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Cover Page

Order ID : Q2364

Project ID : Ave B

Client : G Environmental

Lab Sample Number	Client Sample Number
Q2364-01	GAV1A
Q2364-02	GAV1B
Q2364-03	GAV2A
Q2364-04	GAV2B

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: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2364

	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: PRADIP PRAJAPATI **Date:** 06/24/2025

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LAB CHRONICLE

OrderID:	Q2364	**OrderDate:**	6/18/2025 4:07:57 PM
Client:	G Environmental	**Project:**	Ave B
Contact:	Gary Landis	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2364-01	**GAV1A**	**SOIL**			**06/18/25**			**06/18/25**
			Mercury	7471B		06/20/25	06/20/25	
			Metals ICP-TAL	6010D		06/20/25	06/23/25	
Q2364-02	**GAV1B**	**SOIL**			**06/18/25**			**06/18/25**
			Mercury	7471B		06/20/25	06/20/25	
			Metals ICP-TAL	6010D		06/20/25	06/23/25	
Q2364-03	**GAV2A**	**SOIL**			**06/18/25**			**06/18/25**
			Mercury	7471B		06/20/25	06/20/25	
			Metals ICP-TAL	6010D		06/20/25	06/23/25	
Q2364-04	**GAV2B**	**SOIL**			**06/18/25**			**06/18/25**
			Mercury	7471B		06/20/25	06/20/25	
			Metals ICP-TAL	6010D		06/20/25	06/23/25	
			Metals ICP-TAL	6010D		06/20/25	06/25/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2364 **Order ID:** Q2364

Client: G Environmental **Project ID:** Ave B

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : GAV1A								
Q2364-01	GAV1A	SOIL	Aluminum	6750		0.87	5.20	mg/Kg
Q2364-01	GAV1A	SOIL	Antimony	5.77		0.23	2.60	mg/Kg
Q2364-01	GAV1A	SOIL	Arsenic	14.2		0.20	1.04	mg/Kg
Q2364-01	GAV1A	SOIL	Barium	116		0.76	5.20	mg/Kg
Q2364-01	GAV1A	SOIL	Beryllium	0.49		0.026	0.31	mg/Kg
Q2364-01	GAV1A	SOIL	Cadmium	4.06		0.025	0.31	mg/Kg
Q2364-01	GAV1A	SOIL	Calcium	11700		11.5	104	mg/Kg
Q2364-01	GAV1A	SOIL	Chromium	220		0.049	0.52	mg/Kg
Q2364-01	GAV1A	SOIL	Cobalt	8.56		0.10	1.56	mg/Kg
Q2364-01	GAV1A	SOIL	Copper	183		0.23	1.04	mg/Kg
Q2364-01	GAV1A	SOIL	Iron	14200		4.15	5.20	mg/Kg
Q2364-01	GAV1A	SOIL	Lead	569		0.14	0.62	mg/Kg
Q2364-01	GAV1A	SOIL	Magnesium	3000		12.5	104	mg/Kg
Q2364-01	GAV1A	SOIL	Manganese	241		0.15	1.04	mg/Kg
Q2364-01	GAV1A	SOIL	Mercury	0.47		0.0090	0.016	mg/Kg
Q2364-01	GAV1A	SOIL	Nickel	608		0.14	2.08	mg/Kg
Q2364-01	GAV1A	SOIL	Potassium	743		28.8	104	mg/Kg
Q2364-01	GAV1A	SOIL	Selenium	5.57		0.27	1.04	mg/Kg
Q2364-01	GAV1A	SOIL	Sodium	162		18.5	104	mg/Kg
Q2364-01	GAV1A	SOIL	Thallium	0.84	J	0.24	2.08	mg/Kg
Q2364-01	GAV1A	SOIL	Vanadium	15.9		0.26	2.08	mg/Kg
Q2364-01	GAV1A	SOIL	Zinc	455		0.11	2.08	mg/Kg
Client ID : GAV1B								
Q2364-02	GAV1B	SOIL	Aluminum	3370		0.87	5.18	mg/Kg
Q2364-02	GAV1B	SOIL	Antimony	3.06		0.23	2.59	mg/Kg
Q2364-02	GAV1B	SOIL	Arsenic	0.40	J	0.20	1.04	mg/Kg
Q2364-02	GAV1B	SOIL	Barium	14.2		0.76	5.18	mg/Kg
Q2364-02	GAV1B	SOIL	Beryllium	0.19	J	0.026	0.31	mg/Kg
Q2364-02	GAV1B	SOIL	Cadmium	0.55		0.025	0.31	mg/Kg
Q2364-02	GAV1B	SOIL	Calcium	951		11.5	104	mg/Kg
Q2364-02	GAV1B	SOIL	Chromium	152		0.049	0.52	mg/Kg
Q2364-02	GAV1B	SOIL	Cobalt	2.74		0.10	1.55	mg/Kg
Q2364-02	GAV1B	SOIL	Copper	85.4		0.23	1.04	mg/Kg
Q2364-02	GAV1B	SOIL	Iron	5660		4.13	5.18	mg/Kg
Q2364-02	GAV1B	SOIL	Lead	16.0		0.14	0.62	mg/Kg
Q2364-02	GAV1B	SOIL	Magnesium	788		12.4	104	mg/Kg
Q2364-02	GAV1B	SOIL	Manganese	40.5		0.14	1.04	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2364 **Order ID:** Q2364

Client: G Environmental **Project ID:** Ave B

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2364-02	GAV1B	SOIL	Mercury	0.11		0.0090	0.015	mg/Kg
Q2364-02	GAV1B	SOIL	Nickel	30.4		0.14	2.07	mg/Kg
Q2364-02	GAV1B	SOIL	Potassium	241		28.7	104	mg/Kg
Q2364-02	GAV1B	SOIL	Selenium	1.63		0.27	1.04	mg/Kg
Q2364-02	GAV1B	SOIL	Silver	0.13	J	0.12	0.52	mg/Kg
Q2364-02	GAV1B	SOIL	Sodium	111		18.4	104	mg/Kg
Q2364-02	GAV1B	SOIL	Vanadium	7.19		0.26	2.07	mg/Kg
Q2364-02	GAV1B	SOIL	Zinc	82.1		0.11	2.07	mg/Kg
Client ID :	**GAV2A**							
Q2364-03	GAV2A	SOIL	Aluminum	9880		0.96	5.70	mg/Kg
Q2364-03	GAV2A	SOIL	Antimony	2.08	J	0.25	2.85	mg/Kg
Q2364-03	GAV2A	SOIL	Arsenic	1.37		0.22	1.14	mg/Kg
Q2364-03	GAV2A	SOIL	Barium	68.8		0.83	5.70	mg/Kg
Q2364-03	GAV2A	SOIL	Beryllium	0.61		0.029	0.34	mg/Kg
Q2364-03	GAV2A	SOIL	Cadmium	3.64		0.027	0.34	mg/Kg
Q2364-03	GAV2A	SOIL	Calcium	4580		12.7	114	mg/Kg
Q2364-03	GAV2A	SOIL	Chromium	45.7		0.054	0.57	mg/Kg
Q2364-03	GAV2A	SOIL	Cobalt	9.92		0.11	1.71	mg/Kg
Q2364-03	GAV2A	SOIL	Copper	53.1		0.25	1.14	mg/Kg
Q2364-03	GAV2A	SOIL	Iron	18900		4.55	5.70	mg/Kg
Q2364-03	GAV2A	SOIL	Lead	319		0.15	0.69	mg/Kg
Q2364-03	GAV2A	SOIL	Magnesium	3720		13.7	114	mg/Kg
Q2364-03	GAV2A	SOIL	Manganese	291		0.16	1.14	mg/Kg
Q2364-03	GAV2A	SOIL	Mercury	0.42		0.0090	0.016	mg/Kg
Q2364-03	GAV2A	SOIL	Nickel	107		0.15	2.28	mg/Kg
Q2364-03	GAV2A	SOIL	Potassium	1250		31.6	114	mg/Kg
Q2364-03	GAV2A	SOIL	Selenium	5.58		0.30	1.14	mg/Kg
Q2364-03	GAV2A	SOIL	Sodium	122		20.3	114	mg/Kg
Q2364-03	GAV2A	SOIL	Thallium	0.29	J	0.26	2.28	mg/Kg
Q2364-03	GAV2A	SOIL	Vanadium	19.7		0.28	2.28	mg/Kg
Q2364-03	GAV2A	SOIL	Zinc	797		0.13	2.28	mg/Kg
Client ID :	**GAV2B**							
Q2364-04	GAV2B	SOIL	Aluminum	6860		1.00	5.93	mg/Kg
Q2364-04	GAV2B	SOIL	Antimony	2.25	J	0.26	2.97	mg/Kg
Q2364-04	GAV2B	SOIL	Arsenic	3.28		0.23	1.19	mg/Kg
Q2364-04	GAV2B	SOIL	Barium	81.4		0.87	5.93	mg/Kg
Q2364-04	GAV2B	SOIL	Beryllium	0.51		0.030	0.36	mg/Kg
Q2364-04	GAV2B	SOIL	Cadmium	5.32		0.028	0.36	mg/Kg
Q2364-04	GAV2B	SOIL	Calcium	2260		13.2	119	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2364 **Order ID:** Q2364

Client: G Environmental **Project ID:** Ave B

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2364-04	GAV2B	SOIL	Chromium	95.8		0.056	0.59	mg/Kg
Q2364-04	GAV2B	SOIL	Cobalt	12.4		0.12	1.78	mg/Kg
Q2364-04	GAV2B	SOIL	Copper	101		0.26	1.19	mg/Kg
Q2364-04	GAV2B	SOIL	Iron	8970		4.74	5.93	mg/Kg
Q2364-04	GAV2B	SOIL	Lead	168		0.15	0.71	mg/Kg
Q2364-04	GAV2B	SOIL	Magnesium	984		14.2	119	mg/Kg
Q2364-04	GAV2B	SOIL	Manganese	105		0.17	1.19	mg/Kg
Q2364-04	GAV2B	SOIL	Mercury	2.48	D	0.050	0.090	mg/Kg
Q2364-04	GAV2B	SOIL	Nickel	59.3		0.15	2.37	mg/Kg
Q2364-04	GAV2B	SOIL	Potassium	403		32.9	119	mg/Kg
Q2364-04	GAV2B	SOIL	Selenium	3.65		0.31	1.19	mg/Kg
Q2364-04	GAV2B	SOIL	Silver	1.99		0.14	0.59	mg/Kg
Q2364-04	GAV2B	SOIL	Sodium	101	J	21.1	119	mg/Kg
Q2364-04	GAV2B	SOIL	Thallium	0.63	J	0.27	2.37	mg/Kg
Q2364-04	GAV2B	SOIL	Vanadium	14.6		0.30	2.37	mg/Kg
Q2364-04	GAV2B	SOIL	Zinc	7320	D	1.31	23.7	mg/Kg

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SAMPLE DATA

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Report of Analysis

Client:	G Environmental	Date Collected:	06/18/25
Project:	Ave B	Date Received:	06/18/25
Client Sample ID:	GAV1A	SDG No.:	Q2364
Lab Sample ID:	Q2364-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6750		1	0.87	5.20	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-36-0	Antimony	5.77	N	1	0.23	2.60	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-38-2	Arsenic	14.2		1	0.20	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-39-3	Barium	116	N	1	0.76	5.20	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-41-7	Beryllium	0.49		1	0.026	0.31	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-43-9	Cadmium	4.06	*	1	0.025	0.31	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-70-2	Calcium	11700	*	1	11.5	104	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-47-3	Chromium	220		1	0.049	0.52	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-48-4	Cobalt	8.56	*	1	0.10	1.56	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-50-8	Copper	183	*	1	0.23	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7439-89-6	Iron	14200		1	4.15	5.20	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7439-92-1	Lead	569	*	1	0.14	0.62	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7439-95-4	Magnesium	3000		1	12.5	104	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7439-96-5	Manganese	241	N*	1	0.15	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7439-97-6	Mercury	0.47		1	0.0090	0.016	mg/Kg	06/20/25 09:25	06/20/25 14:17	7471B	
7440-02-0	Nickel	608		1	0.14	2.08	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-09-7	Potassium	743		1	28.8	104	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7782-49-2	Selenium	5.57		1	0.27	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.52	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-23-5	Sodium	162	N	1	18.5	104	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-28-0	Thallium	0.84	J	1	0.24	2.08	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-62-2	Vanadium	15.9		1	0.26	2.08	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050
7440-66-6	Zinc	455	*	1	0.11	2.08	mg/Kg	06/20/25 10:05	06/23/25 16:33	6010D	SW3050

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

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	06/18/25
Project:	Ave B	Date Received:	06/18/25
Client Sample ID:	GAV1B	SDG No.:	Q2364
Lab Sample ID:	Q2364-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3370		1	0.87	5.18	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-36-0	Antimony	3.06	N	1	0.23	2.59	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-38-2	Arsenic	0.40	J	1	0.20	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-39-3	Barium	14.2	N	1	0.76	5.18	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-41-7	Beryllium	0.19	J	1	0.026	0.31	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-43-9	Cadmium	0.55	*	1	0.025	0.31	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-70-2	Calcium	951	*	1	11.5	104	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-47-3	Chromium	152		1	0.049	0.52	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-48-4	Cobalt	2.74	*	1	0.10	1.55	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-50-8	Copper	85.4	*	1	0.23	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7439-89-6	Iron	5660		1	4.13	5.18	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7439-92-1	Lead	16.0	*	1	0.14	0.62	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7439-95-4	Magnesium	788		1	12.4	104	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7439-96-5	Manganese	40.5	N*	1	0.14	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7439-97-6	Mercury	0.11		1	0.0090	0.015	mg/Kg	06/20/25 09:25	06/20/25 14:20	7471B	
7440-02-0	Nickel	30.4		1	0.14	2.07	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-09-7	Potassium	241		1	28.7	104	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7782-49-2	Selenium	1.63		1	0.27	1.04	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-22-4	Silver	0.13	J	1	0.12	0.52	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-23-5	Sodium	111	N	1	18.4	104	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.07	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-62-2	Vanadium	7.19		1	0.26	2.07	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050
7440-66-6	Zinc	82.1	*	1	0.11	2.07	mg/Kg	06/20/25 10:05	06/23/25 16:37	6010D	SW3050

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

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

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

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

Report of Analysis

Client:	G Environmental	Date Collected:	06/18/25
Project:	Ave B	Date Received:	06/18/25
Client Sample ID:	GAV2A	SDG No.:	Q2364
Lab Sample ID:	Q2364-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9880		1	0.96	5.70	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-36-0	Antimony	2.08	JN	1	0.25	2.85	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-38-2	Arsenic	1.37		1	0.22	1.14	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-39-3	Barium	68.8	N	1	0.83	5.70	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-41-7	Beryllium	0.61		1	0.029	0.34	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-43-9	Cadmium	3.64	*	1	0.027	0.34	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-70-2	Calcium	4580	*	1	12.7	114	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-47-3	Chromium	45.7		1	0.054	0.57	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-48-4	Cobalt	9.92	*	1	0.11	1.71	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-50-8	Copper	53.1	*	1	0.25	1.14	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7439-89-6	Iron	18900		1	4.55	5.70	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7439-92-1	Lead	319	*	1	0.15	0.69	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7439-95-4	Magnesium	3720		1	13.7	114	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7439-96-5	Manganese	291	N*	1	0.16	1.14	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7439-97-6	Mercury	0.42		1	0.0090	0.016	mg/Kg	06/20/25 09:25	06/20/25 14:22	7471B	
7440-02-0	Nickel	107		1	0.15	2.28	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-09-7	Potassium	1250		1	31.6	114	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7782-49-2	Selenium	5.58		1	0.30	1.14	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.57	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-23-5	Sodium	122	N	1	20.3	114	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-28-0	Thallium	0.29	J	1	0.26	2.28	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-62-2	Vanadium	19.7		1	0.28	2.28	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050
7440-66-6	Zinc	797	*	1	0.13	2.28	mg/Kg	06/20/25 10:05	06/23/25 17:23	6010D	SW3050

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

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	G Environmental	Date Collected:	06/18/25
Project:	Ave B	Date Received:	06/18/25
Client Sample ID:	GAV2B	SDG No.:	Q2364
Lab Sample ID:	Q2364-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6860		1	1.00	5.93	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-36-0	Antimony	2.25	JN	1	0.26	2.97	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-38-2	Arsenic	3.28		1	0.23	1.19	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-39-3	Barium	81.4	N	1	0.87	5.93	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-41-7	Beryllium	0.51		1	0.030	0.36	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-43-9	Cadmium	5.32	*	1	0.028	0.36	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-70-2	Calcium	2260	*	1	13.2	119	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-47-3	Chromium	95.8		1	0.056	0.59	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-48-4	Cobalt	12.4	*	1	0.12	1.78	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-50-8	Copper	101	*	1	0.26	1.19	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7439-89-6	Iron	8970		1	4.74	5.93	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7439-92-1	Lead	168	*	1	0.15	0.71	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7439-95-4	Magnesium	984		1	14.2	119	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7439-96-5	Manganese	105	N*	1	0.17	1.19	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7439-97-6	Mercury	2.48	D	5	0.050	0.090	mg/Kg	06/20/25 09:25	06/20/25 14:48	7471B	
7440-02-0	Nickel	59.3		1	0.15	2.37	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-09-7	Potassium	403		1	32.9	119	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7782-49-2	Selenium	3.65		1	0.31	1.19	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-22-4	Silver	1.99		1	0.14	0.59	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-23-5	Sodium	101	JN	1	21.1	119	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-28-0	Thallium	0.63	J	1	0.27	2.37	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-62-2	Vanadium	14.6		1	0.30	2.37	mg/Kg	06/20/25 10:05	06/23/25 17:27	6010D	SW3050
7440-66-6	Zinc	7320	D*	10	1.31	23.7	mg/Kg	06/20/25 10:05	06/25/25 17:15	6010D	SW3050

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

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

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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
ICV47	Mercury	4.00	4.0	100	90 - 110	CV	06/20/2025	13:52	LB136216

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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
CCV69	Mercury	5.02	5.0	100	90 - 110	CV	06/20/2025	13:56	LB136216
CCV70	Mercury	4.87	5.0	98	90 - 110	CV	06/20/2025	14:24	LB136216
CCV71	Mercury	4.91	5.0	98	90 - 110	CV	06/20/2025	14:50	LB136216

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	7980	8000	100	90 - 110	P	06/23/2025	12:34	LB136236
	Antimony	4110	4000	103	90 - 110	P	06/23/2025	12:34	LB136236
	Arsenic	3910	4000	98	90 - 110	P	06/23/2025	12:34	LB136236
	Barium	7850	8000	98	90 - 110	P	06/23/2025	12:34	LB136236
	Beryllium	206	200	103	90 - 110	P	06/23/2025	12:34	LB136236
	Cadmium	2000	2000	100	90 - 110	P	06/23/2025	12:34	LB136236
	Calcium	19400	20000	97	90 - 110	P	06/23/2025	12:34	LB136236
	Chromium	806	800	101	90 - 110	P	06/23/2025	12:34	LB136236
	Cobalt	2040	2000	102	90 - 110	P	06/23/2025	12:34	LB136236
	Copper	1030	1000	103	90 - 110	P	06/23/2025	12:34	LB136236
	Iron	3920	4000	98	90 - 110	P	06/23/2025	12:34	LB136236
	Lead	3950	4000	99	90 - 110	P	06/23/2025	12:34	LB136236
	Magnesium	19800	20000	99	90 - 110	P	06/23/2025	12:34	LB136236
	Manganese	1960	2000	98	90 - 110	P	06/23/2025	12:34	LB136236
	Nickel	2030	2000	102	90 - 110	P	06/23/2025	12:34	LB136236
	Potassium	19000	20000	95	90 - 110	P	06/23/2025	12:34	LB136236
	Selenium	3980	4000	100	90 - 110	P	06/23/2025	12:34	LB136236
	Silver	1070	1000	107	90 - 110	P	06/23/2025	12:34	LB136236
	Sodium	20000	20000	100	90 - 110	P	06/23/2025	12:34	LB136236
	Thallium	4050	4000	101	90 - 110	P	06/23/2025	12:34	LB136236
	Vanadium	1990	2000	100	90 - 110	P	06/23/2025	12:34	LB136236
	Zinc	2000	2000	100	90 - 110	P	06/23/2025	12:34	LB136236

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	114	100	114	80 - 120	P	06/23/2025	13:09	LB136236
	Antimony	54.0	50.0	108	80 - 120	P	06/23/2025	13:09	LB136236
	Arsenic	18.0	20.0	90	80 - 120	P	06/23/2025	13:09	LB136236
	Barium	104	100	104	80 - 120	P	06/23/2025	13:09	LB136236
	Beryllium	6.48	6.0	108	80 - 120	P	06/23/2025	13:09	LB136236
	Cadmium	5.92	6.0	99	80 - 120	P	06/23/2025	13:09	LB136236
	Calcium	2100	2000	105	80 - 120	P	06/23/2025	13:09	LB136236
	Chromium	10.8	10.0	108	80 - 120	P	06/23/2025	13:09	LB136236
	Cobalt	31.6	30.0	105	80 - 120	P	06/23/2025	13:09	LB136236
	Copper	23.3	20.0	117	80 - 120	P	06/23/2025	13:09	LB136236
	Iron	102	100	102	80 - 120	P	06/23/2025	13:09	LB136236
	Lead	14.0	12.0	117	80 - 120	P	06/23/2025	13:09	LB136236
	Magnesium	2190	2000	110	80 - 120	P	06/23/2025	13:09	LB136236
	Manganese	20.2	20.0	101	80 - 120	P	06/23/2025	13:09	LB136236
	Nickel	41.6	40.0	104	80 - 120	P	06/23/2025	13:09	LB136236
	Potassium	1690	2000	84	80 - 120	P	06/23/2025	13:09	LB136236
	Selenium	20.4	20.0	102	80 - 120	P	06/23/2025	13:09	LB136236
	Silver	10.8	10.0	108	80 - 120	P	06/23/2025	13:09	LB136236
	Sodium	1890	2000	94	80 - 120	P	06/23/2025	13:09	LB136236
	Thallium	41.5	40.0	104	80 - 120	P	06/23/2025	13:09	LB136236
	Vanadium	35.7	40.0	89	80 - 120	P	06/23/2025	13:09	LB136236
	Zinc	41.1	40.0	103	80 - 120	P	06/23/2025	13:09	LB136236

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	06/23/2025	13:56	LB136236
	Antimony	4920	5000	98	90 - 110	P	06/23/2025	13:56	LB136236
	Arsenic	5140	5000	103	90 - 110	P	06/23/2025	13:56	LB136236
	Barium	9940	10000	99	90 - 110	P	06/23/2025	13:56	LB136236
	Beryllium	250	250	100	90 - 110	P	06/23/2025	13:56	LB136236
	Cadmium	2580	2500	103	90 - 110	P	06/23/2025	13:56	LB136236
	Calcium	24000	25000	96	90 - 110	P	06/23/2025	13:56	LB136236
	Chromium	988	1000	99	90 - 110	P	06/23/2025	13:56	LB136236
	Cobalt	2580	2500	103	90 - 110	P	06/23/2025	13:56	LB136236
	Copper	1240	1250	100	90 - 110	P	06/23/2025	13:56	LB136236
	Iron	4900	5000	98	90 - 110	P	06/23/2025	13:56	LB136236
	Lead	5160	5000	103	90 - 110	P	06/23/2025	13:56	LB136236
	Magnesium	24500	25000	98	90 - 110	P	06/23/2025	13:56	LB136236
	Manganese	2450	2500	98	90 - 110	P	06/23/2025	13:56	LB136236
	Nickel	2570	2500	103	90 - 110	P	06/23/2025	13:56	LB136236
	Potassium	23600	25000	94	90 - 110	P	06/23/2025	13:56	LB136236
	Selenium	5020	5000	100	90 - 110	P	06/23/2025	13:56	LB136236
	Silver	1230	1250	98	90 - 110	P	06/23/2025	13:56	LB136236
	Sodium	24500	25000	98	90 - 110	P	06/23/2025	13:56	LB136236
	Thallium	5120	5000	102	90 - 110	P	06/23/2025	13:56	LB136236
	Vanadium	2440	2500	98	90 - 110	P	06/23/2025	13:56	LB136236
	Zinc	2450	2500	98	90 - 110	P	06/23/2025	13:56	LB136236
CCV02	Aluminum	10400	10000	104	90 - 110	P	06/23/2025	14:54	LB136236
	Antimony	4900	5000	98	90 - 110	P	06/23/2025	14:54	LB136236
	Arsenic	5120	5000	102	90 - 110	P	06/23/2025	14:54	LB136236
	Barium	10000	10000	100	90 - 110	P	06/23/2025	14:54	LB136236
	Beryllium	250	250	100	90 - 110	P	06/23/2025	14:54	LB136236
	Cadmium	2570	2500	103	90 - 110	P	06/23/2025	14:54	LB136236
	Calcium	24100	25000	96	90 - 110	P	06/23/2025	14:54	LB136236
	Chromium	989	1000	99	90 - 110	P	06/23/2025	14:54	LB136236
	Cobalt	2560	2500	102	90 - 110	P	06/23/2025	14:54	LB136236
	Copper	1240	1250	99	90 - 110	P	06/23/2025	14:54	LB136236
	Iron	4910	5000	98	90 - 110	P	06/23/2025	14:54	LB136236
	Lead	5120	5000	102	90 - 110	P	06/23/2025	14:54	LB136236

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	24600	25000	98	90 - 110	P	06/23/2025	14:54	LB136236
	Manganese	2470	2500	99	90 - 110	P	06/23/2025	14:54	LB136236
	Nickel	2550	2500	102	90 - 110	P	06/23/2025	14:54	LB136236
	Potassium	23300	25000	93	90 - 110	P	06/23/2025	14:54	LB136236
	Selenium	5000	5000	100	90 - 110	P	06/23/2025	14:54	LB136236
	Silver	1230	1250	98	90 - 110	P	06/23/2025	14:54	LB136236
	Sodium	24100	25000	96	90 - 110	P	06/23/2025	14:54	LB136236
	Thallium	5060	5000	101	90 - 110	P	06/23/2025	14:54	LB136236
	Vanadium	2450	2500	98	90 - 110	P	06/23/2025	14:54	LB136236
	Zinc	2440	2500	98	90 - 110	P	06/23/2025	14:54	LB136236
CCV03	Aluminum	10500	10000	105	90 - 110	P	06/23/2025	15:47	LB136236
	Antimony	4960	5000	99	90 - 110	P	06/23/2025	15:47	LB136236
	Arsenic	5210	5000	104	90 - 110	P	06/23/2025	15:47	LB136236
	Barium	10100	10000	101	90 - 110	P	06/23/2025	15:47	LB136236
	Beryllium	247	250	99	90 - 110	P	06/23/2025	15:47	LB136236
	Cadmium	2590	2500	104	90 - 110	P	06/23/2025	15:47	LB136236
	Calcium	24400	25000	98	90 - 110	P	06/23/2025	15:47	LB136236
	Chromium	1010	1000	101	90 - 110	P	06/23/2025	15:47	LB136236
	Cobalt	2590	2500	104	90 - 110	P	06/23/2025	15:47	LB136236
	Copper	1220	1250	98	90 - 110	P	06/23/2025	15:47	LB136236
	Iron	4960	5000	99	90 - 110	P	06/23/2025	15:47	LB136236
	Lead	5190	5000	104	90 - 110	P	06/23/2025	15:47	LB136236
	Magnesium	24700	25000	99	90 - 110	P	06/23/2025	15:47	LB136236
	Manganese	2500	2500	100	90 - 110	P	06/23/2025	15:47	LB136236
	Nickel	2570	2500	103	90 - 110	P	06/23/2025	15:47	LB136236
	Potassium	24100	25000	96	90 - 110	P	06/23/2025	15:47	LB136236
	Selenium	5060	5000	101	90 - 110	P	06/23/2025	15:47	LB136236
	Silver	1260	1250	101	90 - 110	P	06/23/2025	15:47	LB136236
	Sodium	24700	25000	99	90 - 110	P	06/23/2025	15:47	LB136236
	Thallium	5120	5000	102	90 - 110	P	06/23/2025	15:47	LB136236
	Vanadium	2490	2500	100	90 - 110	P	06/23/2025	15:47	LB136236
	Zinc	2490	2500	99	90 - 110	P	06/23/2025	15:47	LB136236
CCV04	Aluminum	10500	10000	105	90 - 110	P	06/23/2025	16:51	LB136236
	Antimony	4960	5000	99	90 - 110	P	06/23/2025	16:51	LB136236

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	5240	5000	105	90 - 110	P	06/23/2025	16:51	LB136236
	Barium	10200	10000	102	90 - 110	P	06/23/2025	16:51	LB136236
	Beryllium	259	250	104	90 - 110	P	06/23/2025	16:51	LB136236
	Cadmium	2600	2500	104	90 - 110	P	06/23/2025	16:51	LB136236
	Calcium	24500	25000	98	90 - 110	P	06/23/2025	16:51	LB136236
	Chromium	1010	1000	101	90 - 110	P	06/23/2025	16:51	LB136236
	Cobalt	2610	2500	104	90 - 110	P	06/23/2025	16:51	LB136236
	Copper	1280	1250	103	90 - 110	P	06/23/2025	16:51	LB136236
	Iron	4900	5000	98	90 - 110	P	06/23/2025	16:51	LB136236
	Lead	5230	5000	105	90 - 110	P	06/23/2025	16:51	LB136236
	Magnesium	24800	25000	99	90 - 110	P	06/23/2025	16:51	LB136236
	Manganese	2490	2500	100	90 - 110	P	06/23/2025	16:51	LB136236
	Nickel	2590	2500	104	90 - 110	P	06/23/2025	16:51	LB136236
	Potassium	23800	25000	95	90 - 110	P	06/23/2025	16:51	LB136236
	Selenium	5070	5000	101	90 - 110	P	06/23/2025	16:51	LB136236
	Silver	1260	1250	101	90 - 110	P	06/23/2025	16:51	LB136236
	Sodium	24800	25000	99	90 - 110	P	06/23/2025	16:51	LB136236
	Thallium	5160	5000	103	90 - 110	P	06/23/2025	16:51	LB136236
	Vanadium	2490	2500	100	90 - 110	P	06/23/2025	16:51	LB136236
	Zinc	2480	2500	99	90 - 110	P	06/23/2025	16:51	LB136236
CCV05	Aluminum	10500	10000	105	90 - 110	P	06/23/2025	17:45	LB136236
	Antimony	4940	5000	99	90 - 110	P	06/23/2025	17:45	LB136236
	Arsenic	5200	5000	104	90 - 110	P	06/23/2025	17:45	LB136236
	Barium	10200	10000	102	90 - 110	P	06/23/2025	17:45	LB136236
	Beryllium	260	250	104	90 - 110	P	06/23/2025	17:45	LB136236
	Cadmium	2590	2500	104	90 - 110	P	06/23/2025	17:45	LB136236
	Calcium	24500	25000	98	90 - 110	P	06/23/2025	17:45	LB136236
	Chromium	1000	1000	100	90 - 110	P	06/23/2025	17:45	LB136236
	Cobalt	2600	2500	104	90 - 110	P	06/23/2025	17:45	LB136236
	Copper	1290	1250	104	90 - 110	P	06/23/2025	17:45	LB136236
	Iron	4880	5000	98	90 - 110	P	06/23/2025	17:45	LB136236
	Lead	5210	5000	104	90 - 110	P	06/23/2025	17:45	LB136236
	Magnesium	24800	25000	99	90 - 110	P	06/23/2025	17:45	LB136236
	Manganese	2470	2500	99	90 - 110	P	06/23/2025	17:45	LB136236

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

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	2580	2500	103	90 - 110	P	06/23/2025	17:45	LB136236
	Potassium	23800	25000	95	90 - 110	P	06/23/2025	17:45	LB136236
	Selenium	5050	5000	101	90 - 110	P	06/23/2025	17:45	LB136236
	Silver	1260	1250	101	90 - 110	P	06/23/2025	17:45	LB136236
	Sodium	25000	25000	100	90 - 110	P	06/23/2025	17:45	LB136236
	Thallium	5140	5000	103	90 - 110	P	06/23/2025	17:45	LB136236
	Vanadium	2470	2500	99	90 - 110	P	06/23/2025	17:45	LB136236
	Zinc	2450	2500	98	90 - 110	P	06/23/2025	17:45	LB136236
CCV06	Aluminum	10400	10000	104	90 - 110	P	06/23/2025	18:39	LB136236
	Antimony	4980	5000	100	90 - 110	P	06/23/2025	18:39	LB136236
	Arsenic	5190	5000	104	90 - 110	P	06/23/2025	18:39	LB136236
	Barium	10100	10000	102	90 - 110	P	06/23/2025	18:39	LB136236
	Beryllium	255	250	102	90 - 110	P	06/23/2025	18:39	LB136236
	Cadmium	2600	2500	104	90 - 110	P	06/23/2025	18:39	LB136236
	Calcium	24200	25000	97	90 - 110	P	06/23/2025	18:39	LB136236
	Chromium	998	1000	100	90 - 110	P	06/23/2025	18:39	LB136236
	Cobalt	2610	2500	104	90 - 110	P	06/23/2025	18:39	LB136236
	Copper	1270	1250	102	90 - 110	P	06/23/2025	18:39	LB136236
	Iron	4860	5000	97	90 - 110	P	06/23/2025	18:39	LB136236
	Lead	5210	5000	104	90 - 110	P	06/23/2025	18:39	LB136236
	Magnesium	24500	25000	98	90 - 110	P	06/23/2025	18:39	LB136236
	Manganese	2450	2500	98	90 - 110	P	06/23/2025	18:39	LB136236
	Nickel	2600	2500	104	90 - 110	P	06/23/2025	18:39	LB136236
	Potassium	24000	25000	96	90 - 110	P	06/23/2025	18:39	LB136236
	Selenium	5060	5000	101	90 - 110	P	06/23/2025	18:39	LB136236
	Silver	1240	1250	100	90 - 110	P	06/23/2025	18:39	LB136236
	Sodium	25000	25000	100	90 - 110	P	06/23/2025	18:39	LB136236
	Thallium	5170	5000	103	90 - 110	P	06/23/2025	18:39	LB136236
	Vanadium	2450	2500	98	90 - 110	P	06/23/2025	18:39	LB136236
	Zinc	2510	2500	101	90 - 110	P	06/23/2025	18:39	LB136236
CCV07	Aluminum	10400	10000	104	90 - 110	P	06/23/2025	19:24	LB136236
	Antimony	5010	5000	100	90 - 110	P	06/23/2025	19:24	LB136236
	Arsenic	5220	5000	104	90 - 110	P	06/23/2025	19:24	LB136236
	Barium	10200	10000	102	90 - 110	P	06/23/2025	19:24	LB136236

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	256	250	103	90 - 110	P	06/23/2025	19:24	LB136236
	Cadmium	2610	2500	104	90 - 110	P	06/23/2025	19:24	LB136236
	Calcium	24300	25000	97	90 - 110	P	06/23/2025	19:24	LB136236
	Chromium	996	1000	100	90 - 110	P	06/23/2025	19:24	LB136236
	Cobalt	2620	2500	105	90 - 110	P	06/23/2025	19:24	LB136236
	Copper	1280	1250	102	90 - 110	P	06/23/2025	19:24	LB136236
	Iron	4880	5000	98	90 - 110	P	06/23/2025	19:24	LB136236
	Lead	5240	5000	105	90 - 110	P	06/23/2025	19:24	LB136236
	Magnesium	24600	25000	98	90 - 110	P	06/23/2025	19:24	LB136236
	Manganese	2440	2500	98	90 - 110	P	06/23/2025	19:24	LB136236
	Nickel	2600	2500	104	90 - 110	P	06/23/2025	19:24	LB136236
	Potassium	24200	25000	97	90 - 110	P	06/23/2025	19:24	LB136236
	Selenium	5080	5000	102	90 - 110	P	06/23/2025	19:24	LB136236
	Silver	1250	1250	100	90 - 110	P	06/23/2025	19:24	LB136236
	Sodium	25300	25000	101	90 - 110	P	06/23/2025	19:24	LB136236
	Thallium	5210	5000	104	90 - 110	P	06/23/2025	19:24	LB136236
	Vanadium	2460	2500	98	90 - 110	P	06/23/2025	19:24	LB136236
	Zinc	2490	2500	100	90 - 110	P	06/23/2025	19:24	LB136236

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	8070	8000	101	90 - 110	P	06/25/2025	13:08	LB136273
	Antimony	4210	4000	105	90 - 110	P	06/25/2025	13:08	LB136273
	Arsenic	3960	4000	99	90 - 110	P	06/25/2025	13:08	LB136273
	Barium	8170	8000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Beryllium	207	200	104	90 - 110	P	06/25/2025	13:08	LB136273
	Cadmium	2020	2000	101	90 - 110	P	06/25/2025	13:08	LB136273
	Calcium	20100	20000	101	90 - 110	P	06/25/2025	13:08	LB136273
	Chromium	831	800	104	90 - 110	P	06/25/2025	13:08	LB136273
	Cobalt	2050	2000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Copper	1060	1000	106	90 - 110	P	06/25/2025	13:08	LB136273
	Iron	4100	4000	103	90 - 110	P	06/25/2025	13:08	LB136273
	Lead	3990	4000	100	90 - 110	P	06/25/2025	13:08	LB136273
	Magnesium	20300	20000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Manganese	2030	2000	101	90 - 110	P	06/25/2025	13:08	LB136273
	Nickel	2040	2000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Potassium	19500	20000	98	90 - 110	P	06/25/2025	13:08	LB136273
	Selenium	4090	4000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Silver	1020	1000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Sodium	20100	20000	100	90 - 110	P	06/25/2025	13:08	LB136273
	Thallium	3950	4000	99	90 - 110	P	06/25/2025	13:08	LB136273
	Vanadium	2040	2000	102	90 - 110	P	06/25/2025	13:08	LB136273
	Zinc	2060	2000	103	90 - 110	P	06/25/2025	13:08	LB136273

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

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	99.0	100	99	80 - 120	P	06/25/2025	13:20	LB136273
	Antimony	55.5	50.0	111	80 - 120	P	06/25/2025	13:20	LB136273
	Arsenic	20.3	20.0	102	80 - 120	P	06/25/2025	13:20	LB136273
	Barium	106	100	106	80 - 120	P	06/25/2025	13:20	LB136273
	Beryllium	6.62	6.0	110	80 - 120	P	06/25/2025	13:20	LB136273
	Cadmium	5.93	6.0	99	80 - 120	P	06/25/2025	13:20	LB136273
	Calcium	2100	2000	105	80 - 120	P	06/25/2025	13:20	LB136273
	Chromium	10.1	10.0	101	80 - 120	P	06/25/2025	13:20	LB136273
	Cobalt	31.1	30.0	104	80 - 120	P	06/25/2025	13:20	LB136273
	Copper	22.0	20.0	110	80 - 120	P	06/25/2025	13:20	LB136273
	Iron	92.0	100	92	80 - 120	P	06/25/2025	13:20	LB136273
	Lead	13.2	12.0	110	80 - 120	P	06/25/2025	13:20	LB136273
	Magnesium	2340	2000	117	80 - 120	P	06/25/2025	13:20	LB136273
	Manganese	24.0	20.0	120	80 - 120	P	06/25/2025	13:20	LB136273
	Nickel	41.4	40.0	103	80 - 120	P	06/25/2025	13:20	LB136273
	Potassium	1700	2000	85	80 - 120	P	06/25/2025	13:20	LB136273
	Selenium	22.8	20.0	114	80 - 120	P	06/25/2025	13:20	LB136273
	Silver	10.6	10.0	106	80 - 120	P	06/25/2025	13:20	LB136273
	Sodium	1920	2000	96	80 - 120	P	06/25/2025	13:20	LB136273
	Thallium	41.7	40.0	104	80 - 120	P	06/25/2025	13:20	LB136273
	Vanadium	36.5	40.0	91	80 - 120	P	06/25/2025	13:20	LB136273
	Zinc	42.1	40.0	105	80 - 120	P	06/25/2025	13:20	LB136273

