	.2340437	1.037069	186.4484

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.667178	15.28834	.6172403	.0762966	3.182040	.5630881	2.539257
Stddev	.007124	.06903	.0018172	.0004104	.031931	.0014299	.002048
%RSD	.4273363	.4515283	.2944111	.5379534	1.003476	.2539467	.0806410
#1	1.660936	15.28185	.6174062	.0766452	3.210025	.5647225	2.541309
#2	1.665659	15.22278	.6153459	.0758442	3.147258	.5620677	2.539250
#3	1.674940	15.36039	.6189690	.0764005	3.188837	.5624742	2.537214

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.08119	.4057909	.3867442	.7185644	1.585080	9.621888	13.09720
Stddev	.13889	.0012245	.0023051	.0020532	.001796	.050836	.06054
%RSD	.5128470	.3017441	.5960365	.2857400	.1132767	.5283384	.4622499
#1	27.18151	.4051305	.3873676	.7203889	1.587145	9.638098	13.13244
#2	26.92267	.4050385	.3841915	.7163410	1.583891	9.564924	13.02730
#3	27.13937	.4072038	.3886735	.7189634	1.584203	9.662643	13.13187

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01MSD Acquired: 5/9/2025 16:06:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3.313161	.3144875	.2591128
Stddev	.013863	.0007771	.0019801
%RSD	.4184190	.2470922	.7641741
#1	3.314655	.3142531	.2568602
#2	3.298612	.3138547	.2598997
#3	3.326217	.3153549	.2605784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.375	75066.55	15988.31	3019.419	4342.514
Stddev	18.635	354.08	39.65	12.618	19.934
%RSD	.5724286	.4716911	.2479851	.4178845	.4590394
#1	3248.889	74773.62	16028.12	3008.115	4340.941
#2	3276.385	75460.04	15988.00	3033.032	4363.188
#3	3240.849	74966.00	15948.82	3017.111	4323.413

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01A Acquired: 5/9/2025 16:10:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8361099	1.919289	1.478726	1.805129	.7676984	60.27133	.5614297
Stddev	.0050759	.009518	.004806	.004638	.0025446	.17188	.0020843
%RSD	.6070817	.4959061	.3249915	.2569581	.3314589	.2851716	.3712399
#1	.8352250	1.928914	1.474399	1.801201	.7666417	60.45661	.5633361
#2	.8415700	1.909882	1.477881	1.803939	.7706011	60.11709	.5592044
#3	.8315347	1.919073	1.483898	1.810246	.7658524	60.24030	.5617487

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1926890	.1897651	32.18445	.6279144	.2182709	.9405368	153.4376
Stddev	.0003045	.0008148	.09068	.0016777	.0012039	.0029219	.3246
%RSD	.1580433	.4293561	.2817600	.2671893	.5515433	.3106576	.2115222
#1	.1924562	.1892481	32.28916	.6265405	.2170651	.9378951	153.6872
#2	.1930336	.1893429	32.13230	.6297842	.2182749	.9400401	153.5549
#3	.1925770	.1907043	32.13188	.6274186	.2194728	.9436751	153.0707

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.479310	10.97440	.5730511	.0708975	2.833279	.5333862	2.360912
Stddev	.002074	.02958	.0021910	.0003601	.002471	.0016691	.008417
%RSD	.1401940	.2695429	.3823336	.5079418	.0872291	.3129181	.3565092
#1	1.479291	10.99371	.5717647	.0707057	2.835909	.5353101	2.352056
#2	1.477246	10.94035	.5718078	.0713130	2.832924	.5323260	2.361871
#3	1.481394	10.98916	.5755809	.0706739	2.831005	.5325224	2.368808

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.77195	.3709239	.4007106	.7153928	1.393925	8.235542	12.15323
Stddev	.04711	.0009161	.0009315	.0036987	.004308	.032703	.04763
%RSD	.2382522	.2469758	.2324694	.5170221	.3090721	.3970936	.3918834
#1	19.82575	.3702274	.3998201	.7126683	1.397407	8.254539	12.11574
#2	19.75200	.3719616	.4006334	.7139068	1.389107	8.254306	12.13712
#3	19.73811	.3705827	.4016783	.7196035	1.395261	8.197780	12.20682

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1952-01A Acquired: 5/9/2025 16:10:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.881383	.2848566	.2495527
Stddev	.004810	.0028058	.0014964
%RSD	.1669271	.9850032	.5996369
#1	2.884103	.2876105	.2509634
#2	2.875829	.2849578	.2479832
#3	2.884216	.2820016	.2497115

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3378.907	75469.01	14974.32	3046.507	4551.847
Stddev	2.408	63.67	42.15	6.952	12.394
%RSD	.0712715	.0843612	.2814851	.2282087	.2722863
#1	3381.658	75398.63	14949.37	3051.345	4561.813
#2	3377.179	75522.58	15022.99	3049.636	4555.758
#3	3377.885	75485.83	14950.62	3038.540	4537.968

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1901-10 Acquired: 5/9/2025 16:15:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0023516	-.003412	.0024292	.0049973	-.001038	.0719856	.4591329
Stddev	.0031066	.001591	.0001887	.0041119	.001317	.0008067	.0028766
%RSD	132.1071	46.63828	7.768894	82.28295	126.8467	1.120664	.6265362
#1	.0002514	-.005238	.0023077	.0025552	-.000593	.0726143	.4618090
#2	.0059201	-.002677	.0026466	.0026920	-.002521	.0722666	.4594989
#3	.0008832	-.002321	.0023332	.0097446	-.000002	.0710760	.4560907

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001306	-.001001	2.808762	.0004586	-.000046	.0097231	15.80217
Stddev	.0000616	.000093	.015395	.0004123	.000196	.0001926	.08535
%RSD	47.16656	9.302436	.5480997	89.89747	427.6334	1.980413	.5401287
#1	.0001078	-.000965	2.815582	.0008916	.000028	.0099376	15.81696
#2	.0000836	-.000932	2.819568	.0004136	-.000268	.0095651	15.71040
#3	.0002003	-.001107	2.791135	.0000707	.000102	.0096667	15.87917

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1194281	2.904229	.0012310	.0001490	371.8069	.0028539	.1811854
Stddev	.0007152	.035237	.0002096	.0001362	2.8098	.0010691	.0012830
%RSD	.5988569	1.213297	17.02661	91.44468	.7557022	37.45967	.7081179
#1	.1202351	2.900910	.0013558	.0000082	373.6469	.0016196	.1811420
#2	.1188727	2.941008	.0013481	.0001585	373.2010	.0034900	.1799246
#3	.1191764	2.870769	.0009890	.0002802	368.5727	.0034520	.1824895

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.698581	.1189562	.0000068	.0000801	.0025043	.6705429	.0296461
Stddev	.027984	.0007131	.0001554	.0008673	.0011998	.0043565	.0047210
%RSD	.7566062	.5994539	2299.913	1082.709	47.91104	.6497050	15.92465
#1	3.727000	.1196404	-.000170	-.000867	.0038060	.6673882	.0337694
#2	3.671054	.1182174	.000070	.000271	.0014425	.6687269	.0306727
#3	3.697687	.1190109	.000120	.000836	.0022645	.6755137	.0244963

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1901-10 Acquired: 5/9/2025 16:15:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8460965	.0040138	.0214278
Stddev	.0062118	.0007998	.0000818
%RSD	.7341761	19.92666	.3815522
#1	.8522341	.0032283	.0214992
#2	.8398130	.0048272	.0214455
#3	.8462422	.0039858	.0213386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3119.711	70447.57	14753.34	2829.976	4327.808
Stddev	5.507	36.77	128.42	5.402	7.031
%RSD	.1765354	.0521885	.8704452	.1909019	.1624654
#1	3119.899	70434.32	14765.41	2831.971	4325.936
#2	3125.123	70419.27	14619.31	2823.859	4335.585
#3	3114.113	70489.13	14875.30	2834.096	4321.902

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1901-11 Acquired: 5/9/2025 16:19:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.004819	-.003587	.0066739	.0091053	-.000939	.3154595	.3747167
Stddev	.005011	.001178	.0011329	.0018545	.001215	.0078956	.0018968
%RSD	103.9751	32.83627	16.97478	20.36785	129.3900	2.502877	.5061860
#1	-.007171	-.004766	.0062859	.0111106	-.002340	.3063722	.3726627
#2	-.008222	-.002411	.0057861	.0087532	-.000177	.3193670	.3750854
#3	.000935	-.003584	.0079498	.0074520	-.000300	.3206394	.3764021

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000134	.0000200	7.522727	.0006705	-.000327	.0115367	.0498984
Stddev	.000021	.0000899	.013918	.0002068	.000216	.0002313	.0030649
%RSD	15.43393	450.4633	.1850158	30.84323	65.91057	2.004881	6.142178
#1	-.000113	-.000017	7.534025	.0004455	-.000563	.0112697	.0525386
#2	-.000155	.000122	7.507179	.0008523	-.000140	.0116662	.0465374
#3	-.000134	-.000046	7.526976	.0007138	-.000278	.0116743	.0506190

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1690994	7.679998	.0003633	-.000392	390.9280	.0004903	.1764322
Stddev	.0006583	.035214	.0001571	.000346	1.0255	.0020329	.0017215
%RSD	.3893104	.4585113	43.24851	88.12731	.2623291	414.6588	.9757290
#1	.1690546	7.666111	.0002035	-.000047	390.1870	.0025839	.1757997
#2	.1697789	7.653845	.0003687	-.000738	390.4987	-.001476	.1783805
#3	.1684646	7.720038	.0005176	-.000392	392.0984	.000363	.1751164

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.722860	.1553978	.0001631	.0014070	.0058734	.5284263	.0528073
Stddev	.029945	.0015312	.0005822	.0011726	.0007043	.0056512	.0012715
%RSD	.8043581	.9853623	356.9968	83.34566	11.99115	1.069439	2.407792
#1	3.690259	.1571427	-.000257	.0004910	.0053996	.5272620	.0534255
#2	3.749140	.1547731	.000828	.0010013	.0055380	.5345689	.0536514
#3	3.729182	.1542778	-.000081	.0027286	.0066828	.5234479	.0513449

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1901-11 Acquired: 5/9/2025 16:19:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.025973	-.002955	.1120894
Stddev	.001692	.000212	.0002644
%RSD	.1649473	7.171881	.2359016
#1	1.027713	-.003194	.1121894
#2	1.024333	-.002790	.1117896
#3	1.025873	-.002882	.1122892

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3125.143	69276.13	14783.17	2796.627	4331.310
Stddev	13.279	367.72	17.69	21.056	20.580
%RSD	.4248977	.5308092	.1196442	.7528904	.4751472
#1	3135.955	69342.12	14765.96	2796.234	4344.554
#2	3129.153	68879.88	14782.26	2775.771	4341.775
#3	3110.322	69606.39	14801.30	2817.877	4307.600

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-01 Acquired: 5/9/2025 16:23:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0364272	.0031330	.0754261	-.083921	-.012241	138.8534	.6895400
Stddev	.0035974	.0042646	.0014063	.002563	.001367	.1922	.0005332
%RSD	9.875599	136.1170	1.864437	3.053591	11.16717	.1384313	.0773197
#1	.0322734	.0075912	.0738024	-.082258	-.010709	138.9178	.6893105
#2	.0384771	.0027150	.0762245	-.082633	-.013336	138.6372	.6891601
#3	.0385311	-.000907	.0762515	-.086872	-.012678	139.0051	.6901495

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0242637	.0300920	24.63491	.0366664	.1693822	.4937681	394.9490
Stddev	.0001784	.0006606	.05196	.0000504	.0005741	.0004602	4.7945
%RSD	.7353572	2.195265	.2109022	.1375536	.3389414	.0931949	1.213961
#1	.0244620	.0297910	24.63185	.0366795	.1696029	.4940068	397.7769
#2	.0241160	.0308495	24.58456	.0366107	.1687305	.4940599	389.4131
#3	.0242132	.0296355	24.68833	.0367090	.1698132	.4932376	397.6569

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.115842	31.12655	.1305410	-.005745	1.273712	.1667363	.7153229
Stddev	.022696	.17009	.0002821	.001311	.019086	.0009510	.0052443
%RSD	.3189485	.5464399	.2161225	22.82606	1.498462	.5703720	.7331359
#1	7.139428	31.30684	.1308266	-.004569	1.253430	.1657035	.7094460
#2	7.094156	30.96895	.1305339	-.007159	1.276384	.1669299	.7169969
#3	7.113943	31.10384	.1302625	-.005506	1.291321	.1675757	.7195259

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.05427	.0701976	.0038427	.0048175	7.840101	4.607617	10.65439
Stddev	.12244	.0031558	.0006112	.0008477	.010168	.043797	.02582
%RSD	1.107662	4.495559	15.90461	17.59662	.1296866	.9505365	.2423799
#1	10.91290	.0696309	.0045382	.0049754	7.839089	4.558468	10.68412
#2	11.12698	.0673636	.0033914	.0055751	7.830477	4.621871	10.63751
#3	11.12293	.0735983	.0035985	.0039019	7.850737	4.642511	10.64154

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-01 Acquired: 5/9/2025 16:23:55 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.5825625	.2425465	-.223217
Stddev	.0112624	.0021787	.004398
%RSD	1.933255	.8982560	1.970410
#1	.5697672	.2438910	-.225810
#2	.5869469	.2400328	-.218139
#3	.5909733	.2437157	-.225703

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5203.866	116949.5	23001.18	4729.378	4299.562
Stddev	4.055	575.9	196.85	23.868	4.240
%RSD	.0779244	.4923957	.8558395	.5046652	.0986042
#1	5200.879	117482.8	22792.97	4750.030	4294.668
#2	5202.237	117026.8	23184.27	4734.857	4301.913
#3	5208.483	116338.9	23026.29	4703.248	4302.105

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-03 Acquired: 5/9/2025 16:28:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0354178	.0146643	.0682510	-.091459	-.014620	115.2923	.5468364
Stddev	.0031487	.0014743	.0010215	.005063	.002308	.1656	.0018791
%RSD	8.890253	10.05365	1.496629	5.535891	15.78467	.1436402	.3436276
#1	.0389625	.0150915	.0677093	-.095529	-.013182	115.1160	.5448632
#2	.0343458	.0130236	.0676144	-.093058	-.013397	115.3163	.5470414
#3	.0329450	.0158778	.0694292	-.085789	-.017282	115.4446	.5486045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240294	.0248276	23.38204	.0404107	.1665117	.5364419	428.0140
Stddev	.0000454	.0005074	.03092	.0001894	.0005594	.0013725	1.1403
%RSD	.1890264	2.043581	.1322243	.4686881	.3359507	.2558548	.2664184
#1	.0240809	.0243097	23.38714	.0402802	.1667948	.5379059	429.1272
#2	.0240125	.0248493	23.34889	.0403240	.1658673	.5351842	426.8484
#3	.0239949	.0253237	23.41009	.0406279	.1668729	.5362357	428.0665

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.870048	27.54113	.1162380	-.005125	1.028181	.1761984	.6868998
Stddev	.011325	.03941	.0005921	.000119	.011007	.0007821	.0021442
%RSD	.1648390	.1430855	.5093757	2.322360	1.070503	.4438631	.3121610
#1	6.876883	27.56858	.1159854	-.005147	1.017883	.1770434	.6874573
#2	6.876285	27.55883	.1169145	-.005231	1.039781	.1760517	.6845319
#3	6.856976	27.49598	.1158142	-.004997	1.026879	.1755000	.6887103

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.624105	.0676552	.0056375	.0069817	6.936228	3.773617	11.31972
Stddev	.058190	.0008888	.0004805	.0026129	.013475	.022606	.01697
%RSD	.7632397	1.313769	8.522824	37.42464	.1942642	.5990544	.1499354
#1	7.556977	.0681348	.0057878	.0039647	6.924371	3.748979	11.33578
#2	7.655114	.0682013	.0050998	.0084782	6.933432	3.778469	11.30197
#3	7.660223	.0666296	.0060247	.0085023	6.950881	3.793403	11.32142

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-03 Acquired: 5/9/2025 16:28:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.6616907	.2508530	-.275373
Stddev	.0092614	.0003589	.001261
%RSD	1.399657	.1430508	.4577795
#1	.6626051	.2508247	-.276745
#2	.6704609	.2505091	-.274266
#3	.6520060	.2512251	-.275108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4835.233	111972.4	21904.94	4479.452	4345.719
Stddev	8.660	174.0	78.65	16.133	4.418
%RSD	.1791027	.1554261	.3590672	.3601641	.1016528
#1	4825.852	112148.6	21815.70	4469.088	4340.725
#2	4836.925	111968.0	21964.19	4498.040	4349.117
#3	4842.922	111800.6	21934.92	4471.228	4347.314

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-05 Acquired: 5/9/2025 16:32:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0405783	.0162927	.0796021	-.083274	-.013205	113.5516	.5534938
Stddev	.0014282	.0013216	.0009996	.002341	.003382	.0314	.0008978
%RSD	3.519559	8.111784	1.255710	2.811213	25.61500	.0276384	.1622129
#1	.0421797	.0177356	.0796745	-.081163	-.015835	113.5380	.5538587
#2	.0401185	.0151408	.0805635	-.085792	-.009389	113.5293	.5541517
#3	.0394366	.0160018	.0785683	-.082866	-.014390	113.5875	.5524709

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227536	.0374907	25.12823	.0262248	.2338986	.7398322	443.1607
Stddev	.0001098	.0005260	.09296	.0001857	.0007646	.0010765	1.9363
%RSD	.4826806	1.402954	.3699496	.7079194	.3268952	.1455014	.4369348
#1	.0228076	.0379676	25.23547	.0264221	.2347028	.7395682	444.3040
#2	.0226272	.0375779	25.07060	.0261988	.2331810	.7410161	440.9250
#3	.0228259	.0369265	25.07862	.0260535	.2338120	.7389124	444.2531

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.986386	24.92265	.1647676	-.000646	.7988968	.1111997	.6195033
Stddev	.020202	.08935	.0003415	.000196	.0076252	.0024636	.0016684
%RSD	.2529501	.3585062	.2072632	30.36853	.9544673	2.215447	.2693121
#1	7.985783	25.01843	.1651425	-.000586	.7914651	.1128085	.6208533
#2	7.966493	24.84155	.1646862	-.000865	.8067018	.1083636	.6176381
#3	8.006883	24.90798	.1644742	-.000487	.7985236	.1124271	.6200184

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.001258	.1196751	.0060382	.0101332	5.723626	2.090843	15.85985
Stddev	.054844	.0012724	.0001445	.0010688	.010482	.004249	.07421
%RSD	.9138828	1.063191	2.392658	10.54703	.1831442	.2031970	.4679048
#1	5.938952	.1184417	.0062050	.0098763	5.735611	2.089370	15.93849
#2	6.042229	.1209832	.0059516	.0092163	5.716168	2.095632	15.84999
#3	6.022594	.1196003	.0059581	.0113070	5.719099	2.087527	15.79106

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-05 Acquired: 5/9/2025 16:32:25 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.5140716	.2490631	-.280744
Stddev	.0006768	.0006147	.001963
%RSD	.1316542	.2468263	.6990828
#1	.5146773	.2497216	-.282145
#2	.5133411	.2489631	-.278501
#3	.5141964	.2485044	-.281585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5733.639	130261.9	27810.68	5244.516	4290.993
Stddev	7.113	120.0	125.26	8.340	10.222
%RSD	.1240559	.0921209	.4503909	.1590313	.2382087
#1	5726.209	130368.3	27690.41	5236.635	4279.203
#2	5740.386	130285.6	27940.39	5253.250	4296.409
#3	5734.320	130131.8	27801.23	5243.663	4297.367

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-07 Acquired: 5/9/2025 16:36:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0467280	.0095562	.2188997	-.050274	-.009312	136.3656	.7436901
Stddev	.0012172	.0042798	.0020714	.005998	.001367	.2025	.0026717
%RSD	2.604897	44.78573	.9462890	11.93135	14.68291	.1484820	.3592493
#1	.0457358	.0112559	.2212540	-.052219	-.007743	136.3819	.7463542
#2	.0480862	.0046877	.2180886	-.055059	-.009943	136.5595	.7437053
#3	.0463619	.0127252	.2173566	-.043545	-.010250	136.1555	.7410109

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151409	.0006496	29.79948	.1052334	.1418584	.3981098	343.6397
Stddev	.0001612	.0005312	.09682	.0004454	.0004635	.0013942	1.1317
%RSD	1.064502	81.77208	.3249017	.4231984	.3266989	.3502029	.3293156
#1	.0150123	.0012561	29.80266	.1049370	.1415852	.3996394	342.3396
#2	.0153217	.0002670	29.89467	.1050177	.1423935	.3969102	344.4040
#3	.0150888	.0004257	29.70111	.1057456	.1415965	.3977797	344.1754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.585364	30.51721	.1503444	.0024292	1.327223	.2885877	.7740328
Stddev	.013097	.14210	.0004368	.0001141	.008963	.0019376	.0017980
%RSD	.2344955	.4656500	.2905279	4.697092	.6753438	.6714097	.2322898
#1	5.574161	30.45320	.1498401	.0024094	1.322563	.2888105	.7719571
#2	5.599764	30.68006	.1505936	.0025520	1.321550	.2904043	.7751110
#3	5.582168	30.41837	.1505996	.0023264	1.337557	.2865484	.7750302

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.957529	.1160374	.0045680	.0055538	5.694636	3.116265	13.34764
Stddev	.048281	.0021171	.0001465	.0004629	.012856	.017079	.02238
%RSD	.6067367	1.824455	3.207837	8.333870	.2257647	.5480552	.1676470
#1	7.902968	.1145952	.0044356	.0059642	5.703525	3.097699	13.36634
#2	7.974889	.1150491	.0047254	.0056451	5.700489	3.131307	13.35374
#3	7.994729	.1184679	.0045429	.0050521	5.679895	3.119788	13.32285

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-07 Acquired: 5/9/2025 16:36:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.384939	.2212431	-.192843
Stddev	.011321	.0005534	.000953
%RSD	.8174208	.2501229	.4942989
#1	1.389472	.2206303	-.191757
#2	1.393291	.2213926	-.193233
#3	1.372055	.2217064	-.193539

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4195.028	95566.45	20532.00	3861.755	4324.711
Stddev	11.342	428.55	57.56	10.228	8.497
%RSD	.2703579	.4484267	.2803301	.2648447	.1964868
#1	4182.094	96058.46	20539.41	3872.848	4314.942
#2	4199.714	95274.71	20471.10	3859.716	4330.387
#3	4203.276	95366.17	20585.50	3852.700	4328.805

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV04 Acquired: 5/9/2025 16:40:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.827473	4.926497	4.900653	4.813044	4.850949	9.874480	9.673033
Stddev	.021351	.060406	.024083	.033703	.031400	.014761	.041532
%RSD	.4422754	1.226143	.4914269	.7002326	.6472899	.1494883	.4293589
#1	4.849738	4.974652	4.921901	4.844699	4.887184	9.881726	9.700819
#2	4.807173	4.858719	4.874492	4.777612	4.831736	9.884218	9.692990
#3	4.825507	4.946119	4.905566	4.816821	4.833926	9.857496	9.625289

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2612520	2.440957	24.62461	.9870569	2.451059	1.229470	4.674128
Stddev	.0012573	.010837	.04943	.0041561	.009620	.006522	.034920
%RSD	.4812632	.4439602	.2007438	.4210560	.3924730	.5304631	.7470846
#1	.2625615	2.451271	24.67882	.9906398	2.459741	1.236609	4.698249
#2	.2611402	2.429664	24.58201	.9880304	2.440717	1.223826	4.634085
#3	.2600543	2.441936	24.61302	.9825005	2.452718	1.227973	4.690049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.452684	24.70017	2.445407	1.226065	23.06022	2.456639	2.460382
Stddev	.003129	.09328	.010731	.004230	.05742	.005952	.002201
%RSD	.1275845	.3776576	.4388235	.3450007	.2490070	.2422642	.0894630
#1	2.452258	24.79125	2.455766	1.229375	23.08114	2.452842	2.460706
#2	2.456005	24.70443	2.434339	1.227520	22.99527	2.453576	2.458037
#3	2.449790	24.60483	2.446117	1.221299	23.10426	2.463498	2.462403

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.04951	5.207858	4.976281	4.883374	4.892345	4.678830	4.978512
Stddev	.06746	.022290	.026622	.022290	.012045	.031039	.027785
%RSD	.2926931	.4280057	.5349870	.4564476	.2461907	.6633867	.5580928
#1	23.07924	5.225864	5.006340	4.901650	4.902994	4.646053	5.002921
#2	22.97229	5.214781	4.955675	4.858541	4.879273	4.707775	4.948276
#3	23.09701	5.182928	4.966829	4.889930	4.894770	4.682661	4.984338

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV04 Acquired: 5/9/2025 16:40:46 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.755989	4.952207	4.905930
Stddev	.029266	.006690	.030390
%RSD	.6153580	.1350844	.6194639
#1	4.786825	4.955660	4.917226
#2	4.728598	4.944497	4.929054
#3	4.752545	4.956465	4.871509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3290.430	73516.56	13652.65	2951.997	4606.629
Stddev	13.693	218.45	59.55	5.741	18.234
%RSD	.4161403	.2971460	.4362062	.1944740	.3958207
#1	3274.856	73373.94	13623.93	2948.152	4589.214
#2	3300.577	73407.70	13612.90	2958.596	4625.584
#3	3295.858	73768.06	13721.12	2949.244	4605.089

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB04 Acquired: 5/9/2025 16:44:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000250	.0031128	-.001295	.0060405	.0003764	.0048322	-.003315
Stddev	.001049	.0004063	.000717	.0035022	.0010974	.0010403	.001084
%RSD	419.2756	13.05176	55.34764	57.97904	291.5912	21.52855	32.69165
#1	-.001430	.0032783	-.000495	.0047425	-.000765	.0059351	-.003360
#2	.000578	.0026499	-.001513	.0033726	.000471	.0038686	-.004376
#3	.000101	.0034102	-.001879	.0100065	.001423	.0046928	-.002210

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	.0001242	-.004584	-.000166	-.000084	.0003078	.0080963
Stddev	.000077	.0001091	.007846	.000374	.000129	.0003304	.0057145
%RSD	113.1652	87.86740	171.1646	225.8507	152.8803	107.3377	70.58159
#1	.000018	.0001513	-.012565	-.000314	-.000232	.0000808	.0045670
#2	-.000131	.0000041	-.004305	.000260	.000003	.0006869	.0146894
#3	-.000091	.0002173	.003119	-.000442	-.000023	.0001558	.0050325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001124	.0009763	.0002626	.0000248	-.089715	-.001976	.0003105
Stddev	.000324	.0060393	.0004877	.0003629	.012739	.001177	.0002720
%RSD	28.85305	618.5609	185.6862	1464.653	14.19940	59.56492	87.58209
#1	-.000845	.0005606	.0002515	-.000394	-.077052	-.000673	.0004223
#2	-.001480	-.004844	.0007558	.000237	-.089565	-.002292	.0000005
#3	-.001048	.007213	-.000219	.000232	-.102529	-.002963	.0005089

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.035804	.0052090	.0000563	-.000401	.0006491	-.013231	.0006787
Stddev	.012118	.0004360	.0001160	.001103	.0008187	.010183	.0051332
%RSD	33.84422	8.369326	205.9528	275.0247	126.1408	76.96796	756.3088
#1	-.040484	.0048655	.0001213	.000538	.0005200	-.001506	-.005222
#2	-.044883	.0050622	-.000078	-.000125	-.000097	-.019863	.003145
#3	-.022044	.0056995	.000125	-.001617	.001525	-.018324	.004114

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB04 Acquired: 5/9/2025 16:44:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0041164	.0010047	.0000331
Stddev	.0051610	.0017776	.0000495
%RSD	125.3760	176.9281	149.5399
#1	-.001316	.0000981	.0000882
#2	.004710	-.000137	.0000185
#3	.008955	.003053	-.000007

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3349.763	74911.81	15578.95	3020.425	4883.825
Stddev	5.252	330.39	36.47	15.440	4.699
%RSD	.1567900	.4410416	.2341140	.5112021	.0962163
#1	3344.592	74552.13	15561.01	3012.992	4878.627
#2	3349.605	74981.50	15620.91	3010.106	4885.076
#3	3355.093	75201.80	15554.91	3038.176	4887.772

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-09 Acquired: 5/9/2025 16:49:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.1257443	.0080251	.3990919	-.065492	-.012052	163.4642	.8061436
Stddev	.0031879	.0029259	.0005160	.004912	.003260	6.3163	.0303071
%RSD	2.535225	36.45881	.1293058	7.500172	27.05069	3.864031	3.759517
#1	.1220632	.0064789	.3992722	-.061401	-.015708	159.4735	.7852729
#2	.1275868	.0113997	.3994936	-.064134	-.010999	160.1727	.7922513
#3	.1275829	.0061967	.3985099	-.070940	-.009448	170.7465	.8409065

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0187510	.0091888	36.81841	.0938106	.1757617	.5036275	390.7089
Stddev	.0006385	.0003744	1.54175	.0002884	.0007812	.0010105	2.3162
%RSD	3.404862	4.074305	4.187453	.3074043	.4444477	.2006361	.5928254
#1	.0182219	.0095035	35.76738	.0934843	.1766578	.5045736	388.5840
#2	.0185709	.0092881	36.09953	.0940315	.1754035	.5025631	390.3648
#3	.0194601	.0087748	38.58831	.0939158	.1752240	.5037456	393.1779

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.683703	35.14887	.1613126	.0023263	1.027956	.2359545	.8638759
Stddev	.280682	1.62770	.0014742	.0003774	.004378	.0105670	.0034128
%RSD	4.199502	4.630876	.9138753	16.22219	.4259241	4.478424	.3950553
#1	6.512883	34.12454	.1626411	.0025757	1.023064	.2274776	.8626204
#2	6.530580	34.29630	.1615700	.0018922	1.029298	.2325925	.8677386
#3	7.007646	37.02576	.1597266	.0025111	1.031506	.2477936	.8612687

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.757127	.1294897	.0078031	.0108361	5.987593	3.217988	12.38311
Stddev	.028976	.0049634	.0002143	.0020043	.232022	.016731	.04723
%RSD	.3308883	3.833074	2.746525	18.49627	3.875044	.5199151	.3814418
#1	8.723917	.1331125	.0075987	.0085391	5.829617	3.211547	12.43738
#2	8.777263	.1315243	.0077844	.0122291	5.879187	3.205435	12.35124
#3	8.770200	.1238322	.0080261	.0117403	6.253976	3.236982	12.36071

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-09 Acquired: 5/9/2025 16:49:19 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.483257	.2562238	-.215318
Stddev	.027784	.0046590	.003950
%RSD	1.118850	1.818345	1.834364
#1	2.512414	.2527891	-.216889
#2	2.457087	.2543552	-.218241
#3	2.480270	.2615270	-.210825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4526.263	101748.0	21769.54	4145.065	4219.185
Stddev	12.398	273.7	799.64	18.381	15.697
%RSD	.2739215	.2690093	3.673201	.4434398	.3720493
#1	4521.031	102064.0	22318.09	4164.343	4202.711
#2	4540.420	101583.6	22138.49	4143.115	4233.969
#3	4517.338	101596.4	20852.04	4127.737	4220.876

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-11 Acquired: 5/9/2025 16:53:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0530079	.0063307	.4942740	-.056815	-.006864	183.0191	.8846504
Stddev	.0044154	.0014134	.0024473	.007897	.001461	.4431	.0018494
%RSD	8.329612	22.32540	.4951359	13.89953	21.28681	.2420786	.2090510
#1	.0579854	.0069368	.4929170	-.054208	-.007501	183.2493	.8867437
#2	.0514753	.0047154	.4970992	-.065685	-.005193	183.2997	.8832380
#3	.0495632	.0073399	.4928058	-.050551	-.007900	182.5084	.8839694

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171177	.0123437	33.15905	.1423024	.1447065	.4291442	296.7181
Stddev	.0001839	.0002989	.10436	.0004835	.0002816	.0025089	1.7047
%RSD	1.074366	2.421544	.3147202	.3397614	.1946056	.5846273	.5745098
#1	.0173066	.0122659	33.27796	.1418656	.1443877	.4268099	296.6274
#2	.0169392	.0126738	33.11651	.1428219	.1448102	.4288255	295.0606
#3	.0171072	.0120914	33.08268	.1422198	.1449216	.4317972	298.4664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.324203	32.05089	.1904043	-.003628	.7670241	.3154882	.8587700
Stddev	.015465	.05459	.0008339	.000545	.0122214	.0018319	.0003891
%RSD	.2445417	.1703215	.4379571	15.03227	1.593356	.5806549	.0453099
#1	6.322506	32.10799	.1895143	-.003802	.7546490	.3164150	.8590438
#2	6.340447	32.04546	.1911676	-.004066	.7673374	.3133781	.8583246
#3	6.309657	31.99921	.1905310	-.003017	.7790859	.3166716	.8589417

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.600977	.0456878	.0089389	.0162250	5.007778	2.341747	12.39238
Stddev	.041148	.0018160	.0003106	.0005831	.012505	.014401	.05731
%RSD	.5413529	3.974816	3.474925	3.593575	.2497130	.6149670	.4624347
#1	7.563785	.0442571	.0091678	.0155858	5.021042	2.330610	12.32787
#2	7.593965	.0450755	.0090636	.0167277	5.006089	2.336620	12.43738
#3	7.645180	.0477308	.0085853	.0163615	4.996204	2.358010	12.41190

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1937-11 Acquired: 5/9/2025 16:53:23 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	3.342128	.2180239	-.136303
Stddev	.013351	.0012512	.002025
%RSD	.3994871	.5738729	1.485824
#1	3.327122	.2175247	-.136299
#2	3.352695	.2170993	-.134279
#3	3.346567	.2194476	-.138330

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4323.057	99596.14	18703.74	3994.156	4329.295
Stddev	8.722	277.78	87.28	12.102	12.127
%RSD	.2017597	.2789065	.4666679	.3029988	.2801212
#1	4329.699	99668.59	18622.87	4003.240	4342.860
#2	4326.293	99830.51	18692.07	3998.809	4325.521
#3	4313.179	99289.31	18796.27	3980.417	4319.503

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-01 Acquired: 5/9/2025 16:57:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0650778	.0078339	.5108590	-.056202	-.010081	156.4673	.8371826
Stddev	.0004110	.0048839	.0022076	.004661	.000700	.3219	.0012934
%RSD	.6316208	62.34269	.4321405	8.292889	6.944535	.2057067	.1544896
#1	.0647191	.0094496	.5121648	-.052249	-.010881	156.6494	.8357132
#2	.0649878	.0023469	.5121022	-.061341	-.009785	156.0956	.8376863
#3	.0655263	.0117052	.5083101	-.055017	-.009578	156.6567	.8381484

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160769	.0071498	89.85762	.1764251	.1323554	.4897653	300.4958
Stddev	.0000519	.0002385	.07794	.0007271	.0003866	.0013633	.4316
%RSD	.3229162	3.336080	.0867385	.4121040	.2921039	.2783680	.1436306
#1	.0161287	.0073126	89.94005	.1772447	.1319449	.4883529	299.9975
#2	.0160249	.0068760	89.78512	.1761726	.1327125	.4898693	300.7543
#3	.0160769	.0072607	89.84771	.1758579	.1324088	.4910736	300.7355