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

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	06/25/2025	16:04	LB136273
	Antimony	5110	5000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Arsenic	5030	5000	101	90 - 110	P	06/25/2025	16:04	LB136273
	Barium	10100	10000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Beryllium	266	250	106	90 - 110	P	06/25/2025	16:04	LB136273
	Cadmium	2530	2500	101	90 - 110	P	06/25/2025	16:04	LB136273
	Calcium	25500	25000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Chromium	1040	1000	104	90 - 110	P	06/25/2025	16:04	LB136273
	Cobalt	2530	2500	101	90 - 110	P	06/25/2025	16:04	LB136273
	Copper	1310	1250	105	90 - 110	P	06/25/2025	16:04	LB136273
	Iron	5120	5000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Lead	5060	5000	101	90 - 110	P	06/25/2025	16:04	LB136273
	Magnesium	25400	25000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Manganese	2560	2500	102	90 - 110	P	06/25/2025	16:04	LB136273
	Nickel	2520	2500	101	90 - 110	P	06/25/2025	16:04	LB136273
	Potassium	25600	25000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Selenium	5090	5000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Silver	1280	1250	102	90 - 110	P	06/25/2025	16:04	LB136273
	Sodium	25600	25000	102	90 - 110	P	06/25/2025	16:04	LB136273
	Thallium	5070	5000	101	90 - 110	P	06/25/2025	16:04	LB136273
	Vanadium	2560	2500	102	90 - 110	P	06/25/2025	16:04	LB136273
	Zinc	2560	2500	102	90 - 110	P	06/25/2025	16:04	LB136273
CCV02	Aluminum	10200	10000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Antimony	5100	5000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Arsenic	5030	5000	100	90 - 110	P	06/25/2025	16:57	LB136273
	Barium	10200	10000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Beryllium	267	250	107	90 - 110	P	06/25/2025	16:57	LB136273
	Cadmium	2530	2500	101	90 - 110	P	06/25/2025	16:57	LB136273
	Calcium	25600	25000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Chromium	1040	1000	104	90 - 110	P	06/25/2025	16:57	LB136273
	Cobalt	2530	2500	101	90 - 110	P	06/25/2025	16:57	LB136273
	Copper	1320	1250	106	90 - 110	P	06/25/2025	16:57	LB136273
	Iron	5120	5000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Lead	5050	5000	101	90 - 110	P	06/25/2025	16:57	LB136273

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

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	25500	25000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Manganese	2570	2500	103	90 - 110	P	06/25/2025	16:57	LB136273
	Nickel	2510	2500	100	90 - 110	P	06/25/2025	16:57	LB136273
	Potassium	25600	25000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Selenium	5090	5000	102	90 - 110	P	06/25/2025	16:57	LB136273
	Silver	1290	1250	103	90 - 110	P	06/25/2025	16:57	LB136273
	Sodium	25700	25000	103	90 - 110	P	06/25/2025	16:57	LB136273
	Thallium	5050	5000	101	90 - 110	P	06/25/2025	16:57	LB136273
	Vanadium	2560	2500	102	90 - 110	P	06/25/2025	16:57	LB136273
	Zinc	2560	2500	102	90 - 110	P	06/25/2025	16:57	LB136273
CCV03	Aluminum	10200	10000	102	90 - 110	P	06/25/2025	18:00	LB136273
	Antimony	5150	5000	103	90 - 110	P	06/25/2025	18:00	LB136273
	Arsenic	5110	5000	102	90 - 110	P	06/25/2025	18:00	LB136273
	Barium	10200	10000	102	90 - 110	P	06/25/2025	18:00	LB136273
	Beryllium	258	250	103	90 - 110	P	06/25/2025	18:00	LB136273
	Cadmium	2550	2500	102	90 - 110	P	06/25/2025	18:00	LB136273
	Calcium	25700	25000	103	90 - 110	P	06/25/2025	18:00	LB136273
	Chromium	1040	1000	104	90 - 110	P	06/25/2025	18:00	LB136273
	Cobalt	2530	2500	101	90 - 110	P	06/25/2025	18:00	LB136273
	Copper	1270	1250	102	90 - 110	P	06/25/2025	18:00	LB136273
	Iron	5130	5000	103	90 - 110	P	06/25/2025	18:00	LB136273
	Lead	5070	5000	101	90 - 110	P	06/25/2025	18:00	LB136273
	Magnesium	25600	25000	103	90 - 110	P	06/25/2025	18:00	LB136273
	Manganese	2560	2500	102	90 - 110	P	06/25/2025	18:00	LB136273
	Nickel	2520	2500	101	90 - 110	P	06/25/2025	18:00	LB136273
	Potassium	26900	25000	108	90 - 110	P	06/25/2025	18:00	LB136273
	Selenium	5180	5000	104	90 - 110	P	06/25/2025	18:00	LB136273
	Silver	1300	1250	104	90 - 110	P	06/25/2025	18:00	LB136273
	Sodium	25500	25000	102	90 - 110	P	06/25/2025	18:00	LB136273
	Thallium	5070	5000	101	90 - 110	P	06/25/2025	18:00	LB136273
	Vanadium	2570	2500	103	90 - 110	P	06/25/2025	18:00	LB136273
	Zinc	2600	2500	104	90 - 110	P	06/25/2025	18:00	LB136273
CCV04	Aluminum	10200	10000	102	90 - 110	P	06/25/2025	18:55	LB136273
	Antimony	5090	5000	102	90 - 110	P	06/25/2025	18:55	LB136273

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Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	5010	5000	100	90 - 110	P	06/25/2025	18:55	LB136273
	Barium	10200	10000	102	90 - 110	P	06/25/2025	18:55	LB136273
	Beryllium	269	250	108	90 - 110	P	06/25/2025	18:55	LB136273
	Cadmium	2530	2500	101	90 - 110	P	06/25/2025	18:55	LB136273
	Calcium	25600	25000	102	90 - 110	P	06/25/2025	18:55	LB136273
	Chromium	1040	1000	104	90 - 110	P	06/25/2025	18:55	LB136273
	Cobalt	2520	2500	101	90 - 110	P	06/25/2025	18:55	LB136273
	Copper	1330	1250	106	90 - 110	P	06/25/2025	18:55	LB136273
	Iron	5150	5000	103	90 - 110	P	06/25/2025	18:55	LB136273
	Lead	5030	5000	101	90 - 110	P	06/25/2025	18:55	LB136273
	Magnesium	25600	25000	102	90 - 110	P	06/25/2025	18:55	LB136273
	Manganese	2550	2500	102	90 - 110	P	06/25/2025	18:55	LB136273
	Nickel	2510	2500	100	90 - 110	P	06/25/2025	18:55	LB136273
	Potassium	25600	25000	102	90 - 110	P	06/25/2025	18:55	LB136273
	Selenium	5060	5000	101	90 - 110	P	06/25/2025	18:55	LB136273
	Silver	1280	1250	103	90 - 110	P	06/25/2025	18:55	LB136273
	Sodium	25900	25000	104	90 - 110	P	06/25/2025	18:55	LB136273
	Thallium	5020	5000	100	90 - 110	P	06/25/2025	18:55	LB136273
	Vanadium	2550	2500	102	90 - 110	P	06/25/2025	18:55	LB136273
	Zinc	2560	2500	102	90 - 110	P	06/25/2025	18:55	LB136273
CCV05	Aluminum	10300	10000	103	90 - 110	P	06/25/2025	19:52	LB136273
	Antimony	5150	5000	103	90 - 110	P	06/25/2025	19:52	LB136273
	Arsenic	5070	5000	101	90 - 110	P	06/25/2025	19:52	LB136273
	Barium	10300	10000	103	90 - 110	P	06/25/2025	19:52	LB136273
	Beryllium	271	250	108	90 - 110	P	06/25/2025	19:52	LB136273
	Cadmium	2550	2500	102	90 - 110	P	06/25/2025	19:52	LB136273
	Calcium	25800	25000	103	90 - 110	P	06/25/2025	19:52	LB136273
	Chromium	1050	1000	105	90 - 110	P	06/25/2025	19:52	LB136273
	Cobalt	2540	2500	102	90 - 110	P	06/25/2025	19:52	LB136273
	Copper	1340	1250	107	90 - 110	P	06/25/2025	19:52	LB136273
	Iron	5120	5000	102	90 - 110	P	06/25/2025	19:52	LB136273
	Lead	5080	5000	102	90 - 110	P	06/25/2025	19:52	LB136273
	Magnesium	25600	25000	102	90 - 110	P	06/25/2025	19:52	LB136273
	Manganese	2560	2500	102	90 - 110	P	06/25/2025	19:52	LB136273

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Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	2530	2500	101	90 - 110	P	06/25/2025	19:52	LB136273
	Potassium	25600	25000	102	90 - 110	P	06/25/2025	19:52	LB136273
	Selenium	5120	5000	102	90 - 110	P	06/25/2025	19:52	LB136273
	Silver	1290	1250	103	90 - 110	P	06/25/2025	19:52	LB136273
	Sodium	26100	25000	104	90 - 110	P	06/25/2025	19:52	LB136273
	Thallium	5060	5000	101	90 - 110	P	06/25/2025	19:52	LB136273
	Vanadium	2570	2500	103	90 - 110	P	06/25/2025	19:52	LB136273
	Zinc	2570	2500	103	90 - 110	P	06/25/2025	19:52	LB136273
CCV06	Aluminum	10200	10000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Antimony	5170	5000	103	90 - 110	P	06/25/2025	20:46	LB136273
	Arsenic	5080	5000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Barium	10200	10000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Beryllium	267	250	107	90 - 110	P	06/25/2025	20:46	LB136273
	Cadmium	2550	2500	102	90 - 110	P	06/25/2025	20:46	LB136273
	Calcium	25400	25000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Chromium	1030	1000	103	90 - 110	P	06/25/2025	20:46	LB136273
	Cobalt	2550	2500	102	90 - 110	P	06/25/2025	20:46	LB136273
	Copper	1330	1250	106	90 - 110	P	06/25/2025	20:46	LB136273
	Iron	5040	5000	101	90 - 110	P	06/25/2025	20:46	LB136273
	Lead	5100	5000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Magnesium	25200	25000	101	90 - 110	P	06/25/2025	20:46	LB136273
	Manganese	2510	2500	100	90 - 110	P	06/25/2025	20:46	LB136273
	Nickel	2550	2500	102	90 - 110	P	06/25/2025	20:46	LB136273
	Potassium	25200	25000	101	90 - 110	P	06/25/2025	20:46	LB136273
	Selenium	5160	5000	103	90 - 110	P	06/25/2025	20:46	LB136273
	Silver	1270	1250	102	90 - 110	P	06/25/2025	20:46	LB136273
	Sodium	25600	25000	103	90 - 110	P	06/25/2025	20:46	LB136273
	Thallium	5110	5000	102	90 - 110	P	06/25/2025	20:46	LB136273
	Vanadium	2540	2500	102	90 - 110	P	06/25/2025	20:46	LB136273
	Zinc	2570	2500	103	90 - 110	P	06/25/2025	20:46	LB136273
CCV07	Aluminum	10100	10000	101	90 - 110	P	06/25/2025	21:12	LB136273
	Antimony	5120	5000	102	90 - 110	P	06/25/2025	21:12	LB136273
	Arsenic	5040	5000	101	90 - 110	P	06/25/2025	21:12	LB136273
	Barium	10100	10000	102	90 - 110	P	06/25/2025	21:12	LB136273

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	259	250	104	90 - 110	P	06/25/2025	21:12	LB136273
	Cadmium	2540	2500	101	90 - 110	P	06/25/2025	21:12	LB136273
	Calcium	25000	25000	100	90 - 110	P	06/25/2025	21:12	LB136273
	Chromium	1020	1000	102	90 - 110	P	06/25/2025	21:12	LB136273
	Cobalt	2530	2500	101	90 - 110	P	06/25/2025	21:12	LB136273
	Copper	1290	1250	103	90 - 110	P	06/25/2025	21:12	LB136273
	Iron	5050	5000	101	90 - 110	P	06/25/2025	21:12	LB136273
	Lead	5060	5000	101	90 - 110	P	06/25/2025	21:12	LB136273
	Magnesium	24800	25000	99	90 - 110	P	06/25/2025	21:12	LB136273
	Manganese	2480	2500	99	90 - 110	P	06/25/2025	21:12	LB136273
	Nickel	2540	2500	102	90 - 110	P	06/25/2025	21:12	LB136273
	Potassium	24900	25000	100	90 - 110	P	06/25/2025	21:12	LB136273
	Selenium	5120	5000	102	90 - 110	P	06/25/2025	21:12	LB136273
	Silver	1250	1250	100	90 - 110	P	06/25/2025	21:12	LB136273
	Sodium	25200	25000	101	90 - 110	P	06/25/2025	21:12	LB136273
	Thallium	5080	5000	102	90 - 110	P	06/25/2025	21:12	LB136273
	Vanadium	2520	2500	101	90 - 110	P	06/25/2025	21:12	LB136273
	Zinc	2560	2500	102	90 - 110	P	06/25/2025	21:12	LB136273

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	0.20	0.2	102	70 - 130	CV	06/20/2025	14:01	LB136216
CRI01	Aluminum	109	100	109	65 - 135	P	06/23/2025	13:23	LB136236
	Antimony	52.9	50.0	106	65 - 135	P	06/23/2025	13:23	LB136236
	Arsenic	18.0	20.0	90	65 - 135	P	06/23/2025	13:23	LB136236
	Barium	100	100	100	65 - 135	P	06/23/2025	13:23	LB136236
	Beryllium	6.35	6.0	106	65 - 135	P	06/23/2025	13:23	LB136236
	Cadmium	5.84	6.0	97	65 - 135	P	06/23/2025	13:23	LB136236
	Calcium	2020	2000	101	65 - 135	P	06/23/2025	13:23	LB136236
	Chromium	10.1	10.0	101	65 - 135	P	06/23/2025	13:23	LB136236
	Cobalt	31.2	30.0	104	65 - 135	P	06/23/2025	13:23	LB136236
	Copper	23.3	20.0	116	65 - 135	P	06/23/2025	13:23	LB136236
	Iron	94.8	100	95	65 - 135	P	06/23/2025	13:23	LB136236
	Lead	11.8	12.0	98	65 - 135	P	06/23/2025	13:23	LB136236
	Magnesium	2120	2000	106	65 - 135	P	06/23/2025	13:23	LB136236
	Manganese	20.4	20.0	102	65 - 135	P	06/23/2025	13:23	LB136236
	Nickel	40.7	40.0	102	65 - 135	P	06/23/2025	13:23	LB136236
	Potassium	1670	2000	83	65 - 135	P	06/23/2025	13:23	LB136236
	Selenium	17.5	20.0	88	65 - 135	P	06/23/2025	13:23	LB136236
	Silver	9.75	10.0	98	65 - 135	P	06/23/2025	13:23	LB136236
	Sodium	1870	2000	93	65 - 135	P	06/23/2025	13:23	LB136236
	Thallium	40.9	40.0	102	65 - 135	P	06/23/2025	13:23	LB136236
	Vanadium	34.3	40.0	86	65 - 135	P	06/23/2025	13:23	LB136236
	Zinc	40.3	40.0	101	65 - 135	P	06/23/2025	13:23	LB136236
CRI01	Aluminum	103	100	103	65 - 135	P	06/25/2025	15:24	LB136273
	Antimony	49.6	50.0	99	65 - 135	P	06/25/2025	15:24	LB136273
	Arsenic	16.5	20.0	82	65 - 135	P	06/25/2025	15:24	LB136273
	Barium	99.4	100	99	65 - 135	P	06/25/2025	15:24	LB136273
	Beryllium	6.43	6.0	107	65 - 135	P	06/25/2025	15:24	LB136273
	Cadmium	5.59	6.0	93	65 - 135	P	06/25/2025	15:24	LB136273
	Calcium	2000	2000	100	65 - 135	P	06/25/2025	15:24	LB136273
	Chromium	8.98	10.0	90	65 - 135	P	06/25/2025	15:24	LB136273
	Cobalt	29.9	30.0	100	65 - 135	P	06/25/2025	15:24	LB136273
	Copper	22.1	20.0	110	65 - 135	P	06/25/2025	15:24	LB136273
	Iron	107	100	107	65 - 135	P	06/25/2025	15:24	LB136273
	Lead	13.2	12.0	110	65 - 135	P	06/25/2025	15:24	LB136273

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

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	2150	2000	108	65 - 135	P	06/25/2025	15:24	LB136273
	Manganese	24.3	20.0	122	65 - 135	P	06/25/2025	15:24	LB136273
	Nickel	38.6	40.0	96	65 - 135	P	06/25/2025	15:24	LB136273
	Potassium	1940	2000	97	65 - 135	P	06/25/2025	15:24	LB136273
	Selenium	20.3	20.0	102	65 - 135	P	06/25/2025	15:24	LB136273
	Silver	9.71	10.0	97	65 - 135	P	06/25/2025	15:24	LB136273
	Sodium	1870	2000	94	65 - 135	P	06/25/2025	15:24	LB136273
	Thallium	36.8	40.0	92	65 - 135	P	06/25/2025	15:24	LB136273
	Vanadium	42.8	40.0	107	65 - 135	P	06/25/2025	15:24	LB136273
	Zinc	39.7	40.0	99	65 - 135	P	06/25/2025	15:24	LB136273

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB47	Mercury	0.076	+/-0.2	U	0.20	CV	06/20/2025	13:54	LB136216

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB69	Mercury	0.076	+/-0.2	U	0.20	CV	06/20/2025	13:59	LB136216
CCB70	Mercury	0.076	+/-0.2	U	0.20	CV	06/20/2025	14:27	LB136216
CCB71	Mercury	0.076	+/-0.2	U	0.20	CV	06/20/2025	14:53	LB136216

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	16.7	+/-50	J	100	P	06/23/2025	13:19	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	13:19	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	13:19	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	13:19	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	13:19	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	13:19	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	13:19	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	13:19	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	13:19	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	13:19	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	13:19	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	13:19	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	13:19	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	13:19	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	13:19	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	13:19	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	13:19	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	13:19	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	13:19	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	13:19	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	13:19	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	13:19	LB136236

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	12.1	+/-50	J	100	P	06/23/2025	14:05	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	14:05	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	14:05	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	14:05	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	14:05	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	14:05	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	14:05	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	14:05	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	14:05	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	14:05	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	14:05	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	14:05	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	14:05	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	14:05	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	14:05	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	14:05	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	14:05	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	14:05	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	14:05	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	14:05	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	14:05	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	14:05	LB136236
CCB02	Aluminum	11.3	+/-50	U	100	P	06/23/2025	14:58	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	14:58	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	14:58	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	14:58	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	14:58	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	14:58	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	14:58	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	14:58	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	14:58	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	14:58	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	14:58	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	14:58	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	14:58	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	14:58	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	14:58	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	14:58	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	14:58	LB136236

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/23/2025	14:58	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	14:58	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	14:58	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	14:58	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	14:58	LB136236
CCB03	Aluminum	11.3	+/-50	U	100	P	06/23/2025	15:52	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	15:52	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	15:52	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	15:52	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	15:52	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	15:52	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	15:52	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	15:52	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	15:52	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	15:52	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	15:52	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	15:52	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	15:52	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	15:52	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	15:52	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	15:52	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	15:52	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	15:52	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	15:52	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	15:52	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	15:52	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	15:52	LB136236
CCB04	Aluminum	11.3	+/-50	U	100	P	06/23/2025	16:56	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	16:56	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	16:56	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	16:56	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	16:56	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	16:56	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	16:56	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	16:56	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	16:56	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	16:56	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	16:56	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	16:56	LB136236

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/23/2025	16:56	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	16:56	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	16:56	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	16:56	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	16:56	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	16:56	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	16:56	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	16:56	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	16:56	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	16:56	LB136236
CCB05	Aluminum	11.3	+/-50	U	100	P	06/23/2025	17:49	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	17:49	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	17:49	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	17:49	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	17:49	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	17:49	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	17:49	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	17:49	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	17:49	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	17:49	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	17:49	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	17:49	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	17:49	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	17:49	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	17:49	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	17:49	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	17:49	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	17:49	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	17:49	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	17:49	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	17:49	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	17:49	LB136236
CCB06	Aluminum	15.0	+/-50	J	100	P	06/23/2025	18:43	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	18:43	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	18:43	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	18:43	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	18:43	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	18:43	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	18:43	LB136236

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	18:43	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	18:43	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	18:43	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	18:43	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	18:43	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	18:43	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	18:43	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	18:43	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	18:43	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	18:43	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	18:43	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	18:43	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	18:43	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	18:43	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	18:43	LB136236
CCB07	Aluminum	11.3	+/-50	U	100	P	06/23/2025	19:28	LB136236
	Antimony	6.76	+/-25	U	50.0	P	06/23/2025	19:28	LB136236
	Arsenic	5.12	+/-10	U	20.0	P	06/23/2025	19:28	LB136236
	Barium	14.6	+/-50	U	100	P	06/23/2025	19:28	LB136236
	Beryllium	0.56	+/-3	U	6.00	P	06/23/2025	19:28	LB136236
	Cadmium	0.50	+/-3	U	6.00	P	06/23/2025	19:28	LB136236
	Calcium	234	+/-1000	U	2000	P	06/23/2025	19:28	LB136236
	Chromium	2.12	+/-5	U	10.0	P	06/23/2025	19:28	LB136236
	Cobalt	2.26	+/-15	U	30.0	P	06/23/2025	19:28	LB136236
	Copper	4.60	+/-10	U	20.0	P	06/23/2025	19:28	LB136236
	Iron	23.4	+/-50	U	100	P	06/23/2025	19:28	LB136236
	Lead	2.30	+/-6	U	12.0	P	06/23/2025	19:28	LB136236
	Magnesium	244	+/-1000	U	2000	P	06/23/2025	19:28	LB136236
	Manganese	5.94	+/-10	U	20.0	P	06/23/2025	19:28	LB136236
	Nickel	3.06	+/-20	U	40.0	P	06/23/2025	19:28	LB136236
	Potassium	918	+/-1000	U	2000	P	06/23/2025	19:28	LB136236
	Selenium	9.64	+/-10	U	20.0	P	06/23/2025	19:28	LB136236
	Silver	1.62	+/-5	U	10.0	P	06/23/2025	19:28	LB136236
	Sodium	868	+/-1000	U	2000	P	06/23/2025	19:28	LB136236
	Thallium	4.38	+/-20	U	40.0	P	06/23/2025	19:28	LB136236
	Vanadium	6.26	+/-20	U	40.0	P	06/23/2025	19:28	LB136236
	Zinc	3.50	+/-20	U	40.0	P	06/23/2025	19:28	LB136236

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	06/25/2025	14:53	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	14:53	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	14:53	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	14:53	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	14:53	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	14:53	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	14:53	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	14:53	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	14:53	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	14:53	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	14:53	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	14:53	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	14:53	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	14:53	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	14:53	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	14:53	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	14:53	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	14:53	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	14:53	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	14:53	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	14:53	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	14:53	LB136273

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	06/25/2025	16:09	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	16:09	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	16:09	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	16:09	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	16:09	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	16:09	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	16:09	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	16:09	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	16:09	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	16:09	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	16:09	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	16:09	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	16:09	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	16:09	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	16:09	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	16:09	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	16:09	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	16:09	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	16:09	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	16:09	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	16:09	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	16:09	LB136273
CCB02	Aluminum	11.3	+/-50	U	100	P	06/25/2025	17:09	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	17:09	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	17:09	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	17:09	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	17:09	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	17:09	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	17:09	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	17:09	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	17:09	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	17:09	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	17:09	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	17:09	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	17:09	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	17:09	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	17:09	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	17:09	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	17:09	LB136273

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/25/2025	17:09	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	17:09	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	17:09	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	17:09	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	17:09	LB136273
CCB03	Aluminum	22.1	+/-50	J	100	P	06/25/2025	18:07	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	18:07	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	18:07	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	18:07	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	18:07	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	18:07	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	18:07	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	18:07	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	18:07	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	18:07	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	18:07	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	18:07	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	18:07	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	18:07	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	18:07	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	18:07	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	18:07	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	18:07	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	18:07	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	18:07	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	18:07	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	18:07	LB136273
CCB04	Aluminum	11.3	+/-50	U	100	P	06/25/2025	18:59	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	18:59	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	18:59	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	18:59	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	18:59	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	18:59	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	18:59	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	18:59	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	18:59	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	18:59	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	18:59	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	18:59	LB136273

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/25/2025	18:59	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	18:59	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	18:59	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	18:59	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	18:59	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	18:59	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	18:59	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	18:59	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	18:59	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	18:59	LB136273
CCB05	Aluminum	11.3	+/-50	U	100	P	06/25/2025	19:57	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	19:57	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	19:57	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	19:57	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	19:57	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	19:57	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	19:57	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	19:57	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	19:57	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	19:57	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	19:57	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	19:57	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	19:57	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	19:57	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	19:57	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	19:57	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	19:57	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	19:57	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	19:57	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	19:57	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	19:57	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	19:57	LB136273
CCB06	Aluminum	11.3	+/-50	U	100	P	06/25/2025	20:50	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	20:50	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	20:50	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	20:50	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	20:50	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	20:50	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	20:50	LB136273

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	9.17	+/-5	J*	10.0	P	06/25/2025	20:50	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	20:50	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	20:50	LB136273
	Iron	33.2	+/-50	J	100	P	06/25/2025	20:50	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	20:50	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	20:50	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	20:50	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	20:50	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	20:50	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	20:50	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	20:50	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	20:50	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	20:50	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	20:50	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	20:50	LB136273
CCB07	Aluminum	11.3	+/-50	U	100	P	06/25/2025	21:16	LB136273
	Antimony	6.76	+/-25	U	50.0	P	06/25/2025	21:16	LB136273
	Arsenic	5.12	+/-10	U	20.0	P	06/25/2025	21:16	LB136273
	Barium	14.6	+/-50	U	100	P	06/25/2025	21:16	LB136273
	Beryllium	0.56	+/-3	U	6.00	P	06/25/2025	21:16	LB136273
	Cadmium	0.50	+/-3	U	6.00	P	06/25/2025	21:16	LB136273
	Calcium	234	+/-1000	U	2000	P	06/25/2025	21:16	LB136273
	Chromium	2.12	+/-5	U	10.0	P	06/25/2025	21:16	LB136273
	Cobalt	2.26	+/-15	U	30.0	P	06/25/2025	21:16	LB136273
	Copper	4.60	+/-10	U	20.0	P	06/25/2025	21:16	LB136273
	Iron	23.4	+/-50	U	100	P	06/25/2025	21:16	LB136273
	Lead	2.30	+/-6	U	12.0	P	06/25/2025	21:16	LB136273
	Magnesium	244	+/-1000	U	2000	P	06/25/2025	21:16	LB136273
	Manganese	5.94	+/-10	U	20.0	P	06/25/2025	21:16	LB136273
	Nickel	3.06	+/-20	U	40.0	P	06/25/2025	21:16	LB136273
	Potassium	918	+/-1000	U	2000	P	06/25/2025	21:16	LB136273
	Selenium	9.64	+/-10	U	20.0	P	06/25/2025	21:16	LB136273
	Silver	1.62	+/-5	U	10.0	P	06/25/2025	21:16	LB136273
	Sodium	868	+/-1000	U	2000	P	06/25/2025	21:16	LB136273
	Thallium	4.38	+/-20	U	40.0	P	06/25/2025	21:16	LB136273
	Vanadium	6.26	+/-20	U	40.0	P	06/25/2025	21:16	LB136273
	Zinc	3.50	+/-20	U	40.0	P	06/25/2025	21:16	LB136273

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168569BL		**SOLID**		**Batch Number:**	**PB168569**		**Prep Date:**	**06/20/2025**	
	Mercury	0.0070	<0.013	U	0.013	CV	06/20/2025	14:08	LB136216

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2364

Instrument: P5

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168564BL		**SOLID**		**Batch Number:**	**PB168564**		**Prep Date:**	**06/20/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	06/23/2025	15:11	LB136236
	Antimony	0.22	<1.25	U	2.50	P	06/23/2025	15:11	LB136236
	Arsenic	0.19	<0.5	U	1.00	P	06/23/2025	15:11	LB136236
	Barium	0.73	<2.5	U	5.00	P	06/23/2025	15:11	LB136236
	Beryllium	0.025	<0.15	U	0.30	P	06/23/2025	15:11	LB136236
	Cadmium	0.024	<0.15	U	0.30	P	06/23/2025	15:11	LB136236
	Calcium	11.1	<50	U	100	P	06/23/2025	15:11	LB136236
	Chromium	0.047	<0.25	U	0.50	P	06/23/2025	15:11	LB136236
	Cobalt	0.10	<0.75	U	1.50	P	06/23/2025	15:11	LB136236
	Copper	0.22	<0.5	U	1.00	P	06/23/2025	15:11	LB136236
	Iron	3.99	<2.5	U	5.00	P	06/23/2025	15:11	LB136236
	Lead	0.13	<0.3	U	0.60	P	06/23/2025	15:11	LB136236
	Magnesium	12.0	<50	U	100	P	06/23/2025	15:11	LB136236
	Manganese	0.14	<0.5	U	1.00	P	06/23/2025	15:11	LB136236
	Nickel	0.13	<1	U	2.00	P	06/23/2025	15:11	LB136236
	Potassium	27.7	<50	U	100	P	06/23/2025	15:11	LB136236
	Selenium	0.26	<0.5	U	1.00	P	06/23/2025	15:11	LB136236
	Silver	0.12	<0.25	U	0.50	P	06/23/2025	15:11	LB136236
	Sodium	17.8	<50	U	100	P	06/23/2025	15:11	LB136236
	Thallium	0.23	<1	U	2.00	P	06/23/2025	15:11	LB136236
	Vanadium	0.25	<1	U	2.00	P	06/23/2025	15:11	LB136236
	Zinc	0.11	<1	U	2.00	P	06/23/2025	15:11	LB136236

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

ICS Source: EPA **Instrument ID:** P5

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	258000	250000	103	216000	294000	06/23/2025	13:34	LB136236
	Antimony	19.1			-50	50	06/23/2025	13:34	LB136236
	Arsenic	-7.00			-20	20	06/23/2025	13:34	LB136236
	Barium	7.03	6.0	117	-94	106	06/23/2025	13:34	LB136236
	Beryllium	1.14			-6	6	06/23/2025	13:34	LB136236
	Cadmium	-1.06	1.0	106	-5	7	06/23/2025	13:34	LB136236
	Calcium	236000	240000	98	208000	282000	06/23/2025	13:34	LB136236
	Chromium	50.3	52.0	97	42	62	06/23/2025	13:34	LB136236
	Cobalt	27.1			-30	30	06/23/2025	13:34	LB136236
	Copper	-9.01	2.0	450	-18	22	06/23/2025	13:34	LB136236
	Iron	99900	100000	100	85600	116500	06/23/2025	13:34	LB136236
	Lead	-2.88			-12	12	06/23/2025	13:34	LB136236
	Magnesium	250000	260000	96	216000	294000	06/23/2025	13:34	LB136236
	Manganese	6.23	7.0	89	-13	27	06/23/2025	13:34	LB136236
	Nickel	4.60	2.0	230	-38	42	06/23/2025	13:34	LB136236
	Potassium	8.86			0	0	06/23/2025	13:34	LB136236
	Selenium	-1.75			-20	20	06/23/2025	13:34	LB136236
	Silver	-0.54			-10	10	06/23/2025	13:34	LB136236
	Sodium	200			0	0	06/23/2025	13:34	LB136236
	Thallium	6.79			-40	40	06/23/2025	13:34	LB136236
	Vanadium	6.95			-40	40	06/23/2025	13:34	LB136236
	Zinc	11.2			-40	40	06/23/2025	13:34	LB136236
ICSAB01	Aluminum	249000	250000	100	209000	285000	06/23/2025	13:43	LB136236
	Antimony	618	620	100	525	711	06/23/2025	13:43	LB136236
	Arsenic	94.5	100	94	88.4	120	06/23/2025	13:43	LB136236
	Barium	505	540	94	437	637	06/23/2025	13:43	LB136236
	Beryllium	513	500	103	420	570	06/23/2025	13:43	LB136236
	Cadmium	1030	970	106	826	1120	06/23/2025	13:43	LB136236
	Calcium	226000	230000	98	199000	271000	06/23/2025	13:43	LB136236
	Chromium	543	540	101	460	624	06/23/2025	13:43	LB136236
	Cobalt	531	480	111	404	548	06/23/2025	13:43	LB136236
	Copper	478	510	94	434	588	06/23/2025	13:43	LB136236
	Iron	96200	99000	97	84400	114500	06/23/2025	13:43	LB136236
	Lead	45.9	49.0	94	37	61	06/23/2025	13:43	LB136236
	Magnesium	240000	250000	96	210000	286000	06/23/2025	13:43	LB136236
	Manganese	486	510	95	430	584	06/23/2025	13:43	LB136236
	Nickel	1010	950	106	810	1100	06/23/2025	13:43	LB136236
	Potassium	5.91			0	0	06/23/2025	13:43	LB136236
	Selenium	52.0	46.0	113	26	66	06/23/2025	13:43	LB136236
	Silver	209	200	104	170	232	06/23/2025	13:43	LB136236
	Sodium	192			0	0	06/23/2025	13:43	LB136236
	Thallium	98.9	110	90	68	148	06/23/2025	13:43	LB136236

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

ICS Source: EPA **Instrument ID:** P5

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	490	490	100	417	565	06/23/2025	13:43	LB136236
	Zinc	1010	950	106	809	1095	06/23/2025	13:43	LB136236
ICSA01	Aluminum	261000	250000	104	216000	294000	06/25/2025	15:29	LB136273
	Antimony	23.7			-50	50	06/25/2025	15:29	LB136273
	Arsenic	-0.86			-20	20	06/25/2025	15:29	LB136273
	Barium	5.64	6.0	94	-94	106	06/25/2025	15:29	LB136273
	Beryllium	1.13			-6	6	06/25/2025	15:29	LB136273
	Cadmium	-2.31	1.0	231	-5	7	06/25/2025	15:29	LB136273
	Calcium	248000	240000	103	208000	282000	06/25/2025	15:29	LB136273
	Chromium	52.4	52.0	101	42	62	06/25/2025	15:29	LB136273
	Cobalt	22.6			-30	30	06/25/2025	15:29	LB136273
	Copper	-9.16	2.0	458	-18	22	06/25/2025	15:29	LB136273
	Iron	104000	100000	104	85600	116500	06/25/2025	15:29	LB136273
	Lead	0.032			-12	12	06/25/2025	15:29	LB136273
	Magnesium	259000	260000	100	216000	294000	06/25/2025	15:29	LB136273
	Manganese	7.58	7.0	108	-13	27	06/25/2025	15:29	LB136273
	Nickel	4.65	2.0	232	-38	42	06/25/2025	15:29	LB136273
	Potassium	6.15			0	0	06/25/2025	15:29	LB136273
	Selenium	1.93			-20	20	06/25/2025	15:29	LB136273
	Silver	-7.28			-10	10	06/25/2025	15:29	LB136273
	Sodium	207			0	0	06/25/2025	15:29	LB136273
	Thallium	3.18			-40	40	06/25/2025	15:29	LB136273
	Vanadium	3.48			-40	40	06/25/2025	15:29	LB136273
	Zinc	12.9			-40	40	06/25/2025	15:29	LB136273
ICSAB01	Aluminum	249000	250000	100	209000	285000	06/25/2025	15:51	LB136273
	Antimony	617	620	100	525	711	06/25/2025	15:51	LB136273
	Arsenic	92.4	100	92	88.4	120	06/25/2025	15:51	LB136273
	Barium	501	540	93	437	637	06/25/2025	15:51	LB136273
	Beryllium	523	500	105	420	570	06/25/2025	15:51	LB136273
	Cadmium	985	970	102	826	1120	06/25/2025	15:51	LB136273
	Calcium	239000	230000	104	199000	271000	06/25/2025	15:51	LB136273
	Chromium	555	540	103	460	624	06/25/2025	15:51	LB136273
	Cobalt	507	480	106	404	548	06/25/2025	15:51	LB136273
	Copper	483	510	95	434	588	06/25/2025	15:51	LB136273
	Iron	101000	99000	102	84400	114500	06/25/2025	15:51	LB136273
	Lead	49.4	49.0	101	37	61	06/25/2025	15:51	LB136273
	Magnesium	249000	250000	100	210000	286000	06/25/2025	15:51	LB136273
	Manganese	498	510	98	430	584	06/25/2025	15:51	LB136273
	Nickel	968	950	102	810	1100	06/25/2025	15:51	LB136273
	Potassium	4.79			0	0	06/25/2025	15:51	LB136273
	Selenium	48.1	46.0	105	26	66	06/25/2025	15:51	LB136273
	Silver	206	200	103	170	232	06/25/2025	15:51	LB136273

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

ICS Source: EPA **Instrument ID:** P5

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	209			0	0	06/25/2025	15:51	LB136273
	Thallium	96.1	110	87	68	148	06/25/2025	15:51	LB136273
	Vanadium	488	490	100	417	565	06/25/2025	15:51	LB136273
	Zinc	1020	950	107	809	1095	06/25/2025	15:51	LB136273

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2364

contract: GENV01 **lab code:** CHEM **case no.:** Q2364 **sas no.:** Q2364

matrix: Solid **sample id:** Q2364-02 **client id:** GAV1BMS

Percent Solids for Sample: 85.5 **Spiked ID:** Q2364-02MS **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3690		3370		100	313		P
Antimony	mg/Kg	75 - 125	22.4		3.06		41.0	47	N	P
Arsenic	mg/Kg	75 - 125	41.0		0.40	J	41.0	99		P
Barium	mg/Kg	75 - 125	19.7		14.2		10.3	54	N	P
Beryllium	mg/Kg	75 - 125	9.73		0.19	J	10.3	93		P
Cadmium	mg/Kg	75 - 125	10.7		0.55		10.3	99		P
Calcium	mg/Kg	75 - 125	510		951		51.3	-859		P
Chromium	mg/Kg	75 - 125	170		152		20.5	88		P
Cobalt	mg/Kg	75 - 125	12.5		2.74		10.3	96		P
Copper	mg/Kg	75 - 125	141		85.4		15.4	362		P
Iron	mg/Kg	75 - 125	4830		5660		150	-544		P
Lead	mg/Kg	75 - 125	56.9		16.0		51.3	80		P
Magnesium	mg/Kg	75 - 125	753		788		100	-35		P
Manganese	mg/Kg	75 - 125	36.7		40.5		10.3	-36	N	P
Nickel	mg/Kg	75 - 125	59.2		30.4		25.6	112		P
Potassium	mg/Kg	75 - 125	662		241		510	82		P
Selenium	mg/Kg	75 - 125	92.2		1.63		100	88		P
Silver	mg/Kg	75 - 125	3.43		0.13	J	3.8	86		P
Sodium	mg/Kg	75 - 125	213		111		150	66	N	P
Thallium	mg/Kg	75 - 125	103		2.07	U	100	100		P
Vanadium	mg/Kg	75 - 125	20.3		7.19		15.4	85		P
Zinc	mg/Kg	75 - 125	82.1		82.1		10.3	0		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2364

contract: GENV01 **lab code:** CHEM **case no.:** Q2364 **sas no.:** Q2364

matrix: Solid **sample id:** Q2364-02 **client id:** GAV1BMSD

Percent Solids for Sample: 85.5 **Spiked ID:** Q2364-02MSD **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3580		3370		97.5	216		P
Antimony	mg/Kg	75 - 125	21.1		3.06		39.0	46	N	P
Arsenic	mg/Kg	75 - 125	38.4		0.40	J	39.0	97		P
Barium	mg/Kg	75 - 125	19.8		14.2		9.7	57	N	P
Beryllium	mg/Kg	75 - 125	9.02		0.19	J	9.7	91		P
Cadmium	mg/Kg	75 - 125	10.1		0.55		9.7	98		P
Calcium	mg/Kg	75 - 125	579		951		48.7	-764		P
Chromium	mg/Kg	75 - 125	167		152		19.5	78		P
Cobalt	mg/Kg	75 - 125	12.0		2.74		9.7	95		P
Copper	mg/Kg	75 - 125	94.9		85.4		14.6	65		P
Iron	mg/Kg	75 - 125	4990		5660		150	-463		P
Lead	mg/Kg	75 - 125	54.9		16.0		48.7	80		P
Magnesium	mg/Kg	75 - 125	822		788		97.5	35		P
Manganese	mg/Kg	75 - 125	39.7		40.5		9.7	-8		P
Nickel	mg/Kg	75 - 125	52.9		30.4		24.4	93		P
Potassium	mg/Kg	75 - 125	638		241		490	81		P
Selenium	mg/Kg	75 - 125	85.8		1.63		97.5	86		P
Silver	mg/Kg	75 - 125	3.31		0.13	J	3.7	87		P
Sodium	mg/Kg	75 - 125	200		111		150	61	N	P
Thallium	mg/Kg	75 - 125	96.3		2.07	U	97.5	99		P
Vanadium	mg/Kg	75 - 125	19.3		7.19		14.6	83		P
Zinc	mg/Kg	75 - 125	70.6		82.1		9.7	-118		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2364

contract: GENV01 **lab code:** CHEM **case no.:** Q2364 **sas no.:** Q2364

matrix: Solid **sample id:** Q2367-05 **client id:** EP-5MS

Percent Solids for Sample: 89.2 **Spiked ID:** Q2367-05MS **Percent Solids for Spike Sample:** 89.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.015	U	0.28	99		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2364

contract: GENV01 **lab code:** CHEM **case no.:** Q2364 **sas no.:** Q2364

matrix: Solid **sample id:** Q2367-05 **client id:** EP-5MSD

Percent Solids for Sample: 89.2 **Spiked ID:** Q2367-05MSD **Percent Solids for Spike Sample:** 89.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.015	U	0.29	93		CV

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Matrix: Solid **Level:** LOW **Client ID:** GAV1BA

Sample ID: Q2364-02 **Spiked ID:** Q2364-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	39.6		3.06		41.4	88		P
Barium	mg/Kg	75 - 125	22.6		14.2		10.4	81		P
Manganese	mg/Kg	75 - 125	48.0		40.5		10.4	73	N	P
Sodium	mg/Kg	75 - 125	233		111		160	76		P

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Matrix: Solid **Sample ID:** Q2364-02 **Client ID:** GAV1BDUP

Percent Solids for Sample: 85.5 **Duplicate ID** Q2364-02DUP **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3370		3140		7		P
Antimony	mg/Kg	20	3.06		2.64		15		P
Arsenic	mg/Kg	20	0.40	J	0.76	J	61		P
Barium	mg/Kg	20	14.2		12.3		14		P
Beryllium	mg/Kg	20	0.19	J	0.17	J	11		P
Cadmium	mg/Kg	20	0.55		0.43		23	*	P
Calcium	mg/Kg	20	951		517		59	*	P
Chromium	mg/Kg	20	152		140		8		P
Cobalt	mg/Kg	20	2.74		2.22		21	*	P
Copper	mg/Kg	20	85.4		39.7		73	*	P
Iron	mg/Kg	20	5660		4870		15		P
Lead	mg/Kg	20	16.0		7.07		77	*	P
Magnesium	mg/Kg	20	788		699		12		P
Manganese	mg/Kg	20	40.5		31.8		24	*	P
Nickel	mg/Kg	20	30.4		24.8		20		P
Potassium	mg/Kg	20	241		226		6		P
Selenium	mg/Kg	20	1.63		1.57		4		P
Silver	mg/Kg	20	0.13	J	0.48	U	200.0		P
Sodium	mg/Kg	20	111		70.0	J	45		P
Thallium	mg/Kg	20	2.07	U	1.92	U			P
Vanadium	mg/Kg	20	7.19		6.00		18		P
Zinc	mg/Kg	20	82.1		54.4		41	*	P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Matrix: Solid **Sample ID:** Q2364-02MS **Client ID:** GAV1BMSD

Percent Solids for Sample: 85.5 **Duplicate ID** Q2364-02MSD **Percent Solids for Spike Sample:** 85.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3690		3580		3		P
Antimony	mg/Kg	20	22.4		21.1		6		P
Arsenic	mg/Kg	20	41.0		38.4		7		P
Barium	mg/Kg	20	19.7		19.8		1		P
Beryllium	mg/Kg	20	9.73		9.02		8		P
Cadmium	mg/Kg	20	10.7		10.1		6		P
Calcium	mg/Kg	20	510		579		13		P
Chromium	mg/Kg	20	170		167		2		P
Cobalt	mg/Kg	20	12.5		12.0		4		P
Copper	mg/Kg	20	141		94.9		39	*	P
Iron	mg/Kg	20	4830		4990		3		P
Lead	mg/Kg	20	56.9		54.9		4		P
Magnesium	mg/Kg	20	753		822		9		P
Manganese	mg/Kg	20	36.7		39.7		8		P
Nickel	mg/Kg	20	59.2		52.9		11		P
Potassium	mg/Kg	20	662		638		4		P
Selenium	mg/Kg	20	92.2		85.8		7		P
Silver	mg/Kg	20	3.43		3.31		4		P
Sodium	mg/Kg	20	213		200		6		P
Thallium	mg/Kg	20	103		96.3		7		P
Vanadium	mg/Kg	20	20.3		19.3		5		P
Zinc	mg/Kg	20	82.1		70.6		15		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Matrix: Solid **Sample ID:** Q2367-05 **Client ID:** EP-5DUP

Percent Solids for Sample: 89.2 **Duplicate ID** Q2367-05DUP **Percent Solids for Spike Sample:** 89.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.015	U	0.015	U			CV

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Matrix: Solid **Sample ID:** Q2367-05MS **Client ID:** EP-5MSD

Percent Solids for Sample: 89.2 **Duplicate ID** Q2367-05MSD **Percent Solids for Spike Sample:** 89.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.28		0.27		3		CV

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168564BS							
Aluminum	mg/Kg	100	103		103	80 - 120	P
Antimony	mg/Kg	40.0	38.9		97	80 - 120	P
Arsenic	mg/Kg	40.0	37.4		94	80 - 120	P
Barium	mg/Kg	10.0	10.0		100	80 - 120	P
Beryllium	mg/Kg	10.0	10.5		105	80 - 120	P
Cadmium	mg/Kg	10.0	9.75		98	80 - 120	P
Calcium	mg/Kg	50.0	50.8	J	102	80 - 120	P
Chromium	mg/Kg	20.0	20.0		100	80 - 120	P
Cobalt	mg/Kg	10.0	9.97		100	80 - 120	P
Copper	mg/Kg	15.0	16.0		107	80 - 120	P
Iron	mg/Kg	150	155		103	80 - 120	P
Lead	mg/Kg	50.0	49.0		98	80 - 120	P
Magnesium	mg/Kg	100	100		100	80 - 120	P
Manganese	mg/Kg	10.0	10.2		102	80 - 120	P
Nickel	mg/Kg	25.0	25.0		100	80 - 120	P
Potassium	mg/Kg	500	403		81	80 - 120	P
Selenium	mg/Kg	100	98.8		99	80 - 120	P
Silver	mg/Kg	3.8	3.72		98	80 - 120	P
Sodium	mg/Kg	150	142		95	80 - 120	P
Thallium	mg/Kg	100	105		105	80 - 120	P
Vanadium	mg/Kg	15.0	14.6		97	80 - 120	P
Zinc	mg/Kg	10.0	10.1		101	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168569BS							
Mercury	mg/Kg	0.25	0.27		107	80 - 120	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

GAV1BL

Lab Name: Chemtech Consulting Group **Contract:** GENV01

Lab Code: CHEM **Lb No.:** lb136236 **Lab Sample ID :** Q2364-02L **SDG No.:** Q2364

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	3370		3750		11		P
Antimony	3.06		2.83	J	8		P
Arsenic	0.40	J	5.18	U	100.0		P
Barium	14.2		15.7	J	10		P
Beryllium	0.19	J	0.22	J	14		P
Cadmium	0.55		0.50	J	10		P
Calcium	951		1050		10		P
Chromium	152		166		9		P
Cobalt	2.74		2.80	J	2		P
Copper	85.4		95.0		11		P
Iron	5660		6200		10		P
Lead	16.0		15.8		2		P
Magnesium	788		869		10		P
Manganese	40.5		44.7		11		P
Nickel	30.4		29.5		3		P
Potassium	241		217	J	10		P
Selenium	1.63		1.53	J	6		P
Silver	0.13	J	2.59	U	100.0		P
Sodium	111		123	J	11		P
Thallium	2.07	U	10.3	U			P
Vanadium	7.19		8.33	J	16		P
Zinc	82.1		89.2		9		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

EP-5L

Lab Name: Chemtech Consulting Group **Contract:** GENV01

Lab Code: CHEM **Lb No.:** lb136216 **Lab Sample ID :** Q2367-05L **SDG No.:** Q2364

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	0.015	U	0.074	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Case No.:** Q2364 **SAS No.:** Q2364

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Method:**

Case No.: Q2364 **SAS No.:** Q2364

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168564**						
PB168564BL	PB168564BL	MB	SOLID	06/20/2025	2.00	100.0	100.00
PB168564BS	PB168564BS	LCS	SOLID	06/20/2025	2.00	100.0	100.00
Q2364-01	GAV1A	SAM	SOLID	06/20/2025	2.41	100.0	79.80
Q2364-02	GAV1B	SAM	SOLID	06/20/2025	2.26	100.0	85.50
Q2364-02DUP	GAV1BDUP	DUP	SOLID	06/20/2025	2.44	100.0	85.50
Q2364-02MS	GAV1BMS	MS	SOLID	06/20/2025	2.28	100.0	85.50
Q2364-02MSD	GAV1BMSD	MSD	SOLID	06/20/2025	2.40	100.0	85.50
Q2364-03	GAV2A	SAM	SOLID	06/20/2025	2.13	100.0	82.30
Q2364-04	GAV2B	SAM	SOLID	06/20/2025	2.20	100.0	76.60

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2364

Contract: GENV01 **Lab Code:** CHEM **Method:**

Case No.: Q2364 **SAS No.:** Q2364

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168569**						
PB168569BL	PB168569BL	MB	SOLID	06/20/2025	0.53	35.0	100.00
PB168569BS	PB168569BS	LCS	SOLID	06/20/2025	0.55	35.0	100.00
Q2364-01	GAV1A	SAM	SOLID	06/20/2025	0.55	35.0	79.80
Q2364-02	GAV1B	SAM	SOLID	06/20/2025	0.53	35.0	85.50
Q2364-03	GAV2A	SAM	SOLID	06/20/2025	0.54	35.0	82.30
Q2364-04	GAV2B	SAM	SOLID	06/20/2025	0.51	35.0	76.60
Q2367-05DUP	EP-5DUP	DUP	SOLID	06/20/2025	0.52	35.0	89.20
Q2367-05MS	EP-5MS	MS	SOLID	06/20/2025	0.57	35.0	89.20
Q2367-05MSD	EP-5MSD	MSD	SOLID	06/20/2025	0.54	35.0	89.20

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2364 **Sas no.:** Q2364 **Sdg no.:** Q2364

Instrument id number: **Method:** **Run number:** LB136216

Start date: 06/20/2025 **End date:** 06/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1331	HG
S0.2	S0.2	1	1337	HG
S2.5	S2.5	1	1339	HG
S5	S5	1	1341	HG
S7.5	S7.5	1	1347	HG
S10	S10	1	1349	HG
ICV47	ICV47	1	1352	HG
ICB47	ICB47	1	1354	HG
CCV69	CCV69	1	1356	HG
CCB69	CCB69	1	1359	HG
CRA	CRA	1	1401	HG
PB168569BL	PB168569BL	1	1408	HG
PB168569BS	PB168569BS	1	1410	HG
Q2364-01	GAV1A	1	1417	HG
Q2364-02	GAV1B	1	1420	HG
Q2364-03	GAV2A	1	1422	HG
CCV70	CCV70	1	1424	HG
CCB70	CCB70	1	1427	HG
Q2367-05DUP	EP-5DUP	1	1436	HG
Q2367-05MS	EP-5MS	1	1439	HG
Q2367-05MSD	EP-5MSD	1	1441	HG
Q2367-05L	EP-5L	5	1443	HG
Q2364-04	GAV2B	5	1448	HG
CCV71	CCV71	1	1450	HG
CCB71	CCB71	1	1453	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2364 **Sas no.:** Q2364 **Sdg no.:** Q2364

Instrument id number: **Method:** **Run number:** LB136236

Start date: 06/23/2025 **End date:** 06/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1153	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	1158	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	1202	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	1207	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	1211	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	1215	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	1234	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	1309	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	1319	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	1323	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	1334	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	1343	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	1356	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	1405	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	1454	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	1458	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168564BL	PB168564BL	1	1511	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168564BS	PB168564BS	1	1516	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	1547	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	1552	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-01	GAV1A	1	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02	GAV1B	1	1637	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	1651	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02DUP	GAV1BDUP	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02L	GAV1BL	5	1706	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02MS	GAV1BMS	1	1710	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02MSD	GAV1BMSD	1	1714	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-02A	GAV1BA	1	1719	Ba,Mn,Na,Sb
Q2364-03	GAV2A	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-04	GAV2B	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V
CCV05	CCV05	1	1745	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	1749	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	1839	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	1843	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	1924	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	1928	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: CHEM **Case no.:** Q2364 **Sas no.:** Q2364 **Sdg no.:** Q2364

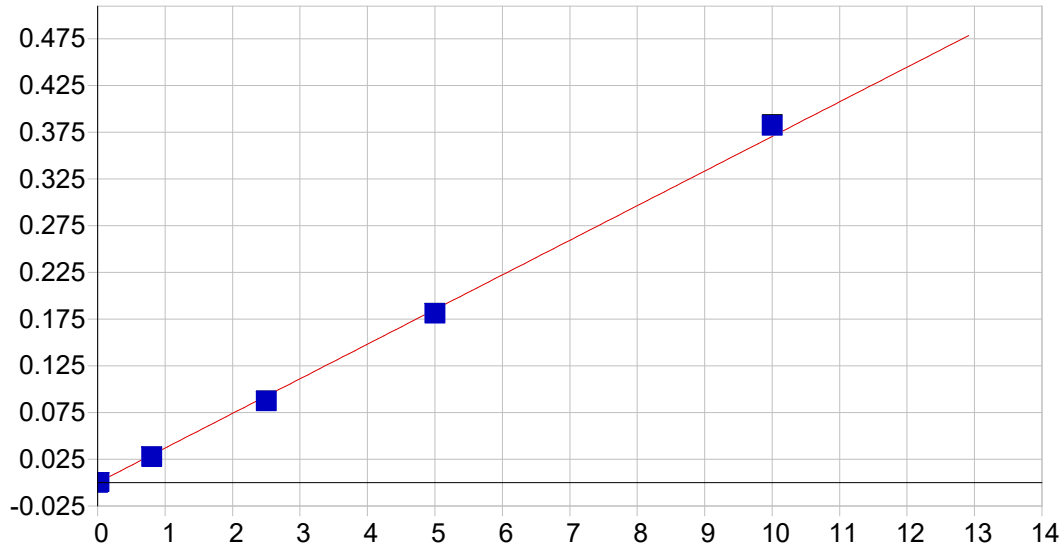
Instrument id number: **Method:** **Run number:** LB136273

Start date: 06/25/2025 **End date:** 06/25/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1223	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	1232	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	1236	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	1308	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	1320	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	1453	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	1524	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	1529	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	1551	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	1604	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	1609	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	1657	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	1709	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2364-04	GAV2B	10	1715	Zn
CCV03	CCV03	1	1800	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	1807	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	1855	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	1859	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	1952	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	1957	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	2046	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	2050	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	2112	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	2116	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:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



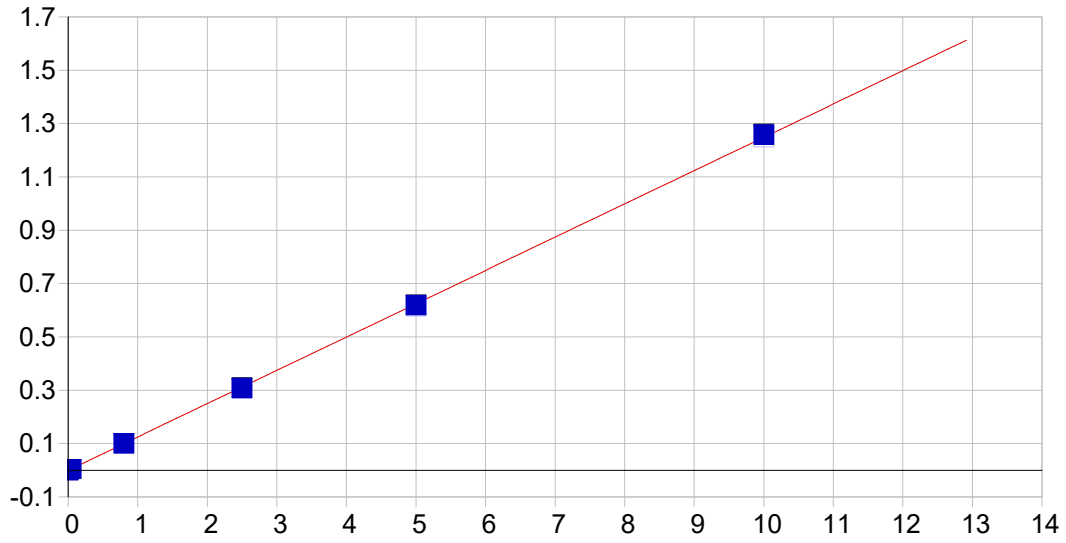
As 189.042 {479}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000031	Re-Slope:	1.000000
A1 (Gain):	0.037058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999298	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.003281		
Predicted MQL:	0.010935		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.02000	.01589	-.004	-20.5	.00056	.000	1
S2	.80000	.74513	-.055	-6.86	.02758	.000	1
S3	2.5000	2.3539	-.146	-5.85	.08718	.000	1
S4	5.0000	4.8878	-.112	-2.24	.18107	.000	1
S5	10.000	10.317	.317	3.17	.38225	.001	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



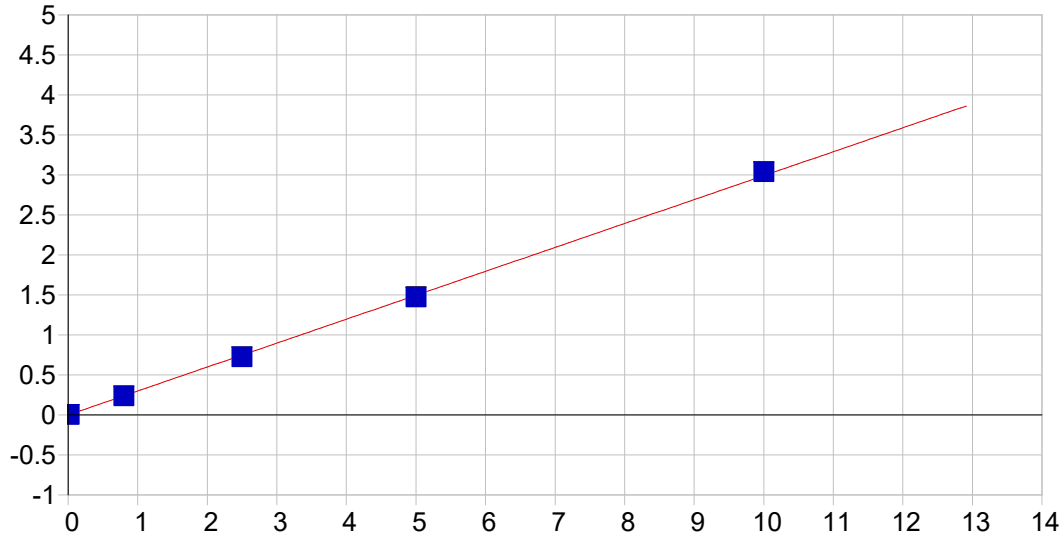
Tl 190.856 {477}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000052	Re-Slope:	1.000000
A1 (Gain):	0.124857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.001683		
Predicted MQL:	0.005610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00005	.000	1
S1	.04000	.03866	-.001	-3.36	.00466	.000	1
S2	.80000	.80437	.004	.546	.09960	.000	1
S3	2.5000	2.4654	-.035	-1.39	.30533	.002	1
S4	5.0000	4.9523	-.048	-.953	.61340	.002	1
S5	10.000	10.079	.079	.793	1.2487	.002	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



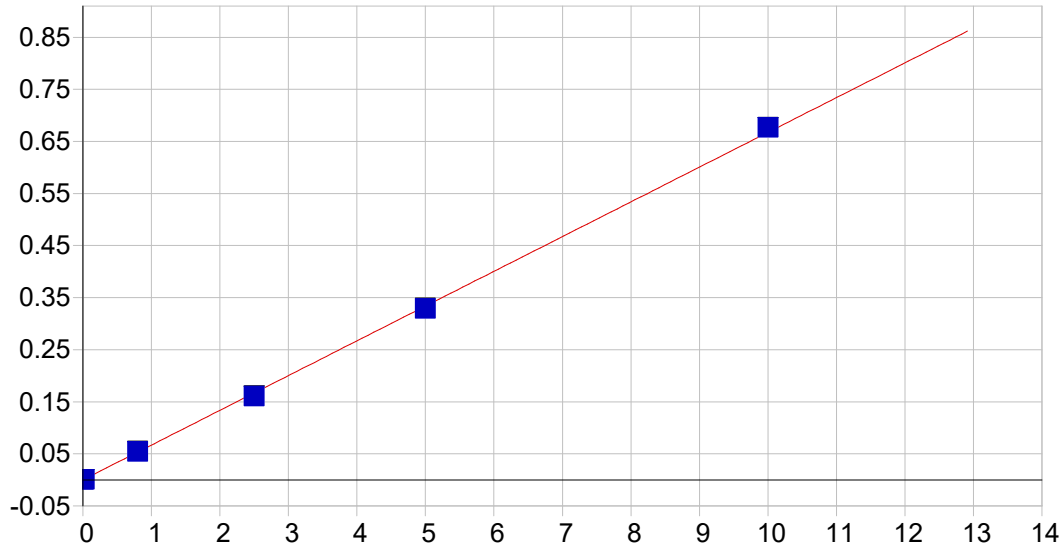
Pb 220.353 {453}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	0.299052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999830	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.001414		
Predicted MQL:	0.004712		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.01200	.01108	-.001	-7.67	.00334	.000	1
S2	.80000	.78872	-.011	-1.41	.23576	.001	1
S3	2.5000	2.4238	-.076	-3.05	.72428	.001	1
S4	5.0000	4.9270	-.073	-1.46	1.4722	.002	1
S5	10.000	10.161	.161	1.61	3.0362	.002	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



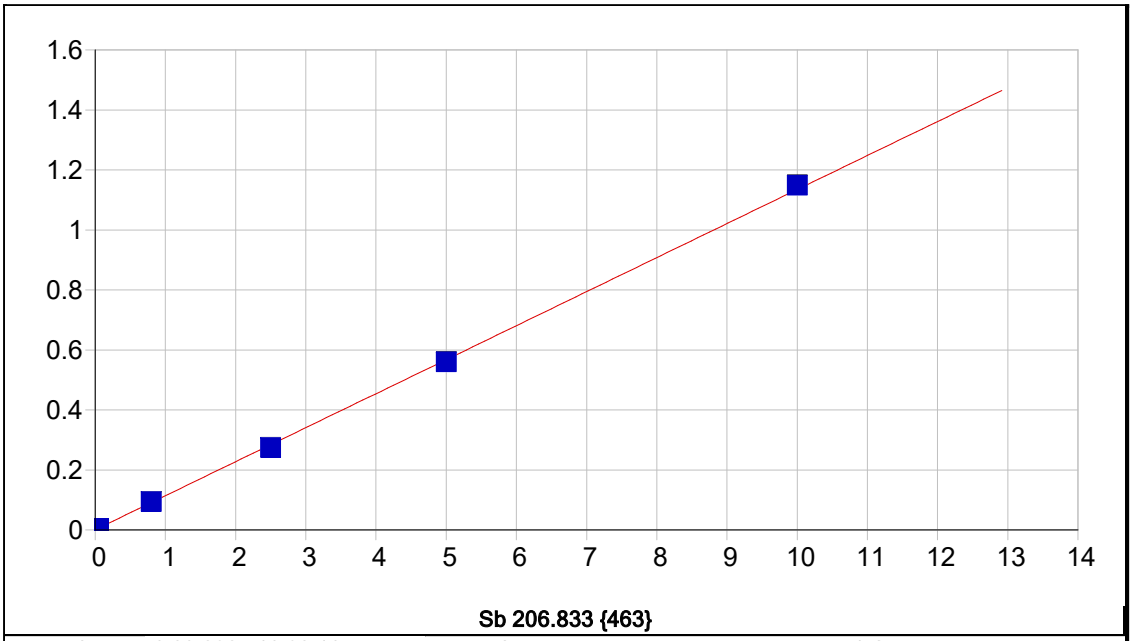
Se 196.090 {472}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.066733	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.003369		
Predicted MQL:	0.011230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.02000	.01549	-.005	-22.5	.00112	.000	1
S2	.80000	.81741	.017	2.18	.05461	.000	1
S3	2.5000	2.4114	-.089	-3.54	.16094	.000	1
S4	5.0000	4.9327	-.067	-1.35	.32913	.000	1
S5	10.000	10.143	.143	1.43	.67670	.000	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



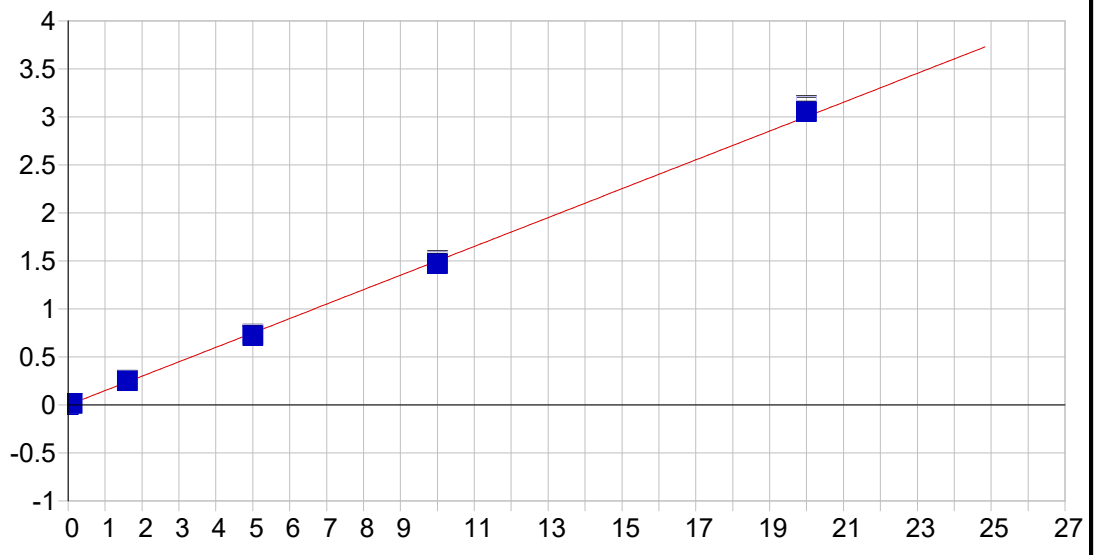
Sb 206.833 {463}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000487	Re-Slope:	1.000000
A1 (Gain):	0.113395	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999830	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.002598		
Predicted MQL:	0.008661		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00049	.000	1
S1	.05000	.05093	.001	1.86	.00620	.000	1
S2	.80000	.82293	.023	2.87	.09367	.000	1
S3	2.5000	2.4156	-.084	-3.37	.27398	.000	1
S4	5.0000	4.9298	-.070	-1.40	.55864	.001	1
S5	10.000	10.131	.131	1.31	1.1475	.000	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



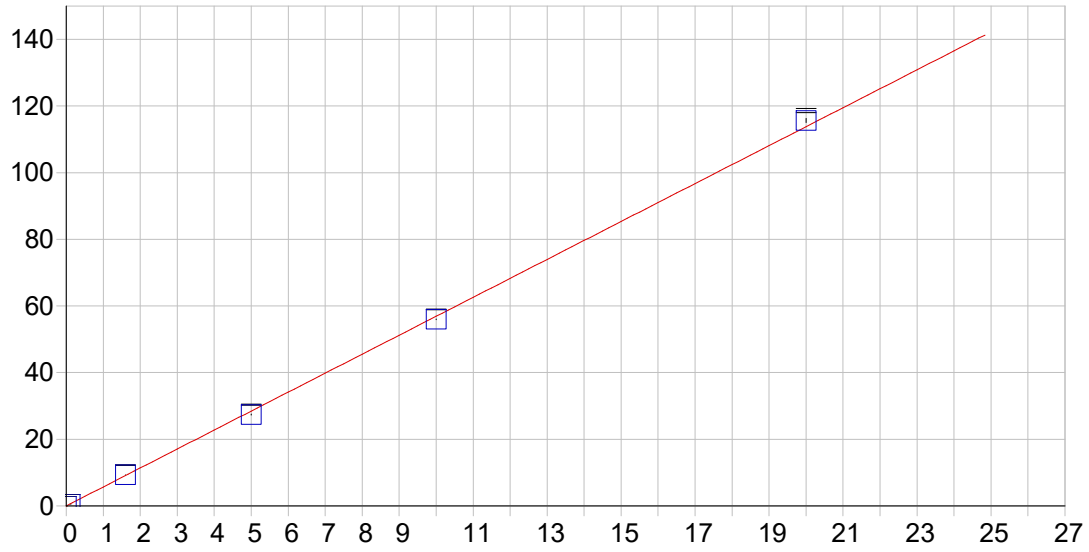
Al 396.152 { 85}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001416	Re-Slope:	1.000000
A1 (Gain):	0.150212	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999734	Status:	OK.
Std Error of Est:	0.000262		
Predicted MDL:	0.021169		
Predicted MQL:	0.070563		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00142	.003	1
S1	.10000	.10339	.003	3.39	.01523	.002	1
S2	1.6000	1.6628	.063	3.93	.25283	.003	1
S3	5.0000	4.8029	-.197	-3.94	.73402	.002	1
S4	10.000	9.7940	-.206	-2.06	1.4977	.005	1
S5	20.000	20.337	.337	1.68	3.1093	.006	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



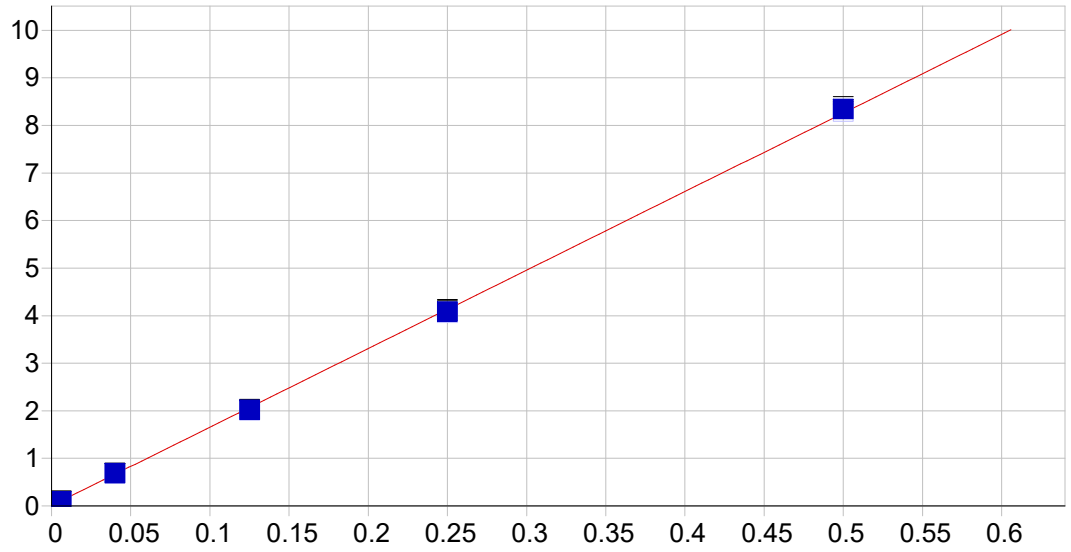
Ba 493.409 { 68}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010101	Re-Slope:	1.000000
A1 (Gain):	5.689860	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999786	Status:	OK.
Std Error of Est:	0.008730		
Predicted MDL:	0.000884		
Predicted MQL:	0.002947		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01014	.004	1
S1	.10000	.09581	-.004	-4.19	.55526	.003	1
S2	1.6000	1.6291	.029	1.82	9.2792	.026	1
S3	5.0000	4.8131	-.187	-3.74	27.396	.119	1
S4	10.000	9.8357	-.164	-1.64	55.974	.095	1
S5	20.000	20.326	.326	1.63	115.66	.658	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



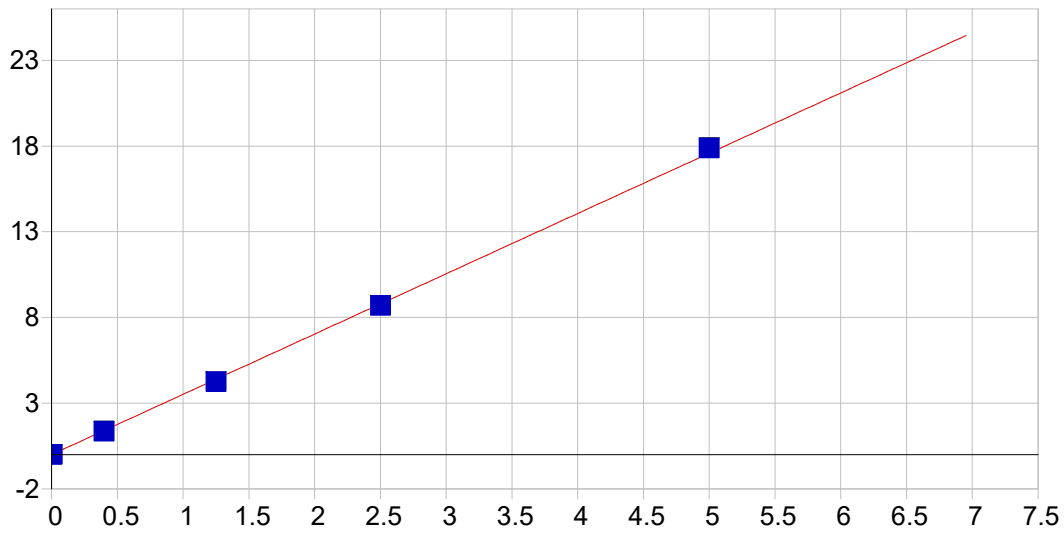
Be 234.861 {144}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005095	Re-Slope:	1.000000
A1 (Gain):	16.511263	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.000724		
Predicted MDL:	0.000112		
Predicted MQL:	0.000374		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00510	.002	1
S1	.00600	.00577	-.000	-3.84	.09931	.002	1
S2	.04000	.04121	.001	3.03	.68115	.002	1
S3	.12500	.12187	-.003	-2.51	2.0035	.012	1
S4	.25000	.24698	-.003	-1.21	4.0556	.051	1
S5	.50000	.50517	.005	1.03	8.2910	.049	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



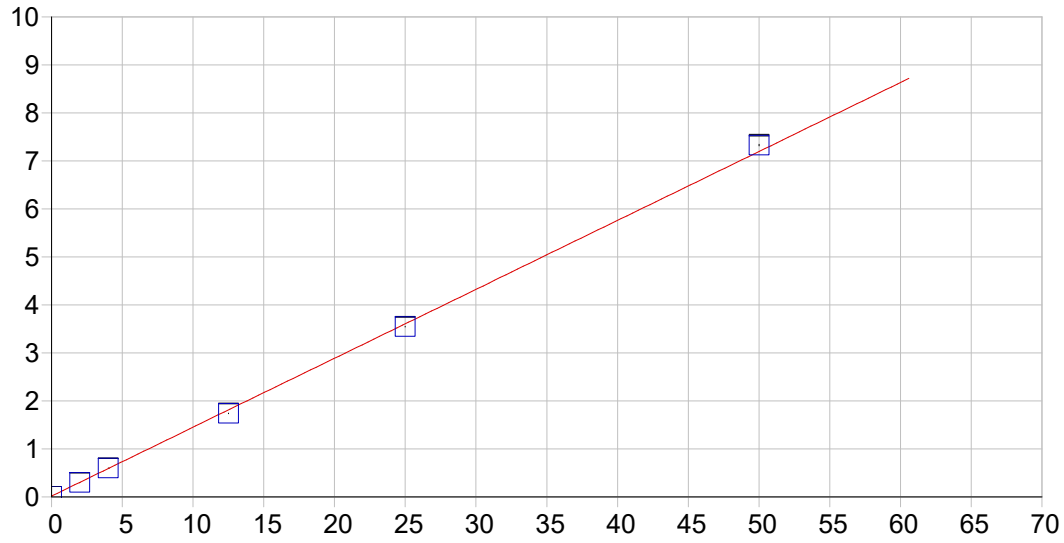
Cd 214.438 {457}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000147	Re-Slope:	1.000000
A1 (Gain):	3.516685	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000628		
Predicted MDL:	0.000076		
Predicted MQL:	0.000254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.00600	.00542	-.001	-9.60	.01924	.000	1
S2	.40000	.38690	-.013	-3.27	1.3609	.004	1
S3	1.2500	1.2088	-.041	-3.30	4.2515	.004	1
S4	2.5000	2.4718	-.028	-1.13	8.6932	.010	1
S5	5.0000	5.0831	.083	1.66	17.877	.028	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



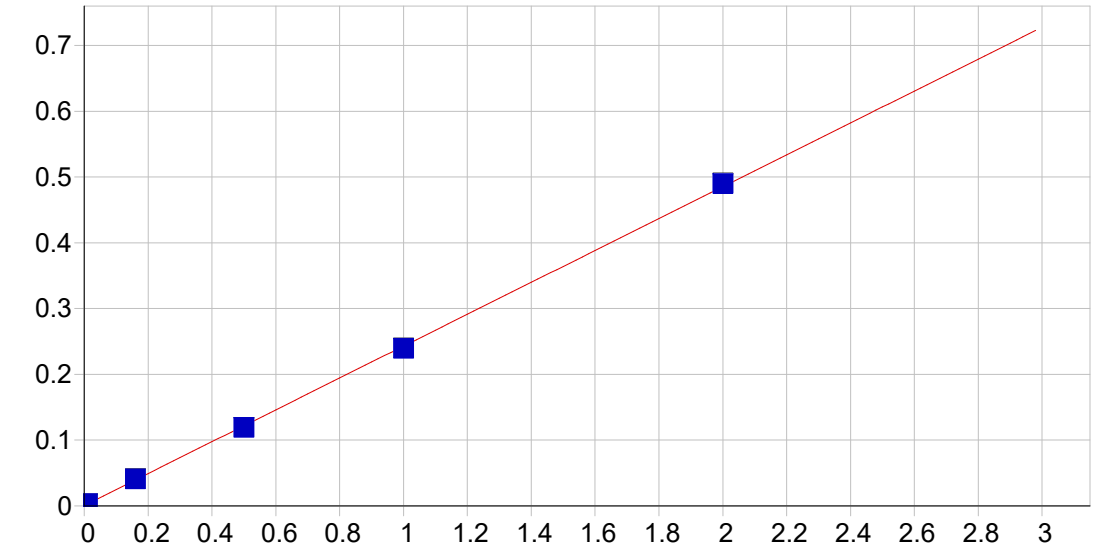
Ca 373.690 { 90}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016948	Re-Slope:	1.000000
A1 (Gain):	0.143580	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999753	Status:	OK.
Std Error of Est:	0.001689		
Predicted MDL:	0.018349		
Predicted MQL:	0.061162		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.01696	.001	1
S1	2.0000	1.9566	-.043	-2.17	.29788	.002	1
S2	4.0000	4.0458	.046	1.14	.59784	.001	1
S3	12.500	11.997	-.503	-4.02	1.7395	.005	1
S4	25.000	24.573	-.427	-1.71	3.5451	.006	1
S5	50.000	50.928	.928	1.86	7.3291	.016	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



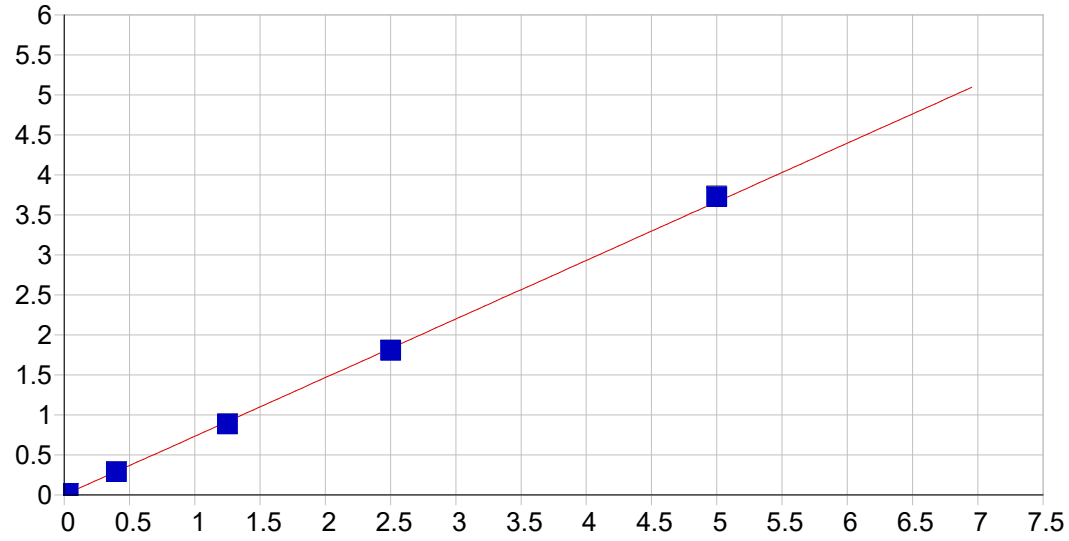
Cr 267.716 {126}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000637	Re-Slope:	1.000000
A1 (Gain):	0.242342	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.000976		
Predicted MQL:	0.003254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00064	.000	1
S1	.01000	.01115	.001	11.5	.00334	.000	1
S2	.16000	.16596	.006	3.73	.04089	.000	1
S3	.50000	.48838	-.012	-2.32	.11910	.000	1
S4	1.0000	.98549	-.015	-1.45	.23968	.000	1
S5	2.0000	2.0190	.019	.951	.49037	.001	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