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.403100	43.12768	.2195324	-.002852	1.677357	.3627782	1.578182
Stddev	.020332	.13265	.0010249	.000351	.009212	.0010206	.002326
%RSD	.3175268	.3075807	.4668663	12.31133	.5491763	.2813232	.1473740
#1	6.416053	43.21123	.2195958	-.003184	1.667978	.3620354	1.580866
#2	6.379666	42.97472	.2184772	-.002484	1.686392	.3623573	1.576932
#3	6.413580	43.19708	.2205241	-.002887	1.677701	.3639420	1.576749

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.05696	.1184973	.0115894	.0535113	4.377698	3.201611	17.09902
Stddev	.03675	.0020650	.0003586	.0010823	.007054	.009733	.07759
%RSD	.3323391	1.742626	3.093764	2.022565	.1611390	.3039930	.4537745
#1	11.03629	.1161225	.0115220	.0545888	4.380339	3.196876	17.05286
#2	11.03521	.1194995	.0119769	.0524242	4.369704	3.195151	17.05560
#3	11.09939	.1198700	.0112694	.0535209	4.383050	3.212805	17.18860

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-01 Acquired: 5/9/2025 16:57:28 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	8.498432	.2377057	.0067061
Stddev	.037064	.0007666	.0011018
%RSD	.4361252	.3225131	16.42992
#1	8.506367	.2370557	.0075407
#2	8.458044	.2385511	.0054572
#3	8.530886	.2375101	.0071203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4095.085	92437.41	18157.54	3704.862	4284.303
Stddev	7.133	263.72	93.61	2.872	8.575
%RSD	.1741880	.2852915	.5155472	.0775071	.2001464
#1	4101.734	92132.99	18049.63	3706.709	4291.968
#2	4095.972	92596.03	18216.88	3706.324	4285.899
#3	4087.550	92583.22	18206.13	3701.554	4275.042

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-03 Acquired: 5/9/2025 17:01:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0508796	-.001407	.1555847	-.066837	-.007290	112.8350
Stddev	.0032487	.001983	.0027901	.003262	.001515	.1871
%RSD	6.385029	141.0033	1.793303	4.880132	20.78701	.1658185
#1	.0523683	-.002701	.1577903	-.063549	-.007577	112.7583
#2	.0531172	.000877	.1524481	-.066890	-.008642	112.6985
#3	.0471534	-.002396	.1565156	-.070072	-.005652	113.0483

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6957405	.0160332	.0088972	211.4580	.1136137	.1590293
Stddev	.0018811	.0001251	.0006902	.3431	.0005190	.0013196
%RSD	.2703675	.7801046	7.757551	.1622720	.4567761	.8298054
#1	.6942121	.0159050	.0086505	211.3625	.1133203	.1588473
#2	.6951682	.0161548	.0083643	211.1727	.1142129	.1578101
#3	.6978413	.0160398	.0096769	211.8388	.1133079	.1604305

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5280581	327.2332	5.867872	51.15589	.1882739	-.004534
Stddev	.0011847	1.2892	.006983	.00638	.0005506	.000335
%RSD	.2243424	.3939657	.1190112	.0124752	.2924484	7.377543
#1	.5266963	327.8452	5.865743	51.16108	.1883098	-.004183
#2	.5288508	328.1023	5.862201	51.15782	.1877063	-.004849
#3	.5286272	325.7520	5.875672	51.14877	.1888058	-.004571

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.026126	.2455861	.8388794	12.21551	.1018174	.0086944
Stddev	.012424	.0019942	.0032728	.08289	.0027918	.0001486
%RSD	.6131825	.8120261	.3901332	.6785478	2.741985	1.708667
#1	2.020528	.2442454	.8351031	12.25906	.1025338	.0085236
#2	2.040364	.2446351	.8406446	12.26754	.1041812	.0087660
#3	2.017487	.2478778	.8408907	12.11992	.0987372	.0087936

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-03 Acquired: 5/9/2025 17:01:33 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0046623	6.917742	F 13.57555	14.43533	16.32092	.2024479
Stddev	.0021607	.008661	.04782	.07839	.05424	.0008561
%RSD	46.34395	.1251935	.3522228	.5430299	.3323195	.4228781
#1	.0049177	6.915732	13.59649	14.38524	16.28839	.2027131
#2	.0066840	6.910264	13.60933	14.39509	16.29085	.2031401
#3	.0023853	6.927231	13.52084	14.52567	16.38354	.2014906

Elem	Sr4077
Units	ppm
Avg	.6221214
Stddev	.0019542
%RSD	.3141179
#1	.6206939
#2	.6213216
#3	.6243486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4168.968	94219.22	18697.32	3774.418	4157.209
Stddev	3.452	348.23	75.71	9.657	4.093
%RSD	.0827936	.3695923	.4049080	.2558472	.0984480
#1	4167.129	93891.37	18685.85	3776.374	4158.500
#2	4166.824	94181.55	18778.11	3782.947	4160.501
#3	4172.949	94584.76	18628.00	3763.933	4152.626

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-05 Acquired: 5/9/2025 17:05:38 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0882996	.0108868	.5192204	-.060962	-.010716	241.9315	1.154467
Stddev	.0056124	.0030257	.0032922	.009136	.002561	1.7866	.003306
%RSD	6.356088	27.79289	.6340653	14.98672	23.89516	.7384638	.2863875
#1	.0944706	.0143380	.5230025	-.070512	-.010358	242.9411	1.158281
#2	.0869282	.0096319	.5176611	-.052305	-.013437	242.9847	1.152417
#3	.0835000	.0086903	.5169976	-.060068	-.008354	239.8687	1.152703

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0187949	.0060302	43.05501	.2023493	.1732853	.5143528	370.1274
Stddev	.0000795	.0002697	.19732	.0012262	.0004931	.0019191	.9276
%RSD	.4228541	4.472900	.4583034	.6059674	.2845840	.3731151	.2506286
#1	.0188845	.0058964	43.21113	.2009652	.1730104	.5164298	369.0780
#2	.0187671	.0058536	42.83323	.2032996	.1738547	.5126452	370.4658
#3	.0187330	.0063407	43.12068	.2027830	.1729910	.5139835	370.8382

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.805964	38.26423	.2257726	-.001814	1.006594	.4380663	1.081194
Stddev	.016573	.09330	.0009671	.000418	.014678	.0032297	.002206
%RSD	.2123087	.2438217	.4283663	23.03376	1.458169	.7372650	.2040260
#1	7.802573	38.35926	.2259128	-.001354	.989748	.4416400	1.078804
#2	7.791348	38.17277	.2247430	-.002170	1.013405	.4372028	1.081625
#3	7.823969	38.26066	.2266619	-.001920	1.016630	.4353561	1.083152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.129710	.1044740	.0111564	.0329004	4.660785	3.167439	14.50611
Stddev	.057934	.0021209	.0001659	.0004568	.017115	.021877	.01767
%RSD	.7126230	2.030074	1.486884	1.388370	.3672042	.6906787	.1218411
#1	8.063003	.1020914	.0113344	.0329025	4.673773	3.142202	14.52650
#2	8.158701	.1061559	.0110061	.0333561	4.641392	3.179098	14.49664
#3	8.167425	.1051746	.0111289	.0324426	4.667191	3.181017	14.49519

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-05 Acquired: 5/9/2025 17:05:38 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	5.664885	.2884296	-.134961
Stddev	.016859	.0004451	.000500
%RSD	.2975975	.1543282	.3703145
#1	5.676642	.2884248	-.134413
#2	5.645570	.2879869	-.135392
#3	5.672443	.2888772	-.135078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4176.562	94148.60	19232.38	3804.736	4292.814
Stddev	4.366	137.01	90.80	2.417	6.125
%RSD	.1045259	.1455204	.4721211	.0635235	.1426809
#1	4173.705	94305.90	19133.12	3802.112	4291.221
#2	4174.394	94055.31	19311.27	3806.872	4287.643
#3	4181.587	94084.60	19252.73	3805.224	4299.578

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-07 Acquired: 5/9/2025 17:09:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0487476	.0051474	.1748336	-.066004	-.010740	109.2318
Stddev	.0043581	.0030716	.0033093	.001668	.000933	.0812
%RSD	8.940165	59.67256	1.892840	2.526769	8.682789	.0743569
#1	.0496682	.0016572	.1711142	-.064088	-.010293	109.1764
#2	.0440028	.0063460	.1759338	-.067132	-.011812	109.1939
#3	.0525719	.0074389	.1774526	-.066792	-.010115	109.3250

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6774054	.0153770	.0060368	220.8513	.0966433	.1895519
Stddev	.0019458	.0001132	.0003579	.2993	.0006607	.0004292
%RSD	.2872385	.7362811	5.928963	.1355008	.6836103	.2264139
#1	.6754241	.0154930	.0064425	220.6642	.0971075	.1897583
#2	.6774786	.0153710	.0059023	220.6932	.0969354	.1890585
#3	.6793136	.0152668	.0057656	221.1964	.0958869	.1898390

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5794679	387.8117	6.051567	41.02757	.2060916	.0020120
Stddev	.0003486	2.3027	.005604	.05049	.0004610	.0001876
%RSD	.0601629	.5937742	.0926012	.1230651	.2237063	9.325982
#1	.5798263	385.5932	6.048062	40.97510	.2062937	.0019035
#2	.5794473	387.6516	6.058030	41.03179	.2055640	.0019038
#3	.5791300	390.1903	6.048609	41.07581	.2064170	.0022286

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.851256	.2032112	.7832791	12.51906	.1500672	.0092187
Stddev	.009985	.0001925	.0035920	.06245	.0044000	.0004765
%RSD	.5393855	.0947439	.4585858	.4988785	2.932028	5.169260
#1	1.841505	.2030218	.7857649	12.44695	.1478238	.0090059
#2	1.850803	.2032050	.7849116	12.55618	.1472411	.0088857
#3	1.861461	.2034067	.7791608	12.55404	.1551367	.0097646

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1938-07 Acquired: 5/9/2025 17:09:50 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0089213	6.995218	F 14.10902	12.88313	F 77.34733	.2251313
Stddev	.0001481	.012412	.06171	.00367	.06908	.0011864
%RSD	1.660065	.1774375	.4373818	.0284861	.0893144	.5269655
#1	.0089534	6.988399	14.03899	12.88606	77.34598	.2240420
#2	.0090508	6.987711	14.13261	12.87901	77.27894	.2249566
#3	.0087598	7.009545	14.15545	12.88433	77.41708	.2263954

Elem	Sr4077
Units	ppm
Avg	.6340885
Stddev	.0047525
%RSD	.7495023
#1	.6383311
#2	.6289528
#3	.6349817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4264.903	96801.90	21229.79	3890.676	4151.129
Stddev	4.455	235.29	52.91	4.659	5.226
%RSD	.1044591	.2430621	.2492403	.1197438	.1259042
#1	4260.978	97070.14	21195.06	3895.338	4148.312
#2	4269.745	96630.44	21203.63	3886.020	4157.159
#3	4263.985	96705.11	21290.69	3890.668	4147.915

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167910BL Acquired: 5/9/2025 17:13:56 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000942	-.000180	-.001689	.0046931	.0017923	.0136232
Stddev	.001829	.001514	.001310	.0014332	.0023434	.0027088
%RSD	194.2287	839.5016	77.53095	30.53844	130.7518	19.88383
#1	-.002292	-.001882	-.000697	.0030455	.0023939	.0137718
#2	.001140	.000324	-.001197	.0056518	.0037763	.0108432
#3	-.001674	.001017	-.003174	.0053819	-.000793	.0162547

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003942	-.000040	.0001016	.0196970	.0002843	.0000353
Stddev	.001314	.000009	.0000822	.0079984	.0003040	.0001393
%RSD	33.33863	22.64222	80.86144	40.60718	106.9047	395.0721
#1	-.005062	-.000033	.0000115	.0289282	.0001535	.0000433
#2	-.004268	-.000050	.0001209	.0148286	.0006318	-.000108
#3	-.002495	-.000036	.0001725	.0153343	.0000677	.000170

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004785	.0352741	.0027177	.0074674	.0003032	-.000261
Stddev	.0001863	.0012698	.0001201	.0044867	.0002909	.000377
%RSD	38.94220	3.599761	4.419677	60.08333	95.93339	144.6788
#1	.0006900	.0338634	.0028188	.0066373	.0006219	-.000113
#2	.0003388	.0356336	.0027492	.0123111	.0002354	.000020
#3	.0004066	.0363255	.0025849	.0034538	.0000522	-.000689

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.073074	-.001247	.0006347	-.051035	-.000702	-.000012
Stddev	.006000	.001046	.0001180	.021118	.000765	.000210
%RSD	8.211061	83.87168	18.58610	41.37977	108.9486	1716.884
#1	-.068715	-.001067	.0007520	-.073800	-.001584	.000210
#2	-.070590	-.002370	.0006360	-.032084	-.000301	-.000206
#3	-.079918	-.000302	.0005161	-.047221	-.000222	-.000041

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167910BL Acquired: 5/9/2025 17:13:56 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0050600	.0012912	-.007703	-.001380	F .0115416	.0008349
Stddev	.0001843	.0003138	.007295	.003614	.0031760	.0008360
%RSD	3.642758	24.29968	94.70324	261.9804	27.51772	100.1302
#1	.0050931	.0009346	-.010144	-.001624	.0096460	-.000089
#2	.0052256	.0015251	-.013465	.002351	.0152082	.001538
#3	.0048614	.0014138	.000499	-.004865	.0097707	.001055

Elem	Sr4077
Units	ppm
Avg	.0000845
Stddev	.0000295
%RSD	34.87774
#1	.0000574
#2	.0001159
#3	.0000802

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3290.648	72486.70	15343.04	2945.963	4733.971
Stddev	25.350	1190.48	28.07	46.068	26.121
%RSD	.7703553	1.642340	.1829755	1.563782	.5517750
#1	3265.189	71161.54	15351.93	2893.675	4706.734
#2	3290.868	72832.72	15311.60	2963.635	4736.370
#3	3315.887	73465.83	15365.60	2980.579	4758.810

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167910BS Acquired: 5/9/2025 17:18:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.7712776	1.901889	.9611136	1.936114	.7845470	1.855700
Stddev	.0040943	.012856	.0022459	.001697	.0014858	.011286
%RSD	.5308478	.6759515	.2336734	.0876271	.1893884	.6081560
#1	.7665779	1.887062	.9631813	1.935455	.7838501	1.845020
#2	.7740725	1.908676	.9587243	1.938041	.7835376	1.854574
#3	.7731825	1.909929	.9614353	1.934846	.7862532	1.867507

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1848151	.1957956	.1950147	.9724185	.3912359	.1901173
Stddev	.0010074	.0001757	.0004847	.0049589	.0001621	.0005171
%RSD	.5450712	.0897614	.2485418	.5099511	.0414273	.2720068
#1	.1858790	.1959299	.1950900	.9686657	.3912980	.1896242
#2	.1846905	.1955967	.1944968	.9705495	.3913577	.1900721
#3	.1838759	.1958602	.1954574	.9780403	.3910519	.1906556

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2950424	2.900519	.1901457	1.884798	.4798340	.0724662
Stddev	.0007463	.020485	.0002445	.024538	.0008487	.0003375
%RSD	.2529466	.7062384	.1285894	1.301897	.1768719	.4657434
#1	.2949898	2.883789	.1902817	1.900686	.4797272	.0722765
#2	.2943238	2.894402	.1902919	1.856537	.4790438	.0722663
#3	.2958136	2.923365	.1898634	1.897172	.4807311	.0728559

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.185004	.2853212	.1969765	8.945553	.2960538	.4007129
Stddev	.018643	.0012707	.0005025	.014539	.0013925	.0005086
%RSD	.5853380	.4453474	.2551212	.1625252	.4703386	.1269169
#1	3.163487	.2848905	.1965078	8.935731	.2961087	.4005835
#2	3.195186	.2843219	.1969147	8.938673	.2946346	.4002816
#3	3.196338	.2867513	.1975071	8.962255	.2974179	.4012737

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: PB167910BS Acquired: 5/9/2025 17:18:16 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.6847563	.1955228	.7952369	5.890513	F -.009657	.1975972
Stddev	.0016204	.0014510	.0042766	.053695	.002697	.0023469
%RSD	.2366365	.7421296	.5377799	.9115436	27.92358	1.187736
#1	.6831709	.1944300	.7977796	5.834570	-.007709	.2002137
#2	.6846885	.1971691	.7976316	5.895336	-.012735	.1956778
#3	.6864095	.1949692	.7902994	5.941634	-.008527	.1969001

Elem	Sr4077
Units	ppm
Avg	.1895421
Stddev	.0002237
%RSD	.1180316
#1	.1895582
#2	.1893108
#3	.1897573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3293.640	72848.50	14353.21	2965.652	4751.631
Stddev	3.988	38.62	34.70	12.884	3.291
%RSD	.1210745	.0530125	.2417899	.4344484	.0692565
#1	3292.610	72871.93	14314.08	2975.522	4748.960
#2	3298.042	72869.64	14380.27	2970.359	4755.307
#3	3290.269	72803.93	14365.29	2951.077	4750.625

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1969-01 Acquired: 5/9/2025 17:22:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0621468	.0035321	.1284697	-.023039	-.008906	123.0382	.3129481
Stddev	.0010899	.0015962	.0008060	.008210	.001809	.3102	.0015431
%RSD	1.753766	45.19074	.6273669	35.63412	20.31724	.2521060	.4930951
#1	.0630014	.0049061	.1278544	-.026120	-.006844	122.6929	.3114482
#2	.0625195	.0039090	.1293821	-.013734	-.010227	123.1284	.3145311
#3	.0609194	.0017812	.1281727	-.029262	-.009647	123.2933	.3128652

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080670	-.007838	63.71095	.2334136	.0797711	.2569476	188.5432
Stddev	.0000553	.000251	.14152	.0002989	.0007252	.0016028	.7124
%RSD	.6850910	3.199982	.2221291	.1280610	.9090894	.6237906	.3778667
#1	.0080053	-.007562	63.59679	.2332997	.0805873	.2587915	188.4093
#2	.0080837	-.008052	63.86929	.2331883	.0792008	.2558874	189.3131
#3	.0081119	-.007901	63.66678	.2337527	.0795254	.2561640	187.9072

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.809171	40.33940	.1275465	.0002251	3.628698	.3782101	.2551514
Stddev	.004987	.10667	.0013274	.0002443	.016384	.0007826	.0007927
%RSD	.2756381	.2644240	1.040735	108.5337	.4515038	.2069210	.3106908
#1	1.803683	40.23993	.1288867	-.000037	3.620237	.3778785	.2556968
#2	1.810407	40.45204	.1262323	.000267	3.647582	.3776480	.2542421
#3	1.813424	40.32621	.1275206	.000446	3.618275	.3791040	.2555153

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.70684	.1232680	.0024947	.0009878	3.016338	3.490928	3.991323
Stddev	.04596	.0009686	.0001309	.0013095	.006227	.002922	.022533
%RSD	.3617292	.7857523	5.247242	132.5745	.2064507	.0836987	.5645478
#1	12.65377	.1235402	.0026219	-.000524	3.010829	3.494274	4.006253
#2	12.73326	.1240713	.0025017	.001709	3.023094	3.488881	4.002311
#3	12.73350	.1221924	.0023604	.001778	3.015091	3.489629	3.965403

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1969-01 Acquired: 5/9/2025 17:22:21 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.963178	.1621305	-.058610
Stddev	.009712	.0010456	.000725
%RSD	.4947208	.6449097	1.236531
#1	1.974388	.1609319	-.058834
#2	1.957281	.1626038	-.059195
#3	1.957866	.1628557	-.057799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3325.604	76169.33	15315.06	3016.995	4380.873
Stddev	12.666	156.55	59.16	11.899	23.968
%RSD	.3808487	.2055261	.3863153	.3944016	.5470996
#1	3310.983	76333.34	15380.94	3015.248	4354.453
#2	3332.603	76021.50	15297.78	3006.066	4386.945
#3	3333.225	76153.15	15266.46	3029.671	4401.220

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV05 Acquired: 5/9/2025 17:26:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.941420	4.989258	4.997719	4.925466	4.930991	9.800597	10.41876
Stddev	.026450	.035561	.011790	.027032	.016628	.039720	.10275
%RSD	.5352781	.7127493	.2359137	.5488282	.3372206	.4052806	.9861834
#1	4.915514	4.988128	4.987203	4.894394	4.911886	9.811116	10.52859
#2	4.940364	5.025371	4.995489	4.938423	4.938885	9.833998	10.40270
#3	4.968382	4.954276	5.010465	4.943580	4.942202	9.756676	10.32499

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2422696	2.488619	25.26428	1.013846	2.491067	1.249458	5.446887
Stddev	.0018187	.001587	.17442	.001888	.005242	.003339	.012760
%RSD	.7506917	.0637553	.6903951	.1861774	.2104489	.2672513	.2342686
#1	.2434685	2.488899	25.34699	1.013223	2.489281	1.245921	5.445540
#2	.2431633	2.486911	25.38196	1.012348	2.486951	1.249898	5.460267
#3	.2401770	2.490047	25.06389	1.015966	2.496969	1.252556	5.434853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463839	24.65358	2.493202	1.263373	25.63723	2.513292	2.537152
Stddev	.008913	.11141	.002900	.000506	.10385	.012718	.010254
%RSD	.3617502	.4519140	.1163335	.0400496	.4050694	.5060205	.4041570
#1	2.463657	24.62366	2.490369	1.262974	25.60985	2.516331	2.525404
#2	2.472841	24.77689	2.493070	1.263203	25.54981	2.524215	2.541749
#3	2.455018	24.56018	2.496166	1.263942	25.75202	2.499330	2.544304

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.21577	4.795563	5.034471	4.978801	5.034290	5.278320	5.069512
Stddev	.19428	.033097	.009295	.007316	.031484	.024429	.001802
%RSD	.7704795	.6901501	.1846257	.1469346	.6253844	.4628226	.0355379
#1	25.04752	4.807558	5.025517	4.970866	5.050537	5.250391	5.071180
#2	25.17139	4.820989	5.033824	4.980259	5.054332	5.295712	5.067601
#3	25.42840	4.758141	5.044073	4.985278	4.998002	5.288858	5.069753

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV05 Acquired: 5/9/2025 17:26:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.888889	4.876841	4.901723
Stddev	.008682	.033132	.068302
%RSD	.1775924	.6793754	1.393435
#1	4.890144	4.899026	4.910992
#2	4.879647	4.892741	4.964918
#3	4.896875	4.838756	4.829260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3273.061	72120.68	15067.31	2916.785	4566.668
Stddev	4.761	160.65	109.68	10.624	7.972
%RSD	.1454607	.2227574	.7279120	.3642336	.1745588
#1	3267.567	72299.88	15033.09	2928.817	4557.534
#2	3275.643	72072.62	14978.83	2908.700	4572.220
#3	3275.974	71989.54	15190.02	2912.837	4570.251

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB05 Acquired: 5/9/2025 17:30:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000266	.0025793	.0007522	.0047896	-.000181	.0090866	-.000832
Stddev	.002869	.0002847	.0015034	.0025652	.002401	.0069053	.000713
%RSD	1079.446	11.03618	199.8669	53.55859	1329.607	75.99471	85.68118
#1	-.001783	.0028932	.0024185	.0061534	-.001589	.0012076	-.000209
#2	.003043	.0025069	-.000503	.0063849	.002592	.0140865	-.001609
#3	-.002058	.0023379	.000341	.0018305	-.001545	.0119657	-.000678

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000016	.0003173	.0169513	.0005024	.0003989	.0002421	.0191661
Stddev	.0000410	.0001100	.0034231	.0001164	.0002142	.0002742	.0033793
%RSD	2498.953	34.67185	20.19358	23.17489	53.67987	113.2590	17.63156
#1	.0000317	.0002286	.0194004	.0003827	.0006459	.0004407	.0169776
#2	.0000183	.0004404	.0130399	.0006152	.0002872	-.000071	.0174626
#3	-.000045	.0002829	.0184135	.0005093	.0002638	.000356	.0230581

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045832	.0080370	.0003327	.0001895	-.079288	-.001645	.0020294
Stddev	.0003788	.0034395	.0002524	.0001493	.003588	.000569	.0002793
%RSD	8.265424	42.79542	75.84773	78.75276	4.525722	34.57594	13.76248
#1	.0049615	.0113283	.0000415	.0001800	-.082799	-.002091	.0017178
#2	.0042039	.0083162	.0004880	.0000453	-.075627	-.001839	.0021133
#3	.0045842	.0044664	.0004687	.0003433	-.079440	-.001004	.0022571

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.034858	.0067127	.0009315	.0038060	.0021529	-.002957	-.000245
Stddev	.024126	.0005756	.0001062	.0006003	.0014578	.013828	.003028
%RSD	69.21087	8.574757	11.40151	15.77219	67.71092	467.5684	1235.244
#1	-.061759	.0073607	.0010448	.0038442	.0010168	-.001808	.003141
#2	-.027677	.0062607	.0009153	.0031876	.0016454	.010260	-.002693
#3	-.015138	.0065167	.0008343	.0043863	.0037966	-.017324	-.001183

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB05 Acquired: 5/9/2025 17:30:42 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0062628	.0007294	.0006113
Stddev	.0043170	.0001665	.0000478
%RSD	68.93063	22.83032	7.813772
#1	.0095341	.0005538	.0006424
#2	.0013698	.0008850	.0005563
#3	.0078845	.0007493	.0006353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3295.034	74114.41	14580.17	3020.181	4726.317
Stddev	3.776	167.85	60.01	7.386	5.370
%RSD	.1146018	.2264734	.4115588	.2445636	.1136105
#1	3291.412	74041.15	14520.96	3015.848	4720.977
#2	3298.948	73995.64	14640.94	3015.985	4731.716
#3	3294.743	74306.44	14578.62	3028.710	4726.258

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-01 Acquired: 5/9/2025 17:35:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0439266	.0081163	.1516533	-.024940	-.006217	149.7846	.5912363
Stddev	.0028080	.0022816	.0017835	.003260	.002008	.2960	.0010949
%RSD	6.392442	28.11162	1.176031	13.07027	32.30616	.1975867	.1851897
#1	.0470903	.0058178	.1536679	-.023966	-.008221	149.4428	.5904094
#2	.0417301	.0081505	.1502760	-.028576	-.004204	149.9529	.5924780
#3	.0429592	.0103806	.1510161	-.022279	-.006226	149.9580	.5908215

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100614	-.010570	4.754407	.2107018	.0885830	.1293712	213.6100
Stddev	.0000371	.000160	.019152	.0007430	.0005939	.0010120	.5014
%RSD	.3690165	1.518295	.4028200	.3526324	.6703942	.7822309	.2347069
#1	.0100704	-.010625	4.776293	.2104730	.0892687	.1290822	213.6440
#2	.0100932	-.010389	4.746211	.2115322	.0882442	.1285352	213.0925
#3	.0100206	-.010696	4.740718	.2101000	.0882361	.1304963	214.0935

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.049806	6.698816	.1240940	.0026274	.3300961	.3907926	.2979124
Stddev	.004339	.035703	.0008575	.0006085	.0065901	.0024522	.0022174
%RSD	.4133579	.5329803	.6909771	23.16043	1.996430	.6274948	.7443248
#1	1.044798	6.673820	.1231477	.0024981	.3336542	.3881289	.2960631
#2	1.052440	6.739707	.1243149	.0020940	.3224917	.3929561	.3003707
#3	1.052181	6.682923	.1248194	.0032902	.3341423	.3912928	.2973035

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.278046	.0827271	.0093262	.0071900	1.823084	4.075568	3.765162
Stddev	.025126	.0025063	.0002018	.0002463	.001798	.031249	.012682
%RSD	.7664915	3.029592	2.163659	3.425550	.0986212	.7667420	.3368351
#1	3.254640	.0851804	.0094024	.0070432	1.822149	4.047400	3.779743
#2	3.274901	.0801710	.0094789	.0070525	1.821945	4.070122	3.756691
#3	3.304596	.0828301	.0090975	.0074744	1.825156	4.109182	3.759052

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-01 Acquired: 5/9/2025 17:35:02 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.704890	.1302960	-.161350
Stddev	.008828	.0014201	.000481
%RSD	.5178206	1.089901	.2978397
#1	1.705642	.1290190	-.161589
#2	1.695710	.1300437	-.160797
#3	1.713318	.1318254	-.161664

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3511.996	79173.15	17320.21	3245.954	4510.731
Stddev	6.892	56.64	46.68	9.026	9.875
%RSD	.1962308	.0715389	.2694873	.2780678	.2189165
#1	3519.272	79237.97	17353.22	3256.302	4521.847
#2	3511.151	79133.18	17266.81	3241.854	4507.373
#3	3505.567	79148.32	17340.60	3239.706	4502.973

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-05 Acquired: 5/9/2025 17:39:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0388215	.0031820	.0321755	-.020968	-.003821	14.12327	.0448383
Stddev	.0018414	.0016074	.0006813	.005613	.000844	.03246	.0006290
%RSD	4.743280	50.51589	2.117360	26.76686	22.09277	.2298363	1.402913
#1	.0379304	.0021391	.0313972	-.022872	-.004089	14.12758	.0441332
#2	.0409390	.0023738	.0326633	-.025382	-.004499	14.08887	.0450398
#3	.0375952	.0050332	.0324661	-.014652	-.002876	14.15335	.0453419

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047020	-.009168	2.595733	.0826366	.0288130	.1495089	157.6829
Stddev	.0000844	.000119	.003649	.0002451	.0001288	.0004121	.6850
%RSD	1.794372	1.293628	.1405658	.2965921	.4469739	.2756205	.4344252
#1	.0046079	-.009118	2.592651	.0825145	.0286992	.1492914	157.6986
#2	.0047273	-.009303	2.594787	.0829187	.0287870	.1492511	158.3600
#3	.0047709	-.009083	2.599762	.0824765	.0289528	.1499841	156.9903

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1303110	.2217872	.0284866	.0007657	.0416676	.6027153	.1588680
Stddev	.0005064	.0123721	.0000750	.0001589	.0098163	.0047680	.0007292
%RSD	.3886423	5.578378	.2632641	20.75882	23.55857	.7910859	.4589762
#1	.1304245	.2233163	.0285609	.0007431	.0507261	.5980850	.1582926
#2	.1297575	.2087215	.0284881	.0006192	.0312378	.6024509	.1596880
#3	.1307511	.2333236	.0284109	.0009347	.0430388	.6076100	.1586232

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2555852	.0414367	.0262470	.0109000	.4513962	3.809597	2.078184
Stddev	.0183768	.0017471	.0001225	.0007339	.0026089	.019944	.012788
%RSD	7.190067	4.216314	.4668273	6.733301	.5779613	.5235305	.6153414
#1	.2424870	.0421513	.0261660	.0116135	.4504170	3.820767	2.080738
#2	.2476764	.0427132	.0263880	.0109392	.4494185	3.821453	2.064312
#3	.2765923	.0394456	.0261871	.0101473	.4543530	3.786571	2.089502

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-05 Acquired: 5/9/2025 17:39:10 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.4423768	.0653438	-.073038
Stddev	.0087058	.0011294	.000853
%RSD	1.967965	1.728444	1.167592
#1	.4520900	.0644714	-.073094
#2	.4352771	.0666195	-.073862
#3	.4397633	.0649403	-.072159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.454	78421.56	15444.82	3097.072	4902.960
Stddev	1.418	368.34	54.42	12.439	2.783
%RSD	.0410490	.4696959	.3523695	.4016272	.0567559
#1	3453.025	78233.02	15475.60	3083.387	4904.680
#2	3454.479	78185.65	15476.87	3100.136	4904.450
#3	3455.860	78846.00	15381.98	3107.692	4899.749

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-09 Acquired: 5/9/2025 17:43:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0346453	.0000783	.1175467	-.013140	-.003615	133.5587	.8795423
Stddev	.0011672	.0014214	.0017159	.004159	.002229	.4116	.0031654
%RSD	3.369019	1815.663	1.459747	31.65036	61.66391	.3081695	.3598958
#1	.0344581	-.001327	.1172124	-.017704	-.005673	133.2945	.8759132
#2	.0358947	.001515	.1194051	-.012151	-.003926	133.3488	.8817339
#3	.0335829	.000047	.1160225	-.009565	-.001247	134.0330	.8809798

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084595	-.004027	13.66205	.1587909	.0644383	.1231159	107.1011
Stddev	.0001406	.000099	.04229	.0001897	.0002305	.0002273	.2425
%RSD	1.662171	2.464895	.3095155	.1194763	.3576501	.1845898	.2263973
#1	.0083665	-.003934	13.62722	.1588429	.0646332	.1231714	106.8286
#2	.0083909	-.004132	13.64984	.1589491	.0641839	.1233102	107.1821
#3	.0086213	-.004014	13.70910	.1585805	.0644978	.1228660	107.2928

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4746751	5.628473	.1358753	-.000804	.1709976	.3027995	.3853997
Stddev	.0016606	.027546	.0003035	.000302	.0043736	.0044150	.0008296
%RSD	.3498366	.4894074	.2233561	37.54525	2.557676	1.458046	.2152565
#1	.4742376	5.598814	.1357758	-.001144	.1695002	.2980088	.3863568
#2	.4732771	5.653255	.1362160	-.000566	.1759232	.3036854	.3848862
#3	.4765107	5.633349	.1356340	-.000702	.1675694	.3067043	.3849561

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.614030	.0343528	.0048402	.0072710	.8297861	5.591751	1.611005
Stddev	.034021	.0012761	.0003987	.0005679	.0035757	.039568	.005585
%RSD	1.301464	3.714690	8.237083	7.810592	.4309220	.7076100	.3466779
#1	2.648468	.0357401	.0053002	.0078955	.8266446	5.573639	1.614118
#2	2.613178	.0332292	.0045935	.0067855	.8290366	5.564481	1.604557
#3	2.580443	.0340890	.0046270	.0071319	.8336772	5.637133	1.614340

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-09 Acquired: 5/9/2025 17:43:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	5.040019	.1001903	.0002194
Stddev	.002685	.0004018	.0002064
%RSD	.0532690	.4010821	94.04196
#1	5.038293	.0999285	.0003041
#2	5.043112	.1006529	-.000016
#3	5.038652	.0999893	.000370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3658.471	81121.45	16303.91	3294.621	4610.654
Stddev	7.771	370.54	92.40	9.604	8.033
%RSD	.2124148	.4567692	.5667369	.2915162	.1742375
#1	3656.257	81073.09	16335.18	3290.965	4606.218
#2	3667.108	81513.79	16376.62	3305.516	4619.927
#3	3652.047	80777.47	16199.94	3287.381	4605.816