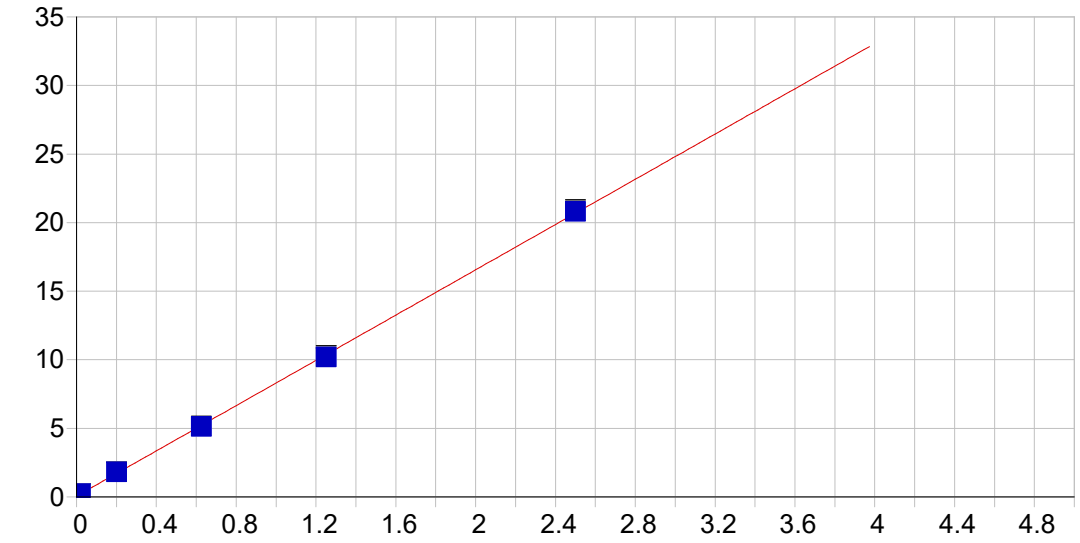
Co 228.616 {448}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000259	Re-Slope:	1.000000
A1 (Gain):	0.732699	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999799	Status:	OK.
Std Error of Est:	0.000299		
Predicted MDL:	0.000370		
Predicted MQL:	0.001234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00026	.000	1
S1	.03000	.02873	-.001	-4.24	.02118	.000	1
S2	.40000	.39183	-.008	-2.04	.28771	.000	1
S3	1.2500	1.2081	-.042	-3.35	.88658	.000	1
S4	2.5000	2.4636	-.036	-1.46	1.8076	.001	1
S5	5.0000	5.0877	.088	1.75	3.7325	.005	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



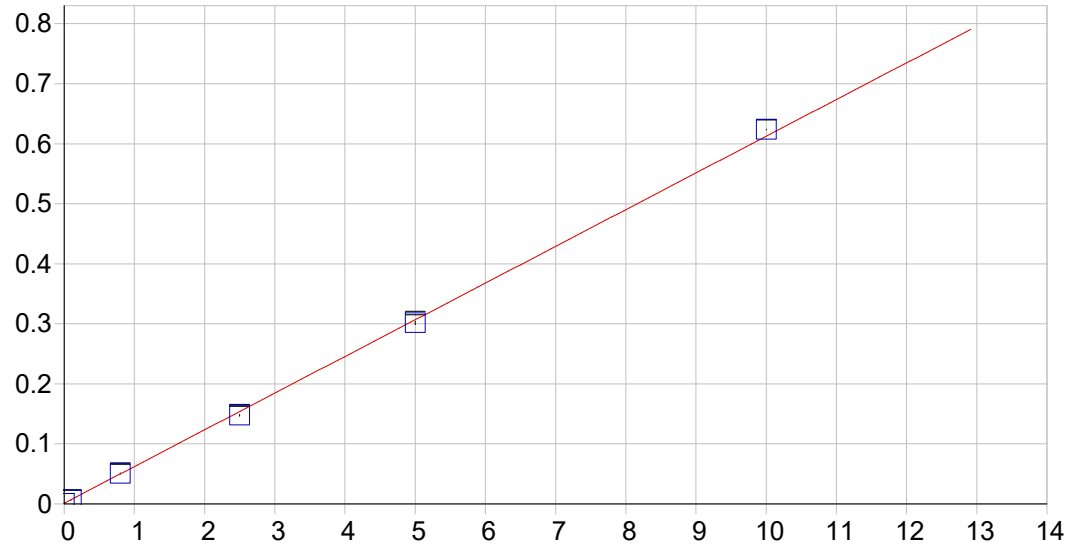
Cu 324.754 {104}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.056169	Re-Slope:	1.000000
A1 (Gain):	8.251055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999843	Status:	OK.
Std Error of Est:	0.001717		
Predicted MDL:	0.000529		
Predicted MQL:	0.001763		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05615	.001	1
S1	.02000	.02109	.001	5.45	.23025	.005	1
S2	.20000	.21253	.013	6.26	1.8105	.002	1
S3	.62500	.61497	-.010	-1.60	5.1328	.022	1
S4	1.2500	1.2297	-.020	-1.62	10.208	.079	1
S5	2.5000	2.5167	.017	.668	20.832	.101	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



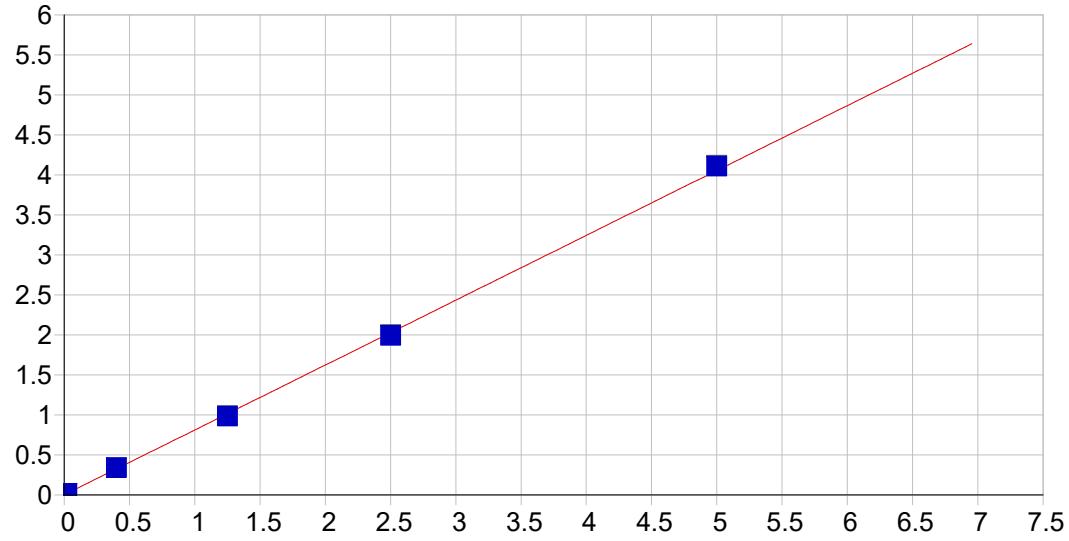
Fe 259.837 {130}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001117	Re-Slope:	1.000000
A1 (Gain):	0.061134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999726	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.014382		
Predicted MQL:	0.047940		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00112	.000	1
S1	.10000	.09112	-.009	-8.88	.00669	.000	1
S2	.80000	.81057	.011	1.32	.05067	.001	1
S3	2.5000	2.3977	-.102	-4.09	.14770	.002	1
S4	5.0000	4.9140	-.086	-1.72	.30153	.003	1
S5	10.000	10.187	.187	1.87	.62387	.001	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



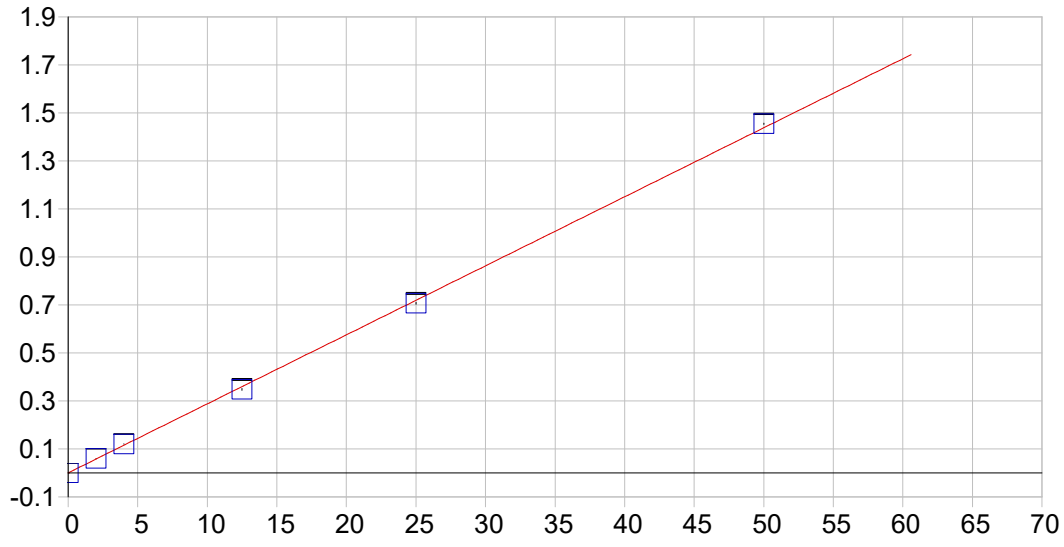
Mn 257.610 {131}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001228	Re-Slope:	1.000000
A1 (Gain):	0.810757	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.000263		
Predicted MDL:	0.001003		
Predicted MQL:	0.003345		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00123	.001	1
S1	.02000	.02093	.001	4.67	.01823	.000	1
S2	.40000	.41611	.016	4.03	.33888	.002	1
S3	1.2500	1.2104	-.040	-3.17	.98348	.001	1
S4	2.5000	2.4577	-.042	-1.69	1.9956	.003	1
S5	5.0000	5.0649	.065	1.30	4.1113	.007	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



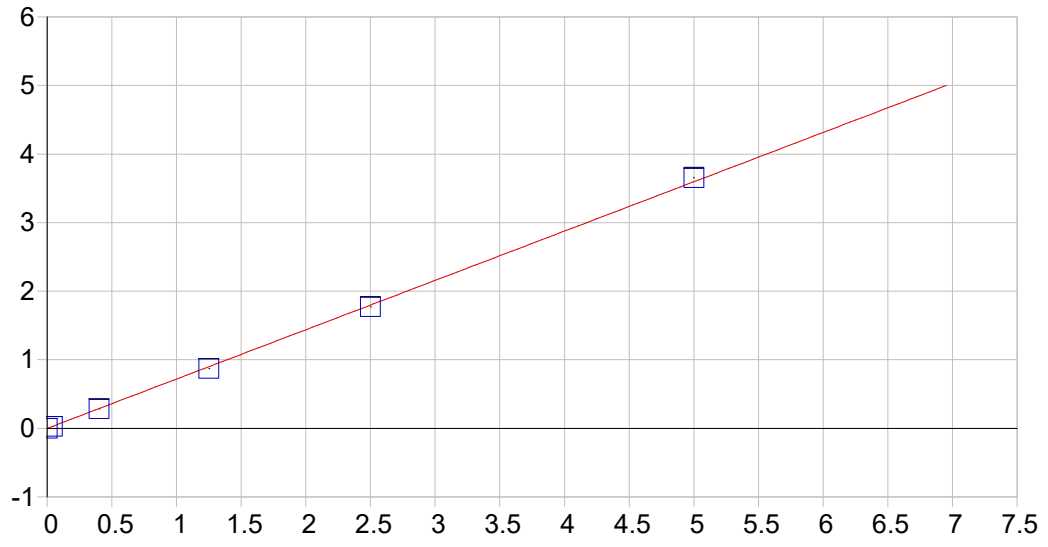
Mg 279.079 {121}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000252	Re-Slope:	1.000000
A1 (Gain):	0.028755	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999798	Status:	OK.
Std Error of Est:	0.000306		
Predicted MDL:	0.038583		
Predicted MQL:	0.128610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00009	-.000	.000	.00025	.000	1
S1	2.0000	2.0729	.073	3.64	.05986	.001	1
S2	4.0000	4.1811	.181	4.53	.12048	.001	1
S3	12.500	12.097	-.403	-3.22	.34810	.004	1
S4	25.000	24.574	-.426	-1.70	.70689	.004	1
S5	50.000	50.575	.575	1.15	1.4545	.003	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



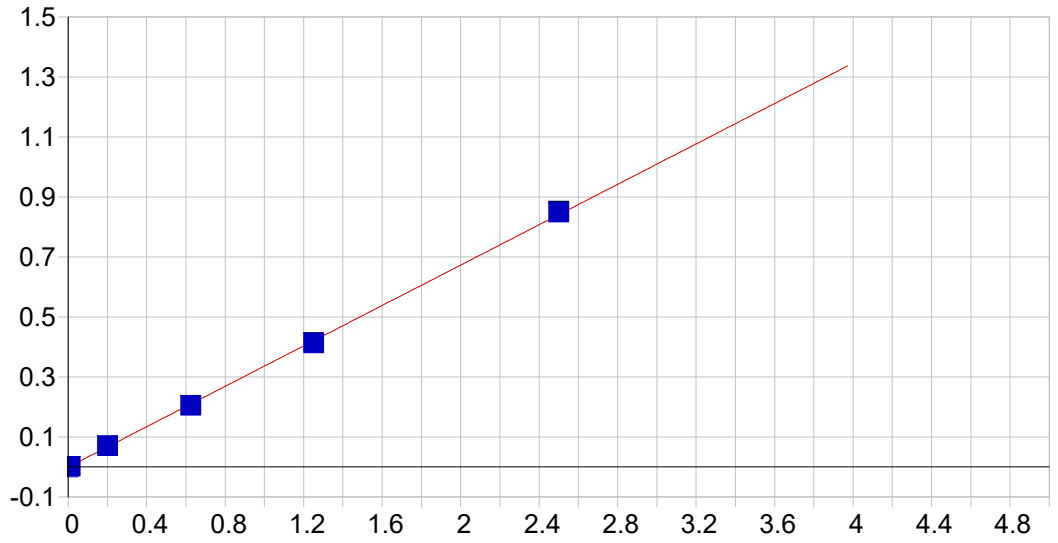
Ni 231.604 {446}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000042	Re-Slope:	1.000000
A1 (Gain):	0.719118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999834	Status:	OK.
Std Error of Est:	0.000308		
Predicted MDL:	0.000447		
Predicted MQL:	0.001490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.04000	.03842	-.002	-3.94	.02759	.001	1
S2	.40000	.39503	-.005	-1.24	.28403	.000	1
S3	1.2500	1.2129	-.037	-2.97	.87220	.001	1
S4	2.5000	2.4633	-.037	-1.47	1.7713	.001	1
S5	5.0000	5.0803	.080	1.61	3.6533	.007	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



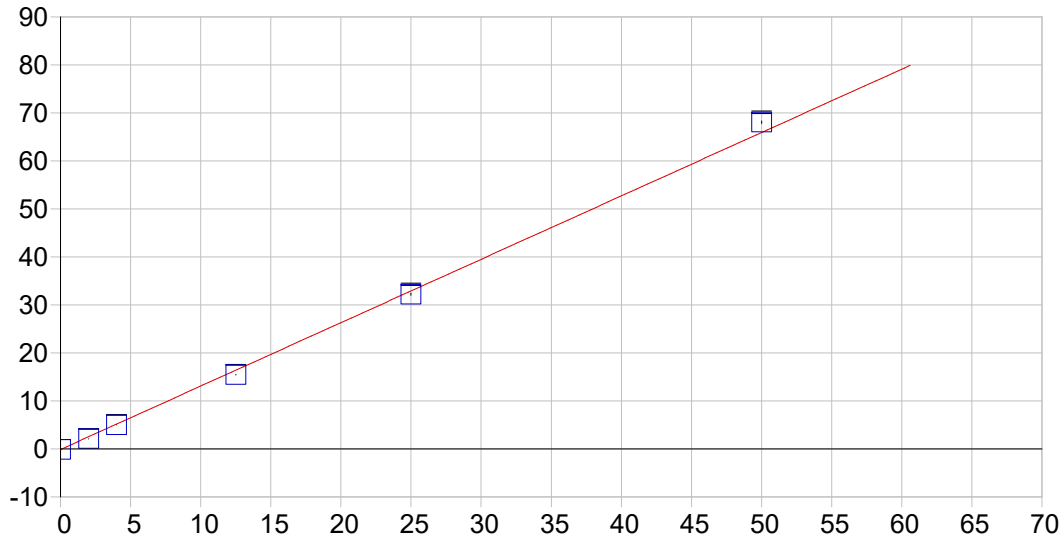
Ag 328.068 {103}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000646	Re-Slope:	1.000000
A1 (Gain):	0.336634	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	0.000901		
Predicted MQL:	0.003003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00065	.000	1
S1	.01000	.01000	-.000	-.048	.00270	.000	1
S2	.20000	.21103	.011	5.52	.07023	.000	1
S3	.62500	.61002	-.015	-2.40	.20418	.001	1
S4	1.2500	1.2279	-.022	-1.77	.41165	.001	1
S5	2.5000	2.5261	.026	1.04	.84763	.003	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



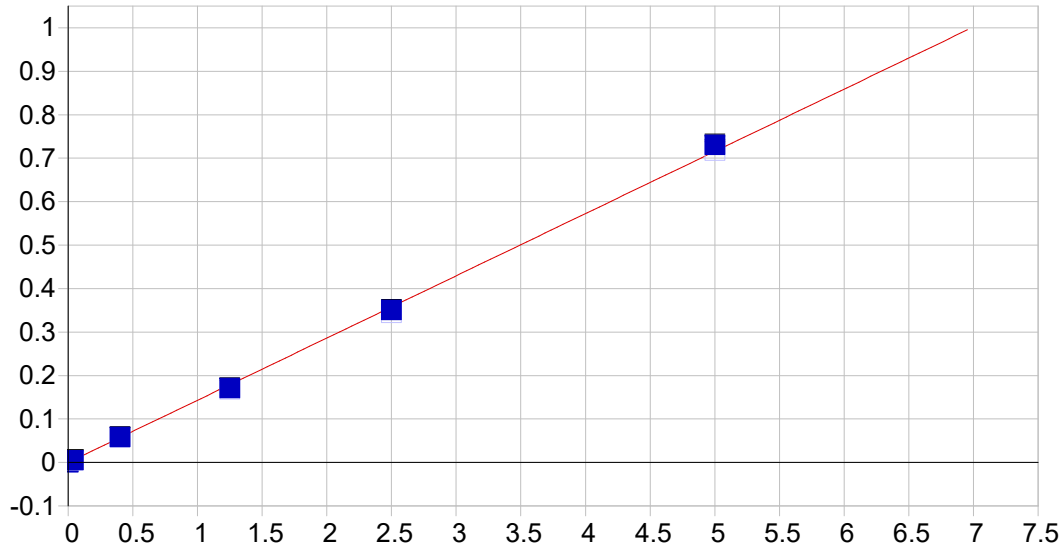
Na 818.326 { 41}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.113584	Re-Slope:	1.000000
A1 (Gain):	1.320550	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999169	Status:	OK.
Std Error of Est:	0.028491		
Predicted MDL:	0.010574		
Predicted MQL:	0.035245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00045	.000	.000	-.11299	.005	1
S1	2.0000	1.6974	-.303	-15.1	2.1280	.030	1
S2	4.0000	3.8906	-.109	-2.74	5.0241	.020	1
S3	12.500	11.780	-.720	-5.76	15.443	.059	1
S4	25.000	24.482	-.518	-2.07	32.217	.226	1
S5	50.000	51.649	1.65	3.30	68.092	.275	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



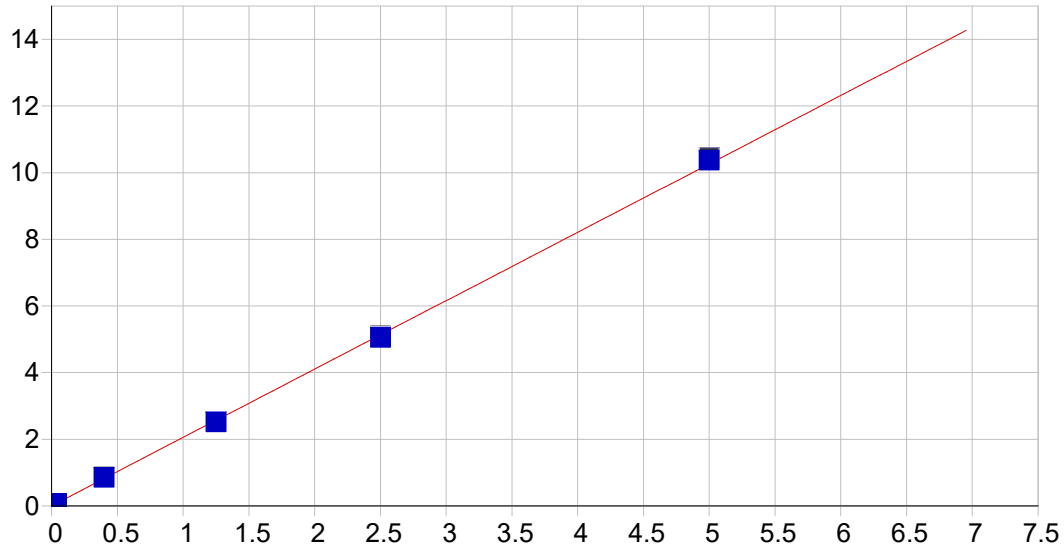
V 292.402 {115}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000055	Re-Slope:	1.000000
A1 (Gain):	0.143146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999650	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	0.007935		
Predicted MQL:	0.026450		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00005	.001	1
S1	.04000	.03608	-.004	-9.79	.00486	.001	1
S2	.40000	.40902	.009	2.25	.05747	.001	1
S3	1.2500	1.1945	-.056	-4.44	.16773	.001	1
S4	2.5000	2.4484	-.052	-2.06	.34404	.002	1
S5	5.0000	5.1019	.102	2.04	.71749	.002	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



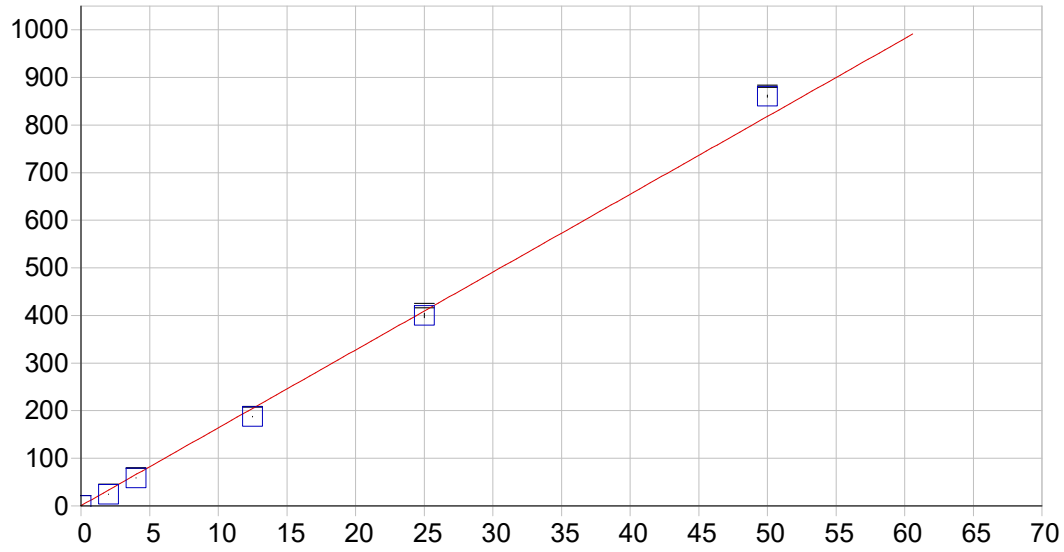
Zn 213.856 {158}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002780	Re-Slope:	1.000000
A1 (Gain):	2.052051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000742		
Predicted MDL:	0.000420		
Predicted MQL:	0.001400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00278	.000	1
S1	.04000	.03938	-.001	-1.55	.08419	.000	1
S2	.40000	.41296	.013	3.24	.85616	.006	1
S3	1.2500	1.2228	-.027	-2.18	2.5307	.001	1
S4	2.5000	2.4616	-.038	-1.54	5.0914	.007	1
S5	5.0000	5.0533	.053	1.07	10.447	.014	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



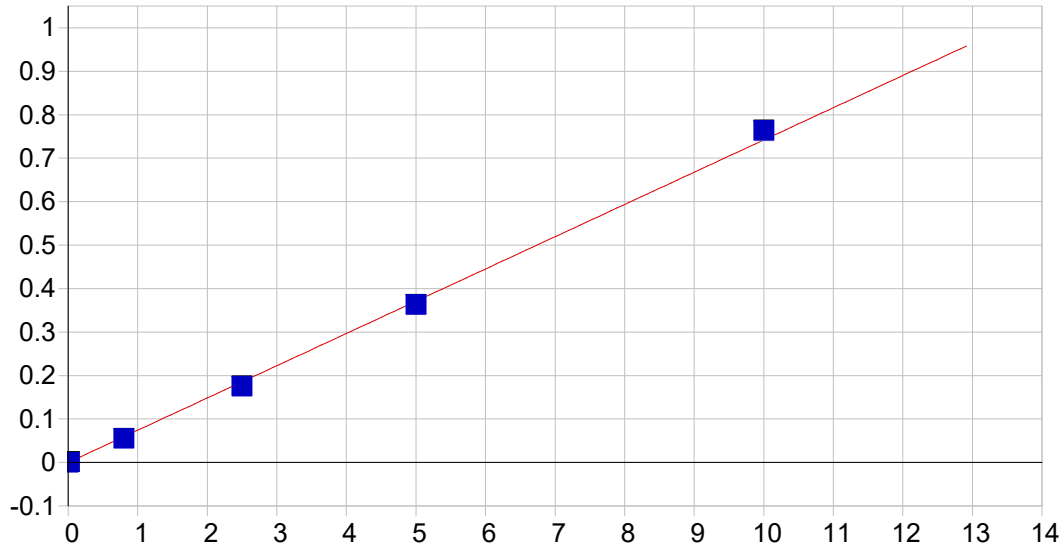
K 769.896 { 44}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.439896	Re-Slope:	1.000000
A1 (Gain):	16.353365	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997704	Status:	OK.
Std Error of Est:	0.587296		
Predicted MDL:	0.000798		
Predicted MQL:	0.002659		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00087	.001	.000	.45406	.015	1
S1	2.0000	1.4655	-.534	-26.7	24.406	.311	1
S2	4.0000	3.5592	-.441	-11.0	58.644	.257	1
S3	12.500	11.440	-1.06	-8.48	187.53	.707	1
S4	25.000	24.427	-.573	-2.29	399.91	4.51	1
S5	50.000	52.607	2.61	5.21	860.75	2.45	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



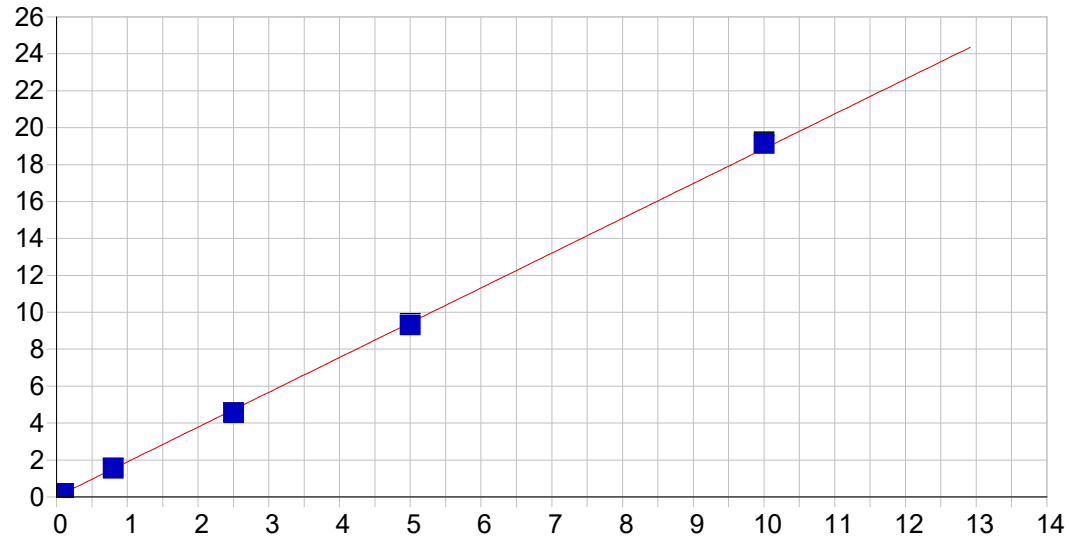
P 177.495 {490}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000044	Re-Slope:	1.000000
A1 (Gain):	0.074197	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999394	Status:	OK.
Std Error of Est:	0.000060		
Predicted MDL:	0.001962		
Predicted MQL:	0.006539		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00004	.000	1
S1	.02000	.01698	-.003	-15.1	.00120	.000	1
S2	.80000	.74653	-.053	-6.68	.05521	.000	1
S3	2.5000	2.3640	-.136	-5.44	.17493	.000	1
S4	5.0000	4.8987	-.101	-2.03	.36257	.000	1
S5	10.000	10.294	.294	2.94	.76200	.001	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



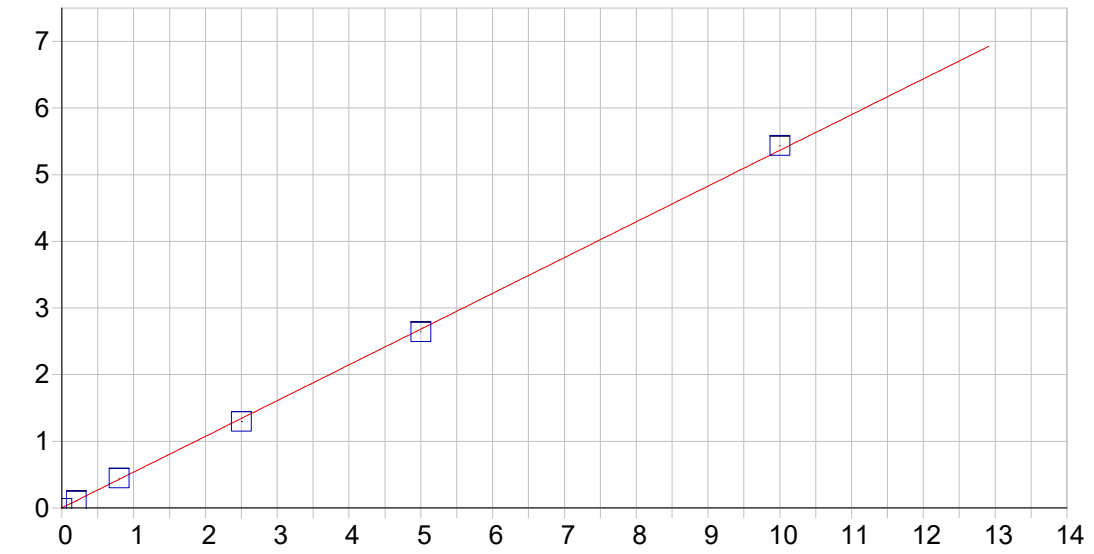
B 249.678 {135}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010642	Re-Slope:	1.000000
A1 (Gain):	1.884951	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.001926		
Predicted MDL:	0.001227		
Predicted MQL:	0.004091		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.01066	.003	1
S1	.10000	.09333	-.007	-6.67	.18635	.003	1
S2	.80000	.81173	.012	1.47	1.5396	.012	1
S3	2.5000	2.4089	-.091	-3.65	4.5476	.023	1
S4	5.0000	4.9369	-.063	-1.26	9.3092	.084	1
S5	10.000	10.149	.149	1.49	19.127	.089	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



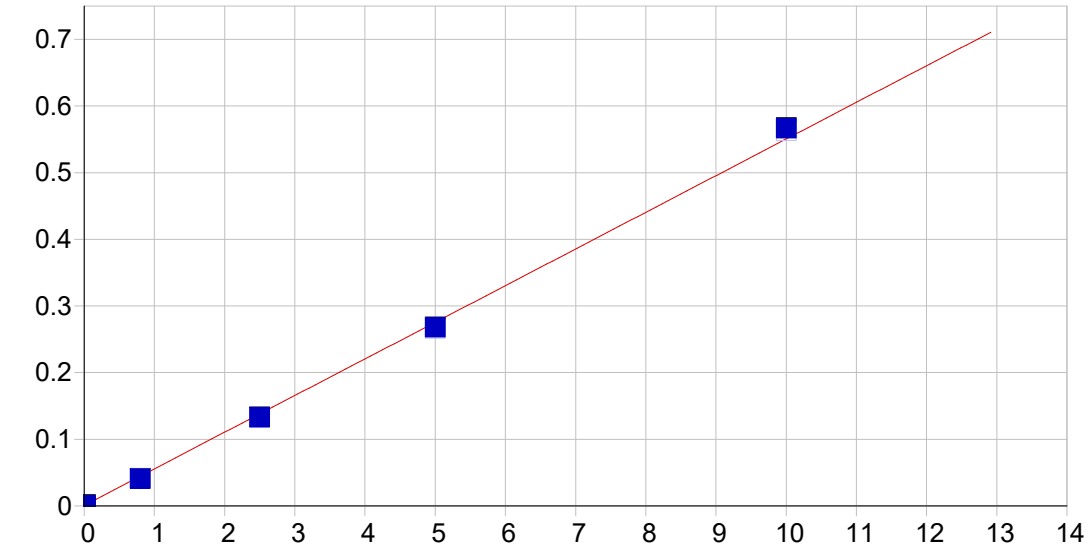
Mo 202.030 {467}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000429	Re-Slope:	1.000000
A1 (Gain):	0.536455	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000752		
Predicted MDL:	0.000457		
Predicted MQL:	0.001524		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00043	.000	1
S1	.20000	.19648	-.004	-1.76	.10583	.001	1
S2	.80000	.82760	.028	3.45	.44440	.002	1
S3	2.5000	2.4192	-.081	-3.23	1.2982	.000	1
S4	5.0000	4.9238	-.076	-1.52	2.6418	.003	1
S5	10.000	10.133	.133	1.33	5.4363	.003	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



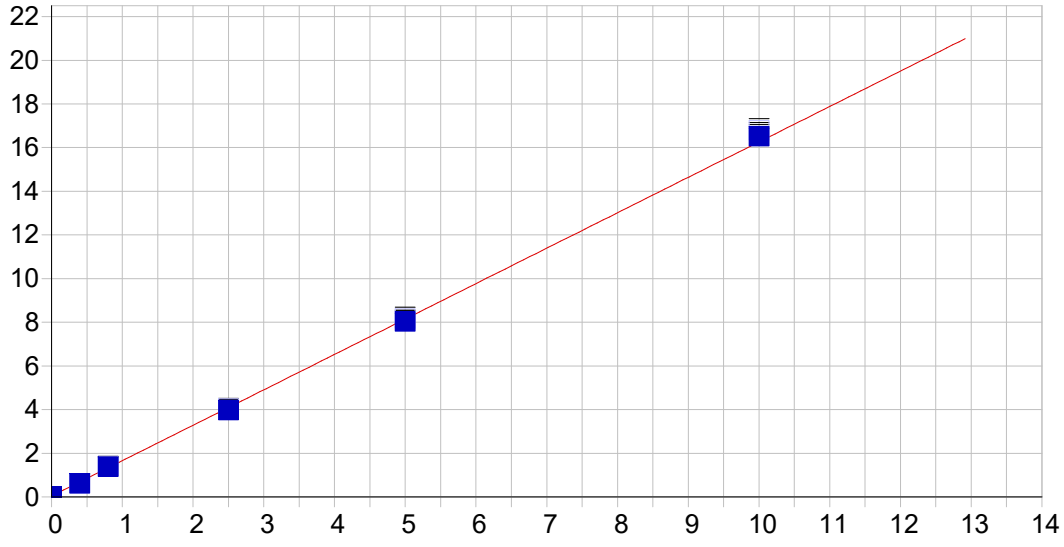
S 182.034 {485}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000586	Re-Slope:	1.000000
A1 (Gain):	0.054991	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999419	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.002735		
Predicted MQL:	0.009117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00059	.000	1
S1	.02000	.01754	-.002	-12.3	.00147	.000	1
S2	.80000	.73577	-.064	-8.03	.04075	.000	1
S3	2.5000	2.4102	-.090	-3.59	.13221	.000	1
S4	5.0000	4.8633	-.137	-2.73	.26619	.000	1
S5	10.000	10.293	.293	2.93	.56295	.001	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



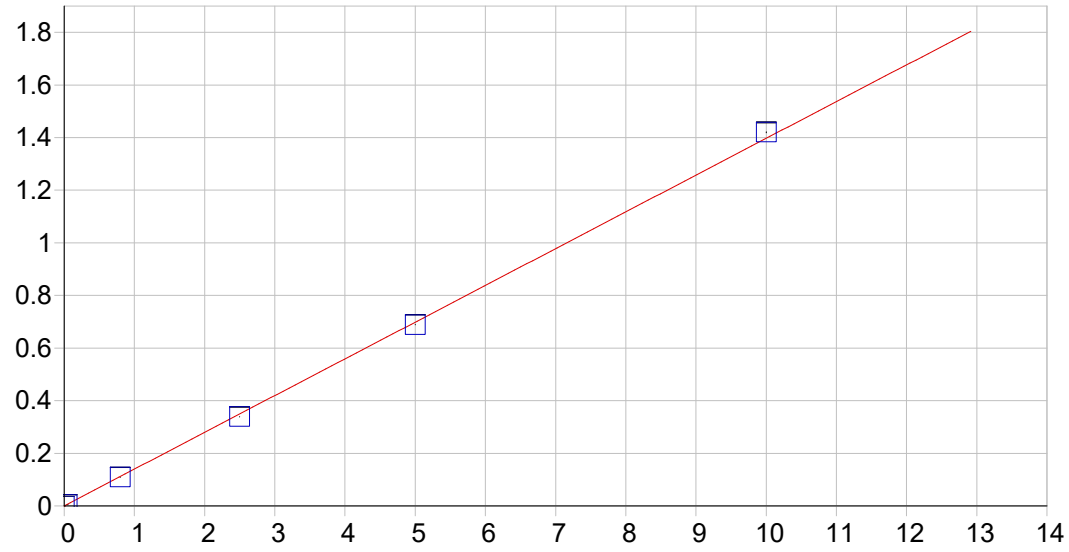
Si 251.611 {134}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.036111	Re-Slope:	1.000000
A1 (Gain):	1.622486	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.004269		
Predicted MDL:	0.001294		
Predicted MQL:	0.004315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.03618	.001	1
S1	.40000	.35637	-.044	-10.9	.61810	.002	1
S2	.80000	.82854	.029	3.57	1.4014	.013	1
S3	2.5000	2.4278	-.072	-2.89	4.0407	.021	1
S4	5.0000	4.9259	-.074	-1.48	8.1595	.079	1
S5	10.000	10.161	.161	1.61	16.784	.090	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



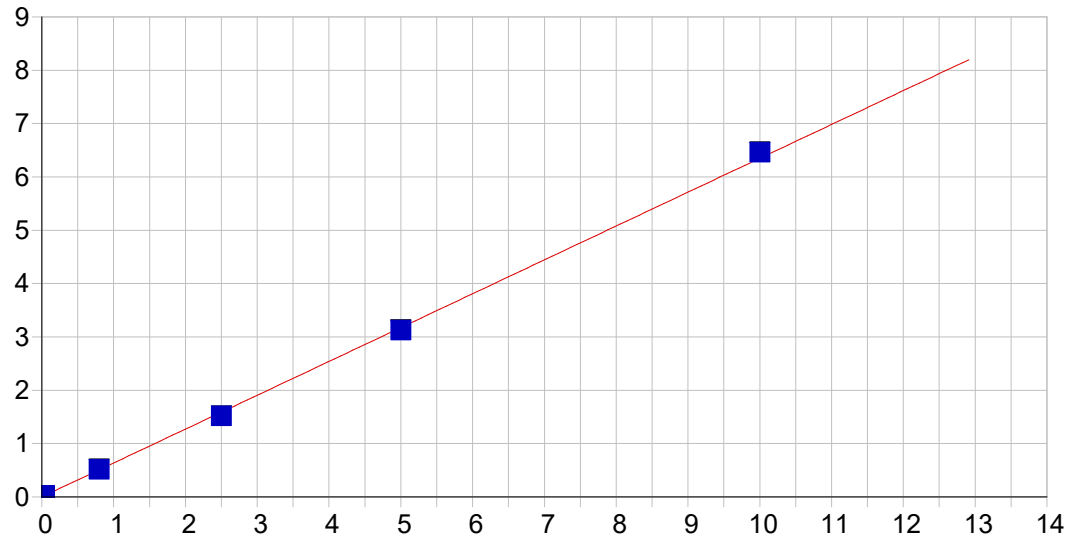
Sn 189.989 {478}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000167	Re-Slope:	1.000000
A1 (Gain):	0.139685	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.000943		
Predicted MQL:	0.003144		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00017	.000	1
S1	.04000	.03618	-.004	-9.55	.00522	.000	1
S2	.80000	.78080	-.019	-2.40	.10923	.001	1
S3	2.5000	2.4252	-.075	-2.99	.33892	.000	1
S4	5.0000	4.9306	-.069	-1.39	.68890	.001	1
S5	10.000	10.167	.167	1.67	1.4204	.002	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



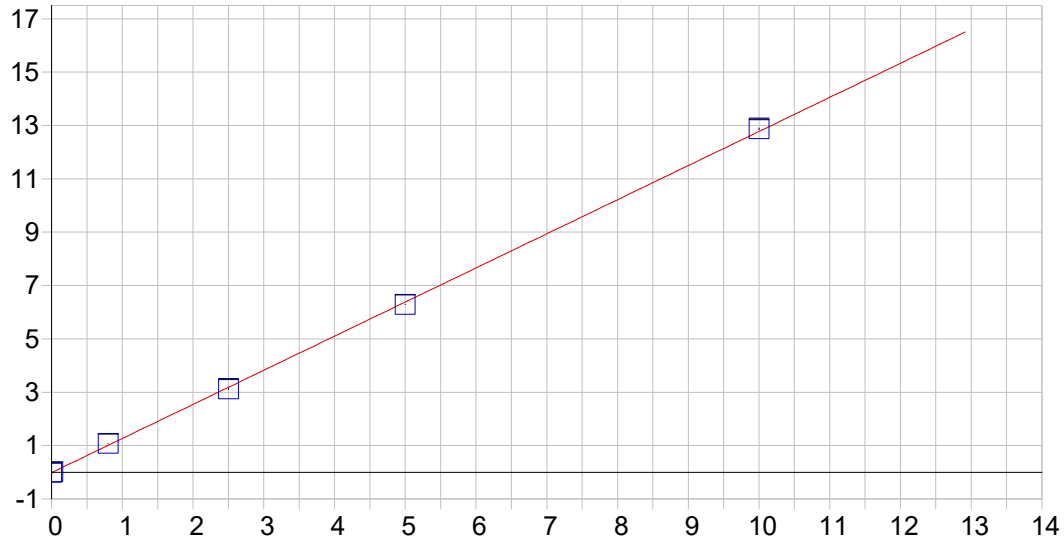
Ti 336.121 {100}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000817	Re-Slope:	1.000000
A1 (Gain):	0.634799	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999723	Status:	OK.
Std Error of Est:	0.000495		
Predicted MDL:	0.002768		
Predicted MQL:	0.009227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00082	.001	1
S1	.04000	.03495	-.005	-12.6	.02298	.002	1
S2	.80000	.81007	.010	1.26	.51479	.004	1
S3	2.5000	2.3902	-.110	-4.39	1.5173	.008	1
S4	5.0000	4.9222	-.078	-1.56	3.1238	.010	1
S5	10.000	10.183	.183	1.83	6.4616	.005	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



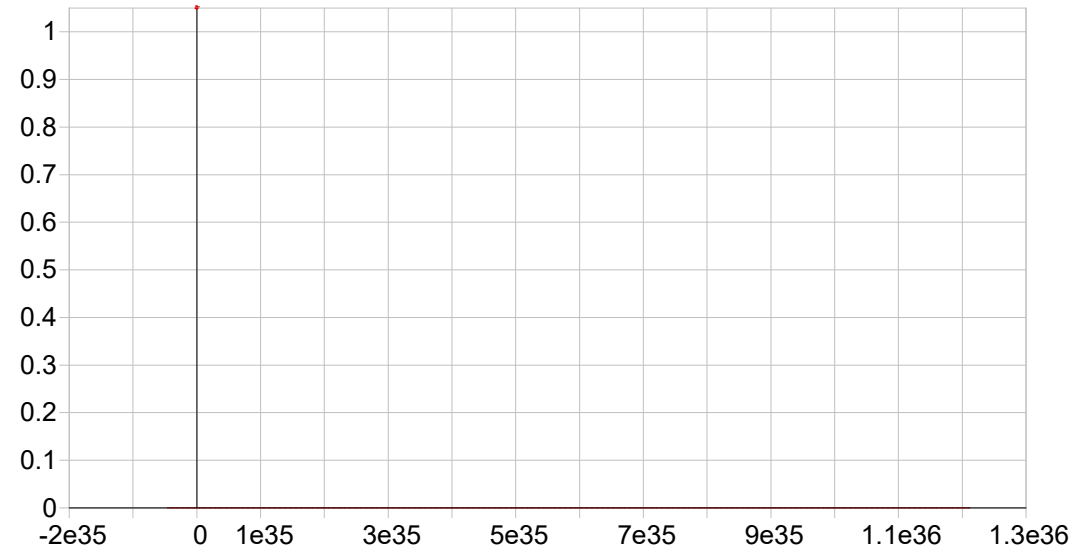
Li 670.784 { 50}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.013732	Re-Slope:	1.000000
A1 (Gain):	1.278920	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000535		
Predicted MDL:	0.005494		
Predicted MQL:	0.018313		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.01373	.009	1
S5	10.000	10.078	.078	.778	12.875	.025	1
S4	5.0000	4.9261	-.074	-1.48	6.2863	.008	1
S3	2.5000	2.4492	-.051	-2.03	3.1185	.018	1
S2	.80000	.84868	.049	6.08	1.0717	.008	1
S1	.02000	.01829	-.002	-8.57	.00965	.007	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

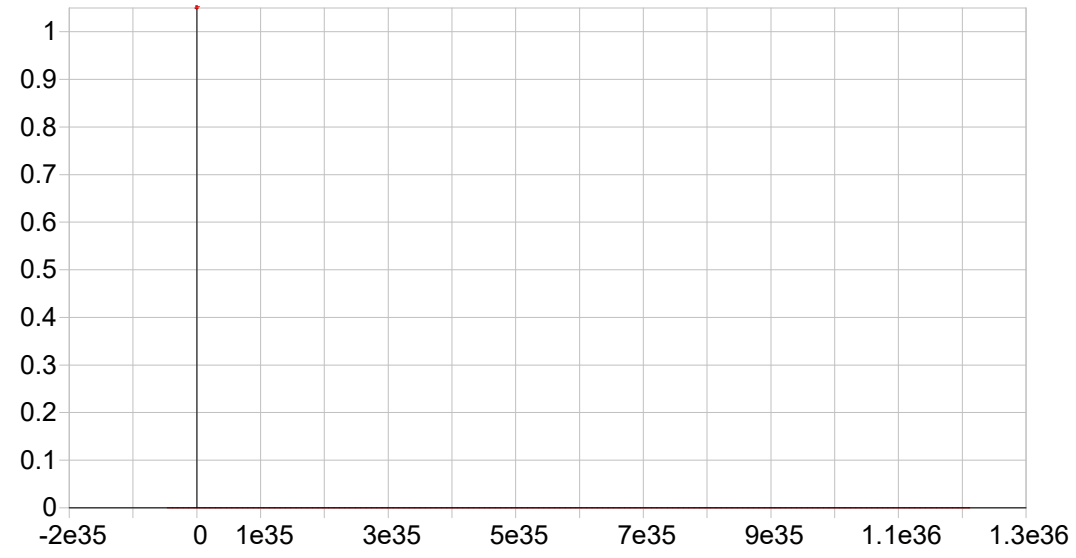


Y 224.306 {450}*

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

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

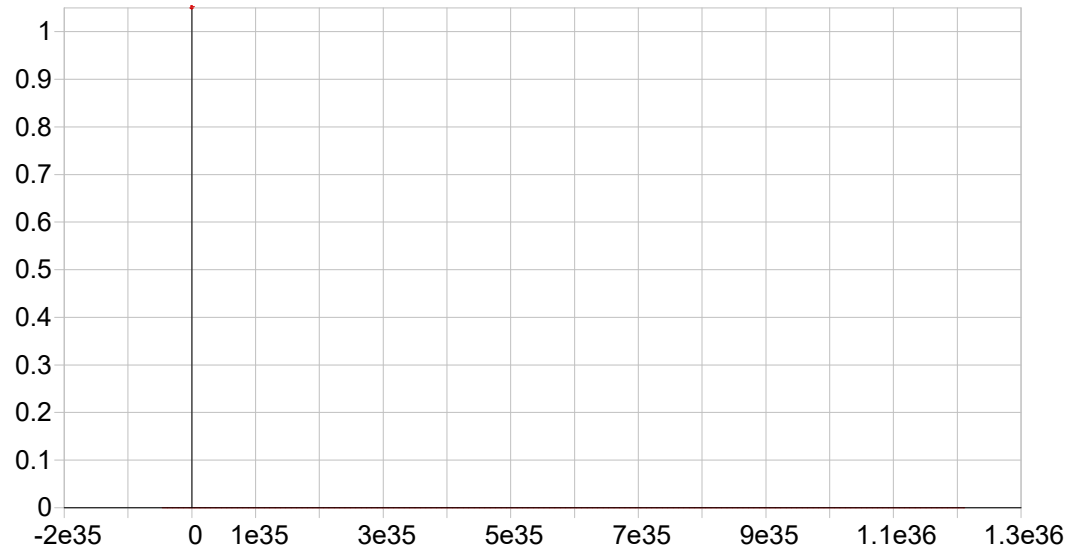
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

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



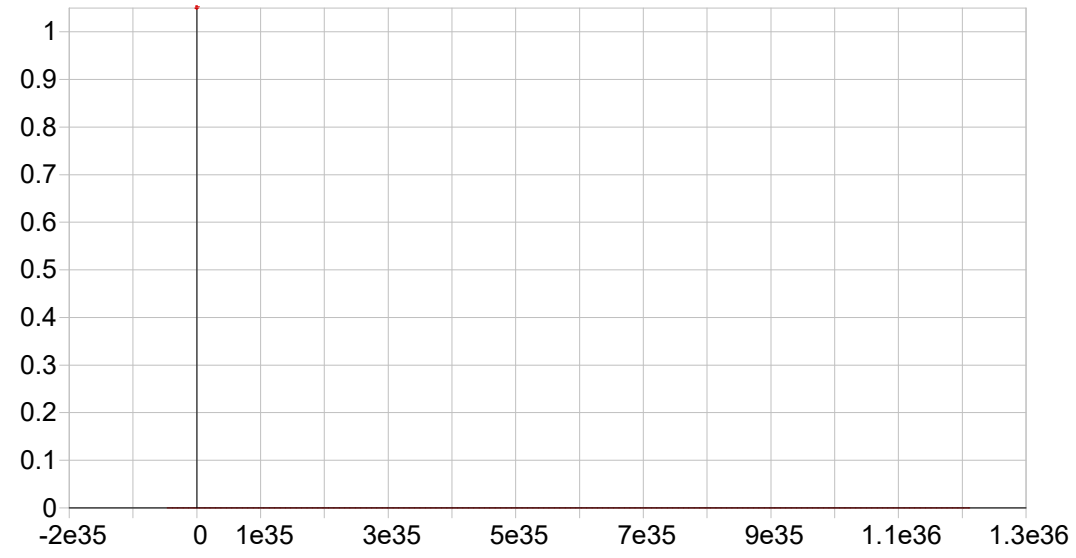
Y 371.030 { 91}*

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

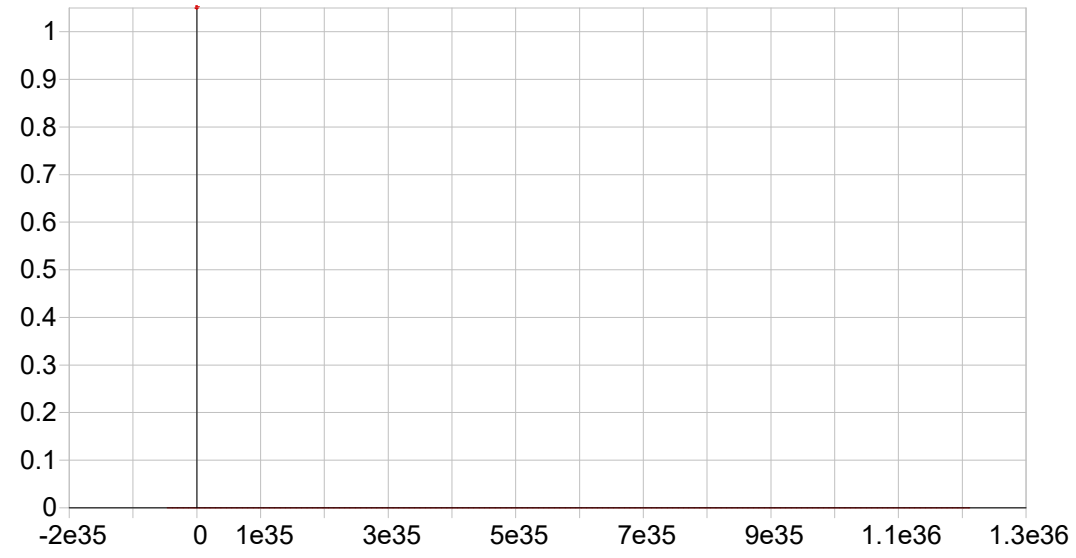
Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236



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



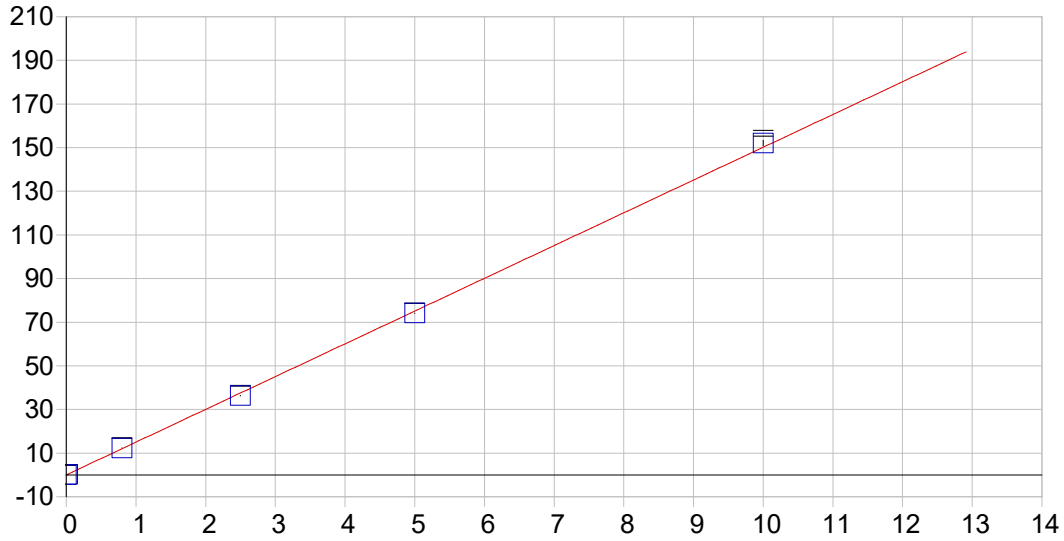
In 230.606 {446}*

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:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

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



Sr 407.771 { 83}

Date of Fit:	6/23/2025 16:02:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000279	Re-Slope:	1.000000
A1 (Gain):	15.017281	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.006106		
Predicted MDL:	0.000192		
Predicted MQL:	0.000639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00029	.002	1
S1	.02000	.01913	-.001	-4.37	.28750	.002	1
S2	.80000	.81997	.020	2.50	12.314	.055	1
S3	2.5000	2.4192	-.081	-3.23	36.330	.112	1
S4	5.0000	4.9366	-.063	-1.27	74.134	.121	1
S5	10.000	10.125	.125	1.25	152.05	1.28	1

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S0 Acquired: 6/23/2025 11:53:42 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	**-.00003**	**-.00005**	**.00011**	**.00009**	**.00049**	**-.00142**	**.01014**	**.00510**
Stddev	.00005	.00007	.00049	.00025	.00028	.00336	.00446	.00176
%RSD	174.76	140.56	461.97	286.55	57.501	237.33	44.036	34.442
#1	-.00005	.00003	.00056	-.00020	.00025	-.00453	.00498	.00635
#2	-.00007	-.00008	-.00041	.00019	.00042	.00215	.01267	.00585
#3	.00003	-.00010	.00016	.00026	.00080	-.00187	.01276	.00309

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00015**	**.01696**	**.00064**	**.00026**	**.05615**	**.00112**	**.00123**	**.00025**
Stddev	.00018	.00126	.00015	.00020	.00104	.00039	.00116	.00040
%RSD	117.49	7.4083	24.276	75.426	1.8546	35.144	94.316	160.86
#1	.00011	.01607	.00056	.00049	.05522	.00157	.00253	-.00004
#2	-.00000	.01642	.00081	.00015	.05597	.00090	.00033	.00071
#3	.00034	.01840	.00054	.00014	.05728	.00088	.00082	.00008

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00004**	**-.00065**	**-.11299**	**-.00005**	**.00278**	**.45406**	**-.00004**	**.01066**
Stddev	.00018	.00030	.00477	.00144	.00026	.01541	.00002	.00278
%RSD	467.21	46.478	4.2250	2654.3	9.4477	3.3946	36.415	26.061
#1	-.00008	-.00080	-.10762	-.00128	.00256	.47098	-.00003	.00788
#2	-.00020	-.00030	-.11462	.00154	.00272	.45036	-.00006	.01344
#3	.00016	-.00084	-.11674	-.00042	.00307	.44083	-.00005	.01065

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00043**	**.00059**	**.03618**	**.00017**	**.00082**	**-.01373**	**.00029**
Stddev	.00027	.00015	.00071	.00011	.00062	.00949	.00172
%RSD	62.973	24.942	1.9735	63.179	75.027	69.085	584.33
#1	.00041	.00061	.03677	.00021	.00057	-.01130	-.00134
#2	.00071	.00043	.03538	.00005	.00037	-.00570	.00013
#3	.00017	.00072	.03638	.00025	.00152	-.02420	.00209

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S0 Acquired: 6/23/2025 11:53:42 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	5050.4	40886.	2378.2	3620.9	5943.3
Stddev	8.4	148.	24.3	1.6	6.3
%RSD	.16728	.36300	1.0235	.04501	.10590
#1	5043.9	41047.	2351.3	3621.0	5936.6
#2	5059.9	40857.	2398.7	3619.3	5949.1
#3	5047.4	40755.	2384.7	3622.5	5944.2

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S1 Acquired: 6/23/2025 11:58:16 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00056**	**.00466**	**.00334**	**.00112**	**.00620**	**.01523**	**.55526**	**.09931**	**.01924**
Stddev	.00004	.00014	.00023	.00010	.00010	.00229	.00283	.00212	.00012
%RSD	7.5191	2.9203	6.7610	9.2647	1.5734	15.060	.50964	2.1302	.64752
#1	.00061	.00453	.00311	.00105	.00615	.01724	.55255	.09887	.01927
#2	.00053	.00480	.00336	.00124	.00614	.01572	.55820	.09744	.01934
#3	.00054	.00464	.00356	.00106	.00632	.01273	.55501	.10161	.01910

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.29788**	**.00334**	**.02118**	**.23025**	**.00669**	**.01823**	**.05986**	**.02759**	**.00270**
Stddev	.00194	.00008	.00031	.00494	.00036	.00049	.00056	.00051	.00011
%RSD	.65261	2.3946	1.4716	2.1470	5.4390	2.6617	.93800	1.8309	4.2342
#1	.29731	.00328	.02125	.22941	.00695	.01845	.05953	.02776	.00279
#2	.30004	.00332	.02146	.22578	.00684	.01856	.05953	.02799	.00274
#3	.29628	.00343	.02084	.23556	.00627	.01767	.06051	.02702	.00257

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.1280**	**.00486**	**.08419**	**24.406**	**.00120**	**.18635**	**.10583**	**.00147**	**.61810**
Stddev	.0296	.00096	.00048	.311	.00010	.00282	.00051	.00015	.00193
%RSD	1.3916	19.647	.57075	1.2740	8.1622	1.5119	.48280	10.340	.31198
#1	2.1107	.00385	.08465	24.056	.00112	.18619	.10633	.00130	.62029
#2	2.1621	.00574	.08421	24.650	.00118	.18924	.10586	.00159	.61737
#3	2.1110	.00501	.08369	24.512	.00131	.18361	.10531	.00151	.61665

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00522**	**.02298**	**.00965**	**.28750**
Stddev	.00019	.00170	.00749	.00214
%RSD	3.6694	7.3866	77.601	.74321
#1	.00536	.02427	.00965	.28895
#2	.00531	.02105	.00216	.28505
#3	.00500	.02360	.01715	.28850

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S1 Acquired: 6/23/2025 11:58:16 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	5092.3	41136.	2404.9	3628.5	5915.7
Stddev	28.3	239.	1.7	4.0	34.0
%RSD	.55672	.58006	.07258	.11095	.57462
#1	5062.1	41398.	2403.8	3623.9	5882.5
#2	5096.7	41077.	2404.0	3631.5	5914.3
#3	5118.2	40931.	2406.9	3629.9	5950.4

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S2 Acquired: 6/23/2025 12:02:46 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02758**	**.09960**	**.23576**	**.05461**	**.09367**	**.25283**	**9.2792**	**.68115**	**1.3609**
Stddev	.00017	.00009	.00130	.00043	.00030	.00252	.0260	.00202	.0042
%RSD	.61351	.08956	.55052	.77948	.31644	.99797	.27992	.29714	.30677
#1	.02748	.09956	.23431	.05412	.09354	.25269	9.2644	.67912	1.3563
#2	.02748	.09970	.23681	.05488	.09346	.25543	9.3092	.68317	1.3645
#3	.02777	.09953	.23616	.05484	.09401	.25039	9.2639	.68115	1.3619

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.59784**	**.04089**	**.28771**	**1.8105**	**.05067**	**.33888**	**.12048**	**.28403**	**.07023**
Stddev	.00109	.00000	.00017	.0018	.00126	.00155	.00074	.00049	.00031
%RSD	.18166	.01134	.06046	.09722	2.4850	.45749	.61554	.17097	.44275
#1	.59815	.04090	.28759	1.8123	.04933	.33709	.11968	.28363	.07050
#2	.59874	.04089	.28762	1.8105	.05183	.33975	.12061	.28457	.06989
#3	.59664	.04089	.28791	1.8088	.05086	.33980	.12115	.28388	.07030

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.0241**	**.05747**	**.85616**	**58.644**	**.05521**	**1.5396**	**.44440**	**.04075**	**1.4014**
Stddev	.0203	.00086	.00576	.257	.00025	.0123	.00161	.00038	.0129
%RSD	.40384	1.5043	.67223	.43826	.45485	.80005	.36255	.93898	.92169
#1	5.0393	.05712	.85966	58.937	.05493	1.5485	.44281	.04060	1.4139
#2	5.0011	.05846	.84952	58.542	.05540	1.5447	.44435	.04047	1.4022
#3	5.0320	.05684	.85931	58.454	.05530	1.5255	.44604	.04119	1.3881

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10923**	**.51479**	**1.0717**	**12.314**
Stddev	.00061	.00424	.0081	.055
%RSD	.56010	.82402	.75977	.44363
#1	.10853	.51225	1.0675	12.286
#2	.10962	.51969	1.0810	12.377
#3	.10955	.51243	1.0664	12.279

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S2 Acquired: 6/23/2025 12:02:46 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	5082.5	40507.	2323.8	3604.0	5765.9
Stddev	6.2	250.	.6	35.9	9.9
%RSD	.12278	.61685	.02457	.99626	.17252
#1	5078.9	40463.	2323.7	3592.7	5754.6
#2	5089.7	40775.	2324.5	3644.3	5773.4
#3	5079.0	40281.	2323.4	3575.2	5769.6

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S3 Acquired: 6/23/2025 12:07:04 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08718	.30533	.72428	.16094	.27398	.73402	27.396	2.0035	4.2515
Stddev	.00018	.00186	.00114	.00040	.00031	.00174	.119	.0117	.0045
%RSD	.20189	.60800	.15795	.24644	.11317	.23712	.43527	.58384	.10488
#1	.08713	.30329	.72329	.16117	.27434	.73223	27.260	2.0134	4.2475
#2	.08738	.30576	.72402	.16049	.27377	.73412	27.481	1.9906	4.2506
#3	.08704	.30693	.72553	.16118	.27384	.73571	27.447	2.0066	4.2563

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.7395	.11910	.88658	5.1328	.14770	.98348	.34810	.87220	.20418
Stddev	.0054	.00027	.00043	.0222	.00172	.00090	.00382	.00136	.00054
%RSD	.30995	.22668	.04805	.43205	1.1671	.09192	1.0962	.15582	.26215
#1	1.7355	.11884	.88666	5.1533	.14573	.98306	.34379	.87097	.20428
#2	1.7456	.11938	.88612	5.1093	.14891	.98286	.34949	.87196	.20467
#3	1.7372	.11909	.88696	5.1358	.14846	.98452	.35104	.87366	.20361

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15.443	.16773	2.5307	187.53	.17493	4.5476	1.2982	.13221	4.0407
Stddev	.059	.00109	.0011	.71	.00043	.0235	.0005	.00039	.0214
%RSD	.38073	.65001	.04239	.37714	.24310	.51594	.03796	.29346	.52906
#1	15.482	.16709	2.5295	186.73	.17446	4.5700	1.2977	.13188	4.0556
#2	15.375	.16712	2.5311	187.77	.17504	4.5232	1.2985	.13263	4.0162
#3	15.471	.16899	2.5316	188.09	.17529	4.5498	1.2986	.13211	4.0503

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.33892	1.5173	3.1185	36.330
Stddev	.00037	.0078	.0176	.112
%RSD	.10923	.51260	.56314	.30745
#1	.33875	1.5107	3.0984	36.212
#2	.33867	1.5154	3.1304	36.433
#3	.33935	1.5259	3.1269	36.346

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S3 Acquired: 6/23/2025 12:07:04 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	5112.6	40640.	2343.8	3611.7	5437.3
Stddev	15.0	226.	1.3	15.1	15.3
%RSD	.29245	.55622	.05567	.41743	.28126
#1	5102.8	40788.	2342.6	3624.9	5438.3
#2	5129.8	40380.	2343.7	3595.3	5452.1
#3	5105.1	40753.	2345.2	3614.9	5421.6

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S4 Acquired: 6/23/2025 12:11:26 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.18107**	**.61340**	**1.4722**	**.32913**	**.55864**	**1.4977**	**55.974**	**4.0556**	**8.6932**
Stddev	.00019	.00223	.0024	.00042	.00095	.0051	.095	.0508	.0105
%RSD	.10738	.36425	.16453	.12831	.17051	.33760	.17000	1.2536	.12028
#1	.18125	.61113	1.4699	.32947	.55861	1.5029	56.084	4.0545	8.6827
#2	.18110	.61349	1.4719	.32927	.55961	1.4928	55.917	4.0053	8.6934
#3	.18086	.61560	1.4747	.32866	.55770	1.4974	55.921	4.1069	8.7036

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.5451**	**.23968**	**1.8076**	**10.208**	**.30153**	**1.9956**	**.70689**	**1.7713**	**.41165**
Stddev	.0059	.00026	.0013	.079	.00295	.0027	.00387	.0010	.00124
%RSD	.16684	.10869	.06952	.77699	.97878	.13499	.54684	.05383	.30022
#1	3.5459	.23997	1.8061	10.194	.29852	1.9984	.71127	1.7708	.41218
#2	3.5389	.23946	1.8083	10.136	.30167	1.9931	.70548	1.7708	.41252
#3	3.5506	.23961	1.8082	10.293	.30441	1.9953	.70394	1.7724	.41023

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**32.217**	**.34404**	**5.0914**	**399.91**	**.36257**	**9.3092**	**2.6418**	**.26619**	**8.1595**
Stddev	.226	.00150	.0074	4.51	.00016	.0841	.0027	.00029	.0788
%RSD	.70184	.43737	.14470	1.1278	.04348	.90370	.10261	.11020	.96561
#1	32.141	.34300	5.0829	398.33	.36253	9.2880	2.6434	.26591	8.1291
#2	32.038	.34335	5.0959	396.41	.36244	9.2377	2.6434	.26617	8.1004
#3	32.471	.34576	5.0953	405.00	.36275	9.4019	2.6387	.26650	8.2490

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.68890**	**3.1238**	**6.2863**	**74.134**
Stddev	.00088	.0100	.0077	.121
%RSD	.12841	.31914	.12256	.16376
#1	.68821	3.1331	6.2937	74.274
#2	.68859	3.1251	6.2783	74.052
#3	.68990	3.1133	6.2870	74.076

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S4 Acquired: 6/23/2025 12:11:26 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	4888.4	39110.	2248.4	3472.1	5147.4
Stddev	8.2	126.	25.0	5.9	2.4
%RSD	.16733	.32266	1.1111	.16978	.04593
#1	4880.8	38975.	2244.9	3465.3	5145.5
#2	4887.2	39225.	2275.0	3476.0	5146.5
#3	4897.0	39130.	2225.4	3475.0	5150.0

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S5 Acquired: 6/23/2025 12:15:41 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2144
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.38225	1.2487	3.0362	.67670	1.1475	3.1093	115.66	8.2910	17.877
Stddev	.00067	.0019	.0025	.00030	.0003	.0057	.66	.0486	.028
%RSD	.17634	.15474	.08199	.04474	.02397	.18502	.56856	.58596	.15431
#1	.38298	1.2466	3.0391	.67637	1.1475	3.1030	114.93	8.3163	17.909
#2	.38165	1.2488	3.0350	.67676	1.1478	3.1108	115.87	8.2350	17.863
#3	.38211	1.2505	3.0346	.67696	1.1473	3.1142	116.19	8.3216	17.859

Elem	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.3291	.49037	3.7325	20.832	.62387	4.1113	1.4545	3.6533	.84763
Stddev	.0165	.00054	.0054	.101	.00064	.0068	.0027	.0068	.00287
%RSD	.22508	.11101	.14549	.48318	.10337	.16575	.18546	.18719	.33866
#1	7.3147	.49091	3.7386	20.868	.62319	4.1172	1.4522	3.6612	.85034
#2	7.3256	.48983	3.7305	20.718	.62447	4.1038	1.4539	3.6494	.84794
#3	7.3471	.49036	3.7284	20.909	.62394	4.1128	1.4575	3.6494	.84462

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	68.092	.71749	10.447	860.75	.76200	19.127	5.4363	.56295	16.784
Stddev	.275	.00224	.014	2.45	.00124	.089	.0034	.00089	.089
%RSD	.40320	.31176	.13477	.28483	.16336	.46757	.06286	.15857	.53323
#1	68.005	.71569	10.435	862.01	.76331	19.142	5.4384	.56395	16.761
#2	67.872	.72000	10.462	857.92	.76083	19.031	5.4323	.56223	16.709
#3	68.400	.71680	10.444	862.31	.76188	19.208	5.4381	.56267	16.883

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4204	6.4616	12.875	152.05
Stddev	.0017	.0053	.025	1.28
%RSD	.12174	.08212	.19617	.83875
#1	1.4224	6.4616	12.846	152.50
#2	1.4196	6.4563	12.895	150.61
#3	1.4192	6.4669	12.884	153.04

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: S5 Acquired: 6/23/2025 12:15:41 Type: Cal
Method: METHOD 6010D, 200.7(v20) Mode: IR Corr. Factor: 1.000000
User: admin 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	4673.1	37348.	2141.6	3314.3	4859.4
Stddev	3.6	68.	8.4	6.3	10.8
%RSD	.07762	.18079	.39129	.18960	.22248
#1	4671.3	37324.	2141.0	3315.4	4848.8
#2	4670.8	37296.	2150.2	3307.5	4858.9
#3	4677.3	37424.	2133.5	3319.9	4870.4

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICV01 Acquired: 6/23/2025 12:34:03 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.913271**	**4.049992**	**3.953003**	**3.979652**	**4.106848**	**7.979607**
Stddev	.007114	.010717	.012094	.020378	.007228	.046710
%RSD	.1818038	.2646206	.3059409	.5120626	.1759917	.5853682
#1	3.918134	4.062239	3.966925	4.002099	4.114249	7.943910
#2	3.905105	4.045410	3.946986	3.974540	4.106486	8.032471
#3	3.916573	4.042328	3.945097	3.962316	4.099808	7.962440

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.847528**	**.2062896**	**1.997802**	**19.38175**	**.8062543**	**2.035115**
Stddev	.041493	.0021510	.005524	.10441	.0026718	.002926
%RSD	.5287345	1.042708	.2765161	.5387145	.3313827	.1437742
#1	7.820003	.2063239	2.004051	19.28621	.8039431	2.038156
#2	7.895252	.2084232	1.995782	19.49321	.8091797	2.034869
#3	7.827328	.2041216	1.993571	19.36584	.8056401	2.032320

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.027843**	**3.923594**	**1.958692**	**19.81795**	**2.031323**	**1.065695**
Stddev	.009434	.042024	.010513	.11939	.003254	.004356
%RSD	.9178293	1.071055	.5367261	.6024107	.1601714	.4087530
#1	1.023004	3.880371	1.948272	19.68099	2.035062	1.062306
#2	1.038714	3.964306	1.969295	19.89998	2.029764	1.070609
#3	1.021810	3.926105	1.958511	19.87288	2.029142	1.064172

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.97299**	**1.989430**	**1.995773**	**18.98233**	F **.0138844**	F **.0049308**
Stddev	.15141	.022530	.008251	.24533	.0014956	.0013373
%RSD	.7580728	1.132467	.4134264	1.292428	10.77160	27.12056
#1	19.82598	1.969455	1.991243	18.70039	.0134827	.0064750
#2	20.12845	2.013851	2.005297	19.14718	.0155398	.0041627
#3	19.96454	1.984984	1.990779	19.09943	.0126307	.0041548

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICV01 Acquired: 6/23/2025 12:34:03 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0009522	F .0165449	F -.000611	F .0020001	F -.002252	F .0165344
Stddev	.0006034	.0005219	.001307	.0009509	.003580	.0030775
%RSD	63.36420	3.154344	213.8251	47.54440	158.9908	18.61282
#1	.0002594	.0159425	.000707	.0012520	-.000503	.0153694
#2	.0012350	.0168612	-.001907	.0016781	.000118	.0200244
#3	.0013622	.0168310	-.000634	.0030703	-.006371	.0142095

Elem	Sr4077
Units	ppm
Avg	F .0002830
Stddev	.0001901
%RSD	67.17464
#1	.0001866
#2	.0001605
#3	.0005021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4893.047	39301.81	2259.675	3516.405	5167.302
Stddev	18.531	96.22	14.614	15.694	17.269
%RSD	.3787126	.2448306	.6467159	.4462949	.3341937
#1	4900.987	39387.97	2269.499	3522.599	5175.608
#2	4871.869	39319.49	2242.881	3498.559	5147.450
#3	4906.284	39197.97	2266.645	3528.056	5178.849

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: LLICV01 Acquired: 6/23/2025 13:09:45 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**.0179969**	**.0415393**	**.0140138**	**.0203832**	**.0539854**	**.1136717**	**.1037472**
Stddev	.0025914	.0002191	.0007887	.0034071	.0014214	.0129899	.0011564
%RSD	14.39902	.5273319	5.627985	16.71510	2.632880	11.42752	1.114613
#1	.0206597	.0417803	.0141739	.0198808	.0534295	.1249484	.1049096
#2	.0154834	.0414853	.0147101	.0172552	.0556007	.0994681	.1037353
#3	.0178477	.0413523	.0131573	.0240136	.0529259	.1165986	.1025969

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064761**	**.0059196**	**2.100156**	**.0108260**	**.0316336**	**.0233347**	**.1020334**
Stddev	.0000556	.0000824	.015601	.0003613	.0002989	.0005913	.0188618
%RSD	.8580066	1.392208	.7428565	3.337074	.9447965	2.533833	18.48595
#1	.0064145	.0058606	2.118170	.0104786	.0314252	.0233379	.0803346
#2	.0064914	.0058844	2.091331	.0107997	.0314995	.0239243	.1145082
#3	.0065224	.0060138	2.090969	.0111997	.0319760	.0227418	.1112573

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0202222**	**2.194425**	**.0416075**	**.0108212**	**1.886864**	**.0356804**	**.0411094**
Stddev	.0014887	.051946	.0005923	.0005868	.013821	.0083920	.0003177
%RSD	7.361470	2.367159	1.423539	5.422373	.7325103	23.51980	.7728785
#1	.0218877	2.137508	.0414447	.0113210	1.876647	.0291608	.0414591
#2	.0190212	2.239276	.0411137	.0101752	1.902590	.0451488	.0410306
#3	.0197576	2.206489	.0422642	.0109674	1.881354	.0327316	.0408384

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.686182**	**.0200215**	**.0985657**	**.2089276**	**.0205409**	**.3937581**	**.0407110**
Stddev	.009571	.0023378	.0018597	.0006201	.0018000	.0031645	.0013961
%RSD	.5676288	11.67640	1.886711	.2968090	8.763218	.8036798	3.429337
#1	1.683325	.0179786	.1007083	.2082464	.0226191	.3938466	.0398834
#2	1.696857	.0195150	.0976186	.2094593	.0195299	.3968775	.0399268
#3	1.678365	.0225711	.0973703	.2090770	.0194735	.3905503	.0423230

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: LLICV01 Acquired: 6/23/2025 13:09:45 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0384178	.0513178	.0204293
Stddev	.0007398	.0021762	.0001677
%RSD	1.925772	4.240542	.8207080
#1	.0383836	.0512834	.0204239
#2	.0391742	.0491591	.0205996
#3	.0376957	.0535110	.0202644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4999.842	40427.10	2261.308	3574.852	5591.103
Stddev	14.491	33.09	15.308	2.764	16.140
%RSD	.2898194	.0818620	.6769595	.0773310	.2886812
#1	4983.979	40424.95	2262.700	3572.964	5573.395
#2	5003.166	40461.21	2245.351	3573.567	5594.924
#3	5012.382	40395.13	2275.873	3578.025	5604.990

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICB01 Acquired: 6/23/2025 13:19:01 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003349**	**.0002653**	**.0008216**	**.0001871**	**.0003343**	**.0166958**
Stddev	.000823	.0022390	.0006419	.0006012	.0018810	.0073372
%RSD	24.56395	843.8701	78.12770	321.2787	562.6502	43.94652
#1	-.003016	-.001871	.0009731	-.000476	.0017195	.0162754
#2	-.002746	.002594	.0001175	.000341	-.001807	.0242341
#3	-.004287	.000073	.0013741	.000696	.001091	.0095778

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019522**	**.0001038**	**-.000024**	**.0492272**	**-.000222**	**-.000206**
Stddev	.0011249	.0000167	.000010	.0041863	.000146	.000316
%RSD	57.62131	16.08310	43.56222	8.504024	65.80606	153.3635
#1	.0019671	.0001033	-.000035	.0448463	-.000256	.000062
#2	.0008200	.0001208	-.000020	.0531871	-.000349	-.000555
#3	.0030696	.0000874	-.000015	.0496481	-.000062	-.000126

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004986**	**-.010961**	**-.000777**	**-.035180**	**.0001613**	**.0003017**
Stddev	.0006054	.010105	.000838	.020576	.0004243	.0001985
%RSD	121.4113	92.19118	107.8261	58.48810	262.9620	65.77875
#1	.0011975	-.005162	-.001349	-.022986	-.000325	.0004720
#2	.0001601	-.005092	.000185	-.058937	.000456	.0003493
#3	.0001382	-.022629	-.001167	-.023618	.000353	.0000838

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0449789**	**-.003639**	**-.000940**	**.0070050**	**-.003270**	**-.005419**
Stddev	.0091595	.006590	.000304	.0006955	.000689	.001632
%RSD	20.36398	181.0679	32.37879	9.928720	21.06053	30.12177
#1	.0390076	-.004484	-.000982	.0062034	-.002704	-.006887
#2	.0404045	.003332	-.000617	.0073645	-.004036	-.005711
#3	.0555246	-.009766	-.001221	.0074473	-.003068	-.003661

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICB01 Acquired: 6/23/2025 13:19:01 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000140	-.003146	-.000546	.0002199	-.001754	F .0300966
Stddev	.000257	.000938	.001207	.0003828	.000399	.0022805
%RSD	183.2917	29.81808	220.9967	174.0762	22.72754	7.577166
#1	.000122	-.002970	-.000112	.0006484	-.002116	.0280078
#2	-.000392	-.004159	-.001911	-.000088	-.001327	.0297525
#3	-.000152	-.002308	.000384	.000100	-.001820	.0325296

Elem	Sr4077
Units	ppm
Avg	-.000094
Stddev	.000084
%RSD	90.26471
#1	-.000038
#2	-.000052
#3	-.000191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5066.971	40914.59	2238.833	3612.917	5749.149
Stddev	21.660	103.05	14.887	10.938	18.925
%RSD	.4274694	.2518664	.6649480	.3027607	.3291730
#1	5048.419	40850.97	2233.518	3603.390	5735.940
#2	5090.773	41033.49	2227.333	3624.862	5770.830
#3	5061.721	40859.32	2255.649	3610.498	5740.678

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CRI01 Acquired: 6/23/2025 13:23:31 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**.0180352**	**.0408817**	**.0117814**	**.0175351**	**.0528759**	**.1089073**	**.1004843**
Stddev	.0030127	.0002586	.0004307	.0018718	.0012574	.0039268	.0002738
%RSD	16.70447	.6324366	3.656125	10.67458	2.378096	3.605634	.2724957
#1	.0204031	.0405838	.0112922	.0196481	.0536946	.1118027	.1001720
#2	.0190581	.0410135	.0119484	.0168722	.0514281	.1044376	.1005976
#3	.0146442	.0410478	.0121037	.0160849	.0535051	.1104815	.1006832