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-13 Acquired: 5/9/2025 17:47:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0488923	.0013389	.2042068	-.025418	-.007083	62.64109	.4626602
Stddev	.0004778	.0019564	.0014349	.001658	.001905	.12386	.0004620
%RSD	.9772593	146.1153	.7026774	6.524269	26.88853	.1977266	.0998586
#1	.0494186	-.000836	.2026158	-.025027	-.009230	62.58792	.4631472
#2	.0484857	.002956	.2046014	-.027237	-.005597	62.55270	.4622280
#3	.0487726	.001896	.2054031	-.023990	-.006422	62.78266	.4626053

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101209	-.001496	28.97172	.2588402	.3181027	.2821355	148.9942
Stddev	.0000733	.000282	.05125	.0004918	.0005932	.0004353	.4321
%RSD	.7241025	18.85611	.1768992	.1900196	.1864766	.1543030	.2899932
#1	.0101997	-.001493	28.93139	.2589468	.3183694	.2821063	148.5032
#2	.0100548	-.001780	28.95439	.2592699	.3174230	.2817156	149.3163
#3	.0101082	-.001216	29.02940	.2583038	.3185158	.2825848	149.1632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.946015	7.835968	.2570531	-.001287	.3512665	.3915736	.6712764
Stddev	.013695	.013642	.0007691	.000205	.0084808	.0008505	.0008419
%RSD	.2768810	.1740948	.2992009	15.90699	2.414360	.2172042	.1254182
#1	4.935147	7.825457	.2565781	-.001233	.3441270	.3906361	.6721806
#2	4.941503	7.851385	.2566407	-.001115	.3490315	.3917887	.6711335
#3	4.961397	7.831064	.2579404	-.001513	.3606410	.3922958	.6705151

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.103913	.0668486	.0182454	.0130011	1.048463	4.880584	1.668033
Stddev	.010196	.0012790	.0001505	.0009899	.003193	.014926	.002327
%RSD	.3284902	1.913330	.8250881	7.613628	.3045217	.3058316	.1394881
#1	3.095275	.0656423	.0180947	.0120121	1.045277	4.877067	1.665605
#2	3.115160	.0667136	.0182456	.0129994	1.051663	4.896955	1.668252
#3	3.101305	.0681897	.0183958	.0139919	1.048449	4.867731	1.670243

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-13 Acquired: 5/9/2025 17:47:37 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	17.17518	.1232131	.0487261
Stddev	.05267	.0002325	.0006564
%RSD	.3066724	.1887047	1.347082
#1	17.15551	.1231888	.0486752
#2	17.13518	.1229937	.0480966
#3	17.23486	.1234568	.0494064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3962.783	92208.09	17893.41	3693.084	4555.547
Stddev	2.485	164.26	53.35	10.337	5.356
%RSD	.0627101	.1781380	.2981277	.2798935	.1175795
#1	3960.856	92374.84	17882.98	3704.956	4554.770
#2	3965.588	92202.97	17951.21	3686.078	4561.250
#3	3961.906	92046.44	17846.06	3688.218	4550.622

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17 Acquired: 5/9/2025 17:51:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0852688	.0240095	.1601283	-.053422	-.008612	74.14986	.7034999
Stddev	.0019270	.0027059	.0017266	.004973	.001929	.52065	.0046634
%RSD	2.259873	11.27010	1.078227	9.308604	22.40044	.7021640	.6628887
#1	.0840609	.0221764	.1620464	-.058698	-.006406	74.70837	.7081746
#2	.0874910	.0271174	.1586985	-.052744	-.009981	73.67791	.6988479
#3	.0842544	.0227349	.1596400	-.048822	-.009449	74.06331	.7034770

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152028	-.013599	3.953447	.2342175	.2040791	.2463562	353.6457
Stddev	.0001107	.000362	.048433	.0010345	.0008433	.0004940	2.2602
%RSD	.7278966	2.663587	1.225093	.4416765	.4132475	.2005381	.6391002
#1	.0153290	-.013433	4.006654	.2330807	.2042103	.2458383	352.7570
#2	.0151222	-.013350	3.911926	.2351035	.2031778	.2468223	351.9650
#3	.0151573	-.014015	3.941760	.2344683	.2048491	.2464080	356.2151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.713533	17.30344	.2174246	.0021970	.6152607	.3600895	.5807076
Stddev	.035771	.16093	.0010031	.0006145	.0038500	.0009230	.0016883
%RSD	.7588934	.9300304	.4613558	27.96834	.6257592	.2563197	.2907334
#1	4.754439	17.48914	.2173228	.0017492	.6119439	.3604857	.5822783
#2	4.688123	17.20482	.2164763	.0019443	.6143554	.3590346	.5789222
#3	4.698036	17.21636	.2184748	.0028975	.6194827	.3607483	.5809222

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.263730	.1479945	.0036792	.0074922	1.619963	3.787361	3.522761
Stddev	.048248	.0047719	.0002875	.0013773	.013531	.015336	.019055
%RSD	.9166047	3.224406	7.814491	18.38311	.8352788	.4049240	.5409202
#1	5.221343	.1444125	.0034046	.0060088	1.633470	3.781671	3.540704
#2	5.253612	.1461595	.0039781	.0077373	1.606408	3.775684	3.502760
#3	5.316234	.1534116	.0036548	.0087305	1.620012	3.804729	3.524817

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17 Acquired: 5/9/2025 17:51:44 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.286029	.2551727	-.267415
Stddev	.004802	.0011768	.002155
%RSD	.3734333	.4611882	.8058334
#1	1.282281	.2561341	-.266079
#2	1.291442	.2538603	-.266264
#3	1.284362	.2555236	-.269901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3749.913	85149.39	18431.93	3464.948	4522.712
Stddev	5.101	239.49	156.21	14.445	9.643
%RSD	.1360220	.2812602	.8475167	.4168940	.2132202
#1	3748.893	85298.87	18252.49	3453.964	4527.562
#2	3755.447	85276.15	18505.75	3481.311	4528.968
#3	3745.400	84873.16	18537.55	3459.568	4511.606

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17DUP Acquired: 5/9/2025 17:55:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0861929	.0222663	.1898965	-.050271	-.008461	77.93182	.8514545
Stddev	.0055994	.0026587	.0031484	.006349	.001026	.19549	.0019893
%RSD	6.496375	11.94027	1.657974	12.62876	12.13163	.2508518	.2336338
#1	.0853235	.0219343	.1878391	-.053145	-.008731	78.15756	.8518816
#2	.0810791	.0250754	.1883295	-.042994	-.007327	77.81847	.8531954
#3	.0921762	.0197892	.1935210	-.054674	-.009326	77.81944	.8492863

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135744	-.011977	4.500573	.2756662	.2370078	.2639657	328.0229
Stddev	.0001148	.000508	.019664	.0006799	.0008029	.0004892	1.4329
%RSD	.8457240	4.240632	.4369253	.2466459	.3387577	.1853109	.4368258
#1	.0134908	-.011558	4.478740	.2753311	.2369280	.2634492	326.5147
#2	.0135269	-.012542	4.516890	.2764486	.2362479	.2640261	329.3661
#3	.0137053	-.011830	4.506089	.2752189	.2378476	.2644219	328.1880

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.410769	19.88824	.2100081	.0014512	.7343138	.3526747	.6393207
Stddev	.010780	.05389	.0006242	.0004662	.0128142	.0031446	.0017366
%RSD	.1992400	.2709617	.2972115	32.12768	1.745063	.8916550	.2716382
#1	5.422701	19.90081	.2106754	.0011074	.7233174	.3522999	.6377530
#2	5.401731	19.93474	.2094385	.0019819	.7312380	.3559900	.6411875
#3	5.407875	19.82918	.2099104	.0012643	.7483860	.3497343	.6390217

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.666076	.1328450	.0050872	.0111109	1.361994	5.358067	2.940455
Stddev	.036135	.0021737	.0002130	.0013691	.003479	.035985	.017022
%RSD	.6377405	1.636261	4.186192	12.32227	.2554457	.6716104	.5788927
#1	5.668484	.1310130	.0051151	.0095321	1.365712	5.361805	2.958128
#2	5.628797	.1352469	.0052848	.0118289	1.358818	5.392038	2.924168
#3	5.700946	.1322751	.0048617	.0119716	1.361451	5.320359	2.939068

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17DUP Acquired: 5/9/2025 17:55:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.375112	.2694250	-.232634
Stddev	.006046	.0008680	.001599
%RSD	.4396949	.3221500	.6874514
#1	1.371069	.2692909	-.230976
#2	1.372205	.2686319	-.234168
#3	1.382063	.2703522	-.232757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3858.251	85547.63	18392.19	3495.578	4609.008
Stddev	6.093	99.80	78.86	7.752	9.058
%RSD	.1579193	.1166592	.4287833	.2217594	.1965248
#1	3859.784	85541.03	18302.78	3502.550	4607.118
#2	3863.431	85451.29	18421.95	3487.231	4618.862
#3	3851.538	85650.56	18451.85	3496.953	4601.045

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17LX5 Acquired: 5/9/2025 17:59:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0189926	.0049540	.0325533	-.010123	-.002063	16.56230	.1527193
Stddev	.0017337	.0003068	.0015851	.004206	.002336	.11377	.0017726
%RSD	9.128320	6.193058	4.869177	41.54700	113.2136	.6869060	1.160681
#1	.0204326	.0050264	.0324363	-.007148	-.001403	16.45181	.1509240
#2	.0194770	.0052182	.0341937	-.008286	-.000129	16.67908	.1544683
#3	.0170682	.0046175	.0310300	-.014935	-.004659	16.55602	.1527656

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035295	-.004745	.8870750	.0519109	.0398570	.0578120	76.78128
Stddev	.0000920	.000062	.0101509	.0003492	.0000787	.0001375	.11339
%RSD	2.607785	1.306159	1.144313	.6727031	.1973247	.2378576	.1476808
#1	.0036020	-.004686	.8758449	.0518139	.0398503	.0579266	76.66190
#2	.0034260	-.004809	.8897825	.0522984	.0397819	.0578500	76.79439
#3	.0035606	-.004741	.8955976	.0516204	.0399387	.0576595	76.88754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.067156	3.927688	.0430141	-.000242	.0474925	.0793207	.1311979
Stddev	.006994	.055143	.0001337	.000474	.0024022	.0009375	.0012098
%RSD	.6553882	1.403963	.3108183	195.8457	5.057948	1.181888	.9221307
#1	1.059547	3.876281	.0431024	-.000788	.0496210	.0791271	.1321825
#2	1.073305	3.985930	.0430796	.000051	.0479686	.0784952	.1298474
#3	1.068614	3.920854	.0428603	.000012	.0448880	.0803399	.1315639

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.054921	.0278685	.0002743	.0005960	.3637415	.8071147	.6972846
Stddev	.016985	.0005781	.0001910	.0009991	.0013646	.0088132	.0011880
%RSD	1.610070	2.074518	69.61648	167.6273	.3751664	1.091942	.1703777
#1	1.035689	.0285262	.0000900	.0010415	.3623846	.7992355	.6971599
#2	1.067865	.0274408	.0004712	-.000548	.3637263	.8166321	.6961639
#3	1.061209	.0276384	.0002616	.001295	.3651137	.8054765	.6985301

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17LX5 Acquired: 5/9/2025 17:59:58 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.2550308	.0549373	-.057702
Stddev	.0046339	.0014379	.000115
%RSD	1.817002	2.617386	.1984580
#1	.2570494	.0538533	-.057630
#2	.2497300	.0565685	-.057643
#3	.2583130	.0543902	-.057834

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.322	76606.62	15713.10	3092.291	4701.137
Stddev	9.771	110.77	71.67	8.207	10.650
%RSD	.2865045	.1445973	.4560962	.2653914	.2265381
#1	3414.270	76571.90	15776.80	3096.875	4702.876
#2	3399.195	76517.36	15635.50	3082.816	4689.725
#3	3417.501	76730.59	15727.01	3097.182	4710.810

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17MS Acquired: 5/9/2025 18:04:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.7412983	1.946024	1.150098	1.514225	.2899870	86.14488	.8815129
Stddev	.0084730	.015864	.005408	.015687	.0047797	.87515	.0059566
%RSD	1.142993	.8152005	.4701898	1.035978	1.648242	1.015907	.6757283
#1	.7500071	1.963399	1.152830	1.532092	.2922781	85.13487	.8746543
#2	.7408053	1.932312	1.143869	1.507868	.2844930	86.67818	.8844938
#3	.7330826	1.942360	1.153593	1.502714	.2931899	86.62159	.8853906

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1748294	.1900073	4.974074	.5441235	.4479633	.5216584	295.8097
Stddev	.0005566	.0018819	.025228	.0014039	.0027346	.0043083	1.8470
%RSD	.3183520	.9904132	.5071947	.2580110	.6104568	.8258908	.6243745
#1	.1743098	.1920726	4.959399	.5432761	.4509278	.5265018	294.0471
#2	.1754167	.1883896	5.003205	.5433505	.4455392	.5182528	295.6512
#3	.1747618	.1895596	4.959618	.5457441	.4474229	.5202207	297.7308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.705041	20.86347	.7053704	.0613088	3.184693	.5737816	.7814969
Stddev	.076104	.18122	.0052854	.0006475	.019841	.0051191	.0023062
%RSD	1.333978	.8686191	.7493112	1.056137	.6230166	.8921621	.2951041
#1	5.617176	20.66721	.7109477	.0608200	3.164489	.5684304	.7824148
#2	5.750239	21.02449	.7004355	.0610632	3.185441	.5742829	.7788730
#3	5.747707	20.89870	.7047280	.0620431	3.204150	.5786316	.7832028

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.61574	.2926784	.3296417	.6814172	1.513204	6.251358	9.100075
Stddev	.11749	.0031160	.0018989	.0034741	.010184	.061370	.050799
%RSD	.9313274	1.064649	.5760352	.5098337	.6730051	.9816987	.5582310
#1	12.48454	.2893459	.3318277	.6851068	1.501473	6.202077	9.155130
#2	12.65141	.2931700	.3286958	.6782088	1.518374	6.231900	9.055018
#3	12.71126	.2955194	.3284016	.6809358	1.519767	6.320098	9.090076

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17MS Acquired: 5/9/2025 18:04:15 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.471792	.4327785	-.016000
Stddev	.005099	.0030337	.001714
%RSD	.3464780	.7009814	10.71138
#1	1.474960	.4293686	-.017762
#2	1.465910	.4337888	-.014339
#3	1.474507	.4351782	-.015898

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3673.336	86887.66	17302.15	3463.662	4423.119
Stddev	22.516	318.70	97.22	6.388	26.931
%RSD	.6129673	.3667994	.5619192	.1844400	.6088584
#1	3647.348	87178.54	17397.78	3460.139	4394.035
#2	3685.664	86937.45	17203.41	3471.037	4447.191
#3	3686.996	86546.99	17305.27	3459.811	4428.132

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17MSD Acquired: 5/9/2025 18:08:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.7166955	1.852606	1.094308	1.412275	.2604875	85.50292	.9130989
Stddev	.0054940	.025335	.004799	.010904	.0021671	.08710	.0020508
%RSD	.7665722	1.367535	.4385873	.7720931	.8319485	.1018649	.2245984
#1	.7112582	1.823629	1.092847	1.410642	.2589961	85.53770	.9139803
#2	.7165839	1.863617	1.099668	1.402279	.2594930	85.40381	.9107548
#3	.7222445	1.870573	1.090409	1.423903	.2629734	85.56726	.9145617

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1678767	.1760350	5.505300	.7556318	.4049690	.4899688	337.3495
Stddev	.0001619	.0004475	.028647	.0011715	.0010819	.0006313	.6334
%RSD	.0964163	.2542251	.5203497	.1550362	.2671656	.1288394	.1877663
#1	.1680626	.1755259	5.479359	.7558340	.4045589	.4892974	337.9072
#2	.1677669	.1762131	5.500496	.7566891	.4061960	.4900588	337.4806
#3	.1678006	.1763661	5.536046	.7543724	.4041520	.4905503	336.6608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048452	20.36095	.6772211	.0626321	3.544047	.5767614	.7641630
Stddev	.005026	.02184	.0010591	.0004376	.021867	.0015630	.0030817
%RSD	.0995469	.1072812	.1563924	.6987227	.6170022	.2709994	.4032735
#1	5.043196	20.34747	.6760234	.0626794	3.549402	.5783029	.7624735
#2	5.048948	20.34923	.6776056	.0630441	3.562738	.5768035	.7677199
#3	5.053211	20.38615	.6780342	.0621727	3.519999	.5751778	.7622956

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.61176	.3884734	.3233236	.6516414	1.498699	5.602032	8.556315
Stddev	.05849	.0012080	.0009193	.0039267	.006205	.023108	.018679
%RSD	.4296778	.3109496	.2843409	.6025780	.4140008	.4125013	.2183019
#1	13.59093	.3896454	.3226202	.6474235	1.502961	5.617721	8.537187
#2	13.67781	.3885424	.3229867	.6523096	1.491580	5.612879	8.557248
#3	13.56654	.3872324	.3243639	.6551911	1.501555	5.575495	8.574509

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17MSD Acquired: 5/9/2025 18:08:17 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.592433	.4351318	-.059322
Stddev	.017045	.0006320	.001022
%RSD	1.070405	.1452504	1.722956
#1	1.579147	.4357974	-.060217
#2	1.611652	.4350584	-.059540
#3	1.586499	.4345397	-.058208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3779.409	83485.42	17858.02	3414.081	4570.202
Stddev	8.520	402.33	27.22	18.701	8.523
%RSD	.2254306	.4819153	.1524476	.5477561	.1864799
#1	3770.620	83606.71	17884.56	3421.025	4560.436
#2	3787.631	83036.40	17830.16	3392.902	4574.040
#3	3779.976	83813.15	17859.32	3428.317	4576.131

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV06 Acquired: 5/9/2025 18:12:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.840599	4.875816	4.894939	4.822844	4.854675	9.743374	9.727925
Stddev	.018993	.029040	.009370	.003472	.013121	.031085	.038021
%RSD	.3923629	.5955894	.1914296	.0719935	.2702745	.3190345	.3908440
#1	4.818674	4.899225	4.888597	4.826697	4.854096	9.714422	9.700083
#2	4.851121	4.884903	4.890517	4.819958	4.841853	9.739476	9.712449
#3	4.852003	4.843319	4.905702	4.821877	4.868076	9.776224	9.771244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2514638	2.445101	24.57415	.9995004	2.448263	1.227818	4.831943
Stddev	.0011895	.004364	.03407	.0018341	.004152	.003876	.031404
%RSD	.4730232	.1784835	.1386469	.1834964	.1695748	.3156863	.6499158
#1	.2522018	2.442134	24.59083	.9974755	2.447012	1.226377	4.809308
#2	.2520981	2.443056	24.53496	1.001050	2.444880	1.224869	4.818726
#3	.2500916	2.450112	24.59667	.999976	2.452896	1.232208	4.867795

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.485073	24.73989	2.444871	1.225135	23.34169	2.459480	2.454158
Stddev	.003179	.06161	.004092	.001906	.20273	.008750	.001395
%RSD	.1279189	.2490335	.1673777	.1555373	.8685237	.3557867	.0568549
#1	2.481530	24.77082	2.443187	1.223699	23.19547	2.462873	2.452684
#2	2.486016	24.77990	2.441890	1.224408	23.25647	2.449541	2.454331
#3	2.487674	24.66894	2.449537	1.227297	23.57311	2.466026	2.455458

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.76000	4.992162	4.952223	4.887467	4.868787	4.853984	4.860480
Stddev	.24684	.023740	.008388	.005374	.014384	.058200	.013060
%RSD	1.038871	.4755541	.1693756	.1099620	.2954256	1.199009	.2686904
#1	23.55394	5.011225	4.951739	4.888603	4.878071	4.801049	4.865541
#2	23.69248	4.999691	4.944087	4.881616	4.852218	4.844596	4.870251
#3	24.03356	4.965570	4.960842	4.892183	4.876072	4.916307	4.845647

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV06 Acquired: 5/9/2025 18:12:18 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.741920	4.763301	4.898780
Stddev	.006809	.016866	.003745
%RSD	.1435934	.3540853	.0764545
#1	4.734924	4.769186	4.894843
#2	4.748525	4.744281	4.902299
#3	4.742310	4.776437	4.899196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3322.416	73654.84	14224.01	3012.117	4638.159
Stddev	7.290	114.74	82.95	5.828	7.113
%RSD	.2194297	.1557834	.5831456	.1934698	.1533635
#1	3326.145	73783.68	14163.36	3008.293	4642.563
#2	3327.087	73563.66	14190.14	3009.235	4641.963
#3	3314.015	73617.19	14318.53	3018.824	4629.953

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB06 Acquired: 5/9/2025 18:16:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0024886	.0011172	-.000346	.0080778	-.002056	.0047811	-.003155
Stddev	.0023400	.0021841	.000383	.0029517	.002076	.0087707	.000771
%RSD	94.03077	195.4970	110.8338	36.54093	100.9645	183.4452	24.44900
#1	.0046073	-.001303	-.000165	.0051900	.000277	.0136541	-.003839
#2	.0028816	.001714	-.000086	.0079539	-.002747	-.003884	-.002319
#3	-.000023	.002941	-.000785	.0110894	-.003699	.004573	-.003307

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000083	.0000688	-.001185	-.000035	-.000187	-.000147	.0006976
Stddev	.000027	.0000538	.007903	.000119	.000062	.000070	.0053893
%RSD	32.07438	78.22701	667.0524	335.3709	32.98184	47.98546	772.5383
#1	-.000084	.0001186	-.006049	.000057	-.000188	-.000163	.0026770
#2	-.000109	.0000117	.007934	-.000169	-.000248	-.000069	.0048174
#3	-.000056	.0000760	-.005440	.000006	-.000125	-.000207	-.005402

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001654	-.008027	-.000003	-.000140	-.115293	-.001589	-.000142
Stddev	.000203	.010443	.000212	.000127	.005895	.001022	.000185
%RSD	12.27870	130.0977	6516.833	90.30531	5.113211	64.35107	129.5235
#1	-.001435	-.000850	-.000216	-.000004	-.109119	-.002482	-.000142
#2	-.001836	-.020008	-.000001	-.000162	-.115896	-.001810	.000042
#3	-.001691	-.003224	.000207	-.000255	-.120863	-.000474	-.000327

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.041180	.0044858	.0001226	-.000886	.0006490	-.019975	-.000442
Stddev	.017418	.0010426	.0002523	.001321	.0006794	.003666	.003575
%RSD	42.29626	23.24168	205.7146	149.0171	104.6836	18.35360	808.7298
#1	-.035110	.0046567	-.000060	-.002358	-.000078	-.023250	-.004450
#2	-.027610	.0033683	.000018	.000196	.000758	-.016015	.002418
#3	-.060821	.0054323	.000410	-.000497	.001267	-.020661	.000705

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB06 Acquired: 5/9/2025 18:16:30 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0002112	-.000137	.0000422
Stddev	.0026711	.000721	.0000528
%RSD	1264.479	524.7753	125.0078
#1	-.002871	-.000899	.0000815
#2	.001664	-.000048	.0000629
#3	.001841	.000535	-.000018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3342.419	79002.73	15278.53	3143.668	4822.349
Stddev	4.779	191.19	33.61	15.216	6.772
%RSD	.1429939	.2420099	.2200123	.4840210	.1404294
#1	3347.583	78958.78	15287.80	3146.537	4830.125
#2	3341.525	78837.33	15306.53	3127.221	4819.168
#3	3338.150	79212.07	15241.25	3157.245	4817.753

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17A Acquired: 5/9/2025 18:20:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.7255973	1.832001	1.088188	1.499250	.6387706	78.34723	.8665382
Stddev	.0051332	.050729	.002095	.008664	.0019378	.05718	.0030017
%RSD	.7074422	2.769056	.1924905	.5778851	.3033670	.0729772	.3463971
#1	.7239892	1.776391	1.085910	1.496281	.6366952	78.31817	.8680456
#2	.7313420	1.875747	1.088621	1.509009	.6390841	78.31043	.8630816
#3	.7214607	1.843865	1.090032	1.492462	.6405327	78.41310	.8684875

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1770043	.1770476	4.674053	.5554667	.3867770	.4858020	333.6648
Stddev	.0005540	.0008696	.034091	.0014556	.0016036	.0008458	1.8512
%RSD	.3129734	.4911841	.7293673	.2620471	.4145999	.1741007	.5548216
#1	.1764779	.1760511	4.693382	.5544967	.3853428	.4848737	334.3231
#2	.1775822	.1776528	4.634691	.5547629	.3864799	.4865289	331.5743
#3	.1769529	.1774389	4.694088	.5571404	.3885084	.4860036	335.0969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.822335	19.15814	.6789490	.0597887	3.098566	.5991655	.9426127
Stddev	.007686	.03600	.0015988	.0003186	.021667	.0012306	.0049288
%RSD	.1593767	.1879282	.2354750	.5328407	.6992440	.2053783	.5228867
#1	4.820486	19.13180	.6774501	.0596599	3.095655	.5995774	.9407924
#2	4.830777	19.19917	.6787652	.0595547	3.078502	.6001372	.9388530
#3	4.815743	19.14347	.6806317	.0601516	3.121541	.5977818	.9481928

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.18892	.3591878	.3442276	.6638011	1.922218	8.096151	8.916416
Stddev	.03923	.0029809	.0006784	.0028464	.000643	.038970	.069008
%RSD	.2974570	.8298927	.1970817	.4288023	.0334752	.4813350	.7739393
#1	13.18929	.3590514	.3447040	.6610232	1.922845	8.140837	8.836868
#2	13.14951	.3562775	.3445280	.6667114	1.922251	8.069224	8.960210
#3	13.22797	.3622346	.3434509	.6636687	1.921559	8.078391	8.952169

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-17A Acquired: 5/9/2025 18:20:51 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	1.231017	.4215909	-.086712
Stddev	.003050	.0009964	.001722
%RSD	.2477231	.2363317	1.985853
#1	1.234539	.4220051	-.087590
#2	1.229246	.4204542	-.084728
#3	1.229267	.4223133	-.087818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.873	85353.98	17053.40	3407.852	4618.930
Stddev	2.370	335.89	25.43	16.415	5.759
%RSD	.0620058	.3935228	.1491056	.4816946	.1246720
#1	3819.623	85389.70	17074.77	3399.264	4619.461
#2	3824.347	85670.58	17025.28	3426.780	4624.405
#3	3821.648	85001.66	17060.15	3397.512	4612.925

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-21 Acquired: 5/9/2025 18:24:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0472541	.0089825	.1788019	-.028562	-.008406	67.09301	.6714459
Stddev	.0004691	.0027677	.0013389	.003221	.000041	.07724	.0016497
%RSD	.9926507	30.81261	.7488195	11.27641	.4927891	.1151281	.2456959
#1	.0467738	.0112431	.1795514	-.025159	-.008374	67.12660	.6695530
#2	.0477111	.0098087	.1772561	-.028964	-.008453	67.14778	.6722073
#3	.0472775	.0058957	.1795981	-.031562	-.008391	67.00467	.6725773

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114755	-.009020	18.22868	.2567076	.1273668	.3037615	221.4280
Stddev	.0000102	.000133	.07748	.0011994	.0001910	.0023961	.7979
%RSD	.0886144	1.478968	.4250446	.4672224	.1499674	.7888135	.3603590
#1	.0114749	-.008868	18.13949	.2578298	.1272234	.3042419	221.1320
#2	.0114657	-.009079	18.26716	.2554436	.1272932	.3058810	220.8203
#3	.0114860	-.009114	18.27938	.2568492	.1275836	.3011616	222.3316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.012596	18.95479	.2003698	-.000065	.7670778	.4370821	.6692257
Stddev	.002073	.05495	.0005254	.000474	.0041514	.0011475	.0018227
%RSD	.2047284	.2899240	.2622028	733.5041	.5411918	.2625416	.2723598
#1	1.010869	18.92410	.2006873	-.000553	.7717645	.4370720	.6712398
#2	1.014895	19.01824	.2006586	-.000035	.7656062	.4359396	.6676896
#3	1.012025	18.92204	.1997633	.000394	.7638627	.4382346	.6687478

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.079168	.1116671	.0098655	.0112656	1.323342	5.265550	2.323986
Stddev	.025230	.0013582	.0002115	.0004773	.002448	.006719	.010075
%RSD	.4150166	1.216294	2.143444	4.237273	.1850146	.1276090	.4335027
#1	6.099669	.1114422	.0098507	.0117507	1.321852	5.258952	2.327736
#2	6.086843	.1104353	.0100840	.0107964	1.326167	5.265313	2.312575
#3	6.050992	.1131237	.0096619	.0112497	1.322005	5.272385	2.331649

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1972-21 Acquired: 5/9/2025 18:24:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	15.06741	.2215094	.1417500
Stddev	.02962	.0014249	.0016422
%RSD	.1965640	.6432665	1.158492
#1	15.10155	.2198909	.1427072
#2	15.05219	.2220626	.1426889
#3	15.04851	.2225747	.1398538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3718.187	83940.32	17400.36	3348.632	4635.938
Stddev	10.343	274.51	4.40	10.063	3.112
%RSD	.2781601	.3270357	.0253076	.3005144	.0671366
#1	3711.685	83675.47	17404.62	3344.637	4636.351
#2	3712.762	84223.57	17395.83	3341.179	4632.640
#3	3730.113	83921.91	17400.62	3360.079	4638.824

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1974-01 Acquired: 5/9/2025 18:28:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0447422	-.005923	.1072262	-.029293	-.008039	109.9801	.2569724
Stddev	.0009650	.003743	.0013091	.001503	.001420	.1024	.0013050
%RSD	2.156887	63.19283	1.220894	5.130838	17.66177	.0931108	.5078445
#1	.0437992	-.005121	.1072621	-.028433	-.006507	109.8770	.2554655
#2	.0446997	-.010002	.1085171	-.028416	-.009310	110.0818	.2577342
#3	.0457278	-.002646	.1058996	-.031028	-.008301	109.9814	.2577174

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196846	-.002510	77.55322	.2609579	.1554787	.4382696	208.5634
Stddev	.0000548	.000169	.05711	.0013535	.0004003	.0007052	.5157
%RSD	.2782744	6.748161	.0736462	.5186531	.2574620	.1609033	.2472768
#1	.0196876	-.002691	77.48914	.2605607	.1551867	.4375841	208.1364
#2	.0196284	-.002355	77.59878	.2598475	.1553145	.4382319	209.1364
#3	.0197379	-.002484	77.57173	.2624655	.1559350	.4389930	208.4175

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.628560	89.22799	.2143901	.0013660	341.7684	.6819536	.9571983
Stddev	.001838	.07298	.0002359	.0005855	2.2947	.0019643	.0011561
%RSD	.1128526	.0817947	.1100577	42.86196	.6714206	.2880345	.1207767
#1	1.627121	89.16538	.2141213	.0006922	344.3999	.6803111	.9568018
#2	1.627928	89.21045	.2144857	.0016549	340.1846	.6841295	.9562926
#3	1.630630	89.30815	.2145632	.0017509	340.7206	.6814201	.9585004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.27384	.3232322	.0061553	.0096963	2.872949	4.122185	15.25674
Stddev	.01134	.0014568	.0001073	.0007430	.002196	.015013	.04861
%RSD	.1005550	.4506951	1.743587	7.662707	.0764236	.3642083	.3186407
#1	11.26174	.3225480	.0061374	.0088457	2.870445	4.109257	15.21764
#2	11.27556	.3249052	.0060580	.0102183	2.873862	4.138652	15.31117
#3	11.28422	.3222436	.0062704	.0100249	2.874542	4.118647	15.24141

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1974-01 Acquired: 5/9/2025 18:28:59 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	9.717823	.1332019	.0811412
Stddev	.027710	.0005048	.0004658
%RSD	.2851418	.3789728	.5740439
#1	9.686585	.1326354	.0808117
#2	9.739438	.1336041	.0809379
#3	9.727448	.1333661	.0816741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.616	80908.44	17591.45	3279.299	4036.958
Stddev	6.182	55.44	35.20	8.069	5.483
%RSD	.1763011	.0685207	.2000987	.2460461	.1358167
#1	3513.365	80892.53	17555.15	3281.277	4043.134
#2	3505.259	80862.69	17625.44	3270.425	4032.663
#3	3501.226	80970.09	17593.77	3286.194	4035.078

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1974-03 Acquired: 5/9/2025 18:33:11 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0052604	.0011274	.9766281	.0026667	.0565302	7.440380	.2355445
Stddev	.0022308	.0012609	.0090420	.0029868	.0017987	.010155	.0005571
%RSD	42.40716	111.8397	.9258394	112.0010	3.181847	.1364858	.2364961
#1	.0036245	.0008045	.9687414	.0023620	.0552894	7.429786	.2356117
#2	.0078015	.0025184	.9746463	-.000156	.0585931	7.450030	.2360648
#3	.0043551	.0000594	.9864966	.005794	.0557082	7.441324	.2349568

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005903	.0012550	10.49752	.0585525	.0129181	1.336714	29.34939
Stddev	.0000358	.0000704	.02211	.0003692	.0000854	.008129	.14040
%RSD	6.072594	5.609341	.2105944	.6305998	.6608269	.6081536	.4783757
#1	.0005642	.0012412	10.47460	.0585529	.0129339	1.332192	29.36442
#2	.0006311	.0011925	10.51871	.0581830	.0128259	1.331852	29.20207
#3	.0005755	.0013312	10.49924	.0589215	.0129944	1.346099	29.48166

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2584629	4.426299	.0537882	.0010222	3.595136	.0333296	1.867453
Stddev	.0002677	.017858	.0005953	.0000476	.021704	.0011847	.004726
%RSD	.1035937	.4034421	1.106802	4.654940	.6037151	3.554606	.2530509
#1	.2581934	4.445666	.0533319	.0010478	3.600172	.0332273	1.871355
#2	.2587289	4.422748	.0535711	.0010515	3.571356	.0321994	1.862199
#3	.2584664	4.410484	.0544616	.0009673	3.613880	.0345622	1.868806

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.662241	.0340992	.0064567	.0760570	.5672207	2.051364	1.302349
Stddev	.014531	.0005466	.0003393	.0013818	.0019725	.024332	.008798
%RSD	.8741985	1.603082	5.254409	1.816834	.3477540	1.186136	.6755398
#1	1.677531	.0347091	.0067973	.0746925	.5656360	2.052492	1.292916
#2	1.660580	.0336533	.0061188	.0760230	.5665963	2.026487	1.303802
#3	1.648612	.0339354	.0064539	.0774556	.5694299	2.075112	1.310331

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1974-03 Acquired: 5/9/2025 18:33:11 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	5.518580	.0178178	.0103558
Stddev	.052903	.0011106	.0001410
%RSD	.9586282	6.232905	1.361693
#1	5.476109	.0173062	.0102863
#2	5.501792	.0190920	.0105181
#3	5.577840	.0170553	.0102631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3290.595	75284.91	16185.69	3025.280	4690.954
Stddev	21.635	425.55	20.37	14.287	38.003
%RSD	.6574810	.5652528	.1258287	.4722499	.8101263
#1	3301.624	75263.04	16192.01	3012.808	4715.437
#2	3304.493	75720.98	16162.92	3040.868	4710.250
#3	3265.668	74870.72	16202.15	3022.165	4647.174