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063475**	**.0058374**	**2.022295**	**.0100943**	**.0311642**	**.0232760**	**.0947536**
Stddev	.0001328	.0000318	.008153	.0002004	.0002384	.0007106	.0096426
%RSD	2.092771	.5445899	.4031684	1.985703	.7649856	3.052898	10.17649
#1	.0064931	.0058712	2.028467	.0099882	.0314022	.0238946	.0848179
#2	.0062329	.0058330	2.013052	.0099693	.0311651	.0234337	.0953694
#3	.0063165	.0058081	2.025365	.0103255	.0309254	.0224999	.1040735

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204449**	**2.118054**	**.0407444**	**.0097531**	**1.866018**	**.0342863**	**.0403188**
Stddev	.0006927	.055811	.0002986	.0002521	.027660	.0017872	.0005173
%RSD	3.387949	2.635018	.7328786	2.584484	1.482305	5.212483	1.283119
#1	.0199481	2.158545	.0407530	.0095741	1.891974	.0339921	.0397460
#2	.0212361	2.054389	.0404417	.0100413	1.869158	.0362023	.0404585
#3	.0201505	2.141228	.0410387	.0096438	1.836922	.0326644	.0407520

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.667646**	**.0177670**	**.0964960**	**.2050974**	**.0182686**	**.3854604**	**.0389053**
Stddev	.017600	.0011586	.0016353	.0008031	.0013263	.0055184	.0007100
%RSD	1.055408	6.521026	1.694674	.3915777	7.260156	1.431632	1.824992
#1	1.685479	.0181563	.0983842	.2051443	.0189768	.3916931	.0395194
#2	1.667172	.0186808	.0955433	.2058761	.0167385	.3834918	.0390687
#3	1.650288	.0164639	.0955604	.2042719	.0190905	.3811962	.0381278

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CRI01 Acquired: 6/23/2025 13:23:31 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0392072	.0490150	.0193786
Stddev	.0027684	.0079191	.0000683
%RSD	7.060943	16.15658	.3522422
#1	.0394698	.0505248	.0194487
#2	.0418349	.0404496	.0193123
#3	.0363168	.0560705	.0193748

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5113.320	41451.02	2309.947	3665.581	5703.447
Stddev	13.951	198.41	15.868	19.783	11.246
%RSD	.2728294	.4786580	.6869214	.5397075	.1971803
#1	5106.885	41667.95	2293.397	3686.549	5701.778
#2	5103.749	41406.39	2311.412	3662.950	5693.129
#3	5129.327	41278.73	2325.030	3647.246	5715.434

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSA01 Acquired: 6/23/2025 13:34:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006995**	**.0067947**	**-.002878**	**-.001749**	**.0190801**	**257.9291**
Stddev	.009939	.0034113	.000972	.004426	.0028692	.9646
%RSD	142.0760	50.20517	33.76401	253.0397	15.03754	.3739598
#1	-.018389	.0068863	-.003392	-.006157	.0191192	259.0390
#2	-.000107	.0033385	-.001757	-.001784	.0161916	257.4534
#3	-.002490	.0101592	-.003485	.002694	.0219295	257.2948

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070345**	**.0011441**	**-.001064**	**236.1314**	**.0502670**	**.0271423**
Stddev	.0009831	.0000564	.000009	.3859	.0008088	.0003652
%RSD	13.97586	4.931981	.8138741	.1634382	1.608944	1.345635
#1	.0060337	.0011830	-.001059	236.5740	.0507039	.0268282
#2	.0070709	.0010794	-.001074	235.9546	.0493338	.0270557
#3	.0079990	.0011700	-.001060	235.8655	.0507634	.0275431

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009006**	**99.94125**	**.0062305**	**249.8554**	**.0045992**	**-.000536**
Stddev	.000226	.12431	.0005341	.4658	.0004189	.001187
%RSD	2.514930	.1243858	8.572930	.1864422	9.107282	221.1955
#1	-.008749	99.99297	.0063325	250.3688	.0050488	-.001364
#2	-.009088	100.0314	.0067063	249.7377	.0042200	-.001069
#3	-.009179	99.7994	.0056527	249.4598	.0045288	.000823

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1997833**	**.0069475**	**.0112216**	**.0088587**	**.0060514**	**.0029526**
Stddev	.0085038	.0111351	.0005738	.0008132	.0010004	.0027882
%RSD	4.256535	160.2744	5.113190	9.179076	16.53151	94.43430
#1	.1929187	-.000480	.0116379	.0094198	.0067765	.0059706
#2	.1971349	.019751	.0114598	.0092303	.0064677	.0024148
#3	.2092961	.001572	.0105671	.0079262	.0049101	.0004724

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSA01 Acquired: 6/23/2025 13:34:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036747	.0112720	-.010715	F .0083692	-.000672	F .0323494
Stddev	.0008205	.0049917	.000745	.0002416	.003299	.0059832
%RSD	22.32861	44.28429	6.952380	2.886396	490.7988	18.49568
#1	.0036330	.0069170	-.010862	.0081942	.001470	.0309124
#2	.0045153	.0101796	-.009907	.0082685	-.004472	.0272155
#3	.0028758	.0167195	-.011375	.0086448	.000985	.0389203

Elem	Sr4077
Units	ppm
Avg	.0994915
Stddev	.0001334
%RSD	.1340847
#1	.0993521
#2	.0996180
#3	.0995042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4645.160	36394.88	2189.462	3315.977	4578.841
Stddev	10.361	167.86	5.394	12.950	10.688
%RSD	.2230387	.4612228	.2463460	.3905277	.2334166
#1	4655.568	36286.92	2185.332	3311.262	4582.564
#2	4645.065	36588.27	2195.565	3330.623	4587.169
#3	4634.848	36309.43	2187.490	3306.045	4566.789

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSAB01 Acquired: 6/23/2025 13:43:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0944857**	**.0989292**	**.0458822**	**.0519818**	**.6175664**	**248.7170**
Stddev	.0053801	.0028496	.0017314	.0014426	.0016416	1.0486
%RSD	5.694043	2.880459	3.773599	2.775274	.2658225	.4215966
#1	.0958545	.0957059	.0460454	.0509316	.6194148	249.5242
#2	.0990492	.1011137	.0475262	.0536267	.6162782	249.0949
#3	.0885535	.0999680	.0440750	.0513870	.6170062	247.5318

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5050018**	**.5129333**	**1.030139**	**225.9896**	**.5434524**	**.5314826**
Stddev	.0019725	.0018902	.001573	.8510	.0014048	.0012900
%RSD	.3905853	.3685050	.1526919	.3765869	.2584902	.2427194
#1	.5058386	.5137720	1.028501	226.3556	.5429195	.5300215
#2	.5064180	.5107689	1.030280	226.5965	.5450457	.5319622
#3	.5027489	.5142590	1.031637	225.0168	.5423921	.5324642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4782180**	**96.15902**	**.4863348**	**240.0849**	**1.011931**	**.2092290**
Stddev	.0012090	.46216	.0036797	.8061	.001246	.0007215
%RSD	.2528204	.4806235	.7566258	.3357643	.1231045	.3448468
#1	.4775137	96.28086	.4880811	240.7786	1.012668	.2090149
#2	.4775263	96.54806	.4888162	240.2754	1.012633	.2100334
#3	.4796141	95.64815	.4821070	239.2005	1.010493	.2086388

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920766**	**.4895425**	**1.010186**	**.0059102**	F **.0137438**	**.0021082**
Stddev	.0202482	.0130523	.002114	.0002016	.0051777	.0016678
%RSD	10.54172	2.666225	.2092668	3.411030	37.67274	79.11040
#1	.2049042	.5033302	1.010346	.0059477	.0098838	.0021017
#2	.1687342	.4773774	1.012216	.0056924	.0117199	.0037793
#3	.2025915	.4879198	1.007997	.0060904	.0196277	.0004437

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSAB01 Acquired: 6/23/2025 13:43:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033592	.0169188	-.008678	F .0080031	-.002384	F .0302673
Stddev	.0006392	.0043474	.000742	.0009610	.001831	.0092851
%RSD	19.02803	25.69582	8.554861	12.00751	76.81577	30.67695
#1	.0035343	.0142199	-.008350	.0069187	-.001595	.0400671
#2	.0026507	.0146026	-.008156	.0083414	-.001079	.0216010
#3	.0038926	.0219339	-.009528	.0087492	-.004477	.0291337

Elem	Sr4077
Units	ppm
Avg	.0955387
Stddev	.0004044
%RSD	.4233091
#1	.0959031
#2	.0956094
#3	.0951036

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4696.475	37022.93	2231.433	3364.655	4645.520
Stddev	7.970	25.11	10.904	10.176	1.889
%RSD	.1696930	.0678209	.4886383	.3024444	.0406581
#1	4687.358	37051.21	2227.351	3360.309	4645.742
#2	4702.112	37014.33	2243.789	3357.374	4643.530
#3	4699.956	37003.26	2223.159	3376.283	4647.288

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSADLX20 Acquired: 6/23/2025 13:47:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	-.006095	.0015820	.0006185	-.003405	.0002805	11.51582	.0009042
Stddev	.003144	.0011672	.0016282	.003271	.0015392	.12355	.0012987
%RSD	51.58472	73.78021	263.2460	96.06807	548.8406	1.072909	143.6357
#1	-.002743	.0027811	.0024983	-.000956	.0017011	11.38003	-.000338
#2	-.006564	.0004496	-.000299	-.002139	.0004950	11.54582	.002253
#3	-.008979	.0015154	-.000344	-.007120	-.001355	11.62162	.000798

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001767	-.000081	10.38290	.0015883	.0057800	.0000094	4.492750
Stddev	.0001617	.000075	.04334	.0007749	.0003621	.0012505	.042434
%RSD	91.51069	92.64163	.4173779	48.78601	6.264752	13330.45	.9444994
#1	.0000124	-.000063	10.34117	.0012374	.0061522	-.001341	4.444794
#2	.0003357	-.000017	10.42768	.0024765	.0057591	.001128	4.508020
#3	.0001820	-.000164	10.37984	.0010509	.0054288	.000241	4.525435

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003230	11.15638	.0001179	-.000099	.0602064	-.001114	.0017519
Stddev	.0009063	.12444	.0000804	.000225	.0124422	.010444	.0003115
%RSD	280.5494	1.115379	68.19660	227.0322	20.66582	937.5037	17.78268
#1	-.000268	11.01272	.0000354	.000024	.0515515	.010565	.0016150
#2	.001366	11.23072	.0001223	-.000358	.0546028	-.009557	.0021085
#3	-.000129	11.22569	.0001960	.000038	.0744650	-.004351	.0015323

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068043	-.000433	-.005454	.0005135	-.001059	.0028880	.0014521
Stddev	.0007099	.001793	.000456	.0005506	.003704	.0004702	.0010790
%RSD	10.43276	413.5652	8.360730	107.2247	349.8245	16.28015	74.30400
#1	.0064408	.001622	-.005089	.0000842	-.003261	.0024713	.0014080
#2	.0063498	-.001250	-.005965	.0003220	.003218	.0027949	.0003958
#3	.0076223	-.001673	-.005308	.0011342	-.003133	.0033977	.0025524

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSADLX20 Acquired: 6/23/2025 13:47:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002218	.0258789	.0042876
Stddev	.0035504	.0034717	.0000289
%RSD	1601.097	13.41502	.6734816
#1	-.000689	.0283296	.0042904
#2	-.002784	.0274010	.0043151
#3	.004139	.0219062	.0042575

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5091.073	40861.10	2294.187	3646.633	5525.717
Stddev	9.598	191.23	6.353	29.942	5.041
%RSD	.1885176	.4679998	.2769067	.8210996	.0912332
#1	5098.640	40651.86	2293.406	3614.505	5531.537
#2	5094.302	40904.62	2288.261	3673.761	5522.881
#3	5080.278	41026.81	2300.894	3651.633	5522.731

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSABDLX20 Acquired: 6/23/2025 13:52:02 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**-.001528**	**.0045494**	**.0033533**	**-.003998**	**.0335490**	**12.57227**	**.0255874**
Stddev	.001577	.0014988	.0007742	.002936	.0036121	.03041	.0016508
%RSD	103.2430	32.94618	23.08613	73.44278	10.76669	.2418645	6.451410
#1	-.001924	.0034898	.0040195	-.005824	.0373448	12.53811	.0238489
#2	-.002869	.0038941	.0035365	-.000611	.0301540	12.59639	.0257796
#3	.000210	.0062643	.0025040	-.005559	.0331482	12.58231	.0271335

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0262672**	**.0495769**	**11.69079**	**.0276407**	**.0308501**	**.0264779**	**5.052422**
Stddev	.0001687	.0001125	.06861	.0006310	.0001736	.0001362	.015881
%RSD	.6420822	.2269028	.5869091	2.283027	.5627290	.5145324	.3143286
#1	.0262410	.0496777	11.71659	.0271132	.0306908	.0266039	5.058480
#2	.0264474	.0494556	11.61301	.0274692	.0308242	.0264964	5.064382
#3	.0261131	.0495975	11.74276	.0283398	.0310351	.0263333	5.034403

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254053**	**12.56707**	**.0500297**	**.0095922**	**.0536653**	**.0259088**	**.0493531**
Stddev	.0008358	.05866	.0004218	.0010877	.0080115	.0121983	.0001629
%RSD	3.289724	.4667386	.8430248	11.33992	14.92873	47.08146	.3300396
#1	.0252303	12.52039	.0499145	.0108246	.0489949	.0234531	.0492682
#2	.0246709	12.63291	.0504971	.0091855	.0490850	.0151253	.0492502
#3	.0263147	12.54790	.0496776	.0087663	.0629161	.0391481	.0495409

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067859**	**-.000836**	**-.005592**	**.0010853**	**.0016363**	**-.003037**	**.0007392**
Stddev	.0011271	.001356	.000717	.0004335	.0028465	.001526	.0007085
%RSD	16.61004	162.2766	12.81931	39.94000	173.9557	50.24698	95.84566
#1	.0063333	-.002321	-.005665	.0013445	.0024805	-.004669	.0007585
#2	.0059553	-.000523	-.006269	.0005849	-.001537	-.002795	.0014378
#3	.0080689	.000336	-.004841	.0013265	.003965	-.001646	.0000213

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: ICSABDLX20 Acquired: 6/23/2025 13:52:02 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000528	.0269877	.0048021
Stddev	.000965	.0011495	.0000812
%RSD	182.7804	4.259329	1.692063
#1	.000103	.0271823	.0047135
#2	-.001639	.0257534	.0048196
#3	-.000048	.0280275	.0048731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5039.487	40655.09	2293.740	3640.790	5466.477
Stddev	59.238	214.77	5.014	13.280	45.655
%RSD	1.175484	.5282659	.2185872	.3647643	.8351845
#1	4971.224	40579.00	2294.909	3628.411	5413.876
#2	5069.843	40897.54	2298.067	3654.817	5495.816
#3	5077.396	40488.73	2288.246	3639.140	5489.739

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV01 Acquired: 6/23/2025 13:56:23 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.137654**	**5.118622**	**5.160520**	**5.015564**	**4.922837**	**10.11820**	**9.941372**
Stddev	.005674	.012114	.004002	.002114	.007543	.06755	.036577
%RSD	.1104374	.2366574	.0775502	.0421428	.1532208	.6676213	.3679249
#1	5.142549	5.104744	5.155977	5.016681	4.929866	10.14935	9.977098
#2	5.131436	5.124047	5.162062	5.016885	4.923775	10.04069	9.904000
#3	5.138977	5.127075	5.163522	5.013126	4.914868	10.16455	9.943019

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499989**	**2.580635**	**24.02457**	**.9883847**	**2.579307**	**1.243366**	**4.900180**
Stddev	.0010484	.002971	.13461	.0057760	.002075	.006266	.032900
%RSD	.4193465	.1151316	.5602906	.5843920	.0804369	.5039883	.6713964
#1	.2489032	2.577204	24.17660	.9950460	2.576973	1.236133	4.920042
#2	.2509924	2.582381	23.92053	.9847669	2.580006	1.247142	4.918295
#3	.2501012	2.582319	23.97659	.9853411	2.580942	1.246824	4.862205

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.452325**	**24.53459**	**2.567787**	**1.225880**	**24.49116**	**2.436499**	**2.448055**
Stddev	.004317	.06017	.001610	.003031	.08565	.003617	.001523
%RSD	.1760193	.2452488	.0626863	.2472425	.3497083	.1484464	.0621974
#1	2.457235	24.47318	2.565933	1.229378	24.39763	2.432918	2.447423
#2	2.450611	24.59344	2.568825	1.224031	24.51010	2.436428	2.449792
#3	2.449129	24.53715	2.568604	1.224232	24.56575	2.440151	2.446950

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.61317**	**5.163119**	**4.977646**	**5.020769**	**5.160044**	**4.937251**	**5.179876**
Stddev	.03742	.004245	.030201	.004911	.008388	.030041	.005462
%RSD	.1584641	.0822252	.6067255	.0978231	.1625507	.6084515	.1054464
#1	23.63108	5.164449	4.942965	5.024643	5.151086	4.903948	5.173779
#2	23.57016	5.158367	4.991827	5.022418	5.161337	4.945497	5.184321
#3	23.63827	5.166539	4.998147	5.015245	5.167711	4.962307	5.181530

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV01 Acquired: 6/23/2025 13:56:23 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.927414**	**5.008769**	**4.923933**
Stddev	.026734	.001949	.019261
%RSD	.5425646	.0389101	.3911694
#1	4.958172	5.010484	4.943777
#2	4.914307	5.009173	4.905313
#3	4.909761	5.006650	4.922709

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4912.779**	**39502.48**	**2240.870**	**3526.011**	**5017.965**
Stddev	18.531	206.08	4.123	14.010	15.058
%RSD	.3772088	.5216847	.1840107	.3973304	.3000819
#1	4904.004	39276.76	2244.033	3515.191	5011.759
#2	4900.265	39550.12	2236.206	3521.006	5007.002
#3	4934.068	39680.57	2242.370	3541.836	5035.134

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB01 Acquired: 6/23/2025 14:05:14 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001593**	**-.000022**	**.0010842**	**-.002239**	**-.001022**	**.0120721**
Stddev	.000840	.003006	.0010985	.001385	.002160	.0173821
%RSD	52.73211	13630.32	101.3198	61.82760	211.3264	143.9849
#1	-.002561	.003150	.0022126	-.000828	-.003482	-.002577
#2	-.001172	-.002829	.0010217	-.003595	-.000152	.031279
#3	-.001047	-.000387	.0000183	-.002295	.000567	.007514

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005639**	**.0000805**	**-.000072**	**.0542127**	**.0001144**	**-.000204**
Stddev	.0003246	.0000229	.000004	.0050703	.0008004	.000424
%RSD	57.55711	28.48810	5.292481	9.352539	700.0014	207.9473
#1	.0005508	.0000541	-.000070	.0506182	-.000206	-.000369
#2	.0002461	.0000958	-.000070	.0600121	-.000476	.000278
#3	.0008949	.0000915	-.000076	.0520077	.001025	-.000521

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005916**	**.0009149**	**-.000798**	**-.034713**	**.0000697**	**.0002539**
Stddev	.0006452	.0009722	.001204	.016679	.0004012	.0011366
%RSD	109.0644	106.2665	150.8742	48.04823	575.7636	447.6916
#1	.0012837	.0017698	-.001760	-.053812	.0005265	.0015461
#2	.0004840	-.000143	.000553	-.027312	-.000225	-.000591
#3	.0000069	.001117	-.001187	-.023015	-.000092	-.000194

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0472014**	**-.000488**	**-.000766**	**.0061768**	**-.001422**	**.0014061**
Stddev	.0144402	.005935	.000354	.0012165	.002785	.0022761
%RSD	30.59278	1216.579	46.15378	19.69415	195.9357	161.8790
#1	.0320262	.005938	-.000749	.0063560	-.001663	.0040041
#2	.0488052	-.001637	-.000422	.0048807	-.004079	.0004509
#3	.0607727	-.005764	-.001128	.0072938	.001476	-.000237

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB01 Acquired: 6/23/2025 14:05:14 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002821	-.005302	-.002003	.0001309	-.000980	F .0304073
Stddev	.0001130	.000523	.001109	.0004437	.001143	.0057331
%RSD	40.05959	9.857353	55.39107	339.0377	116.6848	18.85420
#1	.0004087	-.004772	-.002409	-.000328	.000240	.0308353
#2	.0002465	-.005817	-.000748	.000558	-.002027	.0359144
#3	.0001912	-.005317	-.002852	.000163	-.001152	.0244723

Elem	Sr4077
Units	ppm
Avg	-.000199
Stddev	.000091
%RSD	45.73875
#1	-.000107
#2	-.000202
#3	-.000289

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5079.596	41142.11	2278.063	3638.618	5720.404
Stddev	19.025	165.46	5.228	15.257	18.351
%RSD	.3745282	.4021615	.2294891	.4193054	.3207906
#1	5063.147	41325.49	2277.212	3655.622	5700.691
#2	5075.210	41096.88	2283.664	3634.107	5723.532
#3	5100.430	41003.98	2273.312	3626.125	5736.990

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2347-01 Acquired: 6/23/2025 14:09:42 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0746803**	**-.022785**	**.3225399**	**.0860455**	**.0225807**	**114.7966**	**.9913349**
Stddev	.0053272	.001021	.0011351	.0029901	.0003028	.2269	.0030751
%RSD	7.133319	4.482794	.3519168	3.475027	1.340907	.1976820	.3102017
#1	.0798723	-.021606	.3236771	.0843070	.0227561	115.0361	.9929515
#2	.0749411	-.023398	.3225356	.0894981	.0222310	114.7689	.9932645
#3	.0692275	-.023352	.3214070	.0843313	.0227548	114.5848	.9877886

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125394**	**.0006340**	**29.05335**	**.2366593**	**.2060188**	**.7002187**	**272.8016**
Stddev	.0000387	.0001276	.20662	.0006707	.0004444	.0050409	.5189
%RSD	.3088692	20.12660	.7111802	.2834020	.2156930	.7198966	.1901944
#1	.0125730	.0006237	29.21771	.2364421	.2065239	.7051183	273.0780
#2	.0124970	.0005119	29.12095	.2374118	.2056879	.7004903	273.1236
#3	.0125482	.0007665	28.82140	.2361242	.2058447	.6950476	272.2030

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.410331**	**67.72929**	**.3472875**	**-.000041**	**7.420079**	**.3557710**	**.8015835**
Stddev	.024698	.15691	.0008144	.000392	.041939	.0057429	.0026932
%RSD	.2624578	.2316733	.2344902	958.9071	.5652060	1.614211	.3359798
#1	9.412039	67.87643	.3469390	.000245	7.467990	.3494284	.8010313
#2	9.434130	67.74729	.3482181	.000120	7.402233	.3606184	.8045100
#3	9.384823	67.56416	.3467054	-.000488	7.390016	.3572663	.7992093

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.80930**	**11.99309**	**.0418955**	**.0042344**	**.4810720**	**7.047787**	**.0225003**
Stddev	.01361	.01352	.0013196	.0002751	.0047536	.049423	.0013133
%RSD	.0723645	.1126988	3.149752	6.496973	.9881351	.7012575	5.836622
#1	18.82047	12.00250	.0404155	.0041827	.4863913	7.100375	.0232569
#2	18.79414	11.99916	.0423217	.0039889	.4772393	7.040690	.0209839
#3	18.81328	11.97760	.0429493	.0045317	.4795854	7.002296	.0232602

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2347-01 Acquired: 6/23/2025 14:09:42 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.606287**	**.2494895**	**.1276036**
Stddev	.018612	.0038213	.0001697
%RSD	.3319798	1.531661	.1329786
#1	5.607432	.2461600	.1277639
#2	5.624300	.2536619	.1276212
#3	5.587130	.2486464	.1274259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6474.152**	**52163.38**	**3052.008**	**4708.739**	**4857.661**
Stddev	7.185	128.83	19.052	14.294	4.296
%RSD	.1109855	.2469785	.6242288	.3035527	.0884479
#1	6468.232	52293.28	3030.306	4723.979	4860.932
#2	6482.146	52161.23	3065.979	4706.607	4859.257
#3	6472.077	52035.64	3059.738	4695.631	4852.795

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-01 Acquired: 6/23/2025 14:14:04 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4062525**	**-.004094**	**.1666343**	**.0653282**	**.0185769**	**108.4798**
Stddev	.0014089	.001047	.0014836	.0000735	.0011355	.3730
%RSD	.3467990	25.57604	.8903477	.1125567	6.112425	.3438029
#1	.4048981	-.003820	.1664323	.0652435	.0176078	108.9102
#2	.4077102	-.003212	.1652621	.0653751	.0182966	108.2512
#3	.4061492	-.005251	.1682086	.0653661	.0198263	108.2781

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8927395**	**.0324479**	**.0071688**	**57.66638**	**.2730573**	**.3176564**
Stddev	.0025999	.0001980	.0001890	.22788	.0011862	.0009317
%RSD	.2912225	.6102323	2.635683	.3951702	.4343999	.2933096
#1	.8952533	.0326174	.0069514	57.87107	.2721975	.3167195
#2	.8929039	.0322303	.0072933	57.42083	.2744106	.3176670
#3	.8900614	.0324960	.0072618	57.70723	.2725640	.3185828

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0843807**	**234.5403**	**3.022998**	**88.56291**	**.3324922**	**-.000868**
Stddev	.0009667	.6820	.010434	.42431	.0012581	.000544
%RSD	1.145681	.2907997	.3451664	.4791089	.3783775	62.73762
#1	.0853134	235.3222	3.034650	89.03862	.3314534	-.001004
#2	.0833832	234.2306	3.014518	88.22348	.3321322	-.001331
#3	.0844454	234.0680	3.019826	88.42663	.3338911	-.000268

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.52460**	**.3951094**	**.4461915**	**21.79894**	F **26.38330**	**.0500908**
Stddev	.20695	.0034342	.0015458	.17007	.05574	.0033115
%RSD	.8797261	.8691795	.3464355	.7801833	.2112542	6.611071
#1	23.70388	.3989832	.4473068	21.98478	26.33171	.0501641
#2	23.29813	.3939067	.4468407	21.65106	26.37578	.0533651
#3	23.57178	.3924383	.4444270	21.76096	26.44242	.0467432

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-01 Acquired: 6/23/2025 14:14:04 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093415	3.394857	1.820300	.0191935	.5036568	.0984104
Stddev	.0003516	.011155	.023711	.0008462	.0017178	.0043118
%RSD	3.764204	.3285925	1.302585	4.408539	.3410628	4.381415
#1	.0097000	3.394554	1.840875	.0199075	.5019030	.1019279
#2	.0089972	3.383856	1.794369	.0182589	.5053362	.0936001
#3	.0093272	3.406160	1.825656	.0194142	.5037313	.0997031

Elem	Sr4077
Units	ppm
Avg	.4664882
Stddev	.0014625
%RSD	.3135141
#1	.4681698
#2	.4655130
#3	.4657817

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8678.951	68571.21	4103.229	6198.408	4865.014
Stddev	36.688	420.14	29.279	40.094	26.644
%RSD	.4227290	.6127115	.7135603	.6468395	.5476741
#1	8699.417	68524.57	4073.302	6200.062	4884.595
#2	8700.842	68176.33	4131.814	6157.513	4875.774
#3	8636.595	69012.72	4104.569	6237.649	4834.672

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-01 Acquired: 6/23/2025 14:18:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008268**	**-.000307**	**.0135153**	**-.001083**	**.0008939**	**1.099137**	**.0072388**
Stddev	.001547	.000735	.0004056	.001812	.0008869	.011132	.0013579
%RSD	18.71261	239.0759	3.001285	167.3427	99.22024	1.012765	18.75867
#1	-.006718	.000514	.0139812	-.001903	.0018500	1.086556	.0078564
#2	-.009813	-.000904	.0132406	-.002338	.0007336	1.107708	.0056819
#3	-.008273	-.000533	.0133242	.000994	.0000980	1.103147	.0081782

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000462**	**.0007119**	**3.348490**	**.0083677**	**.0023081**	**.0051366**	**.6681451**
Stddev	.0000669	.0000617	.033297	.0003100	.0002494	.0001808	.0106781
%RSD	144.8050	8.664487	.9943872	3.705186	10.80497	3.519260	1.598165
#1	.0000741	.0006548	3.323668	.0081046	.0022626	.0052725	.6776758
#2	.0000947	.0007035	3.335475	.0087095	.0020847	.0052059	.6701544
#3	-.000030	.0007773	3.386329	.0082891	.0025772	.0049315	.6566051

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093455**	**2.557623**	**.0027718**	**.0004507**	**.2616807**	**.0007925**	**.1842359**
Stddev	.0012815	.013768	.0000583	.0007297	.0124873	.0067306	.0001760
%RSD	13.71203	.5383259	2.103597	161.9041	4.771964	849.2623	.0955166
#1	.0079684	2.569257	.0027074	-.000351	.2654259	-.000600	.1841982
#2	.0105028	2.561189	.0027871	.000627	.2718668	-.005133	.1844277
#3	.0095653	2.542422	.0028210	.001076	.2477494	.008111	.1840819

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0862408**	**.1715282**	**-.001652**	**.0010879**	**.3504113**	**.9228179**	**.0112758**
Stddev	.0014717	.0006896	.001062	.0005619	.0013150	.0064000	.0007880
%RSD	1.706548	.4020577	64.26419	51.64618	.3752751	.6935304	6.988132
#1	.0853514	.1723123	-.000734	.0006169	.3495074	.9212926	.0121239
#2	.0854315	.1712568	-.002815	.0017099	.3498067	.9173184	.0111371
#3	.0879396	.1710157	-.001407	.0009370	.3519199	.9298428	.0105664

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-01 Acquired: 6/23/2025 14:18:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0089000	.0268297	.0030633
Stddev	.0042066	.0040294	.0000283
%RSD	47.26477	15.01852	.9238344
#1	.0041470	.0270818	.0030595
#2	.0121438	.0226801	.0030371
#3	.0104092	.0307271	.0030933

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5340.835	43489.66	2376.590	3831.996	5915.817
Stddev	12.970	399.33	1.003	22.309	16.504
%RSD	.2428453	.9182099	.0422078	.5821665	.2789748
#1	5336.837	43310.96	2377.600	3829.212	5905.949
#2	5355.334	43210.89	2376.576	3811.211	5934.869
#3	5330.335	43947.13	2375.594	3855.566	5906.632

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-03 Acquired: 6/23/2025 14:22:48 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6060822**	**-.003134**	**.1079182**	**.0236429**	**.0080829**	**85.22852**	**.6136807**
Stddev	.0037934	.001850	.0022896	.0023437	.0011280	.15418	.0023527
%RSD	.6258906	59.05157	2.121634	9.912857	13.95585	.1809043	.3833686
#1	.6101114	-.004345	.1062257	.0226948	.0091942	85.22323	.6136479
#2	.6025796	-.001004	.1105234	.0263120	.0069388	85.38528	.6160495
#3	.6055555	-.004052	.1070055	.0219217	.0081156	85.07706	.6113446

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068788**	**.0051655**	**35.78818**	**.0533920**	**.0490594**	**.1123886**	**97.52448**
Stddev	.0001178	.0001226	.12509	.0002715	.0002221	.0004860	.22445
%RSD	1.712769	2.374296	.3495235	.5084087	.4527255	.4324473	.2301479
#1	.0067438	.0050239	35.65762	.0534620	.0490189	.1122731	97.37575
#2	.0069607	.0052362	35.79995	.0536215	.0492990	.1129220	97.78266
#3	.0069321	.0052364	35.90696	.0530924	.0488605	.1119708	97.41503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7870480**	**17.21117**	**.0906728**	**.0014490**	**14.82952**	**.1829165**	**7.689322**
Stddev	.0041442	.04117	.0006284	.0006651	.12624	.0054974	.018302
%RSD	.5265515	.2392306	.6930168	45.89855	.8512483	3.005438	.2380187
#1	.7827284	17.25866	.0907683	.0009667	14.70713	.1779225	7.706731
#2	.7874245	17.18953	.0912480	.0022076	14.95928	.1820198	7.690993
#3	.7909912	17.18533	.0900022	.0011725	14.82215	.1888071	7.670241

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.13287**	**2.884891**	**.0394615**	**.0341049**	**2.720037**	**11.69355**	**.0130607**
Stddev	.11661	.010735	.0025115	.0005391	.006999	.11363	.0012819
%RSD	.7705693	.3721214	6.364460	1.580826	.2573240	.9716980	9.814771
#1	15.00745	2.872833	.0403194	.0341585	2.712171	11.62110	.0124836
#2	15.15315	2.893409	.0366334	.0346152	2.725579	11.82451	.0145297
#3	15.23800	2.888431	.0414317	.0335410	2.722360	11.63505	.0121688

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-03 Acquired: 6/23/2025 14:22:48 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.6869061**	**.0439475**	**.6377510**
Stddev	.0003101	.0033402	.0014497
%RSD	.0451414	7.600551	.2273070
#1	.6871046	.0419283	.6375420
#2	.6870650	.0478031	.6392938
#3	.6865488	.0421112	.6364172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5682.966**	**45762.25**	**2621.178**	**4095.594**	**5227.593**
Stddev	6.539	263.69	13.064	20.462	11.461
%RSD	.1150645	.5762199	.4984010	.4996156	.2192348
#1	5690.341	45573.03	2633.864	4077.455	5239.789
#2	5677.877	46063.45	2607.766	4117.776	5217.047
#3	5680.680	45650.28	2621.903	4091.552	5225.943

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168553BL Acquired: 6/23/2025 14:27:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003775**	**.0004565**	**.0000263**	**-.001085**	**.0004983**	**.0090209**
Stddev	.001316	.0006018	.0005231	.001645	.0028250	.0204019
%RSD	34.87033	131.8301	1986.341	151.5720	566.9023	226.1643
#1	-.002391	.0007104	-.000234	-.002713	-.002361	.0174847
#2	-.005011	.0008898	-.000316	-.001119	.000568	.0238287
#3	-.003923	-.000231	.000629	.000576	.003288	-.014251

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016474**	**.0000064**	**-.000099**	**-.033733**	**-.000443**	**.0000459**
Stddev	.0018843	.0000685	.000070	.007275	.000387	.0002220
%RSD	114.3789	1071.858	71.28333	21.56813	87.46694	483.8616
#1	.0015926	-.000011	-.000078	-.039602	-.000125	.0003020
#2	-.000209	.000082	-.000177	-.025593	-.000329	-.000092
#3	.003559	-.000052	-.000041	-.036004	-.000875	-.000072

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008763**	**.0197437**	**.0005290**	**-.008031**	**-.000180**	**.0003249**
Stddev	.0003516	.0134331	.0004956	.022291	.000691	.0007831
%RSD	40.12196	68.03746	93.67591	277.5659	382.8108	241.0262
#1	.0007743	.0188331	.0001324	.005230	.000602	-.000577
#2	.0005870	.0067890	.0003702	.004444	-.000439	.000715
#3	.0012676	.0336089	.0010845	-.033767	-.000704	.000837

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0483261**	**.0001776**	**-.000121**	**.0067151**	**-.001985**	**-.005313**
Stddev	.0131085	.0042961	.000463	.0005032	.000298	.001468
%RSD	27.12520	2418.376	381.7069	7.493967	15.01646	27.62670
#1	.0502582	.0051235	.000110	.0061896	-.001714	-.006900
#2	.0603613	-.001963	-.000654	.0067632	-.001937	-.005033
#3	.0343587	-.002628	.000181	.0071926	-.002304	-.004005

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168553BL Acquired: 6/23/2025 14:27:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001124	-.002992	.0008764	-.000330	-.000252	F .0304736
Stddev	.0002162	.001264	.0002336	.000740	.002089	.0019724
%RSD	192.3996	42.23196	26.65585	224.2362	830.3592	6.472587
#1	.0003534	-.003601	.0010191	-.000537	-.000618	.0291027
#2	-.000065	-.001539	.0010034	.000491	-.002134	.0295839
#3	.000048	-.003836	.0006068	-.000945	.001997	.0327341

Elem	Sr4077
Units	ppm
Avg	-.000019
Stddev	.000114
%RSD	589.6654
#1	-.000121
#2	.000104
#3	-.000041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5156.282	42037.72	2334.829	3714.283	5795.768
Stddev	3.260	96.30	15.076	13.255	5.961
%RSD	.0632166	.2290893	.6457086	.3568589	.1028568
#1	5157.053	41927.01	2350.124	3704.972	5801.579
#2	5159.088	42083.97	2334.382	3708.418	5789.667
#3	5152.706	42102.17	2319.982	3729.458	5796.058

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168553BS Acquired: 6/23/2025 14:31:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7598244	2.111122	.9927048	2.004726	.7803081	2.152359	.2082981
Stddev	.0012927	.002068	.0020021	.004134	.0014978	.030439	.0013032
%RSD	.1701364	.0979744	.2016866	.2062209	.1919486	1.414225	.6256350
#1	.7594821	2.109014	.9910195	2.000551	.7801968	2.181798	.2097924
#2	.7612538	2.113148	.9949180	2.004808	.7788690	2.121010	.2077048
#3	.7587371	2.111204	.9921770	2.008818	.7818584	2.154269	.2073972

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2131928	.1974703	1.076690	.4039263	.2029276	.3274531	3.202908
Stddev	.0028625	.0003104	.011761	.0010527	.0010330	.0047868	.048196
%RSD	1.342685	.1571858	1.092317	.2606227	.5090444	1.461840	1.504745
#1	.2164927	.1971196	1.090267	.4045614	.2024755	.3329783	3.245810
#2	.2113786	.1975815	1.070159	.4045064	.2041095	.3248263	3.212154
#3	.2117072	.1977097	1.069643	.4027112	.2021977	.3245548	3.150759

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2075055	2.063123	.5092612	.0749722	2.854635	.3019993	.2052107
Stddev	.0011689	.053728	.0005431	.0005148	.024441	.0029875	.0006257
%RSD	.5632887	2.604196	.1066359	.6865945	.8561822	.9892428	.3049129
#1	.2074529	2.098141	.5086349	.0749032	2.881870	.2996276	.2059328
#2	.2086998	2.001263	.5095470	.0755180	2.847425	.3010157	.2048289
#3	.2063638	2.089964	.5096016	.0744955	2.834611	.3053546	.2048704

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.182927	5.734417	.2997566	.3969674	-.003614	.9102131	.6840250
Stddev	.080707	.006314	.0034272	.0009729	.001616	.0136904	.0004399
%RSD	.9862846	.1101034	1.143338	.2450956	44.70540	1.504083	.0643170
#1	8.268446	5.729064	.3035339	.3958589	-.001865	.9258948	.6835454
#2	8.172240	5.741379	.2968457	.3976800	-.005050	.9006429	.6841200
#3	8.108097	5.732806	.2988903	.3973633	-.003927	.9041018	.6844097

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168553BS Acquired: 6/23/2025 14:31:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1919862	.2346230	.2027940
Stddev	.0025592	.0058041	.0020772
%RSD	1.333016	2.473798	1.024272
#1	.1933092	.2411530	.2051020
#2	.1936132	.2326644	.2010748
#3	.1890363	.2300516	.2022052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5068.178	41352.74	2264.671	3671.492	5590.806
Stddev	3.441	388.21	20.604	30.474	8.232
%RSD	.0678983	.9387760	.9097851	.8300244	.1472351
#1	5071.344	41487.91	2242.406	3666.633	5596.868
#2	5064.515	40915.01	2268.544	3643.740	5581.435
#3	5068.675	41655.29	2283.064	3704.104	5594.115

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168535BL Acquired: 6/23/2025 14:36:02 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003687**	**-.000574**	**.0005224**	**.0020289**	**-.001155**	**-.003048**
Stddev	.001702	.001925	.0013564	.0024942	.001273	.007663
%RSD	46.15493	335.6259	259.6656	122.9327	110.2037	251.3894
#1	-.005412	-.002622	-.000940	.0020117	-.001088	-.010662
#2	-.002009	.001199	.001739	.0045317	-.002461	.004663
#3	-.003640	-.000298	.000768	-.000457	.000083	-.003145

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013652**	**.0001712**	**-.000056**	**-.023462**	**.0001331**	**-.000245**
Stddev	.0007637	.0000972	.000075	.020976	.0003624	.000546
%RSD	55.93778	56.79664	134.4684	89.40118	272.3501	223.3963
#1	.0009409	.0000783	-.000006	-.046703	-.000193	-.000087
#2	.0022468	.0001631	-.000020	-.005936	.000068	.000205
#3	.0009079	.0002722	-.000142	-.017748	.000523	-.000853

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005623**	**-.005507**	**.0005449**	**-.028447**	**-.000200**	**.0004916**
Stddev	.0000982	.010984	.0006676	.036787	.000306	.0004175
%RSD	17.46344	199.4320	122.5261	129.3174	153.2167	84.93384
#1	.0004493	-.015554	.0000449	-.053393	-.000077	.0008613
#2	.0006264	-.007188	.0013031	-.045749	-.000549	.0000387
#3	.0006113	.006220	.0002867	.013801	.000026	.0005748