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1976-01 Acquired: 5/9/2025 18:37:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0459993	.0008446	.4833628	-.049476	-.009133	140.3029	.8154505
Stddev	.0008217	.0029209	.0030005	.003656	.003995	.1334	.0005837
%RSD	1.786219	345.8482	.6207465	7.388642	43.74377	.0951132	.0715776
#1	.0451269	.0040427	.4819758	-.051415	-.005341	140.4423	.8161186
#2	.0467585	-.001682	.4868058	-.045259	-.008754	140.2902	.8150396
#3	.0461125	.000173	.4813068	-.051753	-.013304	140.1763	.8151932

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113640	-.005879	23.83522	.3217183	.1534700	.3593260	294.2841
Stddev	.0002069	.000126	.02198	.0012219	.0003596	.0009100	1.1178
%RSD	1.820455	2.135866	.0922014	.3798172	.2343413	.2532494	.3798453
#1	.0113515	-.005802	23.86058	.3203947	.1535313	.3602499	293.1692
#2	.0111636	-.006023	23.82332	.3219568	.1537950	.3592975	294.2781
#3	.0115768	-.005810	23.82175	.3228034	.1530836	.3584305	295.4049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.129841	41.49593	.2376554	-.000461	5.345405	.5167229	.8387484
Stddev	.003439	.03416	.0009347	.000214	.007757	.0012909	.0026110
%RSD	.0561022	.0823096	.3932862	46.40000	.1451233	.2498220	.3112992
#1	6.130150	41.45756	.2368288	-.000708	5.337273	.5175826	.8393431
#2	6.133114	41.52303	.2386696	-.000331	5.346218	.5152385	.8358913
#3	6.126257	41.50719	.2374678	-.000344	5.352723	.5173476	.8410107

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.27842	.1248845	.0034817	.0114529	5.372042	4.478266	5.559788
Stddev	.00645	.0017522	.0004662	.0006610	.004393	.011256	.018823
%RSD	.0571576	1.403100	13.38915	5.771147	.0817795	.2513368	.3385598
#1	11.28549	.1235319	.0031680	.0119156	5.377080	4.488072	5.540313
#2	11.27286	.1242577	.0040174	.0117472	5.370037	4.465976	5.561166
#3	11.27691	.1268640	.0032597	.0106959	5.369010	4.480750	5.577884

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1976-01 Acquired: 5/9/2025 18:37:22 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.8446924	.2988085	-.113602
Stddev	.0013785	.0012276	.001148
%RSD	.1631910	.4108399	1.010442
#1	.8431332	.2973918	-.112589
#2	.8457492	.2994763	-.113369
#3	.8451947	.2995575	-.114849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3656.177	82007.72	16977.15	3307.309	4498.767
Stddev	5.301	346.72	16.16	2.778	7.536
%RSD	.1449742	.4227880	.0952053	.0839947	.1675161
#1	3650.153	82402.27	16988.81	3306.141	4491.594
#2	3658.248	81869.26	16958.69	3310.481	4498.086
#3	3660.129	81751.63	16983.93	3305.307	4506.620

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1978-01 Acquired: 5/9/2025 18:41:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0823180	.0091390	.3749192	-.046898	-.006552	130.0343	.6610547
Stddev	.0095928	.0002421	.0021474	.005846	.002811	.2646	.0048046
%RSD	11.65330	2.648922	.5727630	12.46492	42.90333	.2035063	.7268106
#1	.0801421	.0090752	.3747244	-.045329	-.009616	130.2679	.6663413
#2	.0740001	.0089352	.3771574	-.053369	-.005946	130.0882	.6598688
#3	.0928118	.0094066	.3728759	-.041997	-.004093	129.7469	.6569542

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092793	-.005308	336.6129	.2152920	.1116469	.2495731	272.6545
Stddev	.0001072	.000387	3.0833	.0012770	.0002058	.0007319	1.5077
%RSD	1.154902	7.293380	.9159804	.5931359	.1842976	.2932491	.5529842
#1	.0093928	-.005752	340.1475	.2146370	.1116734	.2493294	274.3354
#2	.0091799	-.005124	334.4756	.2167635	.1118381	.2503957	272.2068
#3	.0092650	-.005046	335.2158	.2144753	.1114291	.2489942	271.4213

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.058122	182.5522	.1918133	-.000347	3.140432	.3497305	.6679988
Stddev	.012118	.3197	.0012757	.000244	.025930	.0030805	.0023602
%RSD	.2000340	.1751411	.6650819	70.26550	.8256668	.8808142	.3533178
#1	6.044950	182.3883	.1920737	-.000146	3.168462	.3470228	.6701129
#2	6.060619	182.3477	.1904275	-.000618	3.135532	.3490868	.6654523
#3	6.068797	182.9207	.1929387	-.000277	3.117302	.3530820	.6684313

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.600380	.1152865	.0039864	.0241617	3.019361	4.546365	7.367508
Stddev	.067392	.0022780	.0000746	.0010837	.010015	.026983	.010376
%RSD	.7019723	1.975913	1.871548	4.485210	.3316764	.5935132	.1408398
#1	9.641588	.1176968	.0039232	.0242237	3.030083	4.568327	7.359933
#2	9.636944	.1149936	.0039674	.0252131	3.017749	4.554524	7.363255
#3	9.522609	.1131692	.0040687	.0230483	3.010250	4.516243	7.379335

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: Q1978-01 Acquired: 5/9/2025 18:41:26 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	2.152223	.2467237	.1806172
Stddev	.003237	.0004638	.0010699
%RSD	.1503997	.1879878	.5923759
#1	2.155586	.2470283	.1794126
#2	2.149128	.2469530	.1814570
#3	2.151956	.2461899	.1809819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3435.268	78805.51	17262.76	3099.442	4097.928
Stddev	7.530	326.77	14.42	9.601	3.705
%RSD	.2192069	.4146574	.0835269	.3097612	.0904207
#1	3442.097	78592.05	17273.45	3089.554	4101.001
#2	3427.192	78642.79	17246.36	3108.727	4093.814
#3	3436.514	79181.70	17268.48	3100.044	4098.970

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV07 Acquired: 5/9/2025 18:45:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.871260	4.928041	4.909992	4.864208	4.865338	9.610617	10.09249
Stddev	.003081	.026635	.008757	.016115	.014040	.052373	.06572
%RSD	.0632408	.5404782	.1783415	.3312896	.2885645	.5449515	.6512062
#1	4.870507	4.950387	4.902051	4.877384	4.873180	9.671047	10.13724
#2	4.868626	4.898568	4.908542	4.846241	4.849129	9.582441	10.12320
#3	4.874647	4.935169	4.919383	4.868998	4.873705	9.578364	10.01703

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2383738	2.463958	24.73705	.9914059	2.476959	1.239916	5.252862
Stddev	.0037654	.003035	.16266	.0005751	.001182	.002429	.044522
%RSD	1.579632	.1231689	.6575629	.0580039	.0477272	.1959223	.8475794
#1	.2426825	2.462692	24.91545	.9908745	2.476692	1.241015	5.201550
#2	.2367247	2.461762	24.69873	.9920164	2.475934	1.237131	5.275766
#3	.2357143	2.467421	24.59697	.9913267	2.478252	1.241602	5.281269

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.434936	24.42378	2.458575	1.242764	25.08893	2.472033	2.487385
Stddev	.009613	.19986	.001900	.002360	.28559	.012153	.001383
%RSD	.3947868	.8183122	.0772866	.1899074	1.138320	.4916187	.0555909
#1	2.445823	24.64205	2.456453	1.241566	24.76676	2.483671	2.488669
#2	2.431367	24.37956	2.459154	1.241244	25.18905	2.473003	2.487565
#3	2.427618	24.24973	2.460118	1.245483	25.31099	2.459423	2.485921

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.78594	4.750099	4.961604	4.921721	4.944253	5.140288	4.960619
Stddev	.32407	.056944	.008177	.006191	.029778	.092674	.019180
%RSD	1.307489	1.198792	.1648060	.1257957	.6022678	1.802891	.3866444
#1	24.42925	4.814606	4.968126	4.919156	4.977510	5.037910	4.964558
#2	24.86630	4.728878	4.952430	4.917224	4.935188	5.164507	4.939776
#3	25.06227	4.706812	4.964255	4.928783	4.920061	5.218449	4.977524

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCV07 Acquired: 5/9/2025 18:45:41 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	4.850669	4.794481	4.836233
Stddev	.007261	.028360	.077401
%RSD	.1496912	.5915179	1.600442
#1	4.858303	4.824460	4.919890
#2	4.843850	4.790905	4.821646
#3	4.849853	4.768079	4.767163

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3317.866	73181.14	15225.39	2948.477	4601.773
Stddev	8.525	101.08	223.46	2.530	5.678
%RSD	.2569511	.1381226	1.467682	.0858132	.1233955
#1	3311.083	73296.72	14977.01	2945.666	4601.302
#2	3327.436	73137.42	15289.04	2950.574	4607.672
#3	3315.079	73109.28	15410.12	2949.190	4596.345

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB07 Acquired: 5/9/2025 18:49:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	.0001573	.0019489	-.001993	.0041307	-.001137	-.005505	-.003375
Stddev	.0016498	.0006342	.000351	.0032598	.000560	.003413	.001443
%RSD	1048.757	32.54343	17.58593	78.91596	49.29406	61.99206	42.76599
#1	-.001044	.0026483	-.002065	.0018904	-.000737	-.001572	-.003926
#2	-.000522	.0014110	-.002303	.0078704	-.001777	-.007681	-.001737
#3	.002038	.0017874	-.001613	.0026312	-.000896	-.007262	-.004462

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000113	.0001051	-.001371	-.000258	-.000097	.0000929	.0021550
Stddev	.0000411	.0000497	.009868	.000308	.000152	.0002476	.0031925
%RSD	363.1119	47.34954	719.7967	119.1661	156.0705	266.6253	148.1460
#1	-.000031	.0000484	-.012088	-.000004	-.000263	.0003782	.0036700
#2	.000014	.0001414	.007340	-.000171	-.000064	-.000034	-.001513
#3	.000051	.0001253	.000635	-.000601	.000035	-.000065	.004308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001654	.0018620	-.000024	-.000480	-.094948	-.000886	.0002186
Stddev	.000089	.0100149	.000317	.000518	.011724	.001822	.0000297
%RSD	5.395912	537.8523	1320.246	108.1118	12.34744	205.6544	13.59662
#1	-.001695	-.001697	.000342	-.000869	-.100717	-.002541	.0002483
#2	-.001551	.013170	-.000190	-.000678	-.102669	.001066	.0001889
#3	-.001715	-.005887	-.000224	.000109	-.081458	-.001182	.0002185

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.046127	.0055696	.0000826	-.000051	.0008599	-.012305	-.000892
Stddev	.016859	.0007413	.0000915	.000943	.0001323	.007794	.002460
%RSD	36.54951	13.30978	110.6899	1847.025	15.38292	63.34091	275.6689
#1	-.062691	.0048669	.0001836	-.000978	.0009675	-.012779	.000329
#2	-.046704	.0063442	.0000052	-.000081	.0008999	-.004285	.000718
#3	-.028987	.0054977	.0000592	.000906	.0007122	-.019852	-.003724

Reviewed By:
On:
Inst Id :P4
LB :LB135724

Sample Name: CCB07 Acquired: 5/9/2025 18:49:53 Type: Unk
Method: NON EPA-6010-200.7 NEW LR(v39) 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	-.000470	-.000244	.0001494
Stddev	.004696	.000314	.0000658
%RSD	999.6610	128.5559	44.05555
#1	.000659	-.000558	.0002024
#2	-.005627	-.000243	.0000757
#3	.003559	.000069	.0001701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3379.077	75639.29	15710.76	3069.893	4881.638
Stddev	7.199	469.67	11.59	7.429	14.466
%RSD	.2130316	.6209338	.0737686	.2419821	.2963283
#1	3381.300	75899.95	15697.40	3072.244	4894.655
#2	3384.902	75097.10	15718.05	3061.573	4884.195
#3	3371.030	75920.83	15716.85	3075.862	4866.064

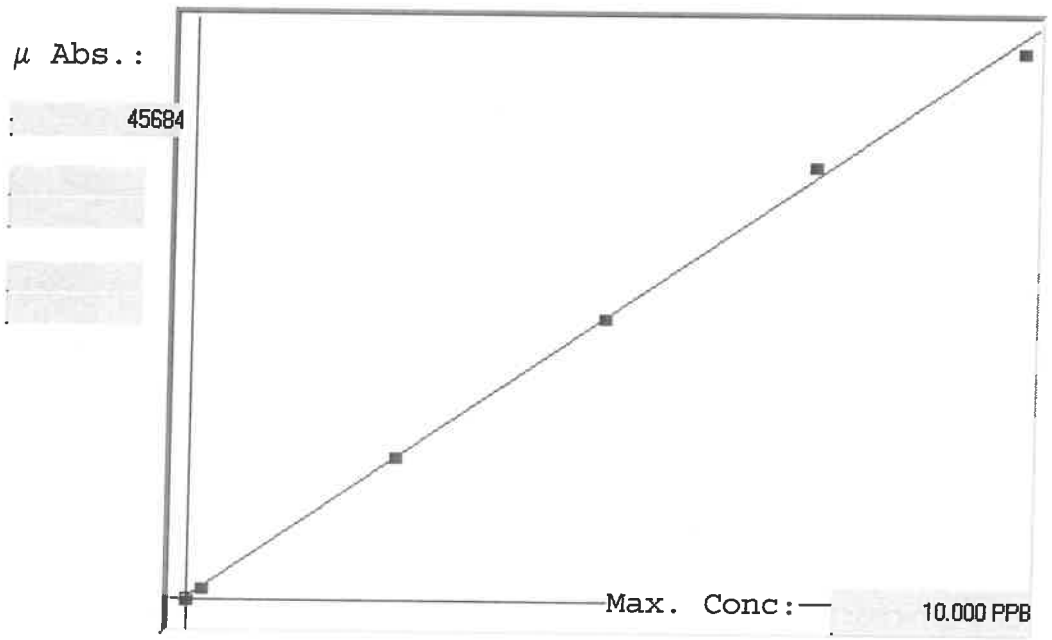
Reviewed By:mohan
On:5/7/2025 11:30:02 AM
Inst Id :CV1
LB :LB135678

LB135678

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.1478e-004

C= -3.6117e-002

Rho= 0.9992313

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.064	-0.064	-129	0.000	-129					-
0.2	0.200	0.169	-0.031	953	0.0 %	953					-16
2.5	2.500	2.550	0.050	12040	0.0 %	12040					2
5.0	5.000	5.010	0.010	23493	0.0 %	23493					0
7.5	7.500	7.760	0.260	36299	0.0 %	36299					3
10.0	10.000	9.776	-0.224	45684	0.0 %	45684					-2

Reviewed By:mohan
On:5/7/2025 11:30:02 AM
Inst Id :CV1
LB :LB135678

LB135678 INSTRUMEEEEEENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 06 May 2025 09:50:00

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	-129	-	0.00000	7471B	PPB	06 May 2025 10:00:06	S	Std
0.2 - 1	50.2	953	-	0.20000	7471B	PPB	06 May 2025 10:02:23	S	Std
2.5 - 1	52.5	12040	-	2.50000	7471B	PPB	06 May 2025 10:04:40	S	Std
5.0 - 1	55	23493	-	5.00000	7471B	PPB	06 May 2025 10:06:57	S	Std
7.5 - 1	57.5	36299	-	7.50000	7471B	PPB	06 May 2025 10:14:37	S	Std
10.0 - 1	510	45684	-	10.00000	7471B	PPB	06 May 2025 10:19:57	S	Std
ICV117 - 1	ICV117	19065	4.0586		-7471B	PPB	06 May 2025 10:25:28	U	SMPL
ICB117 - 1	ICB117	-290	-0.0984		-7471B	PPB	06 May 2025 10:27:43	U	SMPL
CCV82 - 1	CCV82	23733	5.0612		-7471B	PPB	06 May 2025 10:30:00	U	SMPL
CCB82 - 1	CCB82	4	-0.0353		-7471B	PPB	06 May 2025 10:35:04	U	SMPL
CRA - 1	CRA	1009	0.1806		-7471B	PPB	06 May 2025 10:37:19	U	SMPL
HighStd - 1	HighStd	45492	9.7345		-7471B	PPB	06 May 2025 10:39:33	U	SMPL
ChkStd - 1	ChkStd	33597	7.1797		-7471B	PPB	06 May 2025 10:41:49	U	SMPL
PB167875BL - 1	PBS	-294	-0.0993		-7471B	PPB	06 May 2025 10:44:10	U	SMPL
PB167875BS - 1	LCSS	18674	3.9746		-7471B	PPB	06 May 2025 10:49:16	U	SMPL
Q1936-01 - 1	SMALL-PILE-A	281	0.0242		-7471B	PPB	06 May 2025 10:51:34	U	SMPL
Q1936-01DUP - 1	SMALL-PILE-ADUP	406	0.0511		-7471B	PPB	06 May 2025 10:53:53	U	SMPL
Q1936-01MS - 1	SMALL-PILE-AMS	18426	3.9214		-7471B	PPB	06 May 2025 10:56:10	U	SMPL
Q1936-01MSD - 1	SMALL-PILE-AMSD	18235	3.8803		-7471B	PPB	06 May 2025 10:58:28	U	SMPL
Q1936-03 - 1	SMALL-PILE-B	881	0.1531		-7471B	PPB	06 May 2025 11:00:46	U	SMPL
CCV83 - 1	CCV83	23523	5.0161		-7471B	PPB	06 May 2025 11:03:04	U	SMPL
CCB83 - 1	CCB83	0	-0.0361		-7471B	PPB	06 May 2025 11:05:21	U	SMPL
Q1936-05 - 1	SMALL-PILE-C	824	0.1409		-7471B	PPB	06 May 2025 11:07:40	U	SMPL
Q1936-07 - 1	SMALL-PILE-D	262	0.0202		-7471B	PPB	06 May 2025 11:09:56	U	SMPL
Q1937-01 - 1	LARGE-PILE-A	695	0.1132		-7471B	PPB	06 May 2025 11:12:12	U	SMPL
Q1937-03 - 1	LARGE-PILE-B	293	0.0268		-7471B	PPB	06 May 2025 11:14:28	U	SMPL
Q1937-05 - 1	LARGE-PILE-C	289	0.0260		-7471B	PPB	06 May 2025 11:16:43	U	SMPL
Q1937-07 - 1	LARGE-PILE-D	667	0.1071		-7471B	PPB	06 May 2025 11:19:00	U	SMPL
Q1937-09 - 1	LARGE-PILE-E	2190	0.4342		-7471B	PPB	06 May 2025 11:21:16	U	SMPL
Q1937-11 - 1	LARGE-PILE-F	2370	0.4729		-7471B	PPB	06 May 2025 11:23:33	U	SMPL
Q1938-01 - 1	LOWER-WALL-PILE-A	3056	0.6202		-7471B	PPB	06 May 2025 11:25:51	U	SMPL
Q1938-03 - 1	LOWER-WALL-PILE-B	2647	0.5324		-7471B	PPB	06 May 2025 11:28:07	U	SMPL
CCV84 - 1	CCV84	24342	5.1920		-7471B	PPB	06 May 2025 11:30:24	U	SMPL
CCB84 - 1	CCB84	-9	-0.0380		-7471B	PPB	06 May 2025 11:32:41	U	SMPL
Q1938-05 - 1	LOWER-WALL-PILE-C	4398	0.9085		-7471B	PPB	06 May 2025 11:35:00	U	SMPL
Q1938-07 - 1	LOWER-WALL-PILE-D	2161	0.4280		-7471B	PPB	06 May 2025 11:37:15	U	SMPL
Q1946-01 - 1	BB-CONCRETE	205	0.0079		-7471B	PPB	06 May 2025 11:39:33	U	SMPL
Q1947-01 - 1	MH-P	1599	0.3073		-7471B	PPB	06 May 2025 11:41:48	U	SMPL
Q1947-05 - 1	MH-O	214	0.0098		-7471B	PPB	06 May 2025 11:44:04	U	SMPL
Q1951-01 - 1	MH-KK	1442	0.2736		-7471B	PPB	06 May 2025 11:46:20	U	SMPL
Q1952-01 - 1	CLEAN-FILL	2852	0.5764		-7471B	PPB	06 May 2025 11:48:37	U	SMPL
Q1955-01 - 1	LAW-25-0066	1271	0.2369		-7471B	PPB	06 May 2025 11:50:54	U	SMPL
Q1936-01LX5 - 1		61	-0.0230		-7471B	PPB	06 May 2025 11:53:13	U	SMPL
Q1936-01A - 1		18562	3.9506		-7471B	PPB	06 May 2025 11:55:29	U	SMPL
CCV85 - 1	CCV85	23429	4.9959		-7471B	PPB	06 May 2025 11:57:45	U	SMPL
CCB85 - 1	CCB85	10	-0.0340		-7471B	PPB	06 May 2025 12:00:04	U	SMPL

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167859

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 #3 2. N/A

Start Digest Date: 05/05/2025 **Time :** 10:15 **Temp :** 96 °C

End Digest Date: 05/05/2025 **Time :** 12:25 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SLR.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
LFS-2	1.00	M6016
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	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
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#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/25 13:25	SLR. met.dig	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167859

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167859BL	PBS859	N/A	2.02	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167859BS	LCS859	N/A	2.09	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q1936-01	SMALL-PILE-A	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	3
Q1936-03	SMALL-PILE-B	N/A	2.03	100	Brown	Yellow	Medium	N/A	N/A	4
Q1936-05	SMALL-PILE-C	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	5
Q1936-07	SMALL-PILE-D	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	6
Q1937-01	LARGE-PILE-A	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	7
Q1937-03	LARGE-PILE-B	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	8
Q1937-05	LARGE-PILE-C	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	9
Q1937-07	LARGE-PILE-D	N/A	2.45	100	Brown	Yellow	Medium	N/A	N/A	10
Q1937-09	LARGE-PILE-E	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	11
Q1937-11	LARGE-PILE-F	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	12
Q1938-01	LOWER-WALL-PILE-A	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	13
Q1938-03	LOWER-WALL-PILE-B	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	14
Q1938-05	LOWER-WALL-PILE-C	N/A	2.34	100	Brown	Yellow	Medium	N/A	N/A	15
Q1938-07	LOWER-WALL-PILE-D	N/A	2.43	100	Brown	Yellow	Medium	N/A	N/A	16
Q1946-01	BB-CONCRETE	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	17
Q1947-01	MH-P	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	18
Q1947-05	MH-O	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	19
Q1951-01	MH-KK	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	20
Q1952-01	CLEAN-FILL	N/A	2.48	100	Brown	Yellow	Medium	N/A	N/A	21
Q1952-01MS	CLEAN-FILLMS	N/A	2.20	100	Brown	Yellow	Medium	N/A	M6005,M6016	23
Q1952-01MSD	CLEAN-FILLMSD	N/A	2.30	100	Brown	Yellow	Medium	N/A	M6005,M6016	24
Q1952-01DUP	CLEAN-FILLDUP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	22

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB167859 **WorkList ID :** 189309 **Department :** Digestion **Date :** 05-05-2025 09:46:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1936-01	SMALL-PILE-A	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L51	05/01/2025	6010D
Q1936-03	SMALL-PILE-B	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L51	05/01/2025	6010D
Q1936-05	SMALL-PILE-C	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L51	05/01/2025	6010D
Q1936-07	SMALL-PILE-D	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L51	05/01/2025	6010D
Q1937-01	LARGE-PILE-A	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1937-03	LARGE-PILE-B	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1937-05	LARGE-PILE-C	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1937-07	LARGE-PILE-D	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1937-09	LARGE-PILE-E	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1937-11	LARGE-PILE-F	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1938-01	LOWER-WALL-PILE-A	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1938-03	LOWER-WALL-PILE-B	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1938-05	LOWER-WALL-PILE-C	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1938-07	LOWER-WALL-PILE-D	Solid	Metals ICP-TAL	Cool 4 deg C	SAXT01	L41	05/01/2025	6010D
Q1946-01	BB-CONCRETE	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	05/02/2025	6010D
Q1947-01	MH-P	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	05/02/2025	6010D
Q1947-05	MH-O	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L41	05/02/2025	6010D
Q1951-01	MH-KK	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L31	05/02/2025	6010D
Q1952-01	CLEAN-FILL	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	L21	05/02/2025	6010D

Date/Time 05/05/2025 10:10
Raw Sample Received by: SLD.mck.dlg
Raw Sample Relinquished by:

Date/Time 05/05/25 11:10
Raw Sample Received by:
Raw Sample Relinquished by: SLD.mck.dlg

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167875

SOP ID : M7471B-Mercury-18

SDG No : N/A

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: 05/05/2025 **Time :** 14:40 **Temp :** 95 °C

End Digest Date: 05/05/2025 **Time :** 15:10 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85536
CCV	30mL	MP85538
CRA	30mL	MP85540
Blank Spike	0.48mL	MP85529
Matrix Spike	0.48mL	MP85529

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85542
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
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	MP85530
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85531
2.5 ppb	S2.5	30mL	MP85532
5.0 ppb	S5.0	30mL	MP85533
7.5 ppb	S7.5	30mL	MP85534
10.0 ppb	S10.0	30mL	MP85535
ICV	ICV	30mL	MP85536
ICB	ICB	30mL	MP85537
CCV	CCV	30mL	MP85538
CCB	CCB	30mL	MP85539
CRI	CRI	30mL	MP85540
CHK STD	CHK STD	30mL	MP85541

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/5/25 @ 15:30	MB- 337 Lab	MM- 300 Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167875

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167875BL	PBS875	0.52	35	NA	N/A	3-1
PB167875BS	LCS875	0.54	35	NA	MP85529	2
Q1936-01DUP	SMALL-PILE-ADUP	0.59	35	NA	N/A	4
Q1936-01MS	SMALL-PILE-AMS	0.55	35	NA	MP85529	5
Q1936-01MSD	SMALL-PILE-AMSD	0.54	35	NA	MP85529	6
Q1936-01	SMALL-PILE-A	0.56	35	NA	N/A	3
Q1936-03	SMALL-PILE-B	0.59	35	NA	N/A	7
Q1936-05	SMALL-PILE-C	0.57	35	NA	N/A	8
Q1936-07	SMALL-PILE-D	0.56	35	NA	N/A	9
Q1937-01	LARGE-PILE-A	0.53	35	NA	N/A	10
Q1937-03	LARGE-PILE-B	0.55	35	NA	N/A	11
Q1937-05	LARGE-PILE-C	0.57	35	NA	N/A	12
Q1937-07	LARGE-PILE-D	0.53	35	NA	N/A	13
Q1937-09	LARGE-PILE-E	0.57	35	NA	N/A	14
Q1937-11	LARGE-PILE-F	0.56	35	NA	N/A	15
Q1938-01	LOWER-WALL-PILE-A	0.56	35	NA	N/A	16
Q1938-03	LOWER-WALL-PILE-B	0.57	35	NA	N/A	17
Q1938-05	LOWER-WALL-PILE-C	0.51	35	NA	N/A	18
Q1938-07	LOWER-WALL-PILE-D	0.51	35	NA	N/A	19
Q1946-01	BB-CONCRETE	0.52	35	NA	N/A	20
Q1947-01	MH-P	0.53	35	NA	N/A	21
Q1947-05	MH-O	0.58	35	NA	N/A	22
Q1951-01	MH-KK	0.55	35	NA	N/A	23
Q1952-01	CLEAN-FILL	0.56	35	NA	N/A	24
Q1955-01	LAW-25-0066	0.54	35	NA	N/A	25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 050525_7471 **WorkList ID :** 189324 **Department :** Digestion **Date :** 05-05-2025 11:20:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1936-01	SMALL-PILE-A	Solid	Mercury	Cool 4 deg C	SAXT01	L51	05/01/2025	7471B
Q1936-03	SMALL-PILE-B	Solid	Mercury	Cool 4 deg C	SAXT01	L51	05/01/2025	7471B
Q1936-05	SMALL-PILE-C	Solid	Mercury	Cool 4 deg C	SAXT01	L51	05/01/2025	7471B
Q1936-07	SMALL-PILE-D	Solid	Mercury	Cool 4 deg C	SAXT01	L51	05/01/2025	7471B
Q1937-01	LARGE-PILE-A	Solid	Mercury	Cool 4 deg C	SAXT01	L51	05/01/2025	7471B
Q1937-03	LARGE-PILE-B	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1938-05	LOWER-WALL-PILE-C	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1938-07	LOWER-WALL-PILE-D	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1937-05	LARGE-PILE-C	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1937-07	LARGE-PILE-D	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1937-09	LARGE-PILE-E	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1937-11	LARGE-PILE-F	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1938-01	LOWER-WALL-PILE-A	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1938-03	LOWER-WALL-PILE-B	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1946-01	BB-CONCRETE	Solid	Mercury	Cool 4 deg C	SAXT01	L41	05/01/2025	7471B
Q1947-01	MH-P	Solid	Mercury	Cool 4 deg C	PSEG03	L41	05/02/2025	7471B
Q1947-05	MH-O	Solid	Mercury	Cool 4 deg C	PSEG03	L41	05/02/2025	7471B
Q1951-01	MH-KK	Solid	Mercury	Cool 4 deg C	PSEG03	L41	05/02/2025	7471B
Q1952-01	CLEAN-FILL	Solid	Mercury	Cool 4 deg C	PSEG03	L31	05/02/2025	7471B
Q1955-01	LAW-25-0066	Solid	Mercury	Cool 4 deg C	PSEG03	L21	05/02/2025	7471B
						L41	05/02/2025	7471B

Date/Time 5/5/25 @ 14:20

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 5/5/25 @ 15:10

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135646

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
Q1913-01	WC-12-S-202504	1	1.18	10.32	11.5	9.49	80.5	
Q1913-03	WC-13-S-202504	2	1.19	10.37	11.56	9.83	83.3	
Q1936-01	SMALL-PILE-A	33	1.15	9.94	11.09	10.18	90.8	
Q1936-02	SMALL-PILE-A	34	1.17	9.94	11.11	10.22	91.0	
Q1936-03	SMALL-PILE-B	35	1.18	10.39	11.57	10.93	93.8	
Q1936-04	SMALL-PILE-B	36	1.18	9.88	11.06	10.44	93.7	
Q1936-05	SMALL-PILE-C	37	1.15	10.03	11.18	10.9	97.2	
Q1936-06	SMALL-PILE-C	38	1.15	10.25	11.4	11.01	96.2	
Q1936-07	SMALL-PILE-D	39	1.16	10.41	11.57	10.97	94.2	
Q1936-08	SMALL-PILE-D	40	1.18	9.96	11.14	10.55	94.1	
Q1937-01	LARGE-PILE-A	41	1.15	10.13	11.28	10.7	94.3	
Q1937-02	LARGE-PILE-A	42	1.18	9.58	10.76	10.2	94.2	
Q1937-03	LARGE-PILE-B	43	1.15	10.03	11.18	10.82	96.4	
Q1937-04	LARGE-PILE-B	44	1.17	10.04	11.21	10.72	95.1	
Q1937-05	LARGE-PILE-C	45	1.16	10.19	11.35	10.83	94.9	
Q1937-06	LARGE-PILE-C	46	1.19	10.06	11.25	10.63	93.8	
Q1937-07	LARGE-PILE-D	47	1.18	10.33	11.51	10.95	94.6	
Q1937-08	LARGE-PILE-D	48	1.17	9.75	10.92	10.33	93.9	
Q1937-09	LARGE-PILE-E	49	1.16	10.14	11.3	10.52	92.3	
Q1937-10	LARGE-PILE-E	50	1.18	10.30	11.48	10.76	93.0	
Q1937-11	LARGE-PILE-F	51	1.18	10.48	11.66	10.58	89.7	
Q1937-12	LARGE-PILE-F	52	1.18	10.25	11.43	10.44	90.3	
Q1938-01	LOWER-WALL-PILE-A	53	1.15	10.33	11.48	10.77	93.1	
Q1938-02	LOWER-WALL-PILE-A	54	1.17	10.50	11.67	10.71	90.9	
Q1938-03	LOWER-WALL-PILE-B	55	1.14	10.15	11.29	10.94	96.6	
Q1938-04	LOWER-WALL-PILE-B	56	1.18	9.90	11.08	10.68	96.0	
Q1938-05	LOWER-WALL-PILE-C	57	1.17	10.23	11.4	11.07	96.8	
Q1938-06	LOWER-WALL-PILE-C	58	1.12	9.82	10.94	10.7	97.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135646

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
Q1938-07	LOWER-WALL-PILE-D	59	1.19	10.01	11.2	10.7	95.0	
Q1938-08	LOWER-WALL-PILE-D	60	1.17	10.23	11.4	10.86	94.7	
Q1942-05	SVOC-GPC-BLANK	3	1.00	1.00	2.00	2.00	100.0	
Q1942-06	PEST-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1942-07	PEST-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1942-08	PCB-GPC-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1942-09	PCB-GPC-BLANK-SPIKE	7	1.00	1.00	2.00	2.00	100.0	
Q1942-10	SVOC-GPC2-BLANK	8	1.00	1.00	2.00	2.00	100.0	
Q1942-11	PEST-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1942-12	PEST-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1942-13	PCB-GPC2-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q1942-14	PCB-GCP2-BLANK-SPIKE	12	1.00	1.00	2.00	2.00	100.0	
Q1944-01	MELTED-RUBBER-SAMPLE	13	1.00	1.00	2.00	2.00	100.0	MELTED-RUBBER-SAMPLE
Q1946-01	BB-CONCRETE	14	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1946-02	BB-CONCRETE	15	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1947-01	MH-P	16	1.18	10.19	11.37	9.28	79.5	
Q1947-02	MH-P-EPH	17	1.15	10.84	11.99	10.64	87.5	
Q1947-03	MH-P-VOC	18	1.16	10.71	11.87	10.5	87.2	
Q1947-05	MH-O	19	1.14	10.59	11.73	10.52	88.6	
Q1947-06	MH-O-EPH	20	1.12	10.00	11.12	9.91	87.9	
Q1947-07	MH-O-VOC	21	1.17	10.00	11.17	9.95	87.8	
Q1951-01	MH-KK	22	1.18	10.40	11.58	10.01	84.9	
Q1951-02	MH-KK-EPH	23	1.16	10.29	11.45	9.91	85.0	
Q1951-03	MH-KK-VOC	24	1.17	10.25	11.42	9.86	84.8	
Q1952-01	CLEAN-FILL	25	1.18	10.49	11.67	8.98	74.4	
Q1952-02	CLEAN-FILL-E2	26	1.13	10.10	11.23	8.47	72.7	
Q1953-01	AUD-25-0075	27	1.00	1.00	2.00	2.00	100.0	pilc
Q1953-02	AUD-25-0076	28	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135646

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
Q1953-03	AUD-25-0077	29	1.00	1.00	2.00	2.00	100.0	pilc
Q1954-01	BC260874-1-1	30	1.00	1.00	2.00	2.00	100.0	pilc
Q1954-02	BC260874-1-2	31	1.00	1.00	2.00	2.00	100.0	pilc
Q1955-01	LAW-25-0066	32	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UBC13546

WorkList Name : %1-050225 **WorkList ID :** 189289 **Department :** Wet-Chemistry **Date :** 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	Percent Solids	Cool 4 deg C	AECO02	L21	04/29/2025	Chemtech -SO
Q1913-03	WC-13-S-202504	Solid	Percent Solids	Cool 4 deg C	AECO02	L21	04/29/2025	Chemtech -SO
Q1936-01	SMALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-02	SMALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-03	SMALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-04	SMALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-05	SMALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-06	SMALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-07	SMALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-08	SMALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1937-01	LARGE-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1937-02	LARGE-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-03	LARGE-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-04	LARGE-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-05	LARGE-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-06	LARGE-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-07	LARGE-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-08	LARGE-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-09	LARGE-PILE-E	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-10	LARGE-PILE-E	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-11	LARGE-PILE-F	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: WC

Raw Sample Relinquished by: SH

Date/Time 05/02/25 17:10

Raw Sample Received by: SH

Raw Sample Relinquished by: WC

WORKLIST(Hardcopy Internal Chain)

B135646

WorkList Name : %1-050225 **WorkList ID :** 189289 **Department :** Wet-Chemistry **Date :** 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1937-12	LARGE-PILE-F	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-01	LOWER-WALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-02	LOWER-WALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-03	LOWER-WALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-04	LOWER-WALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-05	LOWER-WALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-06	LOWER-WALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-07	LOWER-WALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-08	LOWER-WALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1942-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1942-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-14	PCB-GCP2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1944-01	MELTED-RUBBER-SAMPLE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1946-01	BB-CONCRETE	Solid	Percent Solids	Cool 4 deg C	METE01	L41	05/02/2025	Chemtech -SO
					PSEG03	L41	05/02/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: JB Lee, SM

Raw Sample Relinquished by: SM

Date/Time 05/02/25 17:10

Raw Sample Received by: SM

Raw Sample Relinquished by: JB Lee

WORKLIST(Hardcopy Internal Chain)

VB135646

WorkList Name : %1-050225 **WorkList ID :** 189289 **Department :** Wet-Chemistry **Date :** 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1946-02	BB-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-01	MH-P	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-02	MH-P-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-03	MH-P-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-05	MH-O	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-06	MH-O-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-07	MH-O-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1951-01	MH-KK	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1951-02	MH-KK-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1951-03	MH-KK-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1952-01	CLEAN-FILL	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1952-02	CLEAN-FILL-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/02/2025	Chemtech -SO
Q1953-01	AUD-25-0075	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/02/2025	Chemtech -SO
Q1953-02	AUD-25-0076	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1953-03	AUD-25-0077	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1954-01	BC260874-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1954-02	BC260874-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1955-01	LAW-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: SB WBC

Raw Sample Relinquished by: SM

Date/Time 05/02/25 17:10

Raw Sample Received by: SM

Raw Sample Relinquished by: SB WBC

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 # LB135678

Review By	jaswal	Review On	5/7/2025 11:28:41 AM
Supervise By	mohan	Supervise On	5/7/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85530,MP85531,MP85532,MP85533,MP85534,MP85535
ICV Standard	MP85536
CCV Standard	MP85538
ICSA Standard	
CRI Standard	MP85540
LCS Standard	
Chk Standard	MP85537,MP85539,MP85541,MP85574

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/06/25 10:00		mohan	OK
2	S0.2	S0.2	CAL2	05/06/25 10:02		mohan	OK
3	S2.5	S2.5	CAL3	05/06/25 10:04		mohan	OK
4	S5	S5	CAL4	05/06/25 10:06		mohan	OK
5	S7.5	S7.5	CAL5	05/06/25 10:14		mohan	OK
6	S10	S10	CAL6	05/06/25 10:19		mohan	OK
7	ICV117	ICV117	ICV	05/06/25 10:25		mohan	OK
8	ICB117	ICB117	ICB	05/06/25 10:27		mohan	OK
9	CCV82	CCV82	CCV	05/06/25 10:30		mohan	OK
10	CCB82	CCB82	CCB	05/06/25 10:35		mohan	OK
11	CRA	CRA	CRDL	05/06/25 10:37		mohan	OK
12	HighStd	HighStd	HIGH STD	05/06/25 10:39		mohan	OK
13	ChkStd	ChkStd	SAM	05/06/25 10:41		mohan	OK
14	PB167875BL	PB167875BL	MB	05/06/25 10:44		mohan	OK
15	PB167875BS	PB167875BS	LCS	05/06/25 10:49		mohan	OK
16	Q1936-01	SMALL-PILE-A	SAM	05/06/25 10:51		mohan	OK
17	Q1936-01DUP	SMALL-PILE-ADUP	DUP	05/06/25 10:53		mohan	OK
18	Q1936-01MS	SMALL-PILE-AMS	MS	05/06/25 10:56		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 # LB135678

Review By	jaswal	Review On	5/7/2025 11:28:41 AM
Supervise By	mohan	Supervise On	5/7/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85530,MP85531,MP85532,MP85533,MP85534,MP85535
ICV Standard	MP85536
CCV Standard	MP85538
ICSA Standard	
CRI Standard	MP85540
LCS Standard	
Chk Standard	MP85537,MP85539,MP85541,MP85574

19	Q1936-01MSD	SMALL-PILE-AMSD	MSD	05/06/25 10:58		mohan	OK
20	Q1936-03	SMALL-PILE-B	SAM	05/06/25 11:00		mohan	OK
21	CCV83	CCV83	CCV	05/06/25 11:03		mohan	OK
22	CCB83	CCB83	CCB	05/06/25 11:05		mohan	OK
23	Q1936-05	SMALL-PILE-C	SAM	05/06/25 11:07		mohan	OK
24	Q1936-07	SMALL-PILE-D	SAM	05/06/25 11:09		mohan	OK
25	Q1937-01	LARGE-PILE-A	SAM	05/06/25 11:12		mohan	OK
26	Q1937-03	LARGE-PILE-B	SAM	05/06/25 11:14		mohan	OK
27	Q1937-05	LARGE-PILE-C	SAM	05/06/25 11:16		mohan	OK
28	Q1937-07	LARGE-PILE-D	SAM	05/06/25 11:19		mohan	OK
29	Q1937-09	LARGE-PILE-E	SAM	05/06/25 11:21		mohan	OK
30	Q1937-11	LARGE-PILE-F	SAM	05/06/25 11:23		mohan	OK
31	Q1938-01	LOWER-WALL-PILE-A	SAM	05/06/25 11:25		mohan	OK
32	Q1938-03	LOWER-WALL-PILE-B	SAM	05/06/25 11:28		mohan	OK
33	CCV84	CCV84	CCV	05/06/25 11:30		mohan	OK
34	CCB84	CCB84	CCB	05/06/25 11:32		mohan	OK
35	Q1938-05	LOWER-WALL-PILE-C	SAM	05/06/25 11:35		mohan	OK
36	Q1938-07	LOWER-WALL-PILE-D	SAM	05/06/25 11:37		mohan	OK
37	Q1946-01	BB-CONCRETE	SAM	05/06/25 11:39		mohan	OK
38	Q1947-01	MH-P	SAM	05/06/25 11:41		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 # LB135678

Review By	jaswal	Review On	5/7/2025 11:28:41 AM
Supervise By	mohan	Supervise On	5/7/2025 11:30:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP85530,MP85531,MP85532,MP85533,MP85534,MP85535
ICV Standard	MP85536
CCV Standard	MP85538
ICSA Standard	
CRI Standard	MP85540
LCS Standard	
Chk Standard	MP85537,MP85539,MP85541,MP85574

39	Q1947-05	MH-O	SAM	05/06/25 11:44		mohan	OK
40	Q1951-01	MH-KK	SAM	05/06/25 11:46		mohan	OK
41	Q1952-01	CLEAN-FILL	SAM	05/06/25 11:48		mohan	OK
42	Q1955-01	LAW-25-0066	SAM	05/06/25 11:50		mohan	OK
43	Q1936-01L	SMALL-PILE-AL	SD	05/06/25 11:53		mohan	OK
44	Q1936-01A	SMALL-PILE-AA	PS	05/06/25 11:55		mohan	OK
45	CCV85	CCV85	CCV	05/06/25 11:57		mohan	OK
46	CCB85	CCB85	CCB	05/06/25 12:00		mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135699

Review By	Janvi	Review On	5/8/2025 12:56:21 PM
Supervise By	jaswal	Supervise On	5/8/2025 4:11:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/07/25 12:34		Kareem	OK
2	S1	S1	CAL2	05/07/25 12:38		Kareem	OK
3	S2	S2	CAL3	05/07/25 12:43		Kareem	OK
4	S3	S3	CAL4	05/07/25 12:47		Kareem	OK
5	S4	S4	CAL5	05/07/25 12:51		Kareem	OK
6	S5	S5	CAL6	05/07/25 12:55		Kareem	OK
7	ICV01	ICV01	ICV	05/07/25 12:59		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/07/25 13:05		Kareem	OK
9	ICB01	ICB01	ICB	05/07/25 13:09		Kareem	OK
10	CRI01	CRI01	CRDL	05/07/25 13:16		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/07/25 13:21		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/07/25 13:25		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/07/25 13:30		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/07/25 13:34		Kareem	OK
15	CCV01	CCV01	CCV	05/07/25 13:39		Kareem	OK
16	CCB01	CCB01	CCB	05/07/25 13:43		Kareem	OK
17	PB167882BL	PB167882BL	MB	05/07/25 13:47		Kareem	OK
18	PB167882BS	PB167882BS	LCS	05/07/25 13:58		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135699

Review By	Janvi	Review On	5/8/2025 12:56:21 PM
Supervise By	jaswal	Supervise On	5/8/2025 4:11:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

19	PB167880BL	PB167880BL	MB	05/07/25 14:04		Kareem	OK
20	PB167880BS	PB167880BS	LCS	05/07/25 14:08		Kareem	OK
21	PB167859BL	PB167859BL	MB	05/07/25 14:12		Kareem	OK
22	PB167859BS	PB167859BS	LCS	05/07/25 14:17		Kareem	OK
23	Q1939-05DL	GB3DL	SAM	05/07/25 14:22	5X for Zn	Kareem	Confirms
24	PB167851TB	PB167851TB	MB	05/07/25 14:26		Kareem	OK
25	Q1947-04	MH-P	SAM	05/07/25 14:31		Kareem	OK
26	CCV02	CCV02	CCV	05/07/25 14:35		Kareem	OK
27	CCB02	CCB02	CCB	05/07/25 14:39		Kareem	OK
28	Q1947-08	MH-O	SAM	05/07/25 14:44		Kareem	OK
29	Q1951-04	MH-KK	SAM	05/07/25 14:48		Kareem	OK
30	Q1956-05	COMP1	SAM	05/07/25 14:53		Kareem	OK
31	Q1959-01	SOIL-PILE	SAM	05/07/25 14:57		Kareem	OK
32	Q1960-03	72-11933	SAM	05/07/25 15:01		Kareem	OK
33	Q1960-03DUP	72-11933DUP	DUP	05/07/25 15:06		Kareem	OK
34	Q1960-03L	72-11933L	SD	05/07/25 15:10		Kareem	OK
35	Q1960-03MS	72-11933MS	MS	05/07/25 15:15		Kareem	OK
36	Q1960-03MSD	72-11933MSD	MSD	05/07/25 15:19		Kareem	OK
37	CCV03	CCV03	CCV	05/07/25 15:23		Kareem	OK
38	CCB03	CCB03	CCB	05/07/25 15:27		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135699

Review By	Janvi	Review On	5/8/2025 12:56:21 PM
Supervise By	jaswal	Supervise On	5/8/2025 4:11:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

39	Q1960-03A	72-11933A	PS	05/07/25 15:32		Kareem	OK
40	Q1956-01	SB1-3-4	SAM	05/07/25 15:36		Kareem	OK
41	Q1956-02	SB2-4-5	SAM	05/07/25 15:40		Kareem	OK
42	Q1956-02DUP	SB2-4-5DUP	DUP	05/07/25 15:44		Kareem	OK
43	Q1956-02L	SB2-4-5L	SD	05/07/25 15:48		Kareem	OK
44	Q1956-03	SB2-4-5MS	MS	05/07/25 15:53		Kareem	OK
45	Q1956-04	SB2-4-5MSD	MSD	05/07/25 15:57		Kareem	OK
46	Q1956-02A	SB2-4-5A	PS	05/07/25 16:01		Kareem	OK
47	CCV04	CCV04	CCV	05/07/25 16:05		Kareem	OK
48	CCB04	CCB04	CCB	05/07/25 16:09		Kareem	OK
49	Q1956-06	SB91-3-4	SAM	05/07/25 16:13		Kareem	OK
50	Q1960-02	72-11933	SAM	05/07/25 16:18		Kareem	OK
51	Q1962-01	HD-01-050525	SAM	05/07/25 16:22		Kareem	OK
52	Q1964-01	MH-LL	SAM	05/07/25 16:26		Kareem	OK
53	Q1936-01	SMALL-PILE-A	SAM	05/07/25 16:30		Kareem	OK
54	Q1936-03	SMALL-PILE-B	SAM	05/07/25 16:35		Kareem	OK
55	Q1936-05	SMALL-PILE-C	SAM	05/07/25 16:39		Kareem	OK
56	Q1936-07	SMALL-PILE-D	SAM	05/07/25 16:43		Kareem	OK
57	CCV05	CCV05	CCV	05/07/25 16:47		Kareem	OK
58	CCB05	CCB05	CCB	05/07/25 16:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135724

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/09/25 12:22		Kareem	OK
2	S1	S1	CAL2	05/09/25 12:27		Kareem	OK
3	S2	S2	CAL3	05/09/25 12:31		Kareem	OK
4	S3	S3	CAL4	05/09/25 12:35		Kareem	OK
5	S4	S4	CAL5	05/09/25 12:40		Kareem	OK
6	S5	S5	CAL6	05/09/25 12:44		Kareem	OK
7	ICV01	ICV01	ICV	05/09/25 12:48		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/09/25 13:12		Kareem	OK
9	ICB01	ICB01	ICB	05/09/25 13:17		Kareem	OK
10	CRI01	CRI01	CRDL	05/09/25 13:21		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/09/25 13:25		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/09/25 13:59		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/09/25 14:03		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/09/25 14:07		Kareem	OK
15	CCV01	CCV01	CCV	05/09/25 14:11		Kareem	OK
16	CCB01	CCB01	CCB	05/09/25 14:15		Kareem	OK
17	PB167892BL	PB167892BL	MB	05/09/25 14:20		Kareem	OK
18	PB167892BS	PB167892BS	LCS	05/09/25 14:24		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135724

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	Q1966-01	CONCRETE-1	SAM	05/09/25 14:28		Kareem	OK
20	Q1966-02	CONCRETE-2	SAM	05/09/25 14:33		Kareem	OK
21	Q1966-02DUP	CONCRETE-2DUP	DUP	05/09/25 14:37		Kareem	OK
22	Q1966-02L	CONCRETE-2L	SD	05/09/25 14:41		Kareem	OK
23	Q1966-02MS	CONCRETE-2MS	MS	05/09/25 14:46		Kareem	OK
24	Q1966-02MSD	CONCRETE-2MSD	MSD	05/09/25 14:50		Kareem	OK
25	Q1966-02A	CONCRETE-2A	PS	05/09/25 14:54		Kareem	OK
26	CCV02	CCV02	CCV	05/09/25 14:59		Kareem	OK
27	CCB02	CCB02	CCB	05/09/25 15:03		Kareem	OK
28	Q1966-03	SILICA-GEL	SAM	05/09/25 15:07	Al high	Kareem	Dilution
29	Q1968-01	MH-N	SAM	05/09/25 15:12		Kareem	OK
30	Q1968-05	MH-M	SAM	05/09/25 15:16		Kareem	OK
31	Q1966-03DL	SILICA-GELDL	SAM	05/09/25 15:20	5x for Al	Kareem	Confirms
32	Q1947-01	MH-P	SAM	05/09/25 15:25		Kareem	OK
33	Q1947-05	MH-O	SAM	05/09/25 15:29		Kareem	OK
34	Q1951-01	MH-KK	SAM	05/09/25 15:33		Kareem	OK
35	Q1952-01	CLEAN-FILL	SAM	05/09/25 15:37		Kareem	OK
36	Q1952-01DUP	CLEAN-FILLDUP	DUP	05/09/25 15:41		Kareem	OK
37	Q1952-01L	CLEAN-FILLL	SD	05/09/25 15:46		Kareem	OK
38	CCV03	CCV03	CCV	05/09/25 15:50		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135724

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

39	CCB03	CCB03	CCB	05/09/25 15:58		Kareem	OK
40	Q1952-01MS	CLEAN-FILLMS	MS	05/09/25 16:02		Kareem	OK
41	Q1952-01MSD	CLEAN-FILLMSD	MSD	05/09/25 16:06		Kareem	OK
42	Q1952-01A	CLEAN-FILLA	PS	05/09/25 16:10		Kareem	OK
43	Q1901-10	B-167-SB02	SAM	05/09/25 16:15	NOT USE	Kareem	Not Ok
44	Q1901-11	B-170-SB02	SAM	05/09/25 16:19	NOT USE	Kareem	Not Ok
45	Q1937-01	LARGE-PILE-A	SAM	05/09/25 16:23		Kareem	OK
46	Q1937-03	LARGE-PILE-B	SAM	05/09/25 16:28		Kareem	OK
47	Q1937-05	LARGE-PILE-C	SAM	05/09/25 16:32		Kareem	OK
48	Q1937-07	LARGE-PILE-D	SAM	05/09/25 16:36		Kareem	OK
49	CCV04	CCV04	CCV	05/09/25 16:40		Kareem	OK
50	CCB04	CCB04	CCB	05/09/25 16:44		Kareem	OK
51	Q1937-09	LARGE-PILE-E	SAM	05/09/25 16:49		Kareem	OK
52	Q1937-11	LARGE-PILE-F	SAM	05/09/25 16:53		Kareem	OK
53	Q1938-01	LOWER-WALL-PILE-A	SAM	05/09/25 16:57		Kareem	OK
54	Q1938-03	LOWER-WALL-PILE-B	SAM	05/09/25 17:01		Kareem	OK
55	Q1938-05	LOWER-WALL-PILE-C	SAM	05/09/25 17:05		Kareem	OK
56	Q1938-07	LOWER-WALL-PILE-D	SAM	05/09/25 17:09		Kareem	OK
57	PB167910BL	PB167910BL	MB	05/09/25 17:13		Kareem	OK
58	PB167910BS	PB167910BS	LCS	05/09/25 17:18		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135724

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

59	Q1969-01	TR-06-05072025	SAM	05/09/25 17:22		Kareem	OK
60	CCV05	CCV05	CCV	05/09/25 17:26		Kareem	OK
61	CCB05	CCB05	CCB	05/09/25 17:30		Kareem	OK
62	Q1972-01	SUB-WC	SAM	05/09/25 17:35		Kareem	OK
63	Q1972-05	WC-B-10	SAM	05/09/25 17:39		Kareem	OK
64	Q1972-09	WC-B-2	SAM	05/09/25 17:43		Kareem	OK
65	Q1972-13	WC-B-7	SAM	05/09/25 17:47		Kareem	OK
66	Q1972-17	SUB-WC-2	SAM	05/09/25 17:51		Kareem	OK
67	Q1972-17DUP	SUB-WC-2DUP	DUP	05/09/25 17:55		Kareem	OK
68	Q1972-17L	SUB-WC-2L	SD	05/09/25 17:59		Kareem	OK
69	Q1972-17MS	SUB-WC-2MS	MS	05/09/25 18:04		Kareem	OK
70	Q1972-17MSD	SUB-WC-2MSD	MSD	05/09/25 18:08		Kareem	OK
71	CCV06	CCV06	CCV	05/09/25 18:12		Kareem	OK
72	CCB06	CCB06	CCB	05/09/25 18:16		Kareem	OK
73	Q1972-17A	SUB-WC-2A	PS	05/09/25 18:20		Kareem	OK
74	Q1972-21	WC-B-1	SAM	05/09/25 18:24		Kareem	OK
75	Q1974-01	OILY-DEBRIS-COMP	SAM	05/09/25 18:28		Kareem	OK
76	Q1974-03	OILY-PADS	SAM	05/09/25 18:33		Kareem	OK
77	Q1976-01	VNJ-207	SAM	05/09/25 18:37		Kareem	OK
78	Q1978-01	72-12016	SAM	05/09/25 18:41		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135724

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

79	CCV07	CCV07	CCV	05/09/25 18:45		Kareem	OK
80	CCB07	CCB07	CCB	05/09/25 18:49		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1936

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB167859,PB167875,

Sequence ID/Qc Batch ID: LB135678,LB135699,LB135724,

Standard ID :

MP84041,MP85241,MP85243,MP85529,MP85530,MP85531,MP85532,MP85533,MP85534,MP85535,MP85536,MP85537,MP85538,MP85539,MP85540,MP85541,MP85542,MP85545,MP85546,MP85547,MP85548,MP85549,MP85551,MP85552,MP85553,MP85554,MP85555,MP85556,MP85557,MP85558,MP85574,

Chemical ID :

M4251,M4583,M4916,M5062,M5429,M5466,M5467,M5470,M5471,M5581,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5815,M5816,M5817,M5820,M5875,M5882,M5884,M5942,M5959,M5962,M5970,M5985,M5997,M6005,M6016,M6021,M6023,M6028,M6030,M6032,M6058,M6076,M6077,M6125,M6126,M6127,M6128,M6137,M6138,M6142,M6144,M6145,M6146,M6150,M6151,M6152,M6155,M6158,M6159,M6161,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP85241	04/16/2025	10/16/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/29/2025

FROM 100.00000gram of M4916 + 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	MP85243	04/16/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/29/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4251 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP85529	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 1.00000ml of M6158 + 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	MP85530	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 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	MP85531	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85529 = 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	MP85532	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 245.00000ml of W3112 + 2.50000ml of MP85529 = 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	MP85533	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 242.50000ml of W3112 + 5.00000ml of MP85529 = 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	MP85534	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 240.00000ml of W3112 + 7.50000ml of MP85529 = 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	MP85535	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 237.50000ml of W3112 + 10.00000ml of MP85529 = 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	MP85536	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 2.50000ml of M6161 + 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)	MP85537	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 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)	MP85538	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6158 + 10.00000ml of MP85529 = 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)	MP85539	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6158 = 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)	MP85540	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85529 = 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)	MP85541	05/05/2025	05/06/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 2.50000ml of M6158 + 240.50000ml of W3112 + 7.00000ml of MP85529 = 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
887	AQUA REGIA FOR HG ON 7471A	MP85542	05/05/2025	05/06/2025	Mohan Bera	None	None	Janvi Patel 05/07/2025

FROM 150.00000ml of M6151 + 50.00000ml of M6158 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP85545	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6158 = 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
907	ICP AES STD S (S5)	MP85546	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 5.00000ml of M5466 + 5.00000ml of M5471 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M5997 + 5.00000ml of M6076 + 5.00000ml of M6146 + 455.00000ml of MP85545 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP85547	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 50.00000ml of MP85545 + 50.00000ml of MP85546 = 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
909	ICP AES STD S3	MP85548	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 25.00000ml of MP85546 + 75.00000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP85549	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 16.00000ml of MP85546 + 184.00000ml of MP85545 = 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
2950	ICP AES S1/CRI STOCK STD	MP85551	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.05000ml of M6159 + 0.06000ml of M5747 + 0.10000ml of M5471 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 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 M6021 + 0.20000ml of M6023 + 0.20000ml of M6145 + 0.25000ml of M5466 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6138 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP85552	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 2.00000ml of MP85551 + 98.00000ml of MP85545 = 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
912	ICP AES ICV SOLN	MP85553	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5467 + 0.25000ml of M5470 + 0.25000ml of M6058 + 10.00000ml of M6150 + 89.32500ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP85554	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP85545 = 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
3494	ICP AES ICSAB SOLN-1	MP85555	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5470 + 0.10000ml of M5970 + 0.10000ml of M6077 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.68000ml of MP85545 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP85556	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 50.00000ml of MP85545 + 50.00000ml of MP85546 = 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
919	ICP AES INTERNAL STD	MP85557	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6158 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP85558	05/02/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 200.00000ml of M6158 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP85574	05/06/2025	05/07/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 05/07/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = 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	12/19/2018 / mohan	12/05/2018 / mohan	M4251

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
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

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	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

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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.	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	04/14/2025 / jaswal	03/16/2023 / jaswal	M5470

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	04/14/2025 / jaswal	03/16/2023 / jaswal	M5471

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	03/20/2026	03/20/2025 /	06/12/2023 / jaswal	M5581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

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

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

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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.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

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

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.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

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CHEMICAL RECEIPT LOG BOOK

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

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	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

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.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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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.	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	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	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	12/21/2027	02/03/2025 / JANVI	02/22/2024 / kareem	M5997

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/30/2026	04/15/2025 / JANVI	05/14/2024 / Jaswal	M6005

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	10/30/2025	04/30/2025 / mohan	05/14/2024 / Jaswal	M6016

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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 #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

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	01/01/2026	01/01/2025 / kareem	09/19/2024 / kareem	M6076

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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

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 #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

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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.	58120 / Ca, 10000 PPM, 500 ml	121824	12/18/2027	04/17/2025 / Janvi	01/13/2025 / Jaswal	M6138

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	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

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

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	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

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	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

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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)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

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	06/20/2025	02/10/2025 / kareem	02/09/2024 / kareem	M6155

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	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

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	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	07/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

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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

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Fair Lawn, NJ 07410
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201.796.1329 fax

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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.

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Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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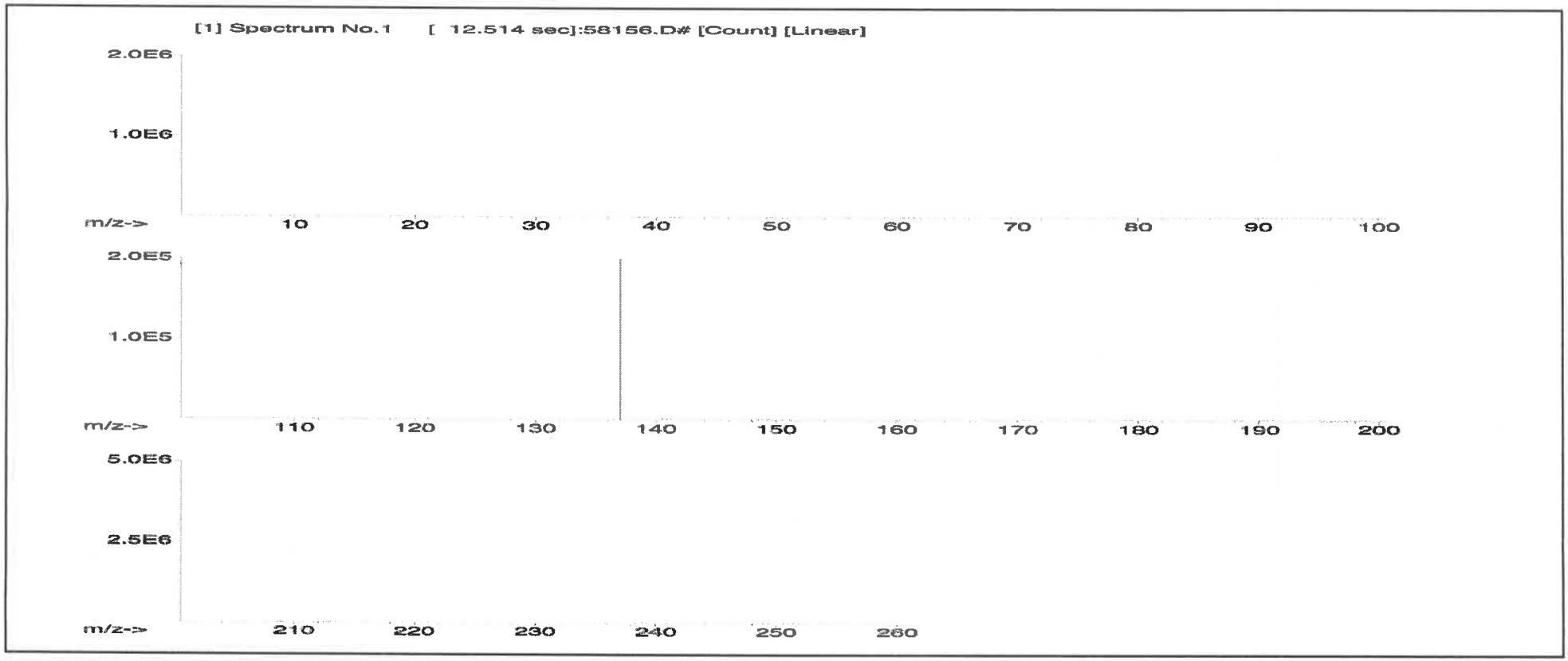
CERTIFIED WEIGHT REPORT:

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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Certified Reference Material CRM

R 8/5/24

M6028

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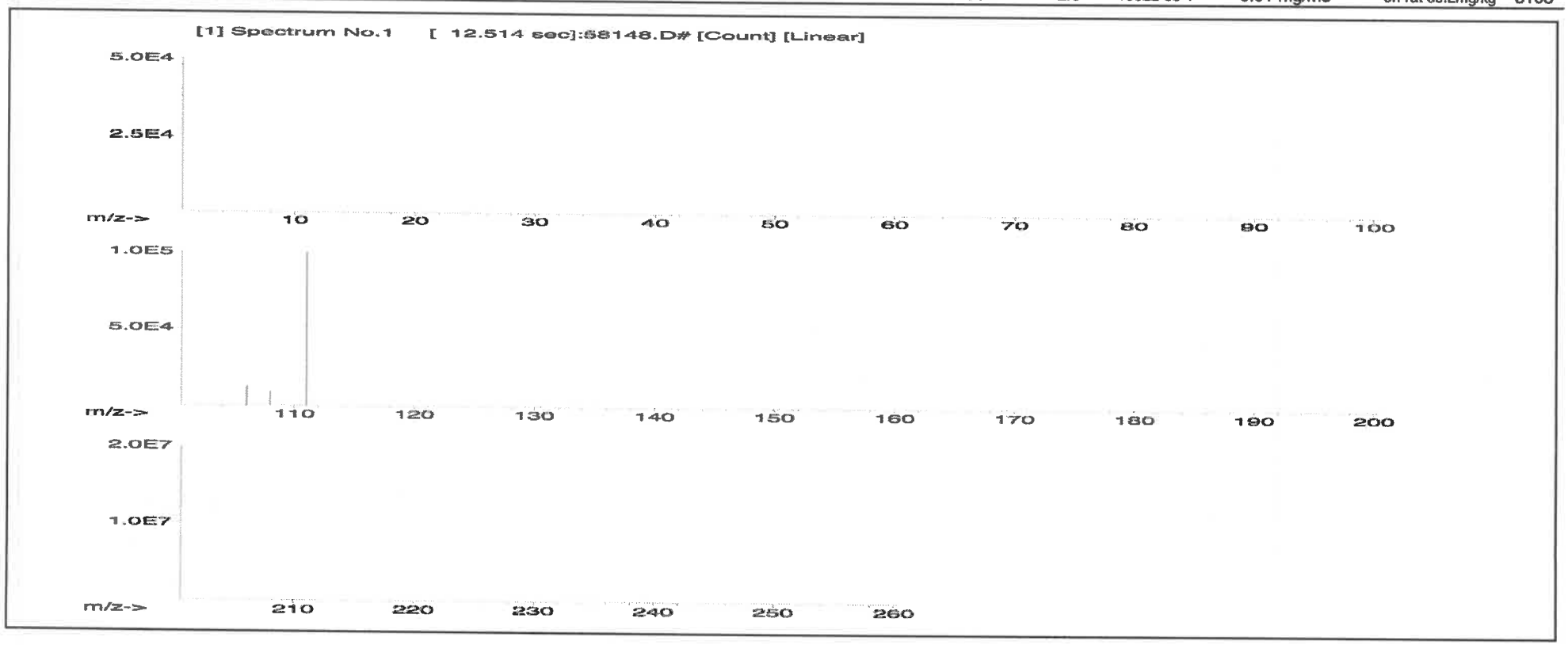
CERTIFIED WEIGHT REPORT:

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).