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095393**	**-.003183**	**-.000999**	**.0059091**	**-.001622**	**-.004055**
Stddev	.0088841	.002327	.000373	.0009911	.002002	.000907
%RSD	93.13101	73.11572	37.34256	16.77246	123.4457	22.35866
#1	.0188610	-.005869	-.001413	.0053084	-.000469	-.003476
#2	.0011695	-.001776	-.000686	.0070530	-.003934	-.003590
#3	.0085875	-.001903	-.000900	.0053659	-.000463	-.005100

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168535BL Acquired: 6/23/2025 14:36:02 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000529**	**-.005095**	**-.001378**	**-.000036**	**-.002176**	F **.0174530**
Stddev	.0002933	.002495	.000423	.000775	.001966	.0055513
%RSD	554.3988	48.97022	30.67742	2156.387	90.36516	31.80693
#1	.0002904	-.002214	-.001858	-.000719	-.000786	.0238483
#2	.0001432	-.006543	-.001218	.000805	-.004425	.0138796
#3	-.000275	-.006527	-.001059	-.000194	-.001316	.0146310

Elem	Sr4077
Units	ppm
Avg	**-.000143**
Stddev	.000121
%RSD	84.40535
#1	-.000153
#2	-.000018
#3	-.000259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5069.833**	**41122.16**	**2242.259**	**3624.540**	**5734.761**
Stddev	25.459	213.05	5.886	17.155	27.024
%RSD	.5021581	.5180937	.2625038	.4732986	.4712339
#1	5072.126	40899.84	2238.370	3605.077	5738.493
#2	5094.067	41142.10	2239.376	3631.082	5759.726
#3	5043.305	41324.54	2249.030	3637.461	5706.066

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168535BS Acquired: 6/23/2025 14:40:31 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7562191**	**2.094899**	**.9876695**	**1.993718**	**.8020619**	**2.305505**	**.2063108**
Stddev	.0051976	.001999	.0035174	.007866	.0023160	.004943	.0010763
%RSD	.6873157	.0954290	.3561303	.3945493	.2887533	.2143970	.5216821
#1	.7502990	2.093607	.9916996	1.984985	.8045292	2.302450	.2074021
#2	.7600333	2.093889	.9852175	2.000248	.8017216	2.311207	.2052501
#3	.7583249	2.097202	.9860915	1.995920	.7999349	2.302856	.2062801

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2098994**	**.1967324**	**1.052766**	**.4036054**	**.2013666**	**.3209932**	**3.155590**
Stddev	.0029725	.0000762	.011814	.0012541	.0004404	.0049754	.038321
%RSD	1.416174	.0387180	1.122143	.3107172	.2187198	1.549998	1.214382
#1	.2125721	.1966449	1.065996	.4050185	.2017626	.3259115	3.134550
#2	.2066980	.1967837	1.049031	.4026249	.2014449	.3159627	3.132399
#3	.2104282	.1967687	1.043273	.4031728	.2008922	.3211053	3.199822

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2053498**	**2.018290**	**.5055945**	**.0757324**	**2.831180**	**.3017725**	**.2035018**
Stddev	.0024388	.006162	.0003242	.0002091	.035954	.0076797	.0007123
%RSD	1.187646	.3053152	.0641189	.2761481	1.269947	2.544861	.3500160
#1	.2079891	2.011510	.5054445	.0758546	2.867913	.2956798	.2035189
#2	.2031796	2.019807	.5059665	.0754910	2.796058	.2992387	.2027811
#3	.2048806	2.023551	.5053724	.0758518	2.829568	.3103989	.2042053

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.192001**	**5.707703**	**.2973291**	**.4068496**	**-.003879**	**.9223818**	**.7025052**
Stddev	.091122	.001965	.0050081	.0008353	.000989	.0135797	.0014148
%RSD	1.112326	.0344195	1.684376	.2053083	25.48934	1.472240	.2013911
#1	8.245201	5.707652	.3017249	.4061726	-.004010	.9345263	.7010471
#2	8.086785	5.709693	.2918771	.4077831	-.004795	.9077194	.7025961
#3	8.244017	5.705765	.2983853	.4065931	-.002831	.9248997	.7038723

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168535BS Acquired: 6/23/2025 14:40:31 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1971736	.2279868	.2017926
Stddev	.0025846	.0016089	.0006055
%RSD	1.310829	.7056927	.3000442
#1	.1963616	.2261545	.2016669
#2	.2000666	.2291685	.2012599
#3	.1950924	.2286375	.2024511

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5024.309	40387.04	2242.882	3596.536	5532.799
Stddev	7.585	80.42	23.165	6.600	11.016
%RSD	.1509679	.1991143	1.032814	.1835177	.1990986
#1	5017.203	40422.07	2219.265	3596.017	5525.442
#2	5023.427	40295.05	2265.567	3590.211	5527.491
#3	5032.296	40444.00	2243.815	3603.381	5545.464

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168514TB Acquired: 6/23/2025 14:44:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002371	-.002477	.0021265	.0002122	-.000061	.1049599	.0025635
Stddev	.002595	.002846	.0003736	.0027182	.002217	.0167607	.0004607
%RSD	109.4539	114.9217	17.56905	1280.751	3654.090	15.96864	17.97228
#1	-.005227	-.002499	.0021768	.0032985	-.002138	.0868567	.0020333
#2	-.000158	.000381	.0017303	-.001826	-.000318	.1199382	.0028665
#3	-.001728	-.005312	.0024724	-.000836	.002274	.1080847	.0027907

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000117	-.000064	-.044439	.0007066	-.000018	.0010401	-.003378
Stddev	.000075	.000023	.013414	.0009916	.000275	.0005395	.009353
%RSD	64.55282	35.41159	30.18450	140.3293	1573.681	51.87107	276.9060
#1	-.000124	-.000079	-.059690	.0001397	.000250	.0013735	.000526
#2	-.000038	-.000075	-.034472	.0018516	-.000300	.0013291	-.014050
#3	-.000188	-.000038	-.039155	.0001286	-.000003	.0004176	.003391

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125754	-.002285	.0015370	.0010650	402.6134	.0049128	.0007851
Stddev	.0016474	.035945	.0005286	.0002797	2.8896	.0019084	.0003752
%RSD	13.10029	1572.961	34.39061	26.26109	.7177189	38.84538	47.78920
#1	.0141801	.030078	.0009437	.0011085	399.8871	.0069459	.0010609
#2	.0108884	.004039	.0019577	.0007662	402.3105	.0031601	.0003579
#3	.0126576	-.040973	.0017096	.0013205	405.6425	.0046323	.0009364

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0957677	.0070350	-.002081	.0002737	.0641179	.0060500	.0030441
Stddev	.0010239	.0001182	.000534	.0002811	.0020336	.0011789	.0003142
%RSD	1.069161	1.680704	25.67096	102.7238	3.171715	19.48668	10.32214
#1	.0965692	.0069338	-.001465	.0002175	.0655547	.0068400	.0033953
#2	.0961197	.0070061	-.002412	.0005786	.0617910	.0066150	.0029475
#3	.0946142	.0071649	-.002366	.0000249	.0650082	.0046949	.0027896

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168514TB Acquired: 6/23/2025 14:44:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0017911	.0115744	.0001123
Stddev	.0040957	.0093995	.0000171
%RSD	228.6707	81.20979	15.18716
#1	-.000383	.0011549	.0001191
#2	.006515	.0194160	.0001250
#3	-.000759	.0141523	.0000929

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4754.845	37386.80	2211.246	3385.713	4834.213
Stddev	29.772	133.16	12.084	19.880	29.919
%RSD	.6261455	.3561624	.5464746	.5871638	.6189006
#1	4774.319	37291.95	2222.227	3396.878	4858.715
#2	4769.643	37539.03	2198.300	3397.500	4843.055
#3	4720.573	37329.43	2213.209	3362.761	4800.870

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168544TB Acquired: 6/23/2025 14:49:30 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006391**	**-.002429**	**.0004489**	**-.001816**	**-.000087**	**.0024030**	**.0003476**
Stddev	.000645	.002014	.0010285	.000844	.001600	.0072438	.0006176
%RSD	10.09150	82.93309	229.0860	46.44307	1848.245	301.4529	177.6926
#1	-.005667	-.002534	.0012480	-.001705	-.001888	-.004619	.0009003
#2	-.006903	-.000364	-.000711	-.002710	.000459	.009850	.0004614
#3	-.006603	-.004388	.000810	-.001034	.001170	.001978	-.000319

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**-.000089**	**-.054596**	**.0010138**	**-.000340**	**.0003696**	**-.004536**
Stddev	.000073	.000020	.015689	.0010714	.000659	.0008386	.008516
%RSD	101.9618	23.08834	28.73708	105.6849	193.4227	226.9203	187.7267
#1	.000012	-.000068	-.071355	.0005751	.000402	.0009566	.005258
#2	-.000105	-.000109	-.040259	.0002313	-.000571	.0007429	-.010189
#3	-.000122	-.000088	-.052174	.0022349	-.000853	-.000591	-.008678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005955**	**-.044149**	**.0017364**	**-.000141**	**445.6171**	**-.003349**	**-.000200**
Stddev	.0002959	.036171	.0002641	.000823	4.2744	.007602	.000346
%RSD	49.68643	81.92922	15.20750	585.3378	.9592068	226.9738	172.5728
#1	.0006992	-.010981	.0014427	-.000236	447.2342	-.011809	-.000389
#2	.0008256	-.038750	.0019541	-.000912	448.8470	.002910	-.000411
#3	.0002617	-.082717	.0018125	.000726	440.7701	-.001149	.000199

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0916720**	**.0058707**	**-.004354**	**.0004253**	**.0223720**	**-.000335**	**.0044718**
Stddev	.0009912	.0016372	.000527	.0000451	.0038330	.000538	.0003770
%RSD	1.081219	27.88682	12.09700	10.59373	17.13294	160.7444	8.430906
#1	.0927530	.0061986	-.004863	.0003768	.0255176	-.000755	.0040441
#2	.0914571	.0073192	-.003811	.0004334	.0234957	-.000520	.0047558
#3	.0908059	.0040945	-.004389	.0004658	.0181028	.000271	.0046154

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168544TB Acquired: 6/23/2025 14:49:30 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0004647	.0228609	-.000066
Stddev	.0017002	.0043346	.000178
%RSD	365.8231	18.96083	267.6278
#1	-.001491	.0255442	-.000265
#2	.001291	.0178602	.000078
#3	.001594	.0251783	-.000012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4764.260	37651.18	2274.637	3428.676	4810.732
Stddev	20.310	283.46	12.095	21.453	25.443
%RSD	.4263008	.7528492	.5317295	.6256921	.5288799
#1	4781.498	37934.14	2277.718	3445.924	4833.857
#2	4769.412	37652.17	2261.300	3435.451	4814.861
#3	4741.870	37367.23	2284.894	3404.654	4783.476

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV02 Acquired: 6/23/2025 14:54:07 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.119577**	**5.057434**	**5.124090**	**4.996738**	**4.895823**	**10.41588**	**10.02343**
Stddev	.007933	.018699	.006214	.005950	.007422	.03091	.01236
%RSD	.1549527	.3697297	.1212642	.1190855	.1515962	.2967430	.1233569
#1	5.113279	5.037006	5.117328	4.992320	4.899385	10.42651	10.02274
#2	5.116966	5.061591	5.125395	5.003504	4.900793	10.44007	10.03613
#3	5.128487	5.073704	5.129548	4.994389	4.887292	10.38106	10.01143

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2495505**	**2.566212**	**24.07751**	**.9889984**	**2.560908**	**1.239192**	**4.912766**
Stddev	.0022118	.004434	.11726	.0017882	.002913	.011782	.021103
%RSD	.8863115	.1728027	.4870135	.1808139	.1137466	.9508037	.4295477
#1	.2506540	2.561168	24.20255	.9875158	2.558405	1.248527	4.912899
#2	.2509935	2.567972	24.05997	.9884951	2.560215	1.243096	4.933802
#3	.2470041	2.569496	23.97000	.9909844	2.564106	1.225953	4.891597

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.474706**	**24.59015**	**2.546656**	**1.230644**	**24.09891**	**2.452904**	**2.439037**
Stddev	.007516	.04603	.001309	.003031	.17393	.005600	.005908
%RSD	.3037069	.1871689	.0513916	.2462941	.7217277	.2282994	.2422274
#1	2.473338	24.62281	2.548152	1.228558	24.24925	2.458874	2.445474
#2	2.482812	24.61013	2.545725	1.229253	24.13907	2.452072	2.433862
#3	2.467968	24.53751	2.546090	1.234121	23.90842	2.447767	2.437776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.29367**	**5.127778**	**4.958416**	**5.012011**	**5.129266**	**4.915510**	**5.148053**
Stddev	.34530	.011531	.043311	.004391	.009867	.040224	.007473
%RSD	1.482394	.2248685	.8734887	.0876174	.1923737	.8182981	.1451634
#1	23.59785	5.117988	4.995799	5.009348	5.120723	4.946649	5.140266
#2	23.36483	5.124858	4.968495	5.017079	5.127009	4.929786	5.155167
#3	22.91833	5.140488	4.910954	5.009605	5.140066	4.870096	5.148726

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV02 Acquired: 6/23/2025 14:54:07 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.996465**	**5.068408**	**4.991793**
Stddev	.011685	.014655	.011562
%RSD	.2338678	.2891530	.2316283
#1	4.998449	5.074424	4.992610
#2	5.007031	5.079098	5.002926
#3	4.983915	5.051702	4.979844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4949.496**	**39737.08**	**2264.364**	**3548.096**	**5086.977**
Stddev	11.352	93.55	20.356	11.954	7.478
%RSD	.2293475	.2354173	.8989590	.3369010	.1470081
#1	4948.752	39781.50	2247.255	3538.133	5086.665
#2	4938.534	39800.14	2258.962	3561.351	5079.660
#3	4961.201	39629.60	2286.876	3544.805	5094.606

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB02 Acquired: 6/23/2025 14:58:23 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002362**	**.0038189**	**.0001146**	**-.001256**	**-.001154**	**-.003963**
Stddev	.002145	.0009014	.0013811	.002166	.000904	.015392
%RSD	90.79603	23.60295	1204.964	172.4944	78.32183	388.3833
#1	-.003335	.0030137	.0016691	-.003749	-.002024	-.015053
#2	-.003848	.0047926	-.000971	.000163	-.001218	-.010446
#3	.000097	.0036502	-.000354	-.000181	-.000220	.013610

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003255**	**.0001211**	**-.000037**	**-.030267**	**.0001298**	**-.000416**
Stddev	.0007859	.0000790	.000067	.022084	.0007596	.000273
%RSD	241.4285	65.25515	179.8950	72.96485	585.0590	65.50892
#1	.0012329	.0001537	-.000087	-.051171	-.000747	-.000174
#2	-.000118	.0001787	.000039	-.007167	.000583	-.000711
#3	-.000138	.0000310	-.000062	-.032463	.000553	-.000364

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004277**	**-.017341**	**.0000211**	**-.069861**	**-.000027**	**.0003844**
Stddev	.0003513	.008470	.0005122	.044411	.000184	.0006056
%RSD	82.14384	48.84485	2428.227	63.57079	682.9097	157.5377
#1	.0000504	-.022798	-.000498	-.121121	-.000234	.0005215
#2	.0004873	-.021640	.000034	-.042911	.000116	.0009096
#3	.0007454	-.007583	.000526	-.045553	.000038	-.000278

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0490278**	**-.002608**	**-.000546**	**.0077703**	**-.003361**	**.0105930**
Stddev	.0137118	.003944	.000149	.0013224	.000837	.0011172
%RSD	27.96749	151.1995	27.33954	17.01855	24.90050	10.54622
#1	.0519882	-.001141	-.000388	.0086264	-.004294	.0095549
#2	.0340775	-.007075	-.000684	.0084372	-.003116	.0104490
#3	.0610176	.000391	-.000565	.0062472	-.002674	.0117752

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB02 Acquired: 6/23/2025 14:58:23 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002848**	**-.002615**	**.0006903**	**.0000880**	**-.001737**	F **.0494799**
Stddev	.0004257	.002296	.0018813	.0006630	.001012	.0032584
%RSD	149.4737	87.79476	272.5224	753.7868	58.29761	6.585377
#1	.0004638	-.001521	.0021863	-.000482	-.002899	.0500468
#2	-.000201	-.001071	.0013065	-.000069	-.001045	.0459752
#3	.000592	-.005254	-.001422	.000816	-.001266	.0524177

Elem	Sr4077
Units	ppm
Avg	**-.000224**
Stddev	.000024
%RSD	10.77833
#1	-.000224
#2	-.000249
#3	-.000200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5189.496**	**41761.89**	**2285.938**	**3695.674**	**5860.188**
Stddev	14.741	131.86	8.467	9.519	13.233
%RSD	.2840634	.3157444	.3703972	.2575591	.2258125
#1	5172.481	41906.33	2286.146	3697.627	5844.955
#2	5198.429	41731.39	2277.370	3704.064	5868.842
#3	5197.577	41647.96	2294.300	3685.330	5866.767

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168565BL Acquired: 6/23/2025 15:02:53 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002665	.0019764	-.000214	-.005490	-.000621	.0236035
Stddev	.002071	.0009120	.001747	.001470	.002069	.0120153
%RSD	77.70421	46.14235	815.5144	26.77928	333.4874	50.90491
#1	-.004550	.0029682	.000535	-.005062	-.000891	.0258987
#2	-.002996	.0011740	-.002211	-.007127	.001571	.0106061
#3	-.000449	.0017871	.001033	-.004282	-.002541	.0343057

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007159	.0000894	-.000071	-.014095	-.000045	.0000028
Stddev	.0006186	.0000866	.000055	.009254	.000718	.0000502
%RSD	86.40349	96.90497	76.77475	65.65900	1588.747	1793.698
#1	.0014243	.0001771	-.000060	-.003695	.000767	.0000564
#2	.0004412	.0000871	-.000131	-.017168	-.000309	-.000043
#3	.0002823	.0000039	-.000023	-.021421	-.000595	-.000005

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008841	-.010166	.0002916	-.040674	.0000736	.0003251
Stddev	.0003512	.002971	.0001459	.023210	.0001192	.0005613
%RSD	39.72275	29.23000	50.03179	57.06352	161.9390	172.6681
#1	.0012685	-.006836	.0004074	-.057063	.0000753	.0002982
#2	.0008038	-.012547	.0001277	-.050845	-.000046	-.000222
#3	.0005800	-.011115	.0003397	-.014115	.000192	.000899

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0523568	.0042924	-.000680	.0074595	-.001769	.0014676
Stddev	.0020596	.0028143	.000221	.0007347	.000838	.0011414
%RSD	3.933730	65.56425	32.45376	9.848688	47.38190	77.77400
#1	.0547269	.0014495	-.000451	.0078461	-.001611	.0001514
#2	.0513410	.0043505	-.000891	.0079202	-.001021	.0021853
#3	.0510024	.0070771	-.000697	.0066123	-.002674	.0020661

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168565BL Acquired: 6/23/2025 15:02:53 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001875**	**-.003361**	**.0009923**	**-.000559**	**-.000265**	F **.0444477**
Stddev	.0002075	.000747	.0035544	.002061	.001816	.0041565
%RSD	110.6390	22.23525	358.2012	368.9262	686.0269	9.351344
#1	.0003135	-.004220	.0050932	-.001431	.001831	.0492441
#2	-.000052	-.002866	-.001202	.001795	-.001257	.0421991
#3	.000301	-.002996	-.000914	-.002040	-.001368	.0419000

Elem	Sr4077
Units	ppm
Avg	**-.000206**
Stddev	.000355
%RSD	172.2376
#1	-.000101
#2	-.000601
#3	.000085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5120.128**	**41316.76**	**2264.022**	**3654.876**	**5768.475**
Stddev	16.088	50.92	8.234	13.620	13.183
%RSD	.3142038	.1232393	.3637099	.3726583	.2285385
#1	5102.876	41335.36	2261.376	3655.529	5756.551
#2	5122.790	41259.15	2257.436	3640.940	5766.241
#3	5134.719	41355.75	2273.255	3668.157	5782.632

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168565BS Acquired: 6/23/2025 15:07:22 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7397008**	**2.071615**	**.9688706**	**1.947965**	**.7763139**	**2.026172**	**.1978744**
Stddev	.0018307	.001725	.0014610	.006983	.0017277	.023054	.0014096
%RSD	.2474867	.0832837	.1507965	.3584532	.2225528	1.137823	.7123578
#1	.7379613	2.071329	.9673370	1.949410	.7745678	2.047604	.1978624
#2	.7395304	2.070050	.9702462	1.940372	.7780226	2.029129	.1964709
#3	.7416107	2.073465	.9690286	1.954111	.7763513	2.001781	.1992899

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2075620**	**.1932650**	**1.024943**	**.3979478**	**.1974233**	**.3179465**	**3.067224**
Stddev	.0014360	.0001910	.004758	.0010248	.0004928	.0023613	.016374
%RSD	.6918448	.0988085	.4642108	.2575282	.2496365	.7426731	.5338325
#1	.2066501	.1931617	1.030144	.3991236	.1976323	.3154603	3.061574
#2	.2068185	.1931480	1.020809	.3974755	.1968604	.3182201	3.054424
#3	.2092173	.1934854	1.023876	.3972443	.1977771	.3201591	3.085675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2001586**	**1.980787**	**.4959036**	**.0744129**	**2.830197**	**.2863786**	**.1981363**
Stddev	.0013337	.050980	.0001887	.0013306	.031729	.0069551	.0010403
%RSD	.6663038	2.573722	.0380551	1.788072	1.121088	2.428628	.5250369
#1	.1996091	2.034737	.4958762	.0728808	2.793577	.2943431	.1983330
#2	.1991875	1.933415	.4957301	.0752777	2.847535	.2815034	.1970118
#3	.2016792	1.974211	.4961045	.0750803	2.849480	.2832892	.1990643

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.033108**	**5.598744**	**.2972312**	**.3947245**	**-.000896**	**.9092302**	**.6858334**
Stddev	.098508	.009521	.0032020	.0007199	.001194	.0082785	.0008843
%RSD	1.226277	.1700494	1.077279	.1823852	133.2063	.9104933	.1289369
#1	7.951760	5.593827	.2943235	.3940764	.000360	.8996987	.6859915
#2	8.004928	5.592687	.2967072	.3954994	-.001032	.9133664	.6848807
#3	8.142635	5.609718	.3006629	.3945978	-.002016	.9146255	.6866279

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168565BS Acquired: 6/23/2025 15:07:22 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1920554	.2415806	.1974917
Stddev	.0012969	.0075135	.0008113
%RSD	.6752858	3.110158	.4107869
#1	.1926070	.2370361	.1975086
#2	.1929853	.2374525	.1966722
#3	.1905739	.2502531	.1982945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5062.319	40594.08	2240.374	3626.308	5555.529
Stddev	7.906	223.03	26.029	32.096	5.559
%RSD	.1561812	.5494200	1.161795	.8850813	.1000567
#1	5067.401	40661.78	2261.779	3640.684	5560.665
#2	5053.210	40775.42	2247.945	3648.702	5549.627
#3	5066.346	40345.05	2211.400	3589.537	5556.295

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168564BL Acquired: 6/23/2025 15:11:43 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002674**	**.0009800**	**-.000001**	**-.002170**	**-.001406**	**.0024687**
Stddev	.001142	.0002974	.000905	.001381	.000860	.0049768
%RSD	42.71078	30.34922	61643.71	63.61082	61.16615	201.5924
#1	-.001678	.0011076	.000686	-.000615	-.002136	.0057832
#2	-.003920	.0011924	.000337	-.002646	-.000458	-.003254
#3	-.002423	.0006401	-.001027	-.003250	-.001624	.004877

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000701**	**.0000973**	**.0000058**	**-.025141**	**.0002960**	**-.000069**
Stddev	.0007590	.0000875	.0000117	.006022	.0004340	.000086
%RSD	1082.735	89.91649	201.8435	23.95094	146.5950	123.4517
#1	-.000172	.0001427	.0000162	-.029195	.0002438	.000029
#2	-.000538	.0001528	.0000082	-.028007	-.000109	-.000118
#3	.000921	-.000004	-.000007	-.018222	.000754	-.000120

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008537**	**-.018882**	**-.000261**	**-.051323**	**.0000471**	**.0002148**
Stddev	.0005460	.016065	.000918	.016935	.0003898	.0005120
%RSD	63.95137	85.07639	352.0638	32.99663	827.5908	238.4170
#1	.0003969	-.018834	.000706	-.063623	.0000768	.0007401
#2	.0007058	-.002842	-.001119	-.032008	-.000357	-.000283
#3	.0014584	-.034971	-.000369	-.058338	.000421	.000187

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0568528**	**-.000329**	**-.000834**	**.0086571**	**-.002071**	**-.001606**
Stddev	.0023387	.005004	.000474	.0006387	.000916	.000713
%RSD	4.113547	1522.157	56.85202	7.377440	44.23896	44.35535
#1	.0585197	-.003174	-.001369	.0085377	-.001284	-.000952
#2	.0578594	-.003262	-.000666	.0093471	-.001853	-.002365
#3	.0541794	.005449	-.000466	.0080866	-.003077	-.001502

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168564BL Acquired: 6/23/2025 15:11:43 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000273	-.003880	-.001192	.0002181	-.001084	F .0323563
Stddev	.000213	.002527	.000655	.0003709	.003055	.0067901
%RSD	78.01339	65.12679	54.97355	170.0369	281.7605	20.98537
#1	-.000515	-.006513	-.001026	-.000160	.000918	.0279346
#2	-.000192	-.001475	-.000636	.000233	.000430	.0401745
#3	-.000113	-.003652	-.001914	.000582	-.004601	.0289599

Elem	Sr4077
Units	ppm
Avg	-.000149
Stddev	.000149
%RSD	100.2833
#1	.000014
#2	-.000181
#3	-.000279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5111.354	41264.19	2256.878	3653.472	5760.577
Stddev	7.572	230.25	23.226	28.762	9.945
%RSD	.1481358	.5579800	1.029114	.7872619	.1726382
#1	5118.783	41220.65	2273.327	3635.816	5767.190
#2	5111.631	41513.09	2230.309	3686.662	5765.399
#3	5103.647	41058.81	2266.997	3637.940	5749.140

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168564BS Acquired: 6/23/2025 15:16:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7480814**	**2.096968**	**.9804053**	**1.976493**	**.7773628**	**2.068586**	**.2004361**
Stddev	.0040542	.004306	.0019609	.005158	.0003545	.015137	.0008397
%RSD	.5419498	.2053447	.2000101	.2609439	.0456009	.7317379	.4189553
#1	.7450469	2.095673	.9781672	1.979878	.7773416	2.085239	.2008252
#2	.7526858	2.101773	.9818215	1.970557	.7777274	2.064856	.2010108
#3	.7465115	2.093458	.9812273	1.979045	.7770194	2.055663	.1994724

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2093616**	**.1950742**	**1.016962**	**.4003033**	**.1993280**	**.3199231**	**3.108342**
Stddev	.0020132	.0001842	.006204	.0025180	.0002301	.0032587	.016953
%RSD	.9616125	.0944251	.6100294	.6290327	.1154600	1.018595	.5453936
#1	.2074153	.1950278	1.023471	.3974428	.1991750	.3175322	3.127793
#2	.2114357	.1949175	1.011117	.4012824	.1992162	.3236349	3.096705
#3	.2092338	.1952771	1.016297	.4021848	.1995926	.3186023	3.100529

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2032122**	**2.006643**	**.5001870**	**.0744824**	**2.837615**	**.2910735**	**.2014804**
Stddev	.0016776	.049185	.0004648	.0009258	.023007	.0086353	.0007709
%RSD	.8255601	2.451089	.0929245	1.243025	.8107758	2.966720	.3826393
#1	.2032626	2.057727	.5004527	.0744881	2.828441	.2930559	.2007701
#2	.2048641	1.959607	.4996503	.0735538	2.863793	.2816194	.2013708
#3	.2015099	2.002596	.5004580	.0754054	2.820610	.2985453	.2023003

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.069469**	**5.667469**	**.2964649**	**.3936663**	**-.002304**	**.9071224**	**.6849863**
Stddev	.066208	.012099	.0028508	.0007272	.000790	.0101835	.0008423
%RSD	.8204810	.2134756	.9616067	.1847286	34.29145	1.122610	.1229640
#1	7.998057	5.661949	.2961944	.3941172	-.003216	.9010289	.6840205
#2	8.128813	5.659115	.2994413	.3928274	-.001886	.9188786	.6853701
#3	8.081537	5.681343	.2937589	.3940544	-.001811	.9014597	.6855684

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168564BS Acquired: 6/23/2025 15:16:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1878532	.2408236	.1998958
Stddev	.0019821	.0053175	.0010937
%RSD	1.055122	2.208066	.5471573
#1	.1899921	.2349918	.1990129
#2	.1874889	.2420756	.2011193
#3	.1860785	.2454034	.1995552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5088.237	40890.04	2262.519	3634.969	5581.796
Stddev	13.478	149.14	13.231	14.773	14.996
%RSD	.2648935	.3647284	.5848023	.4063998	.2686648
#1	5101.175	40905.61	2271.472	3627.852	5598.759
#2	5089.260	41030.77	2247.321	3651.953	5576.328
#3	5074.276	40733.72	2268.764	3625.103	5570.300

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-02 Acquired: 6/23/2025 15:20:33 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003286**	**-.001270**	**.0052902**	**-.006933**	**.0014890**	**.0677249**	**.1923443**
Stddev	.002170	.001746	.0012160	.002779	.0017808	.0103053	.0012405
%RSD	66.05122	137.4723	22.98614	40.08234	119.5974	15.21642	.6449575
#1	-.004685	-.003177	.0058402	-.003826	.0002276	.0748279	.1936438
#2	-.004387	-.000885	.0061339	-.007791	.0007133	.0724414	.1922164
#3	-.000786	.000251	.0038963	-.009182	.0035262	.0559054	.1911726

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010376**	**.0003513**	**18.50906**	**.0000434**	**.0127806**	**.0049597**	**.0007648**
Stddev	.0000538	.0000917	.06063	.0009782	.0002955	.0002300	.0047091
%RSD	5.181708	26.11330	.3275477	2254.341	2.312068	4.638123	615.7455
#1	.0010937	.0002891	18.55315	-.000351	.0128058	.0052043	.0055573
#2	.0009866	.0003082	18.53410	.001157	.0124734	.0047477	-.003856
#3	.0010325	.0004567	18.43992	-.000676	.0130628	.0049271	.000593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1348431**	**11.36954**	**.0054610**	**-.000033**	**307.4530**	**-.000976**	**.1035283**
Stddev	.0015083	.03292	.0005933	.000199	3.2469	.000692	.0004154
%RSD	1.118547	.2895883	10.86352	612.1152	1.056067	70.92218	.4012366
#1	.1331876	11.40721	.0058262	.000090	308.2190	-.000188	.1030581
#2	.1361393	11.35515	.0057804	.000075	310.2484	-.001486	.1036816
#3	.1352024	11.34625	.0047765	-.000263	303.8916	-.001255	.1038453

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.810807**	**.0984722**	**.0759189**	**.0012647**	**2.139540**	**4.885004**	**.0045751**
Stddev	.057422	.0020994	.0004579	.0001689	.002817	.042146	.0009631
%RSD	.8431056	2.131965	.6032136	13.35143	.1316657	.8627600	21.05159
#1	6.826044	.1001870	.0764031	.0014596	2.136313	4.898871	.0039066
#2	6.859074	.0990987	.0758610	.0011711	2.140796	4.918468	.0041396
#3	6.747303	.0961308	.0754927	.0011633	2.141510	4.837671	.0056791

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-02 Acquired: 6/23/2025 15:20:33 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019462	.0341243	.1329135
Stddev	.0024050	.0038110	.0002584
%RSD	123.5708	11.16792	.1944123
#1	-.000831	.0382484	.1328701
#2	.003349	.0333919	.1331909
#3	.003321	.0307327	.1326796

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4859.739	38186.15	2232.651	3472.465	4924.000
Stddev	12.629	95.45	18.950	6.986	12.796
%RSD	.2598628	.2499504	.8487827	.2011911	.2598670
#1	4851.443	38139.39	2227.297	3476.308	4912.633
#2	4874.273	38123.10	2216.954	3464.401	4937.858
#3	4853.502	38295.96	2253.703	3476.687	4921.508

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-02 Acquired: 6/23/2025 15:25:06 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004827	-.001291	.0050034	-.000003	.0017634	-.000444	.1382691
Stddev	.000226	.001089	.0008747	.001053	.0015475	.016990	.0019461
%RSD	4.674853	84.32930	17.48122	35234.90	87.75914	3824.298	1.407500
#1	-.005068	-.002522	.0041553	-.001131	-.000002	.016938	.1403010
#2	-.004621	-.000451	.0049526	.000167	.002405	-.017013	.1380844
#3	-.004791	-.000901	.0059024	.000955	.002887	-.001257	.1364219

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000889	-.000040	.7262470	.0000657	.0002772	.0038201	-.007400
Stddev	.0000589	.000020	.0041700	.0009993	.0004014	.0008156	.012843
%RSD	66.24563	48.84382	.5741905	1520.708	144.8312	21.35098	173.5668
#1	.0000699	-.000033	.7214337	.0003552	-.000153	.0046291	-.012364
#2	.0001550	-.000062	.7285380	-.001046	.000641	.0038331	.007185
#3	.0000419	-.000025	.7287694	.000888	.000344	.0029980	-.017020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035754	.0795815	.0023488	-.000633	295.5717	.0010765	.1584219
Stddev	.0006164	.0335206	.0002615	.000552	1.0863	.0073775	.0009239
%RSD	17.23936	42.12108	11.13286	87.20539	.3675363	685.2927	.5831571
#1	.0029227	.0522068	.0020663	-.001261	296.6692	.0090064	.1594885
#2	.0036561	.1169670	.0023975	-.000412	295.5489	-.000193	.1579072
#3	.0041475	.0695708	.0025824	-.000226	294.4969	-.005584	.1578700

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2189475	.0152266	.0419965	.0004368	.3317219	.0308991	.0024663
Stddev	.0001376	.0019198	.0005605	.0003214	.0027089	.0023203	.0005924
%RSD	.0628503	12.60800	1.334568	73.59206	.8166030	7.509393	24.02093
#1	.2191046	.0174339	.0419850	.0008029	.3300851	.0283570	.0025261
#2	.2188899	.0139458	.0425627	.0002011	.3348487	.0314372	.0018462
#3	.2188481	.0143001	.0414419	.0003063	.3302319	.0329031	.0030265

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2355-02 Acquired: 6/23/2025 15:25:06 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002388	.0187197	.0029245
Stddev	.0019777	.0050795	.0001488
%RSD	828.3724	27.13426	5.088877
#1	-.001719	.0180680	.0030793
#2	.000200	.0139976	.0027825
#3	.002236	.0240936	.0029117

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4928.218	38656.91	2250.291	3499.258	5048.592
Stddev	11.209	50.63	4.126	5.336	14.689
%RSD	.2274387	.1309729	.1833557	.1525005	.2909521
#1	4918.900	38713.92	2250.521	3503.414	5040.404
#2	4940.656	38639.63	2254.297	3493.240	5065.551
#3	4925.098	38617.18	2246.055	3501.120	5039.823

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-04 Acquired: 6/23/2025 15:29:43 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009226**	**.0020044**	**.0034432**	**-.003403**	**-.000447**	**.1430553**	**.4264918**
Stddev	.001977	.0006953	.0006911	.002100	.002351	.0100246	.0013870
%RSD	21.43017	34.68840	20.07236	61.70701	526.0489	7.007492	.3252166
#1	-.010108	.0027257	.0041463	-.001465	-.000553	.1490512	.4279908
#2	-.006961	.0013385	.0034186	-.005634	-.002743	.1486322	.4252539
#3	-.010609	.0019490	.0027647	-.003110	.001955	.1314824	.4262307

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002580**	**.0001977**	**7.768676**	**.0022910**	**.0087403**	**.2220263**	**2.375509**
Stddev	.0000958	.0000574	.021770	.0014173	.0004008	.0005965	.022860
%RSD	37.15639	29.02891	.2802267	61.86523	4.586110	.2686372	.9623036
#1	.0001675	.0002566	7.792377	.0038943	.0083561	.2226999	2.352836
#2	.0002479	.0001420	7.749571	.0012047	.0087088	.2215653	2.398551
#3	.0003584	.0001945	7.764079	.0017741	.0091559	.2218136	2.375139

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.777252**	**.5868459**	**.0030000**	**.0003356**	**331.2795**	**-.009201**	**.0881749**
Stddev	.009026	.0332573	.0001585	.0005937	1.3152	.002763	.0007698
%RSD	.2389549	5.667120	5.282569	176.9390	.3969942	30.03254	.8730479
#1	3.783309	.5732510	.0031821	.0000846	329.8189	-.007284	.0888257
#2	3.766878	.5625399	.0028932	.0010136	331.6501	-.012368	.0873251
#3	3.781568	.6247469	.0029247	-.000092	332.3697	-.007950	.0883739

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.488670**	**.0189927**	**.0238032**	**.0003158**	**.5502186**	**.8004455**	**.0028489**
Stddev	.026935	.0009402	.0011943	.0001008	.0022737	.0022452	.0005964
%RSD	.6000649	4.950517	5.017397	31.91962	.4132357	.2804871	20.93417
#1	4.519660	.0181989	.0247108	.0002450	.5476512	.8023773	.0033819
#2	4.475449	.0187483	.0224502	.0004311	.5519776	.7979823	.0022047
#3	4.470899	.0200311	.0242487	.0002711	.5510271	.8009768	.0029601

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-04 Acquired: 6/23/2025 15:29:43 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0012339	.0155254	.0541552
Stddev	.0030045	.0055242	.0001565
%RSD	243.4952	35.58205	.2889542
#1	-.000898	.0098425	.0541253
#2	-.000070	.0158577	.0540158
#3	.004670	.0208760	.0543244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4919.451	38834.99	2241.677	3530.313	4981.461
Stddev	13.077	155.30	.916	18.043	10.509
%RSD	.2658323	.3998910	.0408415	.5110917	.2109657
#1	4931.803	39003.45	2242.249	3545.140	4991.967
#2	4920.797	38804.01	2242.162	3535.575	4981.467
#3	4905.752	38697.52	2240.621	3510.224	4970.948

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-08 Acquired: 6/23/2025 15:34:15 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017612	.0009075	.0031348	-.011099	.0033755	.1394707	.2858751
Stddev	.003909	.0007618	.0010022	.003137	.0018119	.0276073	.0010573
%RSD	22.19336	83.94999	31.97082	28.26278	53.67789	19.79437	.3698299
#1	-.022103	.0016366	.0041182	-.012908	.0018043	.1684810	.2848057
#2	-.014975	.0009691	.0021148	-.012911	.0029645	.1135214	.2869198
#3	-.015758	.0001167	.0031713	-.007477	.0053575	.1364098	.2858998

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002173	.0001106	28.18734	.0018535	.0151656	.0346214	.0191810
Stddev	.0000770	.0000463	.02167	.0005619	.0003528	.0007059	.0113998
%RSD	35.41564	41.84615	.0768699	30.31698	2.326527	2.038814	59.43290
#1	.0002365	.0000634	28.20203	.0023233	.0148124	.0354244	.0313711
#2	.0001326	.0001126	28.19754	.0020063	.0155180	.0343411	.0087840
#3	.0002830	.0001559	28.16246	.0012310	.0151666	.0340987	.0173880

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.097863	5.424580	.0083566	.0000086	375.5640	.0016118	.0695091
Stddev	.006692	.081471	.0005416	.0007332	3.7965	.0068481	.0003235
%RSD	.3190000	1.501886	6.480589	8544.289	1.010891	424.8756	.4654811
#1	2.103368	5.515781	.0080729	-.000089	377.8134	-.003118	.0691363
#2	2.099806	5.358996	.0089811	-.000671	371.1806	.009465	.0697168
#3	2.090414	5.398963	.0080158	.000785	377.6979	-.001512	.0696741

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.322771	.0281882	.0150604	.0013583	1.191248	1.185211	.0048231
Stddev	.010931	.0017352	.0005822	.0003549	.004665	.012656	.0000769
%RSD	.8263886	6.155745	3.865828	26.12556	.3916293	1.067842	1.595054
#1	1.334913	.0262045	.0156909	.0017093	1.195829	1.199758	.0048389
#2	1.313713	.0294244	.0149473	.0009997	1.191411	1.176722	.0047395
#3	1.319687	.0289357	.0145431	.0013658	1.186503	1.179154	.0048909

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-08 Acquired: 6/23/2025 15:34:15 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0025193	.0151457	.1577923
Stddev	.0028867	.0091168	.0004405
%RSD	114.5817	60.19396	.2791352
#1	.0048718	.0241373	.1579450
#2	.0033882	.0059086	.1581362
#3	-.000702	.0153913	.1572959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4948.234	38769.54	2281.769	3527.412	4894.084
Stddev	4.084	300.68	8.848	19.015	3.531
%RSD	.0825330	.7755568	.3877495	.5390624	.0721385
#1	4948.382	39094.63	2271.797	3548.757	4890.537
#2	4944.079	38712.55	2288.679	3521.193	4894.119
#3	4952.243	38501.43	2284.830	3512.285	4897.597