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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:	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

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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

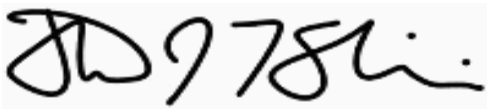
- Sealed TCT Bag Open Date: _____

- 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



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Certified Reference Material CRM

R : 01/03/24. M5810, M5811

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

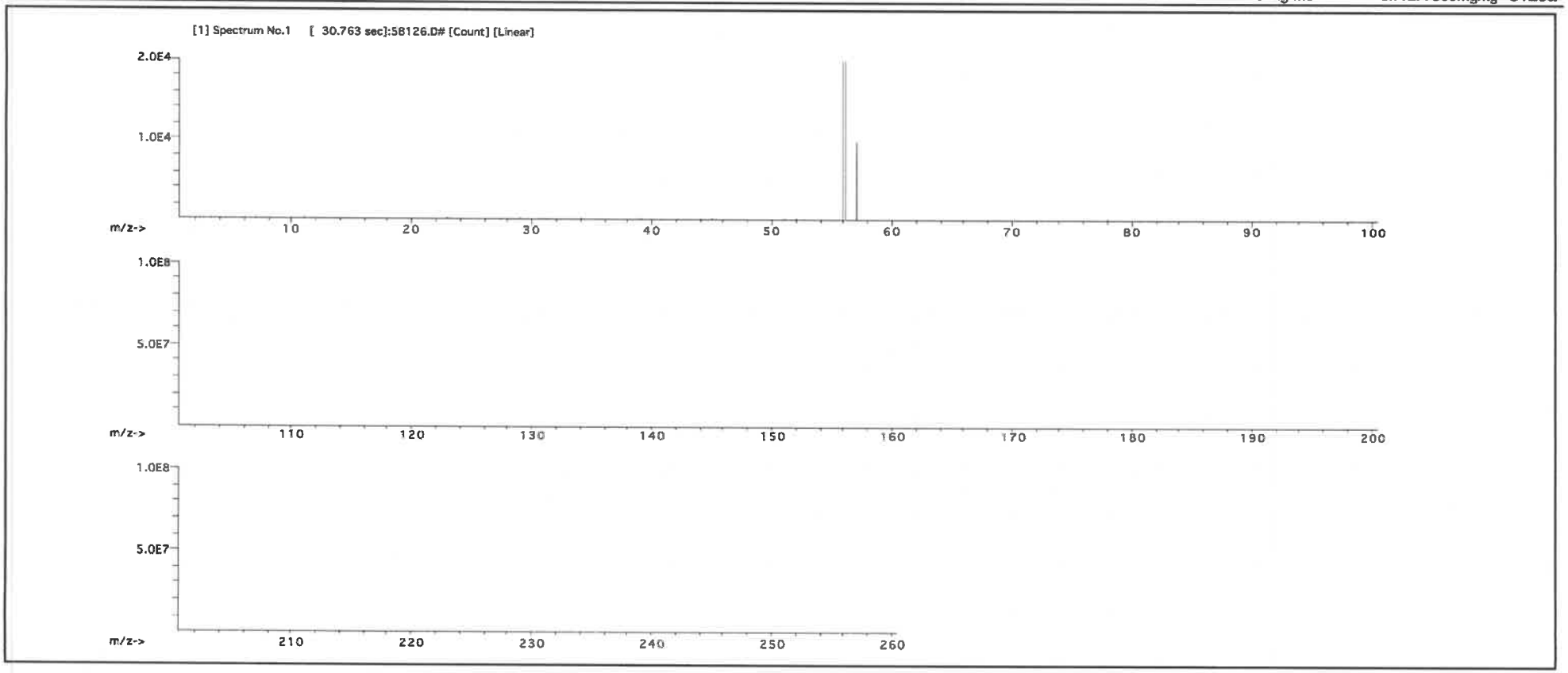
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

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 (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	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	<0.05	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	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

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 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



Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

M4251
JB

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

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

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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

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5429 R1 01/26/23 BH

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

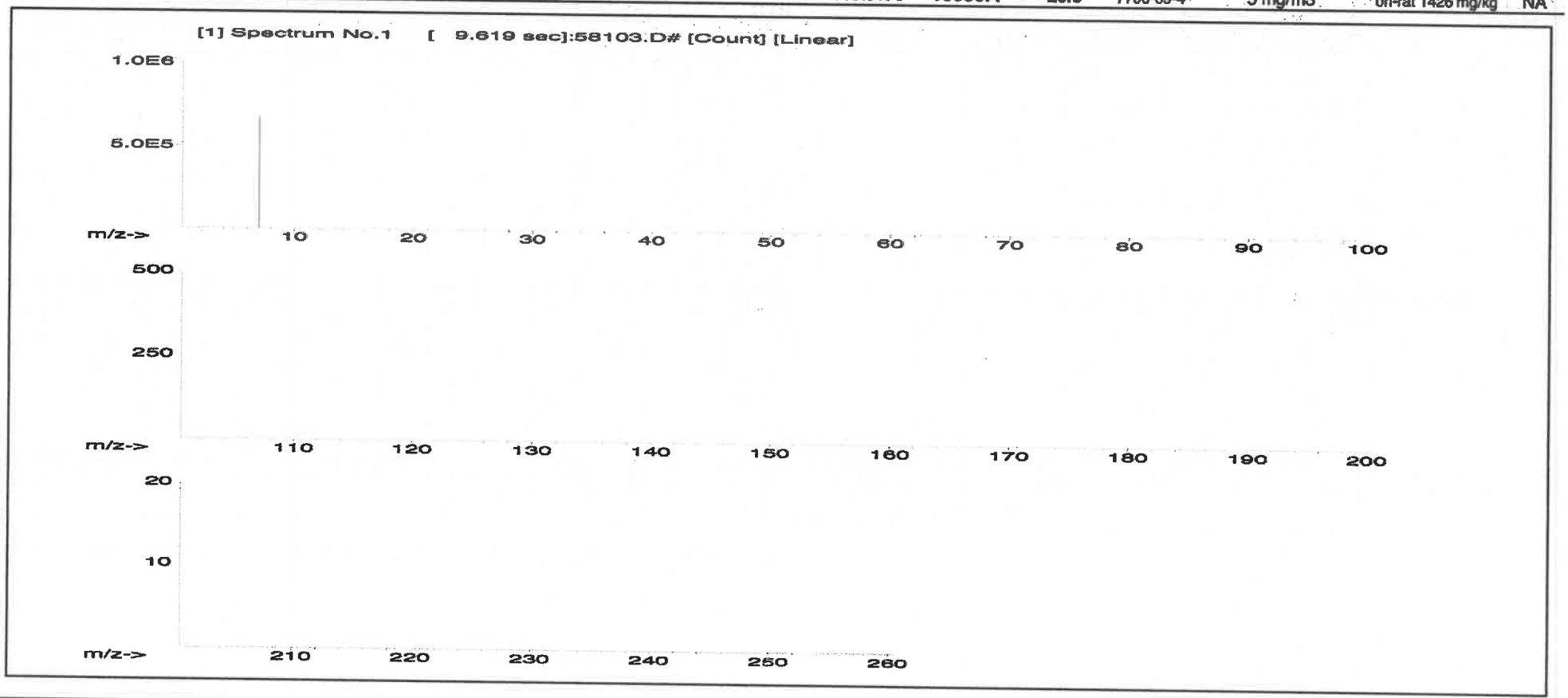
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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.
* 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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IN 5466
R: 03/01/23 BH

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CERTIFIED WEIGHT REPORT:

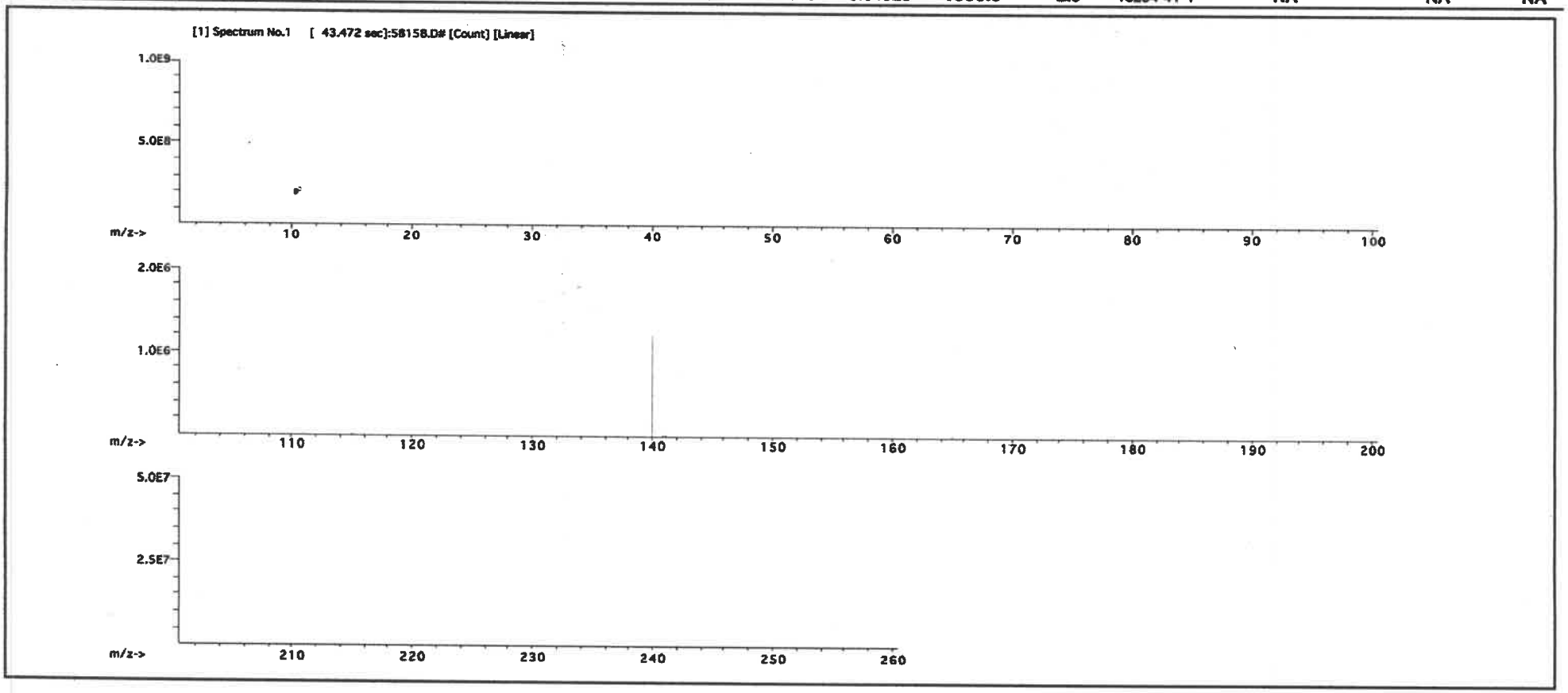
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	061322
Reviewed By:	Pedro L. Rentas	061322

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	3.04923	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.
* 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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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

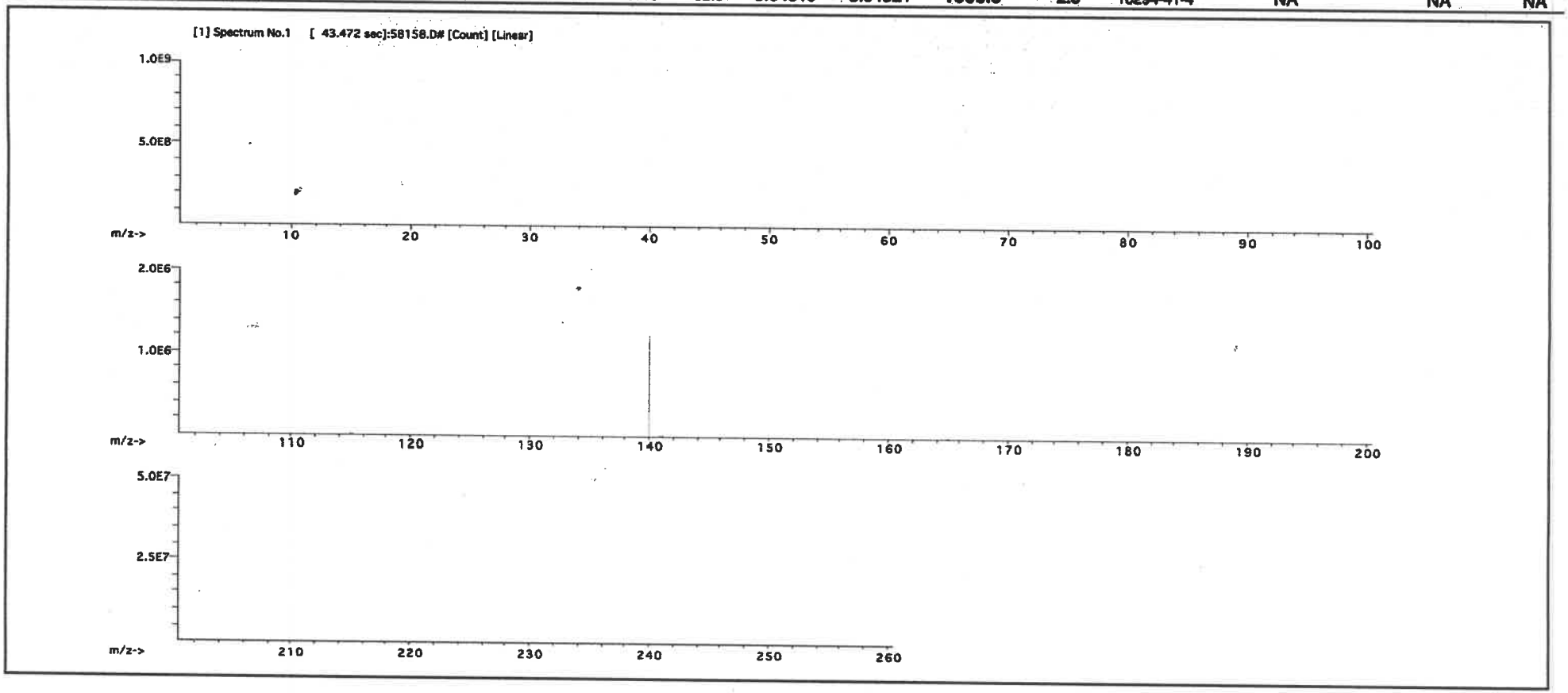
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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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* 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).

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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Certified Reference Material CRM

M5658 R ! 8/25/23

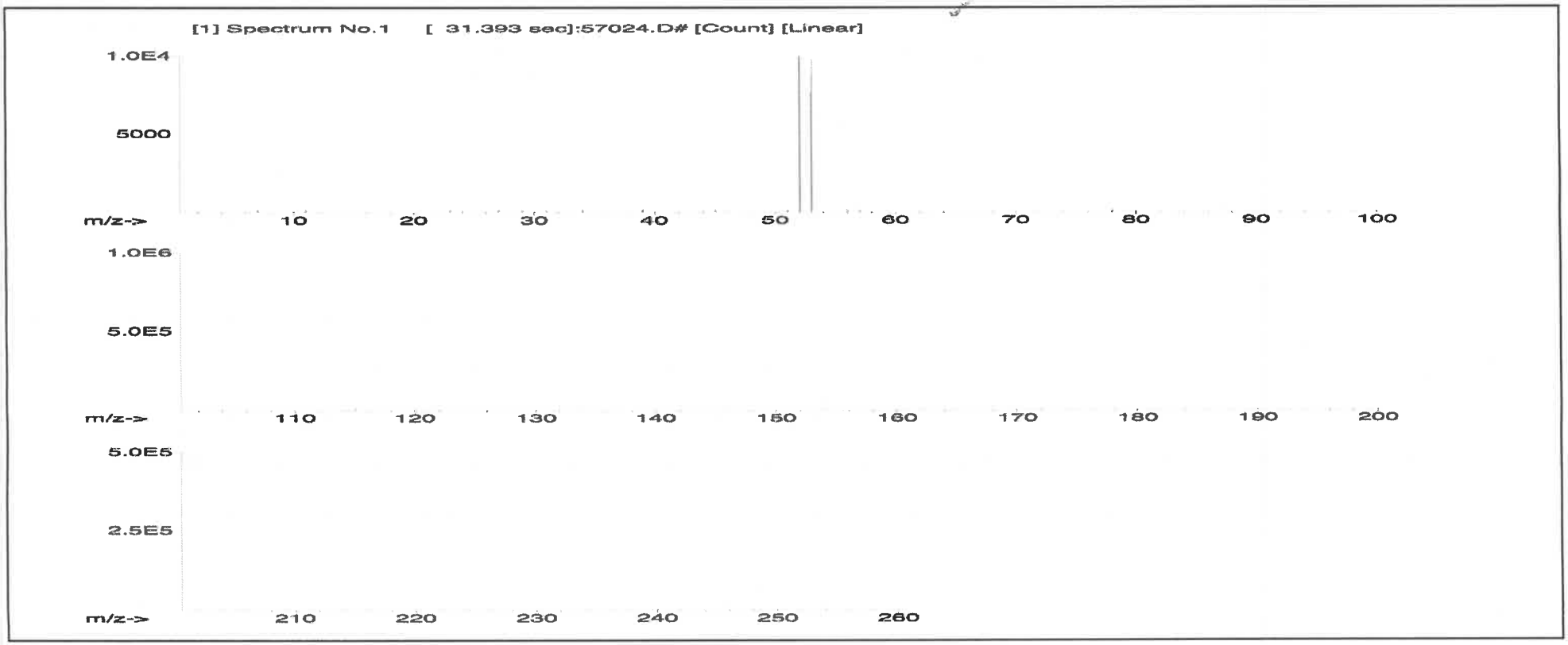
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Certified Reference Material CRM

R: 12/20/23 M5747

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AR-1539 Certificate Number
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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

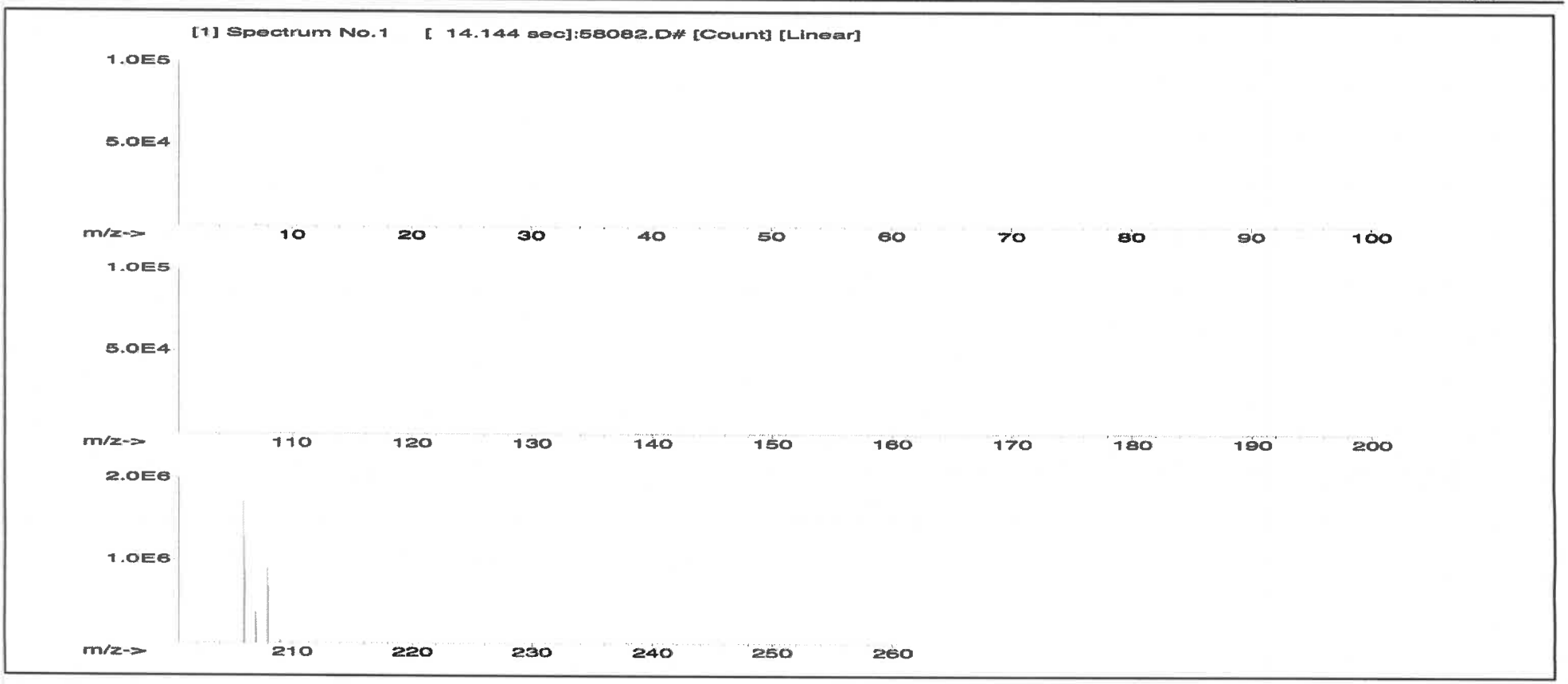
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	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

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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R: 12/20/23 M5748

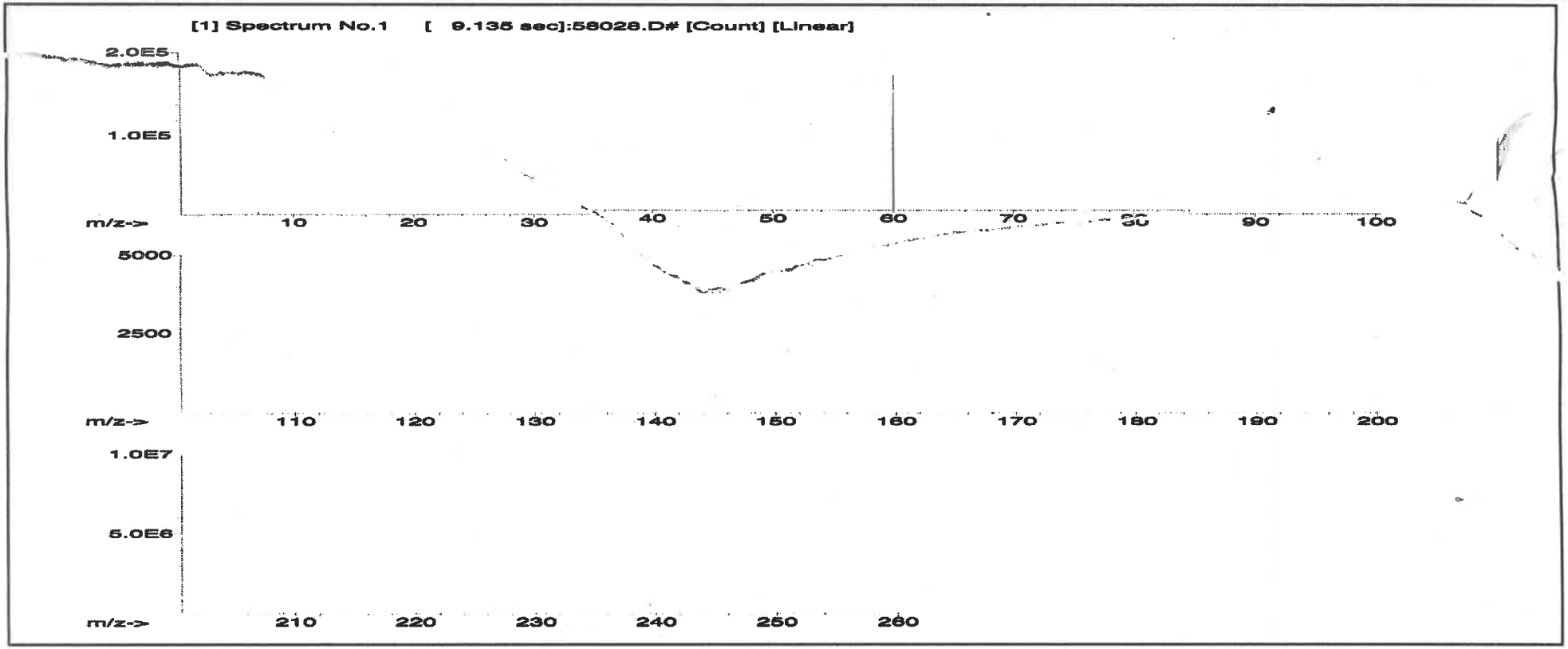
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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: 8/25/23 M5751

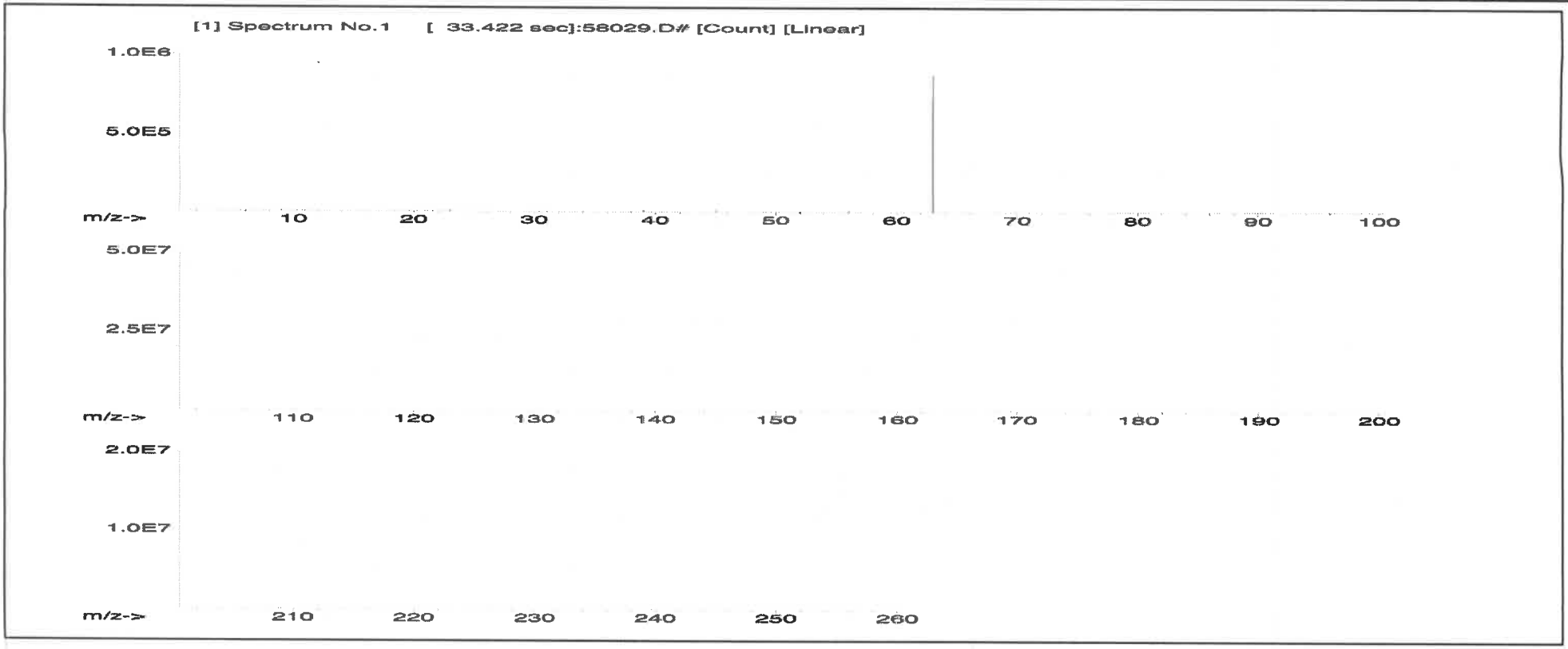
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
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	071723
Reviewed By:	Pedro L. Rentas	071723

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	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 02/09/24 M5798

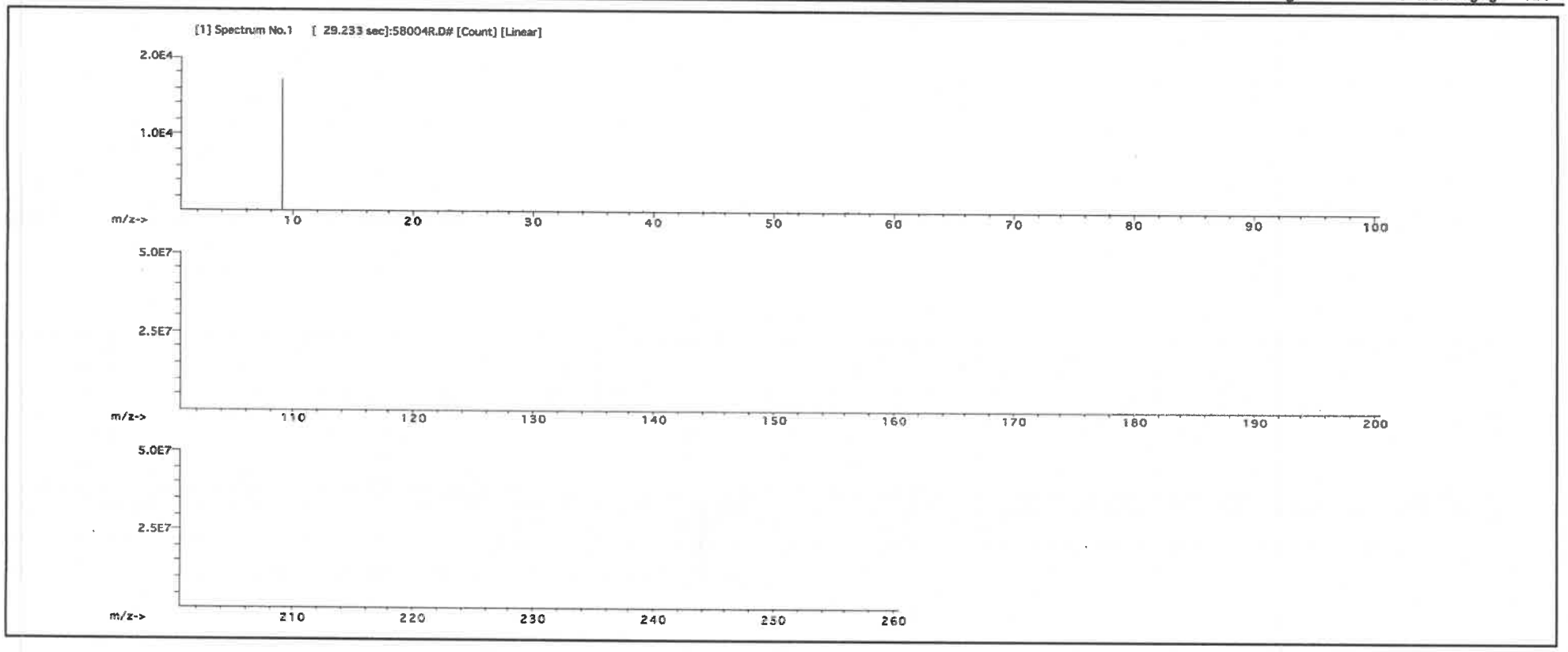
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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)

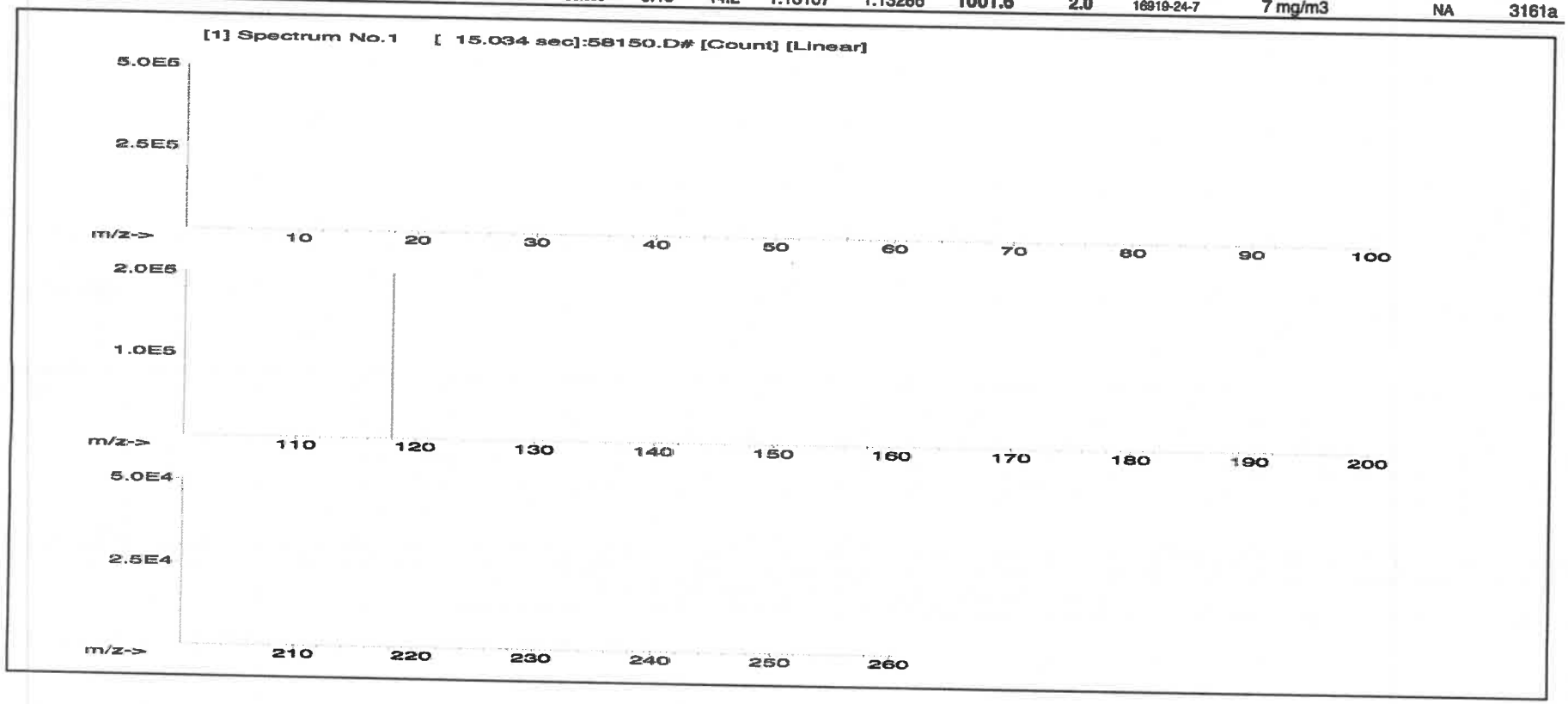
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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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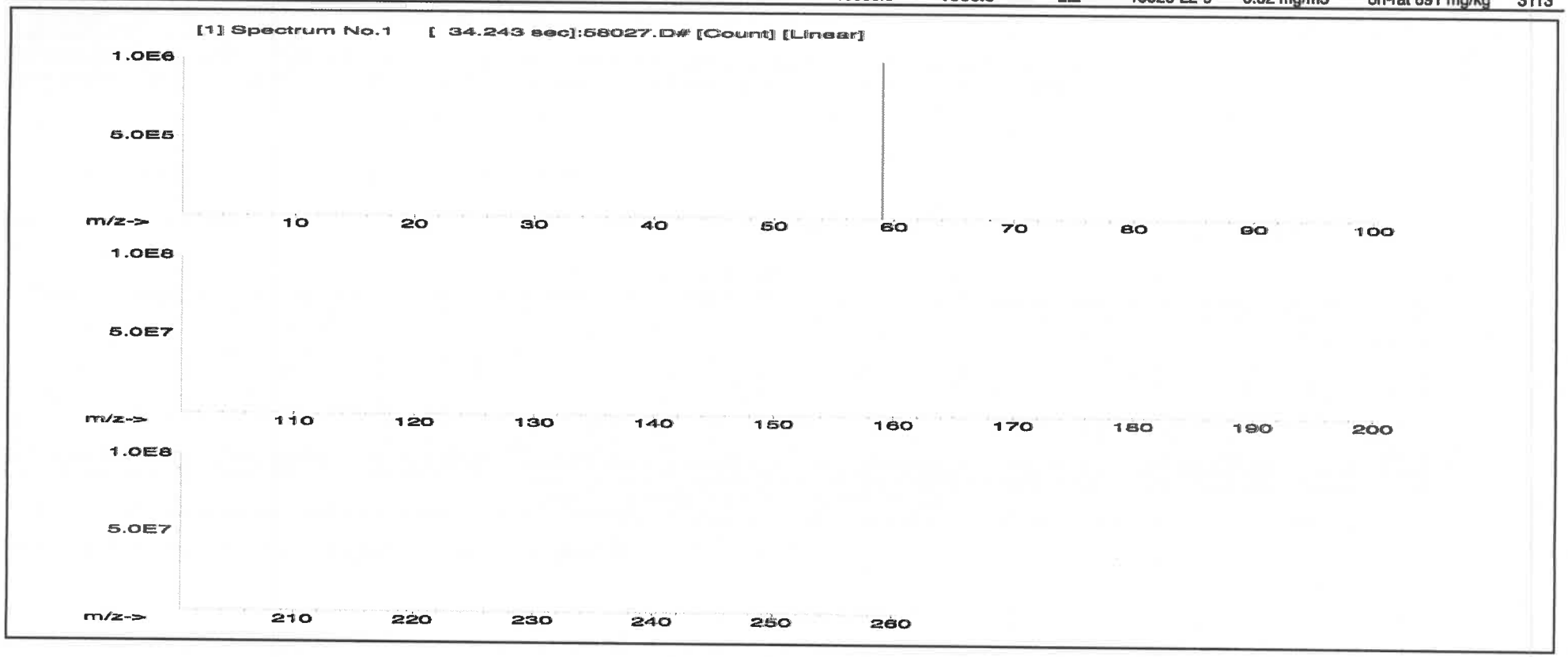
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CERTIFIED WEIGHT REPORT:

		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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* 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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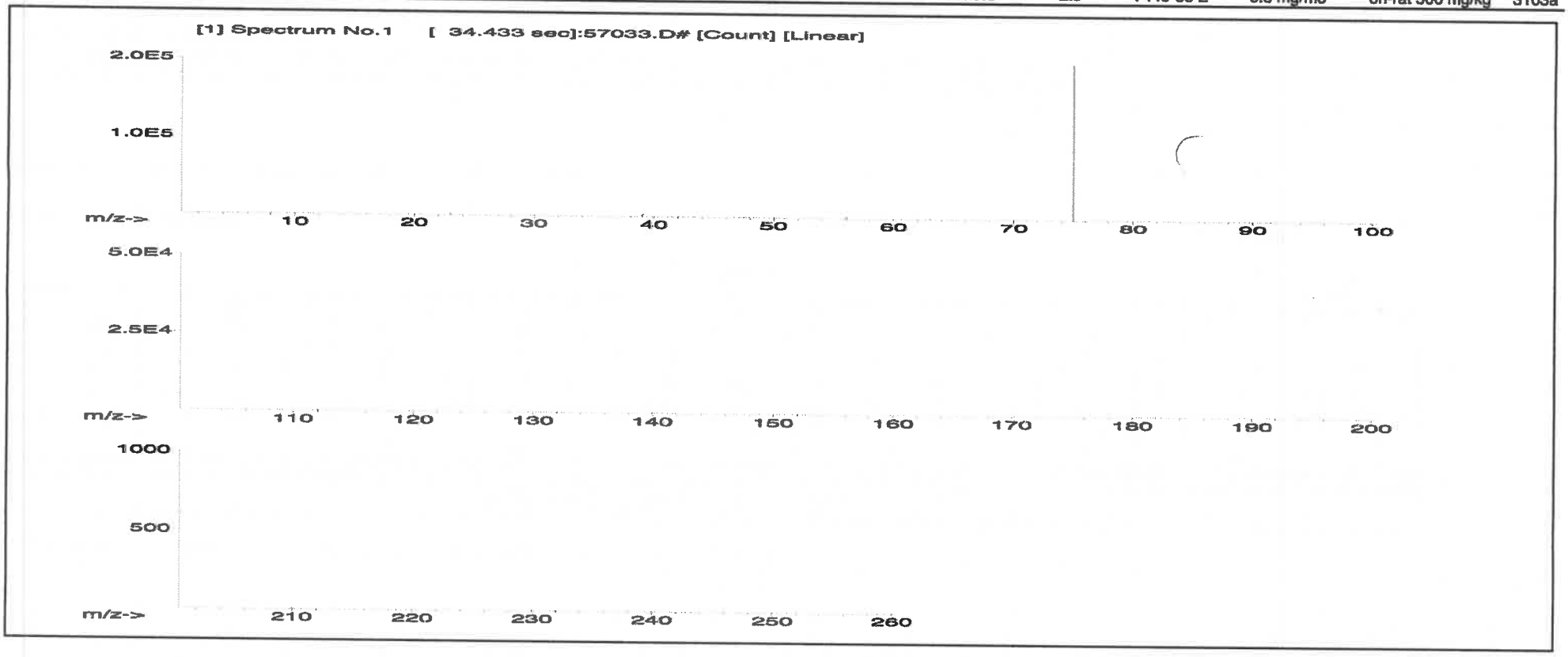
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CERTIFIED **WEIGHT** REPORT:

		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.

* 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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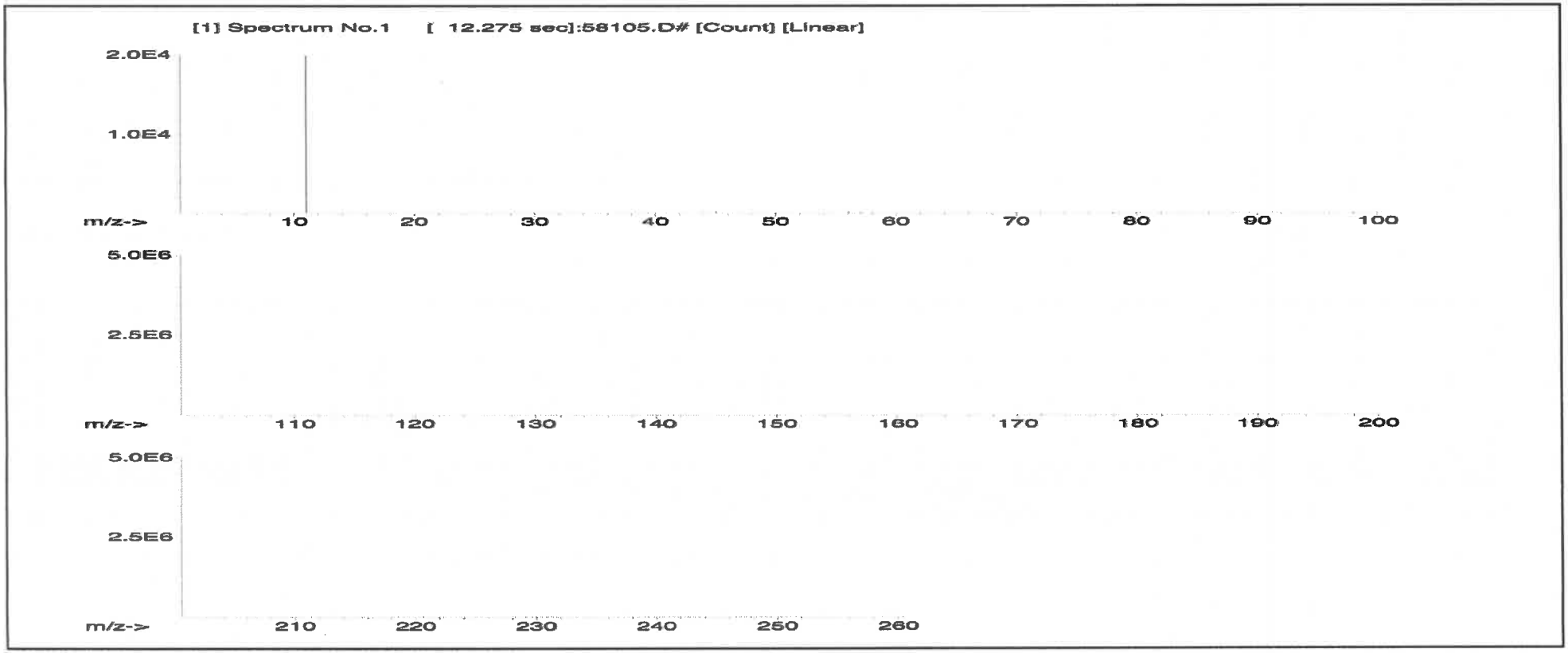
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CERTIFIED WEIGHT REPORT:

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:

* 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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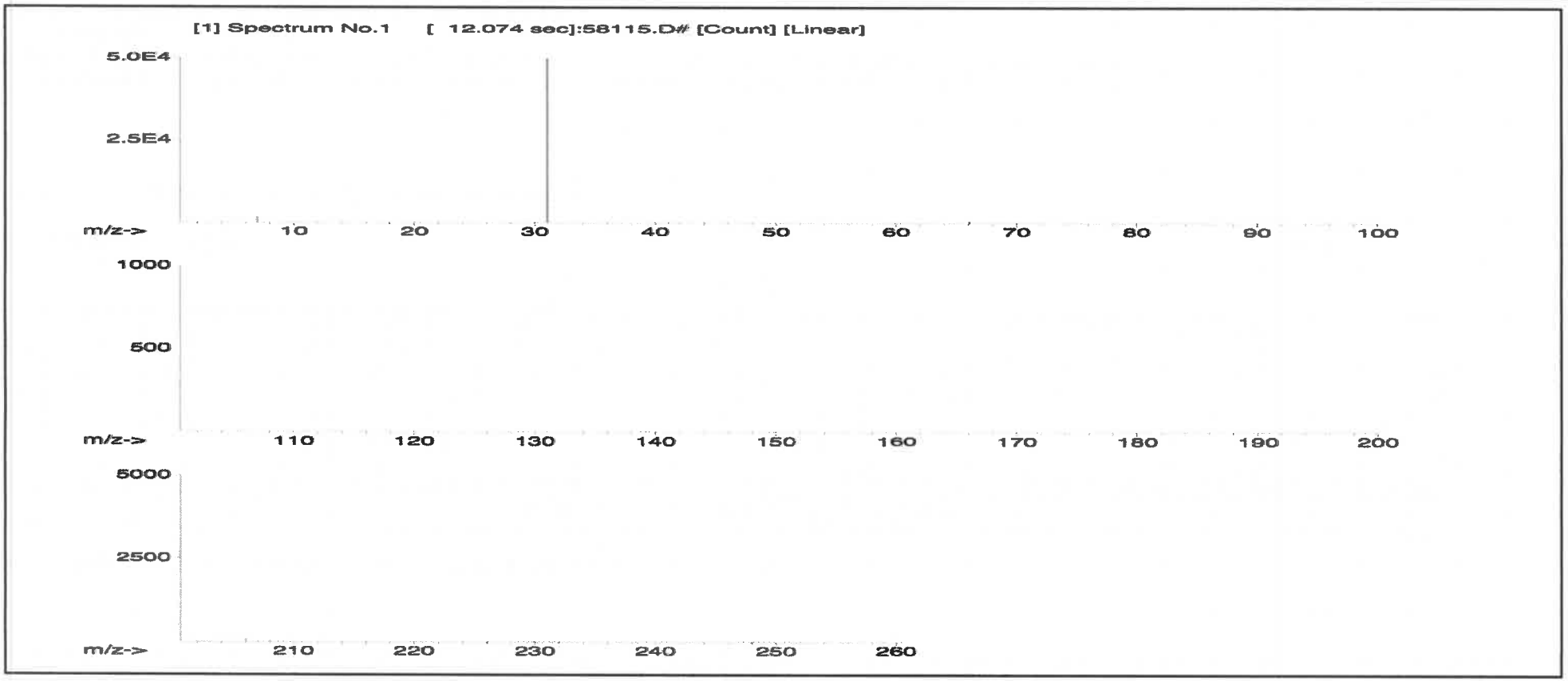
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CERTIFIED WEIGHT REPORT:

			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.
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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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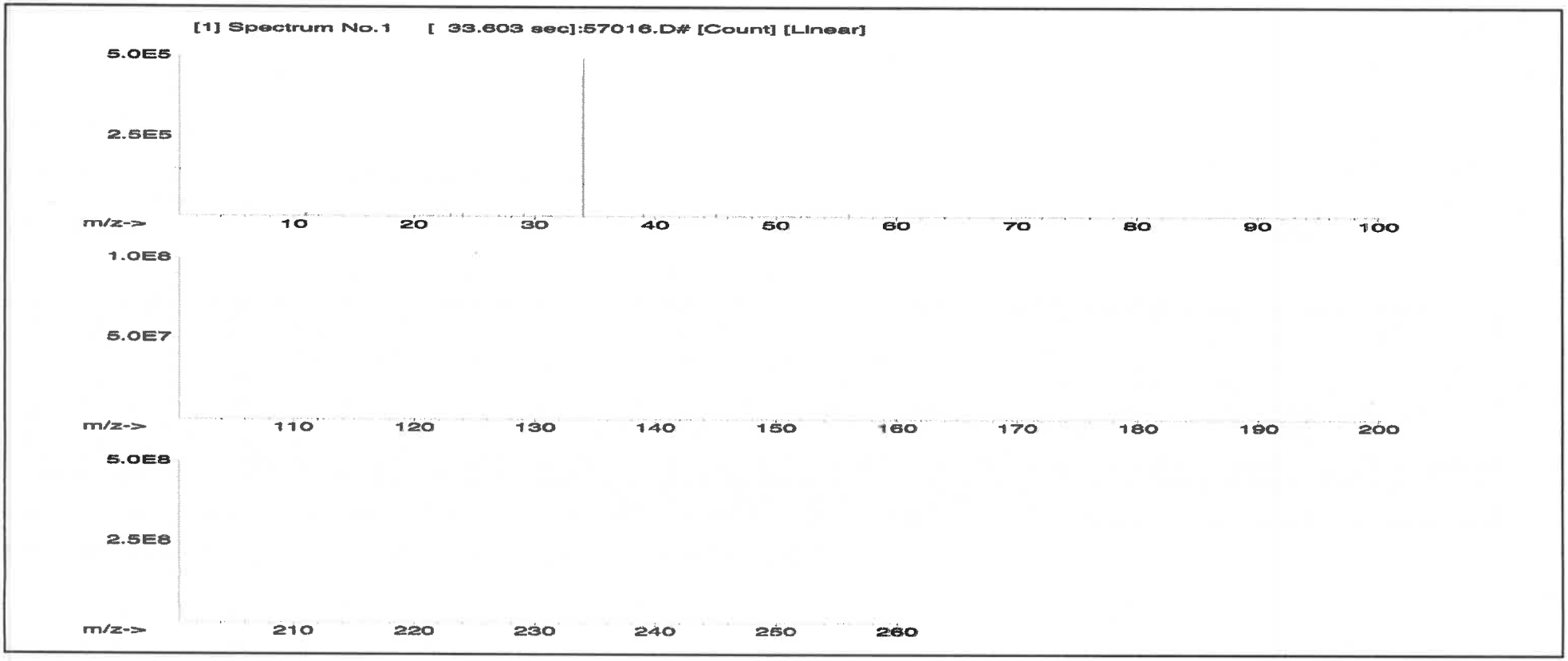
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CERTIFIED WEIGHT REPORT:

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.
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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:

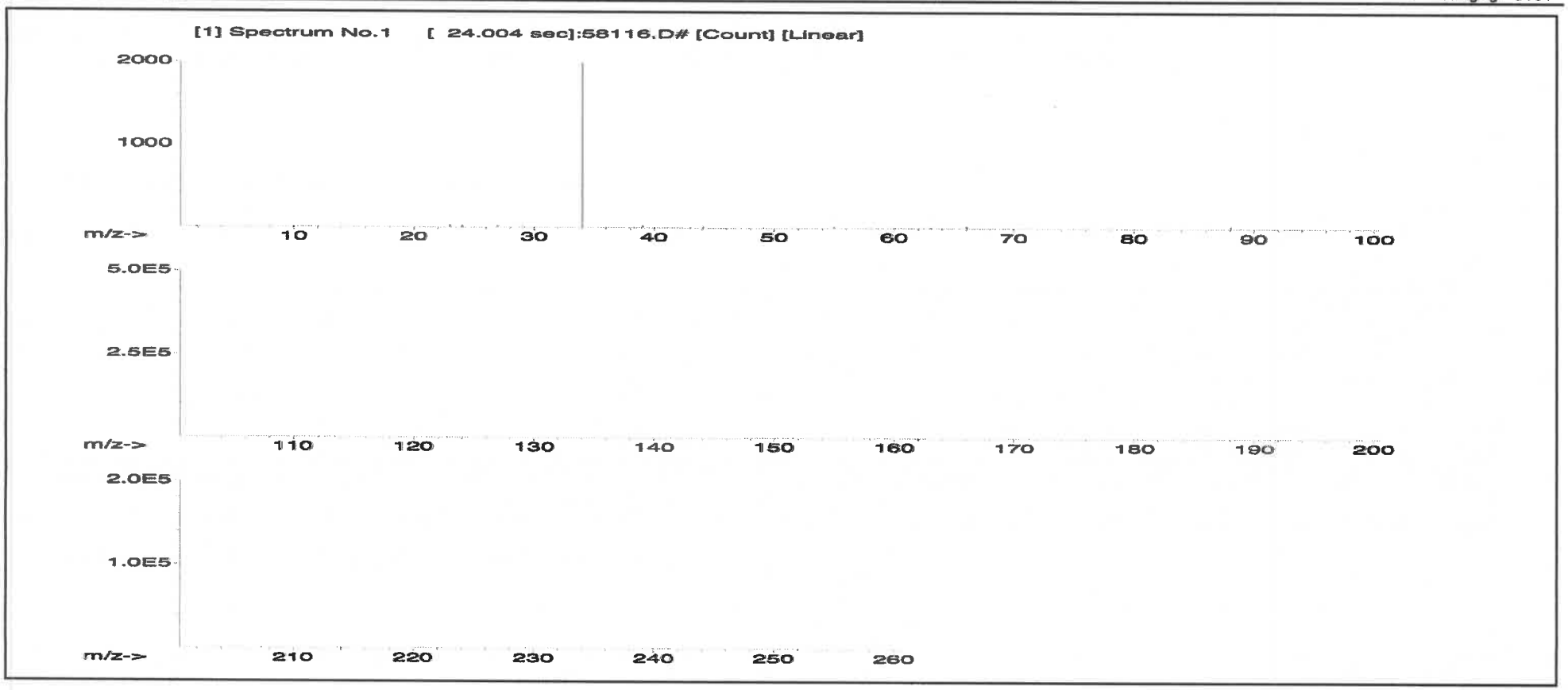
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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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* 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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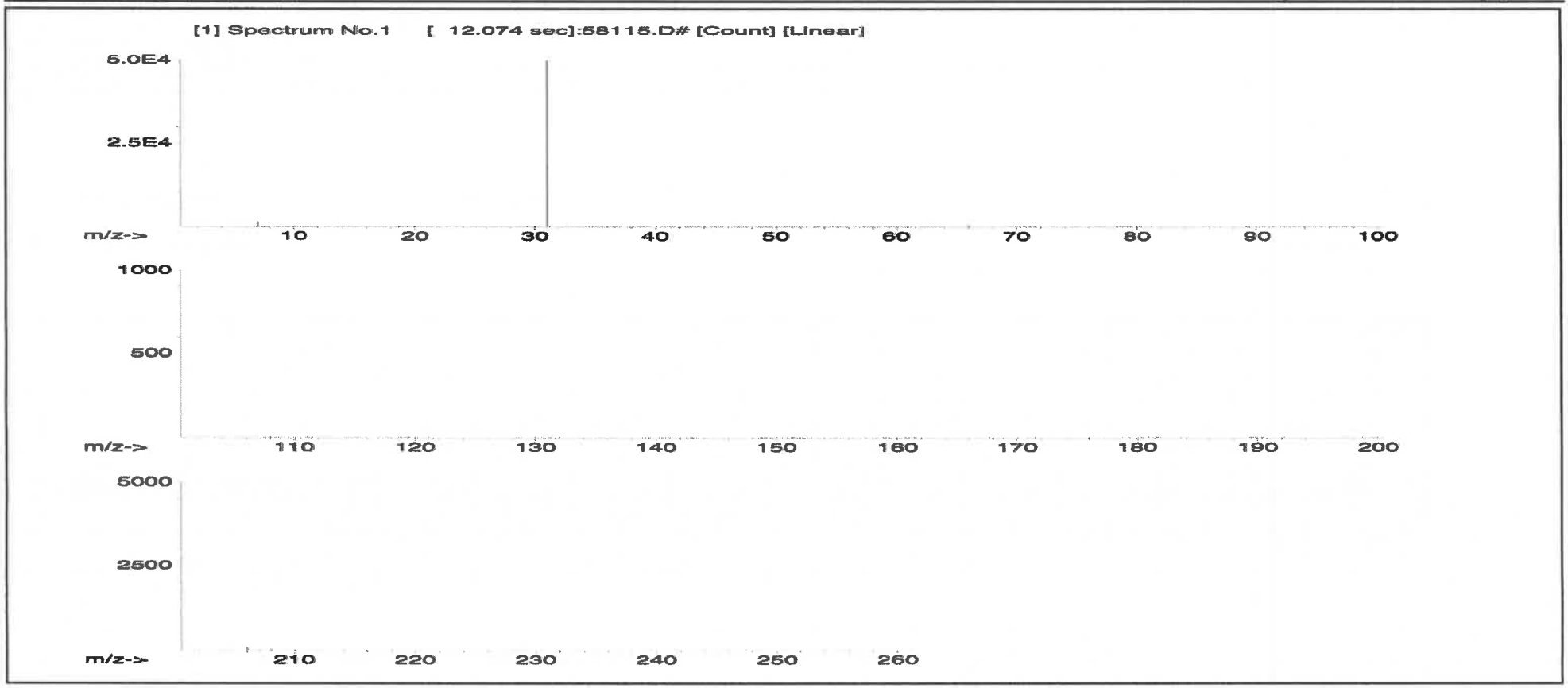
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CERTIFIED WEIGHT REPORT:

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.

* 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).

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

INORGANIC VENTURES™
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Certificate of Analysis

R: 02/22/24 M5942

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:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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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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 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

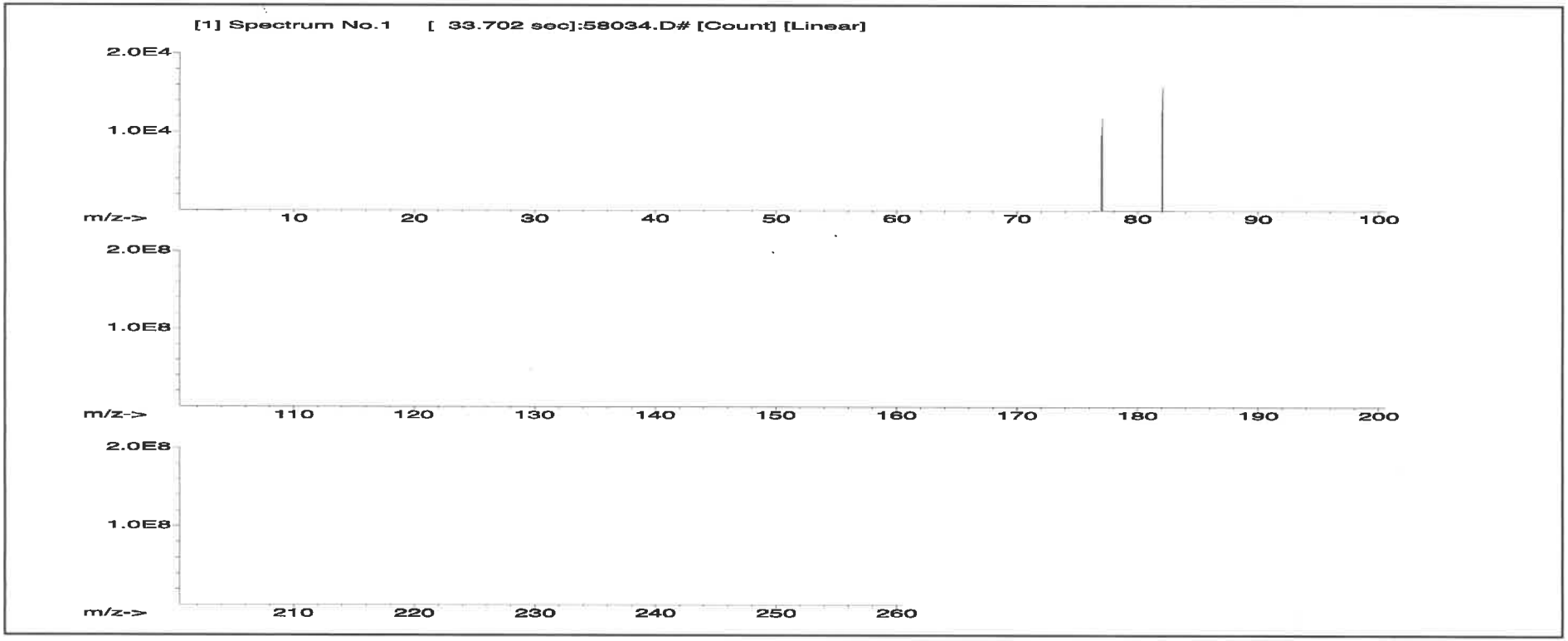
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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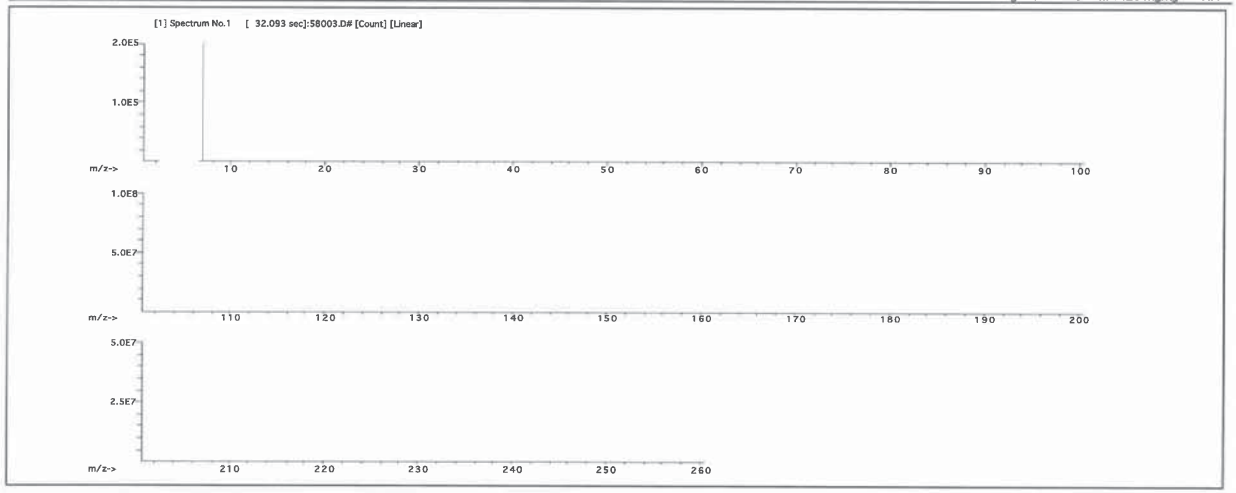
CERTIFIED WEIGHT REPORT:

		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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

MS985
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



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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

R: 2/22/24
MS-997

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB727800
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 ± 7 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.2 µg/mL**
Lead, Pb	**1 000 ± 4 µg/mL**	**Selenium, Se**	**1 000 ± 6 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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)

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**

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

December 21, 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

- December 21, 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! 08/22/24 M6058, M6059

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-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 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: 1.032 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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)

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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 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

- August 12, 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



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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

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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



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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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info@inorganicventures.com

EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	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

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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



M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

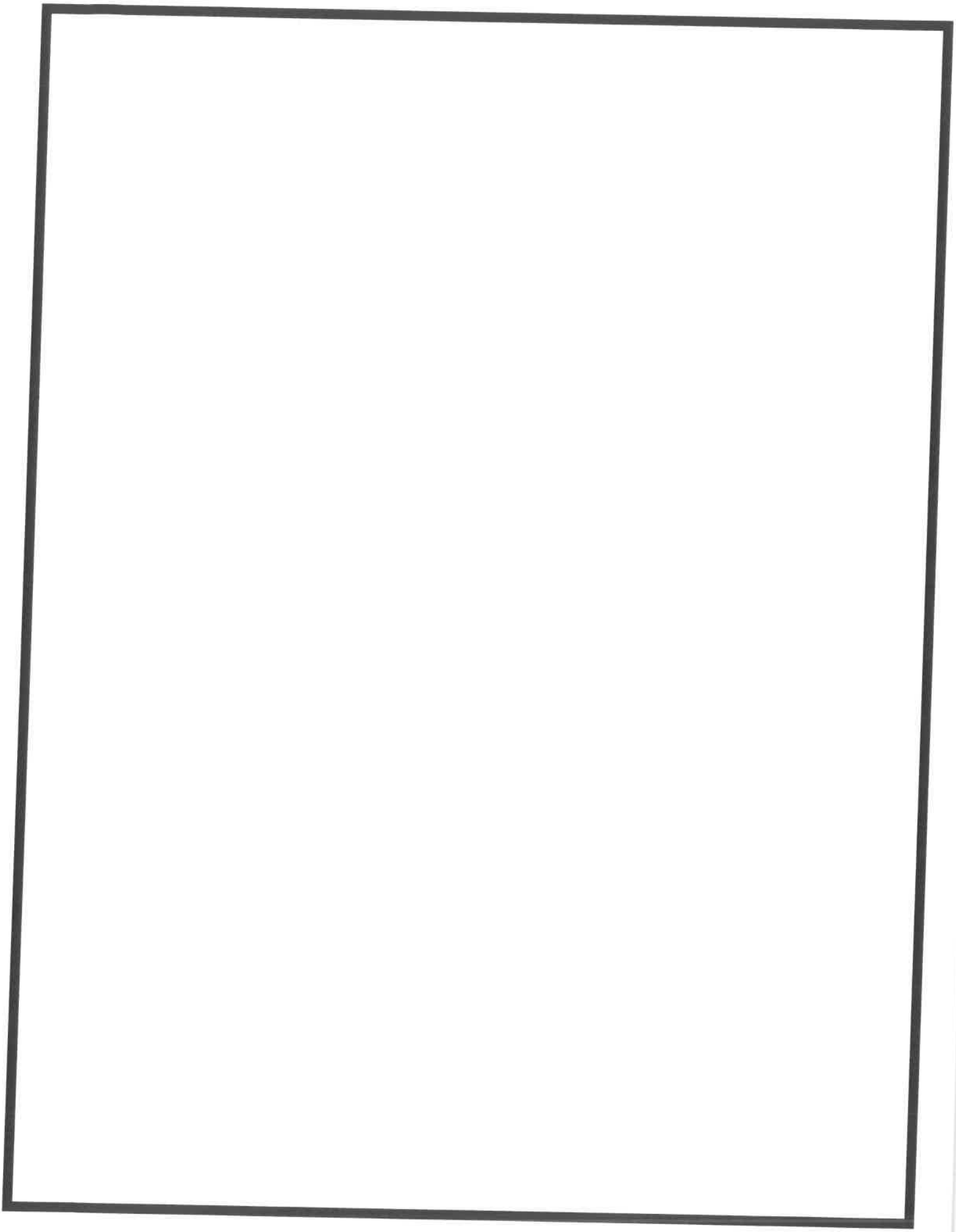
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

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

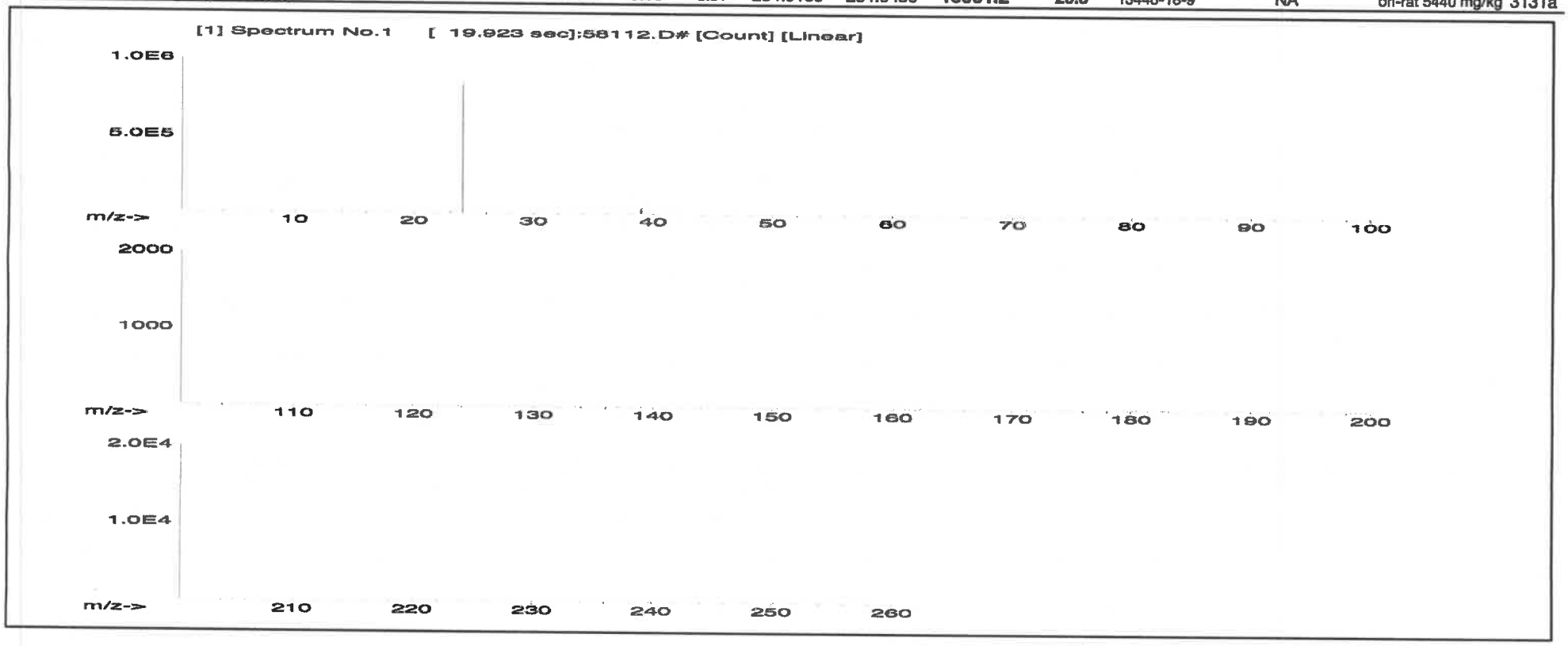
M 6127

			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.
* 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).

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->1/13/28

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	

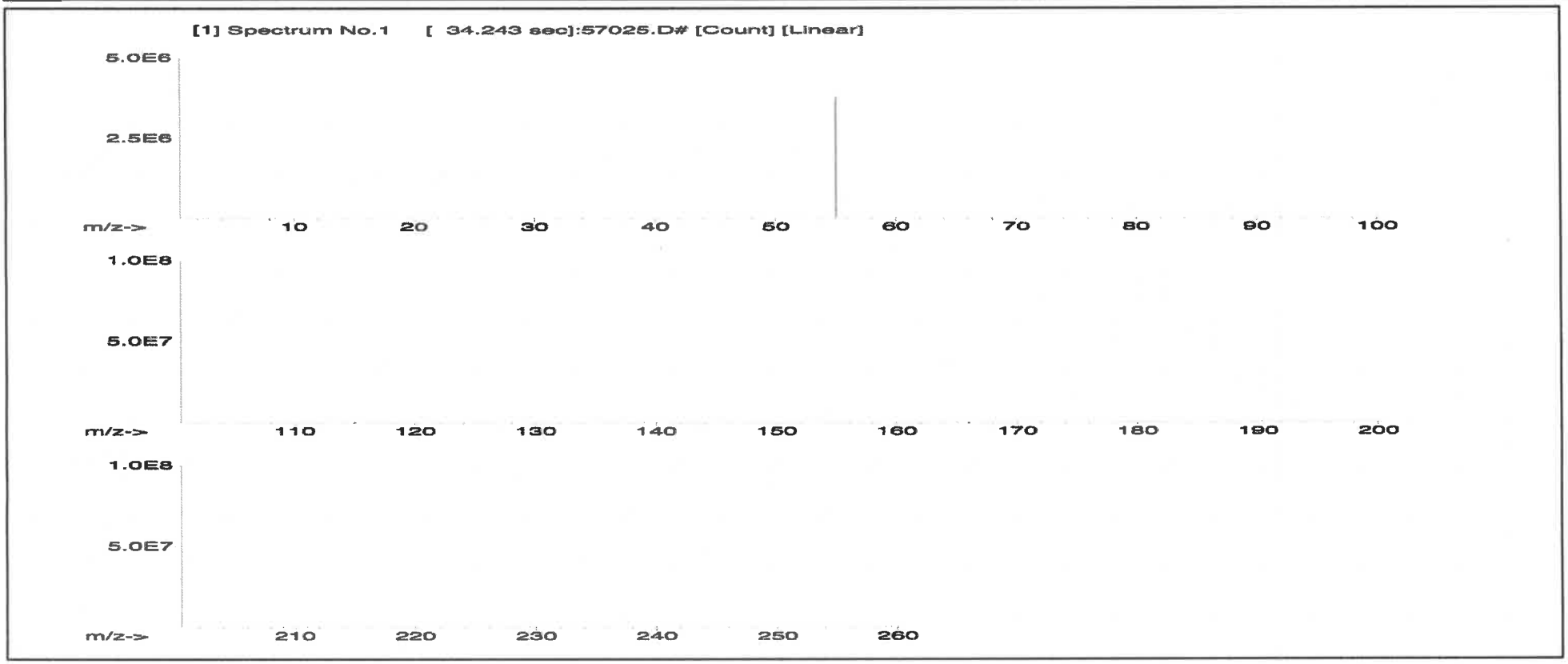
Giovanni Esposito

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:



* 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

M6137 R→10/3/24

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 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 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	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

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 - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. 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 silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

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

July 10, 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

- **July 10, 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

M6138
R->1/13/25

CERTIFIED WEIGHT REPORT:

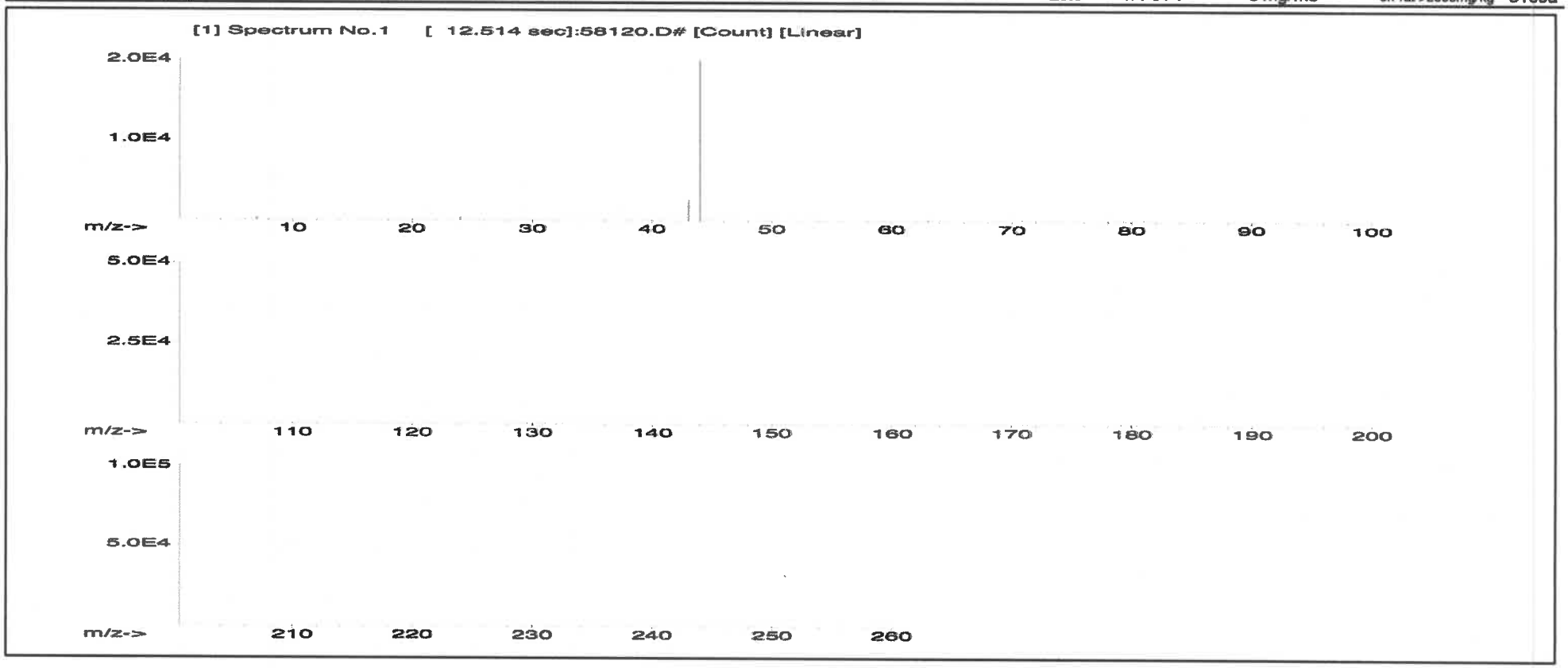
Part Number: 58120
Lot Number: 121824
Description: Calcium (Ca)
Expiration Date: 121827
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.1

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.15	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	121824
Reviewed By:	Pedro L. Rentas	121824

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	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2677	**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	30	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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* 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-> 1/13/25

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

M6141
M6142
M6143

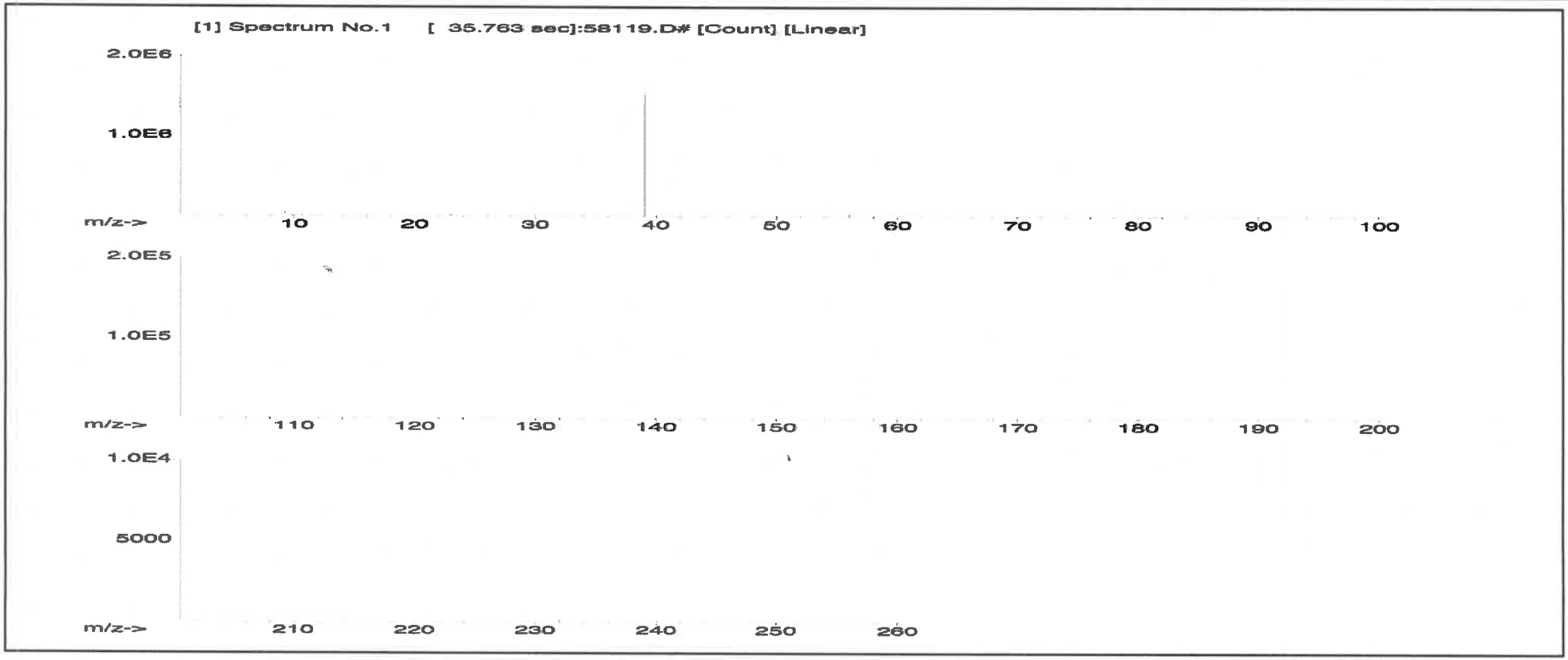
Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

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	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 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.

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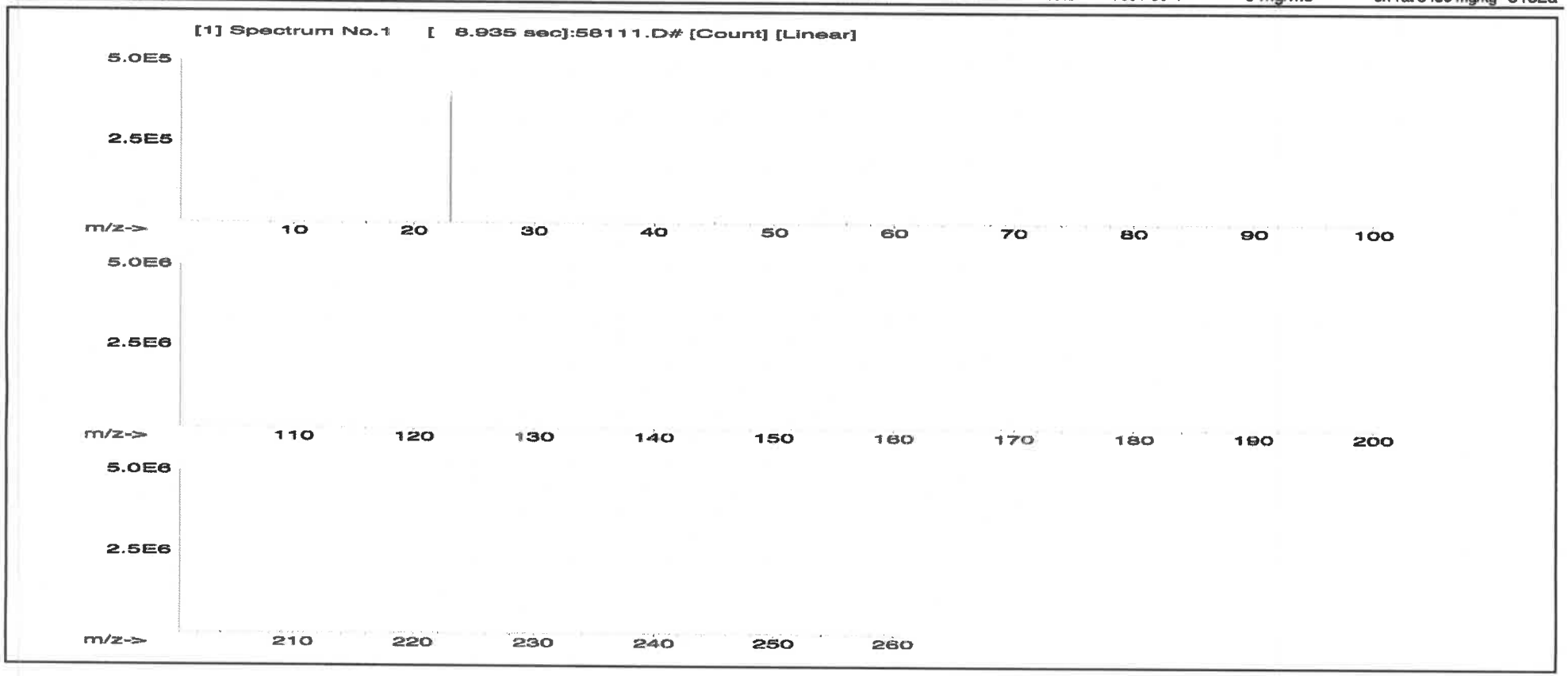
CERTIFIED WEIGHT REPORT:

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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* 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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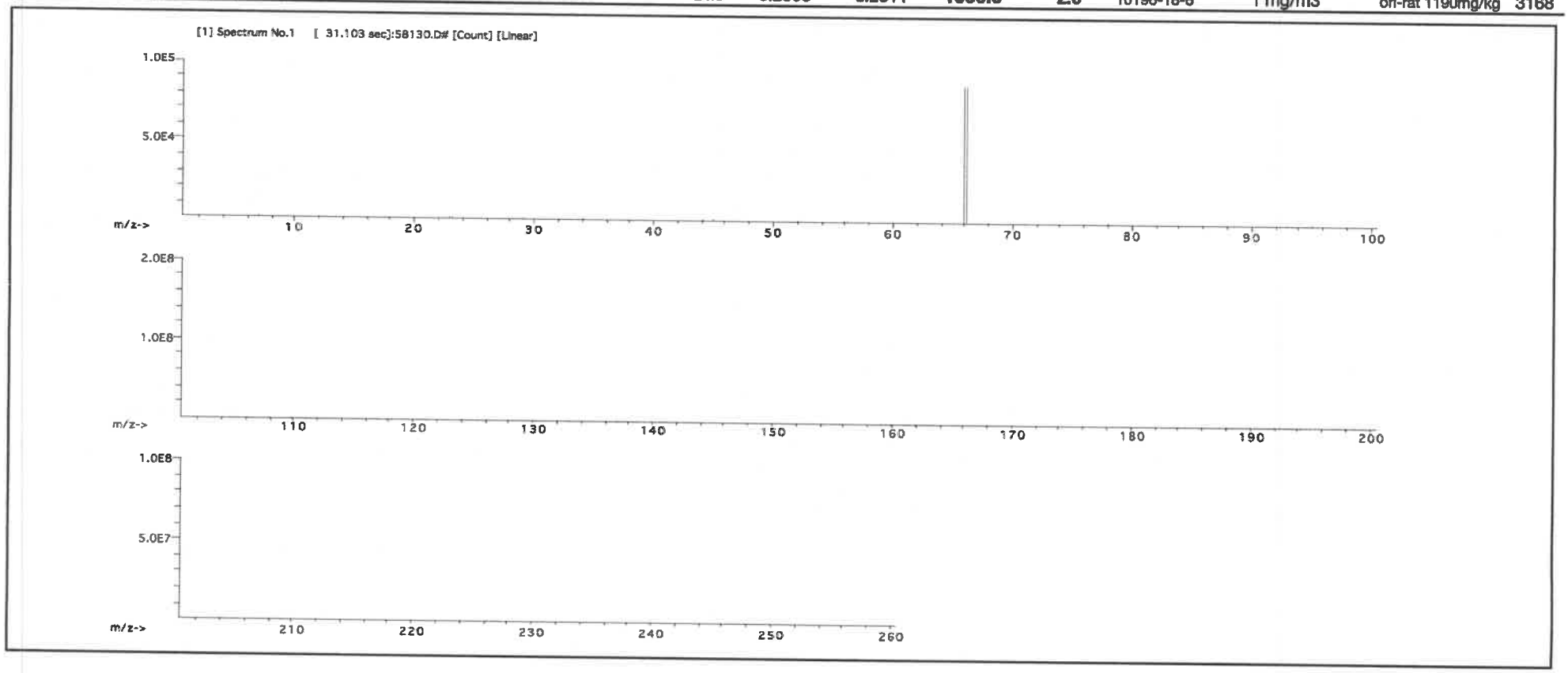
CERTIFIED WEIGHT REPORT:

Part Number:	**58030**	R → 1/13/25	**Solvent:**	**Lot #** 24012496	Nitric Acid
Lot Number:	**121724**				
Description:	**Zinc (Zn)**	M6145	2%	40.0 (mL)	Nitric Acid
Expiration Date:	121727				
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	121724
Reviewed By:	Pedro L. Rentas	121724

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	8.2308	8.2311	**1000.0**	**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

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R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

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

(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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

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
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

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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

M6030

R: 8/5/24

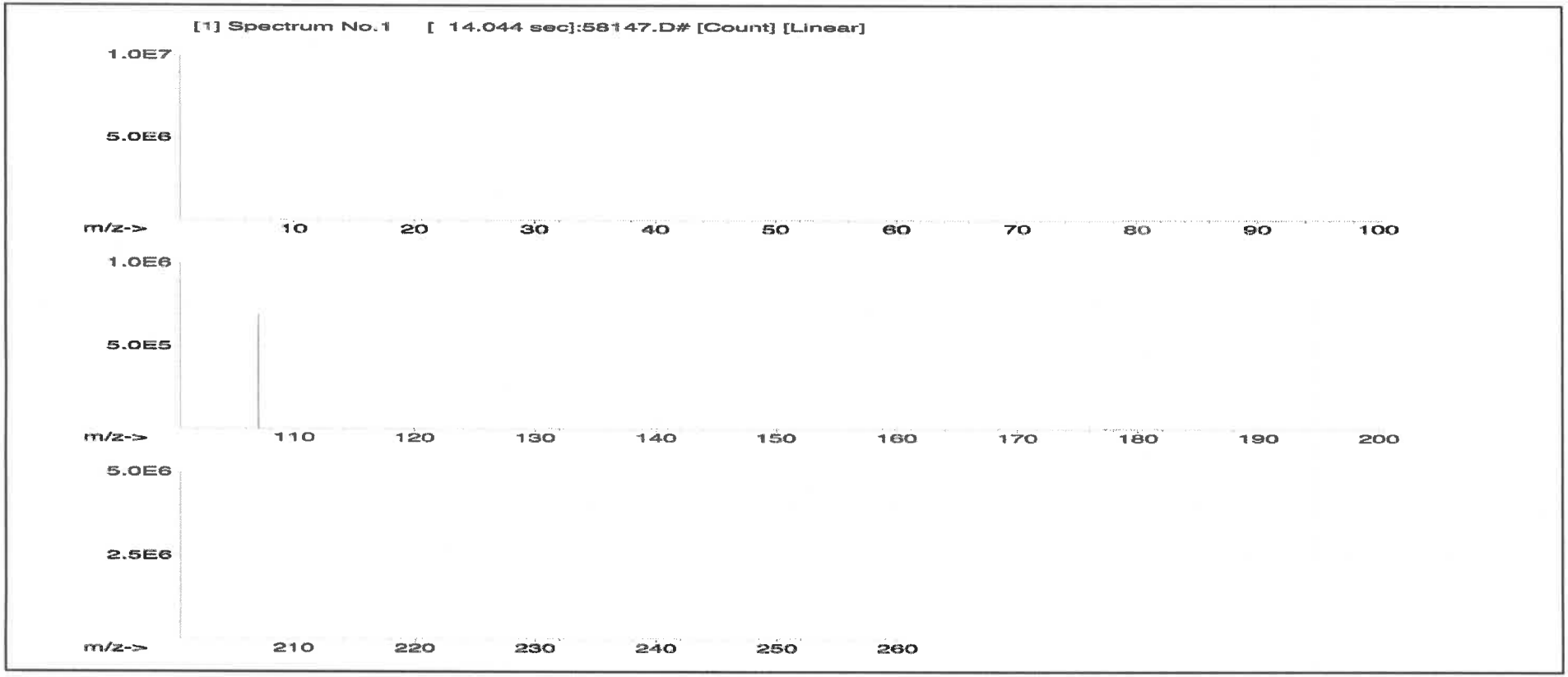
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
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):	2000.26	0.058	Flask Uncertainty	

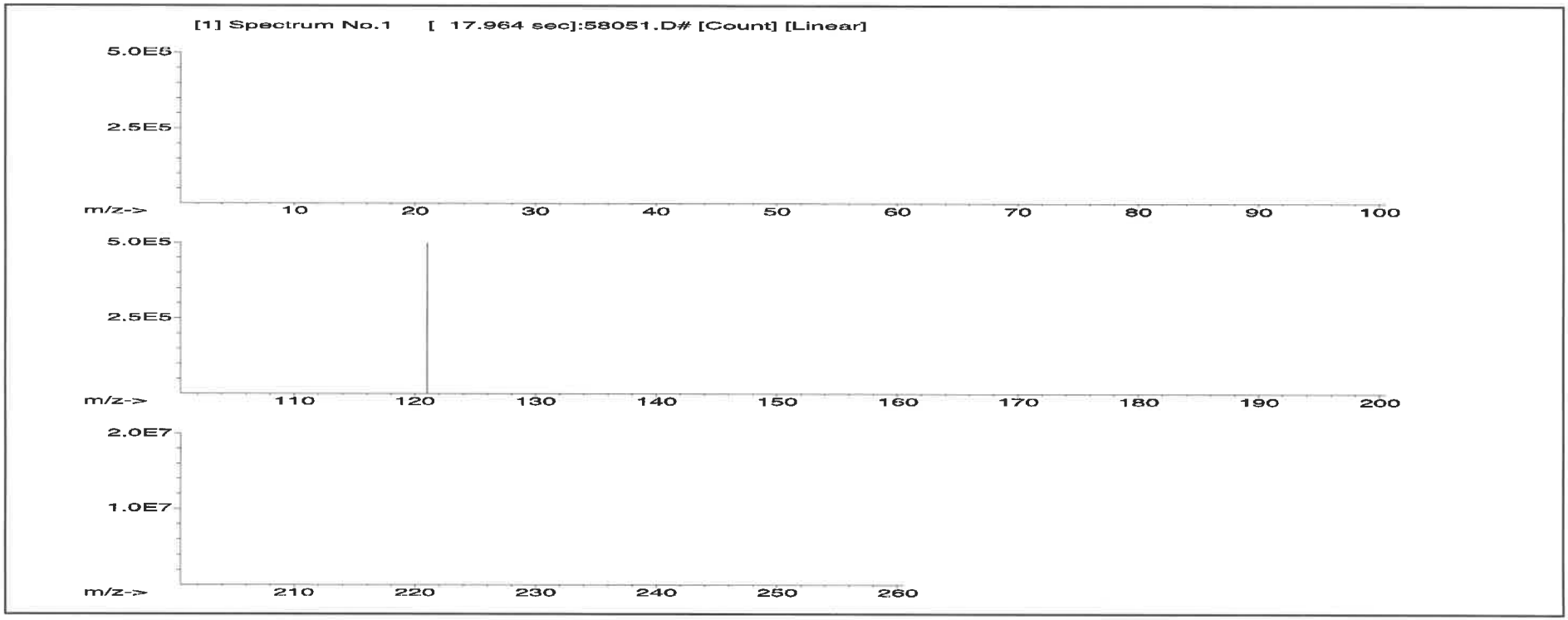
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

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	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	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:

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.
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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).

APTIM

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.

M6152

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

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.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
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APTIM

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.

M6155

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.

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APTIM Federal Services, LLC
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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

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.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

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 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

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 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

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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 ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

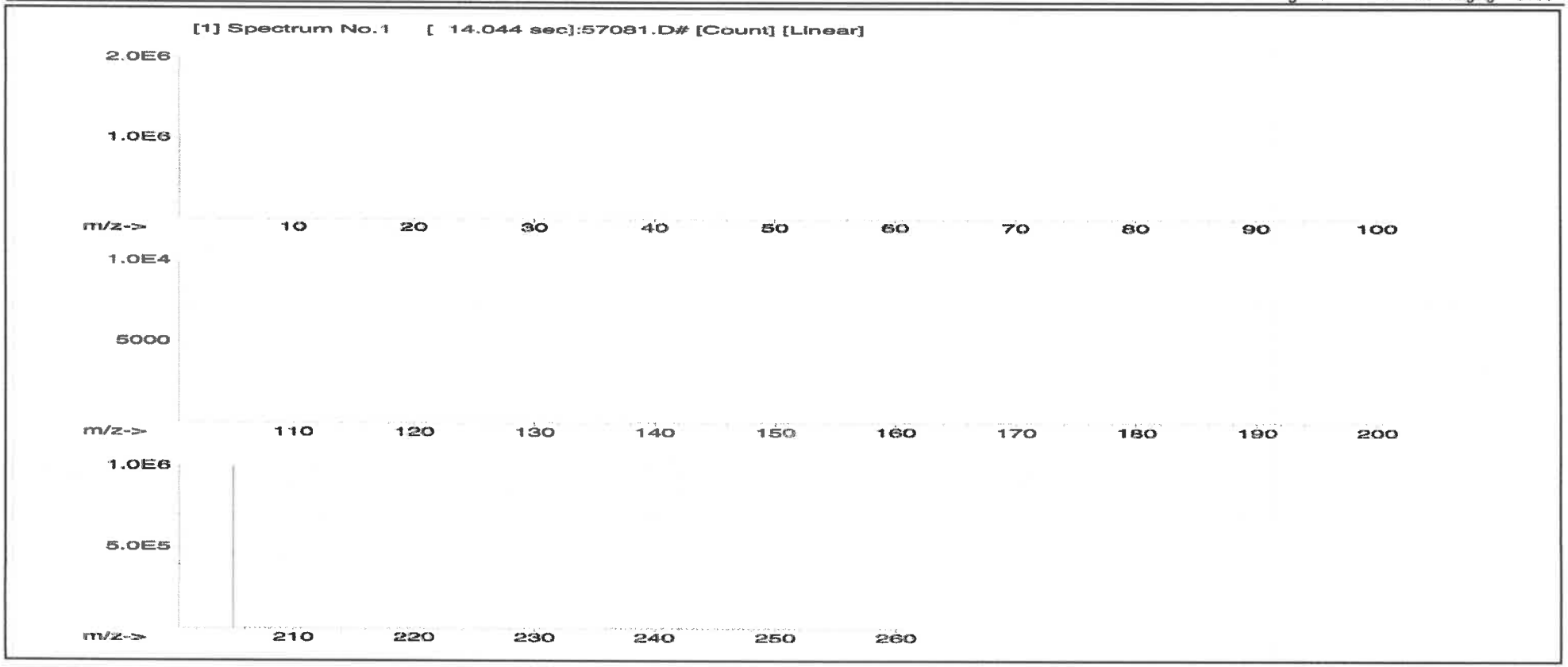
CERTIFIED WEIGHT REPORT:

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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	

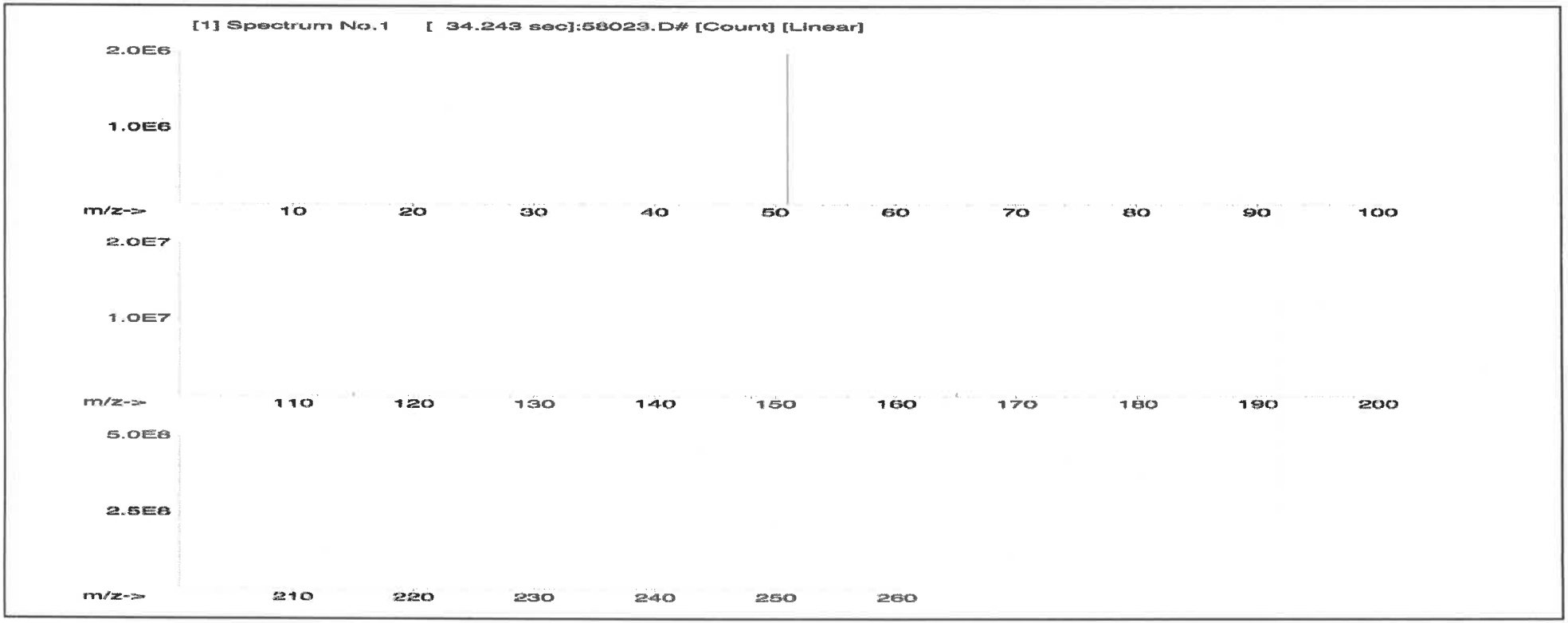
Aleah O'Brady

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.
* 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).



SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1936
COC Number 2045843

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: OAKTON FALL Sand Gravel
ADDRESS: 3000 International Drive
CITY Budd Lake STATE: N.J. ZIP:
ATTENTION: Rich Schindelar
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Stan Hope
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY same STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

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 _____

ANALYSIS

1: Hex Chrom 2: PCB 3: SVOC-TCL BNA-20 4: TPH C.C 5: Trivalent Chrom 6: Cyanide 7: VOC-TCLVOA-0 8: EPH 9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	Small pile - A	SOL	X		5.1.25	10:50	4	X	X	X	X	X	X				PID=0.0
2.	A			X		10:52	5							X	X		
3.	B		X			11:00	4	X	X	X	X	X	X				
4.	B			X		11:04	5							X	X		
5.	C		X			11:10	4	X	X	X	X	X	X				
6.	C			X		11:12	5							X	X		
7.	D		X			11:16	4	X	X	X	X	X	X				
8.	D			X		11:18	5							X	X		
9.																	
10.																	

← 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

	DATE/TIME	RECEIVED BY:
RELINQUISHED BY SAMPLER: 1.	5.1.2025 1410	1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	2.
RELINQUISHED BY SAMPLER: 3.	5.1.2025 1540	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 4.1° °C
Comments: PID Meter Calibrated 5.1.2025 (Adjusted Factor + 1) X1
Equal volume of soil used, 5:1 composite

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Stan Hope
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 3000 International Drive, Budd lake, N.J.

Chemtech Order ID:
Sampler Name: Lawrence Carter
Client Project Coordinator & Phone:
Page #: 1 of 1
Date: 5.1.2025
Arrive Time: 0830
Depart Time: 1410

Waste Stream (circle one): drum / roll-off / soil pile / in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / (Solid) / NAPL / Concrete / Wipe

Collection Depths:
Dimensions/CY:
Temp (range): °C PID Readings (range): PPM Odor: Y / (N) Color (Y) N
Sample Description: Brown soil, Rocks.
Field Observations: Sampled, small pile, Large pile, Lower well pile.

Grid/Area Composite Map:

QA Control # A3041134

See attached

Sampler Signature: 5.1.2025
Client Signature:

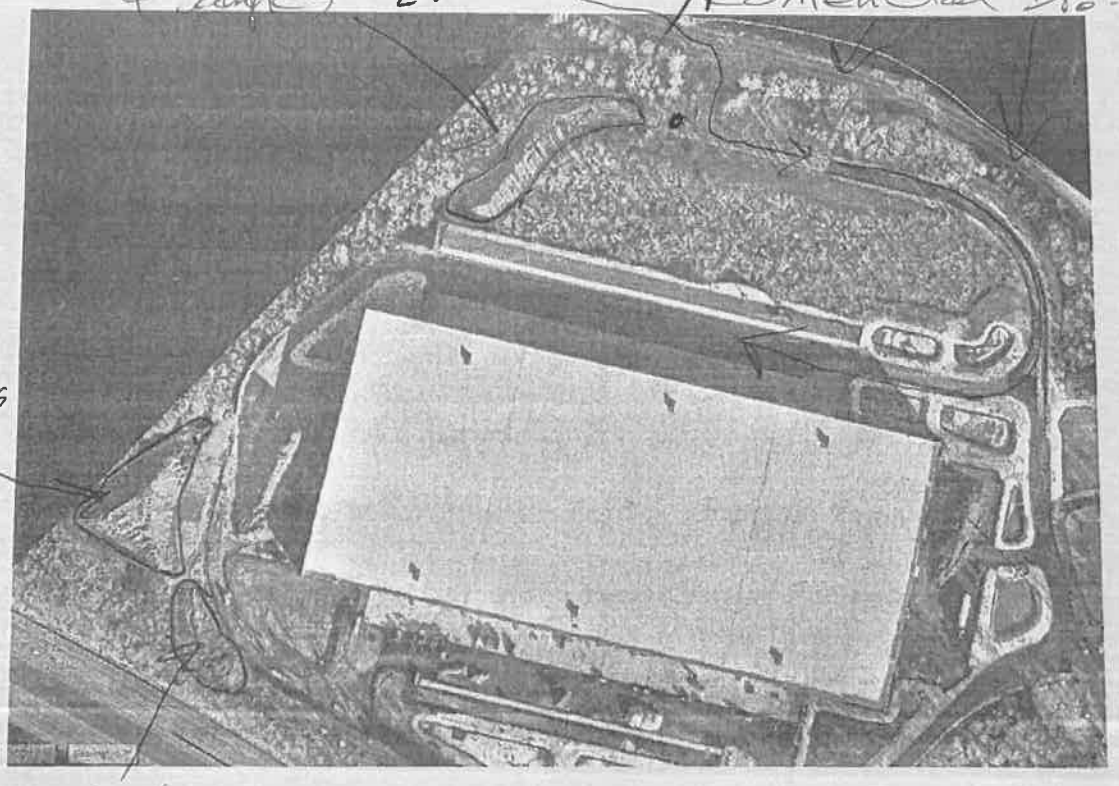
Supervisor Review/Date:
Date/Time Arrived at Lab:

LOWER WALL PILE

EXHIBIT 1

Soil Piles for Sampling 4 tests

Piles for sampling are circled in red



Total 14 Samples.

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

QA Control Code: A2070148

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1936 SAXT01
Client Name : Saxton Falls Sand and Grav
Client Contact : Rich Schindelar
Invoice Name : Saxton Falls Sand and Grav
Invoice Contact : Rich Schindelar

Order Date : 5/1/2025 2:00:17 PM
Project Name : Stan Hope
Receive DateTime : 5/1/2025 12:~~00:00~~ AM 15:40
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1936-02	SMALL-PILE-A	Solid	05/01/2025	10:52					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1936-04	SMALL-PILE-B	Solid	05/01/2025	11:04					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1936-06	SMALL-PILE-C	Solid	05/01/2025	11:12					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1936-08	SMALL-PILE-D	Solid	05/01/2025	11:18					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Tcl vocals

Stored in vial #02, Extract in vial #06

Relinguished By : L.C
Date / Time : 5-1-2025 1650

Received By : Lmadock
Date / Time : 5-1-25 16:50

Storage Area : VOA Refridgerator Room