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-04 Acquired: 6/23/2025 15:38:47 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.021967**	**.0048083**	**.0093239**	**-.022145**	**.0057073**	**.0279870**	**.4581930**
Stddev	.003910	.0015891	.0019774	.002836	.0027696	.0225640	.0013607
%RSD	17.79983	33.04857	21.20835	12.80547	48.52648	80.62338	.2969682
#1	-.021527	.0059483	.0109646	-.025215	.0029536	.0537400	.4587032
#2	-.026078	.0054833	.0098787	-.021599	.0084924	.0116867	.4592249
#3	-.018295	.0029931	.0071283	-.019623	.0056759	.0185343	.4566510

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000454**	**.0003934**	**87.25742**	**.0021825**	**.0249827**	**.0191237**	**.4345765**
Stddev	.000063	.0000192	.50633	.0008497	.0005986	.0005497	.0135018
%RSD	13.81636	4.866682	.5802740	38.93013	2.396033	2.874431	3.106883
#1	-.000463	.0004119	86.93521	.0031629	.0253327	.0188875	.4200393
#2	-.000512	.0003736	87.84103	.0016583	.0242915	.0187315	.4467237
#3	-.000387	.0003947	86.99603	.0017264	.0253238	.0197520	.4369664

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.402679**	**16.43703**	**.0049334**	**-.000274**	**367.0494**	**-.004089**	**.0865376**
Stddev	.014481	.14264	.0005682	.000516	3.4951	.007407	.0008178
%RSD	.3289150	.8677859	11.51776	187.8761	.9522240	181.1558	.9449968
#1	4.396863	16.35536	.0054876	.000086	363.0299	-.001145	.0858093
#2	4.419164	16.60174	.0043521	-.000044	368.7445	.001394	.0874223
#3	4.392010	16.35400	.0049605	-.000865	369.3737	-.012516	.0863813

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.391916**	**.0325632**	**.0303737**	**.0015027**	**1.081715**	**1.638711**	**.0066155**
Stddev	.026571	.0000479	.0007639	.0001166	.005926	.015246	.0003660
%RSD	1.110853	.1472051	2.514999	7.761578	.5478667	.9303747	5.532165
#1	2.363776	.0326122	.0300126	.0016196	1.088515	1.622644	.0068369
#2	2.416573	.0325611	.0312512	.0013863	1.077650	1.652976	.0068165
#3	2.395401	.0325164	.0298573	.0015023	1.078979	1.640514	.0061931

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-04 Acquired: 6/23/2025 15:38:47 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001424	.0222605	.3316020
Stddev	.002318	.0065043	.0009468
%RSD	162.7139	29.21902	.2855372
#1	-.001492	.0289627	.3324479
#2	.000926	.0218449	.3317790
#3	-.003707	.0159740	.3305792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4921.657	39076.28	2321.246	3540.177	4866.383
Stddev	6.086	94.67	24.638	19.422	12.744
%RSD	.1236660	.2422642	1.061415	.5486244	.2618849
#1	4914.650	39168.26	2346.866	3559.259	4852.030
#2	4924.690	38979.14	2297.725	3520.432	4870.748
#3	4925.632	39081.43	2319.146	3540.839	4876.372

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08 Acquired: 6/23/2025 15:43:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.016697**	**.0073034**	**.0024409**	**-.005798**	**.0012616**	**.1185338**	**.3955485**
Stddev	.003540	.0004031	.0002783	.001660	.0015643	.0156034	.0015088
%RSD	21.20156	5.519042	11.40051	28.62639	123.9930	13.16363	.3814517
#1	-.016365	.0075284	.0021892	-.004197	.0019312	.1131482	.3970880
#2	-.013335	.0068381	.0023936	-.005687	.0023798	.1063367	.3954854
#3	-.020391	.0075437	.0027397	-.007510	-.000526	.1361166	.3940723

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000293**	**.0002210**	**27.11252**	**.0049016**	**.0302866**	**.0163710**	**2.739787**
Stddev	.000135	.0000140	.05352	.0006350	.0003346	.0005111	.029339
%RSD	46.08744	6.338244	.1973963	12.95554	1.104864	3.122163	1.070857
#1	-.000210	.0002066	27.06055	.0052210	.0306730	.0159873	2.748067
#2	-.000221	.0002220	27.16747	.0041703	.0301010	.0161744	2.707197
#3	-.000449	.0002345	27.10954	.0053135	.0300860	.0169512	2.764096

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.274551**	**6.880981**	**.0076938**	**-.000031**	**336.0241**	**-.013252**	**.0701335**
Stddev	.014561	.010523	.0005727	.000433	1.5044	.004450	.0004132
%RSD	.1759763	.1529229	7.444012	1412.283	.4477012	33.58157	.5891850
#1	8.258216	6.880093	.0083139	-.000160	334.7716	-.010104	.0705663
#2	8.286169	6.870931	.0071847	-.000384	335.6079	-.011309	.0697431
#3	8.279267	6.891920	.0075829	.000452	337.6927	-.018344	.0700912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.932032**	**.0098473**	**.0118845**	**.0011990**	**.6797690**	**1.411228**	**.0256039**
Stddev	.004731	.0017447	.0010847	.0001159	.0022896	.009935	.0005323
%RSD	.2448755	17.71739	9.126655	9.664534	.3368126	.7040160	2.079025
#1	1.927391	.0116557	.0106968	.0012973	.6817851	1.400069	.0252044
#2	1.931857	.0097120	.0121340	.0010713	.6802420	1.414503	.0253991
#3	1.936848	.0081742	.0128226	.0012285	.6772799	1.419112	.0262082

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08 Acquired: 6/23/2025 15:43:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000249	.0248126	.1552120
Stddev	.001200	.0045543	.0005249
%RSD	481.2943	18.35465	.3382052
#1	-.000465	.0211811	.1554964
#2	.001044	.0233344	.1555334
#3	-.001326	.0299224	.1546062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5019.182	39449.25	2342.378	3590.812	5005.544
Stddev	9.118	133.54	21.376	17.202	8.950
%RSD	.1816658	.3385214	.9125633	.4790549	.1788113
#1	5029.387	39301.86	2357.989	3593.887	5014.220
#2	5011.836	39562.20	2351.131	3606.269	4996.343
#3	5016.324	39483.69	2318.015	3572.280	5006.069

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV03 Acquired: 6/23/2025 15:47:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.210565**	**5.124227**	**5.192582**	**5.064202**	**4.959708**	**10.45804**	**10.12718**
Stddev	.034723	.029692	.042343	.019848	.012560	.02252	.03822
%RSD	.6664024	.5794339	.8154512	.3919330	.2532421	.2153128	.3773712
#1	5.201155	5.095459	5.171540	5.056322	4.973212	10.44406	10.08835
#2	5.249023	5.154763	5.241324	5.086780	4.957535	10.48402	10.16476
#3	5.181516	5.122459	5.164882	5.049504	4.948376	10.44605	10.12844

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2471756**	**2.593772**	**24.37846**	**1.011249**	**2.589565**	**1.223419**	**4.963076**
Stddev	.0154262	.019814	.10042	.014191	.009307	.084702	.048176
%RSD	6.240969	.7639082	.4119090	1.403315	.3594143	6.923373	.9706851
#1	.2559386	2.584165	24.26285	1.012018	2.590154	1.271098	4.907543
#2	.2293638	2.616558	24.44390	1.025041	2.598563	1.125624	4.993673
#3	.2562244	2.580593	24.42865	.996690	2.579977	1.273535	4.988012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.497278**	**24.66092**	**2.574036**	**1.262660**	**24.66958**	**2.492154**	**2.485934**
Stddev	.007162	.11439	.010657	.012447	.50490	.010864	.020967
%RSD	.2867834	.4638567	.4140320	.9857982	2.046652	.4359187	.8434252
#1	2.489739	24.62936	2.574764	1.258876	25.23193	2.479760	2.477383
#2	2.503991	24.78778	2.584311	1.276561	24.25518	2.496669	2.509825
#3	2.498104	24.56563	2.563034	1.252544	24.52164	2.500032	2.470594

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06462**	**5.205474**	**4.905836**	**5.060201**	**5.232321**	**4.867931**	**5.226086**
Stddev	.64253	.027119	.298549	.016317	.032447	.281312	.034488
%RSD	2.670033	.5209768	6.085585	.3224539	.6201287	5.778878	.6599291
#1	24.07679	5.187567	5.075438	5.078551	5.214364	5.027465	5.206249
#2	24.70098	5.236676	4.561116	5.054724	5.269777	4.543118	5.265910
#3	23.41608	5.192180	5.080954	5.047327	5.212821	5.033211	5.206100

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV03 Acquired: 6/23/2025 15:47:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.055998**	**5.154673**	**5.056209**
Stddev	.014948	.015575	.016722
%RSD	.2956581	.3021534	.3307124
#1	5.043697	5.148129	5.037538
#2	5.072635	5.172453	5.069805
#3	5.051661	5.143439	5.061285

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5027.725**	**38689.60**	**2290.485**	**3482.155**	**5152.271**
Stddev	27.514	2729.43	9.530	197.600	16.188
%RSD	.5472480	7.054699	.4160716	5.674653	.3141859
#1	4999.045	40207.80	2289.486	3603.711	5133.758
#2	5053.903	35538.61	2300.476	3254.153	5163.763
#3	5030.228	40322.39	2281.494	3588.601	5159.292

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB03 Acquired: 6/23/2025 15:52:05 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003644**	**.0030378**	**-.000496**	**-.000496**	**.0008822**	**.0006477**
Stddev	.001953	.0002963	.000979	.003689	.0014857	.0100432
%RSD	53.59910	9.753818	197.5162	742.9491	168.3983	1550.644
#1	-.002161	.0027713	-.001452	-.004132	-.000502	-.006277
#2	-.005857	.0029852	.000505	.003243	.000696	.012166
#3	-.002915	.0033569	-.000541	-.000601	.002452	-.003946

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005452**	**.0000018**	**.0000484**	**-.030582**	**-.000007**	**-.000107**
Stddev	.0004504	.0000847	.0000164	.009241	.000159	.000265
%RSD	82.61728	4829.157	33.82329	30.21539	2137.266	248.7242
#1	.0010079	-.000084	.0000347	-.020665	-.000017	.000143
#2	.0005196	.000004	.0000665	-.032131	.000155	-.000385
#3	.0001081	.000085	.0000440	-.038951	-.000161	-.000079

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013285**	**-.013721**	**.0001377**	**-.043867**	**-.000079**	**.0003632**
Stddev	.0002709	.011231	.0004415	.016209	.000672	.0010966
%RSD	20.38967	81.85392	320.6687	36.94914	855.2779	301.9371
#1	.0011229	-.002080	-.000044	-.034179	-.000156	.0001886
#2	.0016355	-.024492	-.000184	-.034844	.000629	.0015366
#3	.0012273	-.014593	.000641	-.062579	-.000709	-.000636

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0851840**	**.0003580**	**-.000692**	**.0091851**	**-.000461**	**.0103828**
Stddev	.0095703	.0042760	.000172	.0004175	.000562	.0003512
%RSD	11.23490	1194.554	24.89348	4.545066	121.8936	3.382140
#1	.0957098	.0002039	-.000710	.0096624	.000118	.0099814
#2	.0770061	-.003839	-.000511	.0090051	-.001004	.0106333
#3	.0828361	.004709	-.000855	.0088879	-.000498	.0105337

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB03 Acquired: 6/23/2025 15:52:05 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002806	-.002225	.0020424	-.000036	.0004483	F .0460909
Stddev	.0006557	.002676	.0019809	.000823	.0029441	.0048387
%RSD	233.6817	120.2618	96.98742	2270.455	656.7387	10.49817
#1	.0005018	.000470	.0001299	.000870	-.002830	.0501571
#2	-.000457	-.002264	.0019120	-.000735	.002866	.0473765
#3	.000797	-.004881	.0040852	-.000244	.001309	.0407393

Elem	Sr4077
Units	ppm
Avg	.0000197
Stddev	.0000694
%RSD	352.1923
#1	-.000030
#2	.000099
#3	-.000009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5260.617	42353.64	2318.333	3749.793	5923.576
Stddev	12.937	209.50	4.231	19.019	12.277
%RSD	.2459282	.4946358	.1824826	.5071995	.2072617
#1	5251.948	42188.22	2313.470	3730.709	5919.719
#2	5275.487	42283.50	2321.161	3749.924	5937.318
#3	5254.414	42589.21	2320.370	3768.747	5913.690

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08DUP Acquired: 6/23/2025 15:57:48 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.015929**	**.0108538**	**.0033464**	**-.009507**	**.0016695**	**.1312385**	**.4030507**
Stddev	.005340	.0011500	.0009664	.003162	.0017832	.0132771	.0004268
%RSD	33.52607	10.59517	28.87717	33.26211	106.8091	10.11680	.1058998
#1	-.020006	.0118540	.0035778	-.010520	.0023149	.1211600	.4031084
#2	-.017897	.0095973	.0022854	-.005962	.0030402	.1462828	.4025980
#3	-.009884	.0111100	.0041760	-.012038	-.000347	.1262728	.4034458

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000283**	**.0001773**	**27.52372**	**.0039895**	**.0306889**	**.0166404**	**2.793518**
Stddev	.000115	.0000254	.14531	.0002185	.0001572	.0001470	.024637
%RSD	40.58685	14.34867	.5279404	5.477290	.5121171	.8836195	.8819504
#1	-.000404	.0001734	27.67610	.0038120	.0305094	.0167405	2.775085
#2	-.000272	.0002044	27.50835	.0042335	.0307560	.0164716	2.783967
#3	-.000174	.0001540	27.38670	.0039229	.0308015	.0167091	2.821501

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.380366**	**6.946118**	**.0080278**	**.0002703**	**340.9219**	**-.018125**	**.0712485**
Stddev	.022668	.039842	.0003102	.0005056	4.6744	.007278	.0004135
%RSD	.2704868	.5735844	3.864202	187.0387	1.371095	40.15165	.5803065
#1	8.406364	6.946216	.0076885	-.000300	343.9216	-.009996	.0717131
#2	8.369994	6.985911	.0082968	.000448	343.3080	-.020345	.0709208
#3	8.364740	6.906228	.0080980	.000663	335.5360	-.024035	.0711117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.937872**	**.0104790**	**.0176376**	**.0012868**	**.6790857**	**1.428130**	**.0041400**
Stddev	.018044	.0019599	.0016415	.0001371	.0051542	.014316	.0007612
%RSD	.9311056	18.70307	9.306887	10.65180	.7589873	1.002406	18.38563
#1	1.953156	.0108360	.0194759	.0012162	.6755240	1.437503	.0043104
#2	1.942493	.0122358	.0163184	.0014448	.6767371	1.435235	.0033081
#3	1.917968	.0083651	.0171184	.0011995	.6849958	1.411651	.0048015

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08DUP Acquired: 6/23/2025 15:57:48 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005794	.0232685	.1573054
Stddev	.0010174	.0041186	.0003809
%RSD	175.5887	17.70042	.2421301
#1	.0014185	.0195808	.1577433
#2	.0008719	.0277131	.1570516
#3	-.000552	.0225116	.1571211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4961.889	39005.34	2303.300	3542.445	4945.184
Stddev	20.450	192.40	19.247	15.215	18.996
%RSD	.4121327	.4932615	.8356362	.4294988	.3841382
#1	4944.676	38936.33	2287.195	3535.227	4931.724
#2	4984.495	39222.73	2298.089	3559.925	4966.914
#3	4956.497	38856.97	2324.616	3532.182	4936.915

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08LX5 Acquired: 6/23/2025 16:02:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002778	.0023921	.0004454	-.003482	-.001351	.0456852	.0777554
Stddev	.003993	.0013178	.0008109	.002676	.002122	.0248278	.0013499
%RSD	143.7146	55.09040	182.0510	76.85175	157.0883	54.34552	1.736033
#1	.001786	.0016754	.0003570	-.005828	-.003264	.0212820	.0773054
#2	-.005625	.0039130	-.000318	-.004049	-.001721	.0448565	.0792728
#3	-.004496	.0015880	.001297	-.000568	.000932	.0709169	.0766880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000516	.0000251	5.431331	.0014511	.0067474	.0045946	.5261091
Stddev	.0000789	.0000542	.032268	.0010531	.0003155	.0012743	.0042554
%RSD	152.8603	215.7083	.5941132	72.57057	4.675635	27.73360	.8088422
#1	.0001153	-.000034	5.424209	.0019423	.0066750	.0055968	.5212124
#2	-.000037	.000037	5.466566	.0002422	.0064745	.0031606	.5282039
#3	.000076	.000073	5.403219	.0021688	.0070928	.0050265	.5289111

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.648443	1.364553	.0015406	.0005424	75.35409	.0000949	.0136466
Stddev	.008924	.014172	.0004131	.0003715	.36770	.0039390	.0004188
%RSD	.5413634	1.038568	26.81556	68.49365	.4879601	4149.629	3.068840
#1	1.638526	1.353104	.0019125	.0003991	75.25222	-.002880	.0137072
#2	1.655825	1.380403	.0016133	.0002639	75.76198	.004562	.0140318
#3	1.650977	1.360151	.0010959	.0009643	75.04806	-.001397	.0132008

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3203919	.0017418	.0015936	.0002501	.1247456	.2924593	.0021269
Stddev	.0027120	.0008399	.0005741	.0002138	.0031559	.0019189	.0005703
%RSD	.8464720	48.21750	36.02489	85.45341	2.529882	.6561158	26.81432
#1	.3210186	.0010255	.0019656	.0000272	.1279792	.2922372	.0023976
#2	.3227358	.0026661	.0018828	.0002698	.1216736	.2944796	.0014717
#3	.3174214	.0015339	.0009324	.0004534	.1245841	.2906612	.0025115

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08LX5 Acquired: 6/23/2025 16:02:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000374	.0564591	.0309263
Stddev	.000703	.0096163	.0001302
%RSD	188.0737	17.03225	.4210090
#1	.000410	.0675590	.0310616
#2	-.000582	.0506516	.0309155
#3	-.000948	.0511667	.0308019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5099.213	40548.55	2296.412	3636.358	5348.429
Stddev	8.000	138.57	12.446	6.115	7.359
%RSD	.1568938	.3417403	.5419731	.1681674	.1375894
#1	5103.620	40582.80	2301.709	3630.096	5349.631
#2	5089.979	40666.78	2282.194	3642.315	5340.543
#3	5104.041	40396.07	2305.333	3636.663	5355.113

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08MS Acquired: 6/23/2025 16:06:44 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8245055**	**1.988087**	**.9981714**	**1.930820**	**.7738691**	**2.127179**	**.5745087**
Stddev	.0022787	.004664	.0010485	.006320	.0019591	.015321	.0027511
%RSD	.2763738	.2345844	.1050440	.3273433	.2531538	.7202710	.4788535
#1	.8226965	1.990715	.9992713	1.931537	.7733516	2.110818	.5719669
#2	.8270648	1.990844	.9971831	1.924172	.7760349	2.141189	.5774297
#3	.8237553	1.982703	.9980597	1.936751	.7722207	2.129530	.5741294

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1984342**	**.2093644**	**27.26386**	**.4012328**	**.2345694**	**.3076531**	**5.661217**
Stddev	.0008667	.0005009	.11627	.0019996	.0003854	.0021830	.009110
%RSD	.4367821	.2392331	.4264543	.4983597	.1642815	.7095555	.1609231
#1	.1974461	.2098470	27.19350	.4035179	.2342637	.3052708	5.650702
#2	.1990656	.2093990	27.39807	.3998039	.2350022	.3095576	5.666744
#3	.1987911	.2088471	27.20002	.4003765	.2344421	.3081311	5.666205

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.171077**	**8.488959**	**.5209953**	**.0720463**	**331.7723**	**.2840170**	**.2639507**
Stddev	.033020	.042683	.0014679	.0003822	1.9134	.0102870	.0012612
%RSD	.4041115	.5028024	.2817530	.5304677	.5767230	3.621974	.4778270
#1	8.159709	8.533308	.5219916	.0716071	333.9192	.2792503	.2629099
#2	8.208280	8.485405	.5216848	.0723033	331.1510	.2769779	.2653533
#3	8.145243	8.448164	.5193096	.0722285	330.2468	.2958228	.2635890

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.44785**	**6.374598**	**.2828897**	**.4062487**	**.6349587**	**2.248376**	**.7488626**
Stddev	.05153	.005673	.0010246	.0007593	.0032483	.012106	.0023543
%RSD	.3831625	.0889938	.3621976	.1868971	.5115810	.5384119	.3143820
#1	13.42489	6.381099	.2818401	.4056811	.6362072	2.234450	.7514265
#2	13.41180	6.370646	.2838874	.4071112	.6312714	2.254289	.7483631
#3	13.50687	6.372051	.2829415	.4059538	.6373976	2.256388	.7467981

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08MS Acquired: 6/23/2025 16:06:44 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1954867	.2102173	.3414433
Stddev	.0023738	.0045435	.0017317
%RSD	1.214294	2.161337	.5071712
#1	.1927631	.2149626	.3403902
#2	.1965814	.2059068	.3434419
#3	.1971156	.2097825	.3404977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4976.986	39090.48	2260.330	3542.761	4956.233
Stddev	1.903	121.76	11.878	20.969	1.430
%RSD	.0382385	.3114798	.5255047	.5918756	.0288566
#1	4978.918	39016.76	2270.111	3547.627	4955.000
#2	4975.113	39023.67	2247.113	3519.787	4955.897
#3	4976.928	39231.02	2263.766	3560.869	4957.801

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08MSD Acquired: 6/23/2025 16:11:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8650971	2.075140	1.043225	2.021144	.8087529	2.226775	.6131714
Stddev	.0050929	.001834	.000891	.002841	.0041544	.018754	.0035566
%RSD	.5887140	.0883773	.0854496	.1405884	.5136792	.8422192	.5800323
#1	.8639513	2.074446	1.043889	2.019092	.8051080	2.216223	.6121103
#2	.8706654	2.077220	1.043575	2.019953	.8132763	2.215673	.6102661
#3	.8606747	2.073754	1.042212	2.024387	.8078745	2.248428	.6171378

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2030851	.2194825	29.03175	.4179621	.2460135	.3132274	5.962342
Stddev	.0042356	.0003408	.26986	.0010485	.0005765	.0061934	.027073
%RSD	2.085616	.1552650	.9295433	.2508602	.2343474	1.977284	.4540620
#1	.1992444	.2197994	28.94028	.4188224	.2457229	.3075988	5.974417
#2	.2023831	.2191220	28.81951	.4182696	.2456401	.3122210	5.931333
#3	.2076279	.2195262	29.33546	.4167942	.2466775	.3198624	5.981277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.789050	9.135231	.5452081	.0731875	350.6130	.2921618	.2760610
Stddev	.071583	.087608	.0004283	.0012897	1.1002	.0050614	.0012782
%RSD	.8144529	.9590129	.0785516	1.762163	.3137935	1.732382	.4630097
#1	8.771315	9.058643	.5454758	.0746331	349.9893	.2863420	.2749189
#2	8.728002	9.116289	.5447141	.0721550	351.8833	.2955350	.2758223
#3	8.867833	9.230760	.5454343	.0727743	349.9664	.2946084	.2774417

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.15061	6.699791	.2908257	.4222300	.6982415	2.353249	.7813111
Stddev	.09876	.007223	.0046691	.0008136	.0021267	.039070	.0006020
%RSD	.6979378	.1078168	1.605462	.1926800	.3045787	1.660279	.0770513
#1	14.05725	6.691835	.2858471	.4222417	.6966809	2.319075	.7809493
#2	14.14056	6.701599	.2915231	.4214107	.6973799	2.344829	.7809779
#3	14.25401	6.705938	.2951068	.4230377	.7006638	2.395843	.7820061

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08MSD Acquired: 6/23/2025 16:11:12 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2052908	.2147496	.3602814
Stddev	.0021880	.0020421	.0028381
%RSD	1.065823	.9509342	.7877578
#1	.2037063	.2165797	.3597781
#2	.2043789	.2151222	.3577286
#3	.2077873	.2125468	.3633375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4997.507	39403.55	2328.351	3580.363	4962.067
Stddev	8.591	118.32	32.172	13.912	6.206
%RSD	.1718996	.3002660	1.381769	.3885691	.1250658
#1	4995.728	39267.47	2356.464	3574.527	4961.339
#2	5006.848	39482.11	2335.326	3596.243	4968.605
#3	4989.945	39461.07	2293.264	3570.319	4956.257

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08A Acquired: 6/23/2025 16:15:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8427786**	**2.023303**	**1.016325**	**1.966510**	**.7858334**	**2.182070**	**.5946286**
Stddev	.0007686	.003981	.003069	.003480	.0026938	.035074	.0016765
%RSD	.0911925	.1967638	.3019557	.1769864	.3427885	1.607385	.2819393
#1	.8419243	2.027130	1.015976	1.964642	.7855109	2.221878	.5950784
#2	.8429974	2.019184	1.013446	1.964363	.7833155	2.168620	.5960342
#3	.8434140	2.023595	1.019554	1.970526	.7886739	2.155711	.5927730

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2013005**	**.2134219**	**28.20412**	**.4099915**	**.2391762**	**.3110340**	**5.839545**
Stddev	.0015112	.0009005	.01489	.0032955	.0005531	.0020823	.009822
%RSD	.7507008	.4219268	.0527949	.8038030	.2312371	.6694741	.1681984
#1	.2026796	.2132001	28.21342	.4066611	.2387132	.3129771	5.836475
#2	.2015368	.2126530	28.21200	.4132510	.2390266	.3112890	5.831625
#3	.1996851	.2144126	28.18695	.4100626	.2397886	.3088360	5.850536

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.468876**	**8.843433**	**.5306715**	**.0730198**	**338.4780**	**.2899273**	**.2702365**
Stddev	.008403	.027447	.0011361	.0004693	1.9325	.0057827	.0009129
%RSD	.0992199	.3103697	.2140787	.6427404	.5709380	1.994539	.3378293
#1	8.475880	8.814000	.5301544	.0725388	340.2835	.2904088	.2692682
#2	8.471189	8.868329	.5298860	.0734765	336.4396	.2954543	.2703597
#3	8.459559	8.847971	.5319741	.0730440	338.7109	.2839190	.2710815

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.85609**	**6.500040**	**.2875327**	**.4109483**	**.6643383**	**2.307114**	**.7596191**
Stddev	.07860	.015441	.0013885	.0005879	.0044083	.011703	.0018191
%RSD	.5672815	.2375586	.4828854	.1430693	.6635588	.5072378	.2394784
#1	13.76937	6.492152	.2890570	.4111811	.6592571	2.319782	.7607315
#2	13.92264	6.490135	.2872007	.4102796	.6666154	2.304854	.7575198
#3	13.87625	6.517832	.2863403	.4113842	.6671423	2.296706	.7606060

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-08A Acquired: 6/23/2025 16:15:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2049536	.2136908	.3529460
Stddev	.0016371	.0069751	.0004479
%RSD	.7987640	3.264109	.1269091
#1	.2038237	.2176893	.3532611
#2	.2042062	.2177464	.3524333
#3	.2068311	.2056367	.3531437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4984.132	39223.27	2285.721	3551.322	4962.920
Stddev	16.932	280.02	5.099	24.172	18.445
%RSD	.3397186	.7139016	.2230851	.6806357	.3716583
#1	4991.581	39516.35	2290.273	3574.346	4973.164
#2	4996.061	39195.00	2286.680	3553.474	4973.969
#3	4964.752	38958.47	2280.211	3526.146	4941.626

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-01 Acquired: 6/23/2025 16:20:10 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0327450**	**-.013951**	**.1522382**	**.0728149**	**.0183725**	**102.8147**	**.5687747**
Stddev	.0028429	.001360	.0011498	.0048710	.0027934	.3814	.0012273
%RSD	8.681894	9.746300	.7552522	6.689573	15.20416	.3710047	.2157813
#1	.0321821	-.013646	.1511064	.0682857	.0212190	103.0858	.5694727
#2	.0302257	-.012770	.1534051	.0721913	.0156355	102.9799	.5694938
#3	.0358273	-.015437	.1522031	.0779677	.0182629	102.3786	.5673576

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089399**	**-.001152**	**15.20809**	**.1730745**	**.1387273**	**.4119074**	**222.6876**
Stddev	.0000885	.000089	.09443	.0006869	.0006565	.0034205	.5822
%RSD	.9902420	7.747784	.6209390	.3968562	.4732568	.8304104	.2614464
#1	.0089377	-.001243	15.14857	.1729774	.1393735	.4130118	222.7777
#2	.0090296	-.001150	15.31698	.1738048	.1387474	.4146393	223.2195
#3	.0088526	-.001065	15.15873	.1724414	.1380609	.4080711	222.0656

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.447997**	**42.95284**	**.2449673**	**.0009391**	**10.51054**	**.2565348**	**.4608357**
Stddev	.007965	.11050	.0002524	.0003994	.09402	.0038457	.0014043
%RSD	.1790724	.2572566	.1030359	42.52636	.8945323	1.499087	.3047289
#1	4.452124	42.95718	.2448445	.0011790	10.55485	.2546891	.4609151
#2	4.453051	43.06111	.2452576	.0004781	10.57422	.2609554	.4621987
#3	4.438815	42.84024	.2447997	.0011603	10.40255	.2539598	.4593935

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.80358**	**6.433112**	**.0371538**	**.0035680**	**1.008723**	**4.778617**	**.0106723**
Stddev	.22360	.013945	.0010299	.0004465	.004842	.042165	.0006362
%RSD	1.330642	.2167644	2.771896	12.51418	.4799867	.8823587	5.960733
#1	16.79193	6.449021	.0361712	.0036241	1.014293	4.789516	.0099694
#2	17.03277	6.423007	.0370650	.0039839	1.005516	4.814262	.0108390
#3	16.58603	6.427308	.0382252	.0030961	1.006361	4.732073	.0112085

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-01 Acquired: 6/23/2025 16:20:10 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.538544**	**.2172900**	**.0844533**
Stddev	.012898	.0028121	.0003646
%RSD	.3645077	1.294184	.4317153
#1	3.536631	.2190600	.0843572
#2	3.552292	.2140474	.0848563
#3	3.526709	.2187627	.0841463

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6108.309**	**48525.50**	**2791.842**	**4371.129**	**5191.724**
Stddev	7.015	302.93	21.160	23.086	13.805
%RSD	.1148476	.6242596	.7579354	.5281404	.2659016
#1	6116.313	48856.58	2788.350	4388.442	5198.110
#2	6105.385	48262.23	2772.646	4344.918	5201.179
#3	6103.228	48457.67	2814.532	4380.026	5175.882

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-05 Acquired: 6/23/2025 16:24:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0460309**	**-.017138**	**.2200927**	**.0942827**	**.0235297**	**130.3257**	**1.279788**
Stddev	.0017172	.003220	.0016036	.0030151	.0003596	.3500	.002303
%RSD	3.730448	18.78690	.7286158	3.197949	1.528133	.2685499	.1799365
#1	.0446525	-.018743	.2184912	.0909212	.0233964	130.6617	1.282445
#2	.0479545	-.013432	.2200885	.0951786	.0239369	130.3521	1.278538
#3	.0454857	-.019240	.2216985	.0967484	.0232559	129.9632	1.278380

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125779**	**-.000920**	**26.15192**	**.2729470**	**.2129323**	**.9943898**	**301.4964**
Stddev	.0002490	.000031	.03097	.0008503	.0003078	.0110732	.2587
%RSD	1.979503	3.389153	.1184406	.3115204	.1445555	1.113570	.0857914
#1	.0128614	-.000955	26.18675	.2737816	.2126944	1.005779	301.5593
#2	.0123951	-.000912	26.14156	.2729777	.2132800	.993727	301.7179
#3	.0124771	-.000894	26.12745	.2720818	.2128226	.983663	301.2121

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.808294**	**66.05288**	**.3842914**	**-.000910**	**13.55315**	**.3452557**	**.6214393**
Stddev	.012432	.24868	.0010552	.000144	.15937	.0091739	.0010758
%RSD	.1267519	.3764904	.2745787	15.79461	1.175871	2.657128	.1731118
#1	9.822643	66.33797	.3834391	-.001064	13.72419	.3358527	.6205770
#2	9.801503	65.88055	.3854716	-.000885	13.52642	.3541818	.6226448
#3	9.800737	65.94013	.3839635	-.000780	13.40884	.3457326	.6210960

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.11099**	**8.342764**	**.0458886**	**.0045884**	**.8912154**	**2.871541**	**.0111253**
Stddev	.16781	.020215	.0038851	.0005754	.0028795	.025458	.0011666
%RSD	.7261160	.2423004	8.466377	12.53967	.3230976	.8865792	10.48626
#1	23.30476	8.326843	.0414666	.0044919	.8880038	2.899969	.0124343
#2	23.01322	8.335941	.0474449	.0052059	.8920758	2.863809	.0101952
#3	23.01499	8.365507	.0487543	.0040673	.8935667	2.850845	.0107465

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2362-05 Acquired: 6/23/2025 16:24:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.155232**	**.2789907**	**.1831327**
Stddev	.006950	.0061630	.0003829
%RSD	.1348200	2.209018	.2090839
#1	5.162793	.2852508	.1834965
#2	5.149121	.2729297	.1831683
#3	5.153784	.2787915	.1827332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6684.372**	**52986.76**	**3109.588**	**4781.497**	**5003.837**
Stddev	26.755	254.10	24.299	19.030	14.062
%RSD	.4002603	.4795493	.7814215	.3979979	.2810198
#1	6666.571	53109.49	3081.913	4794.974	4998.669
#2	6671.405	53156.20	3119.425	4789.789	4993.091
#3	6715.139	52694.60	3127.427	4759.727	5019.752

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2363-01 Acquired: 6/23/2025 16:28:59 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1648419**	**-.005766**	**6.602999**	**.0508361**	**.0071182**	**81.12622**	**1.878510**
Stddev	.0021742	.003206	.018671	.0016331	.0021451	.19557	.004307
%RSD	1.318955	55.60284	.2827717	3.212495	30.13598	.2410674	.2292791
#1	.1627619	-.002065	6.588658	.0496341	.0084291	81.26350	1.876859
#2	.1646644	-.007567	6.596227	.0501788	.0046426	81.21287	1.883398
#3	.1670994	-.007667	6.624111	.0526955	.0082827	80.90230	1.875272

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082833**	**.0037385**	**102.3322**	**.1499268**	**.1205045**	**7.245053**	**192.4219**
Stddev	.0000904	.0000903	.3995	.0012872	.0002998	.008933	.5319
%RSD	1.090925	2.416260	.3903875	.8585568	.2488229	.1232964	.2764073
#1	.0083686	.0037133	102.0565	.1512919	.1202161	7.251461	192.4315
#2	.0081886	.0038387	102.7903	.1497535	.1204828	7.248849	192.9489
#3	.0082926	.0036634	102.1498	.1487350	.1208146	7.234849	191.8853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.916946**	**14.27221**	**.2350916**	**.0070497**	**2.944020**	**.3082279**	**3.582726**
Stddev	.006951	.03542	.0009635	.0002022	.017671	.0048881	.005596
%RSD	.3626105	.2482035	.4098242	2.867680	.6002204	1.585875	.1562009
#1	1.914325	14.26704	.2356491	.0072831	2.958546	.3068908	3.586466
#2	1.924827	14.30993	.2339790	.0069382	2.949166	.3041475	3.576292
#3	1.911687	14.23965	.2356465	.0069279	2.924347	.3136454	3.585421

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.699004**	**16.37072**	**.0205126**	**.0311486**	**16.37224**	**3.800273**	**2.520489**
Stddev	.028412	.04347	.0010033	.0001277	.04025	.014557	.004464
%RSD	.4241182	.2655551	4.891300	.4099443	.2458244	.3830604	.1771148
#1	6.680990	16.34791	.0216687	.0310062	16.35278	3.787817	2.517704
#2	6.731756	16.34340	.0198692	.0311866	16.34542	3.796726	2.518125
#3	6.684265	16.42085	.0200000	.0312529	16.41852	3.816276	2.525638

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2363-01 Acquired: 6/23/2025 16:28:59 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.526791	.1598173	.7543859
Stddev	.009090	.0036873	.0018747
%RSD	.5953606	2.307185	.2485123
#1	1.516719	.1573334	.7536433
#2	1.529267	.1640540	.7565182
#3	1.534386	.1580645	.7529962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5865.485	46580.92	2732.427	4192.848	5262.794
Stddev	10.041	110.80	8.973	14.043	4.323
%RSD	.1711865	.2378710	.3283951	.3349264	.0821492
#1	5863.172	46489.46	2726.394	4176.658	5262.780
#2	5856.803	46549.17	2728.149	4201.724	5258.478
#3	5876.481	46704.13	2742.739	4200.162	5267.125

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-01 Acquired: 6/23/2025 16:33:21 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2735026	.0161483	10.94502	.1071181	.1109233	129.8110	2.232118
Stddev	.0046529	.0030669	.19943	.0023873	.0044445	.4458	.008999
%RSD	1.701232	18.99182	1.822096	2.228671	4.006821	.3434200	.4031424
#1	.2741736	.0177016	10.81416	.1098705	.1057920	129.3214	2.222154
#2	.2685506	.0126156	10.84634	.1056110	.1135662	130.1934	2.239652
#3	.2777835	.0181278	11.17454	.1058726	.1134116	129.9182	2.234547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095083	.0780556	225.9073	4.231846	.1646481	3.527349	272.7113
Stddev	.0000343	.0015368	1.3036	.053730	.0018723	.017295	1.5350
%RSD	.3609497	1.968856	.5770462	1.269650	1.137133	.4903163	.5628840
#1	.0094708	.0771221	224.4091	4.250992	.1634363	3.515006	270.9586
#2	.0095163	.0772153	226.7827	4.171165	.1637035	3.547116	273.8168
#3	.0095380	.0798293	226.5301	4.273379	.1668045	3.519924	273.3585

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.641464	57.72894	11.69616	.0023823	3.110577	.3048334	8.751564
Stddev	.025977	.28588	.10238	.0007480	.004975	.0031719	.119663
%RSD	.5596767	.4952153	.8753056	31.39617	.1599534	1.040536	1.367327
#1	4.614488	57.42941	11.63089	.0017614	3.104856	.3015194	8.773473
#2	4.666312	57.99887	11.64344	.0032126	3.113894	.3078410	8.622460
#3	4.643591	57.75854	11.81415	.0021729	3.112982	.3051398	8.858757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.28576	7.668129	.1312922	.0176326	20.06135	7.767329	.5652205
Stddev	.03423	.205274	.0033067	.0002815	.56831	.048726	.0076662
%RSD	.2396420	2.676976	2.518591	1.596687	2.832870	.6273240	1.356317
#1	14.29634	7.498517	.1306914	.0176028	19.54835	7.724926	.5592078
#2	14.24749	7.609543	.1283271	.0179278	19.96345	7.820558	.5626004
#3	14.31347	7.896327	.1348581	.0173671	20.67226	7.756502	.5738532

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-01 Acquired: 6/23/2025 16:33:21 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.686804**	**.2897542**	**1.163782**
Stddev	.013035	.0024583	.005203
%RSD	.4851581	.8484006	.4471185
#1	2.672317	.2888497	1.157944
#2	2.697585	.2878763	1.167933
#3	2.690510	.2925366	1.165468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5239.915**	**43759.46**	**2622.680**	**3932.936**	**4781.175**
Stddev	144.567	648.89	17.158	61.989	136.539
%RSD	2.758958	1.482857	.6542021	1.576163	2.855765
#1	5401.870	43695.96	2642.456	3935.488	4937.177
#2	5123.900	44437.77	2613.822	3993.609	4683.414
#3	5193.974	43144.65	2611.762	3869.709	4722.934

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02 Acquired: 6/23/2025 16:37:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077275**	**-.005676**	**.3100007**	**.0314209**	**.0591981**	**65.17576**	**.2746402**
Stddev	.0055994	.001232	.0028416	.0009598	.0026095	.10826	.0015884
%RSD	72.46012	21.70246	.9166301	3.054531	4.407991	.1661001	.5783566
#1	.0140778	-.005906	.3109081	.0311781	.0604307	65.13814	.2764551
#2	.0034997	-.004345	.3068162	.0306059	.0562007	65.09134	.2735035
#3	.0056050	-.006776	.3122777	.0324787	.0609630	65.29781	.2739620

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036523**	**.0106102**	**18.38049**	**2.935331**	**.0528876**	**1.650430**	**109.4273**
Stddev	.0000718	.0000328	.08219	.015140	.0003628	.012227	.3456
%RSD	1.964880	.3087531	.4471583	.5157850	.6859441	.7408362	.3157896
#1	.0036832	.0106150	18.40739	2.952343	.0532719	1.639560	109.8048
#2	.0035702	.0105753	18.44586	2.930314	.0528399	1.648062	109.3504
#3	.0037034	.0106403	18.28822	2.923336	.0525510	1.663667	109.1267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7818889**	**15.22583**	**.5864902**	**.0025684**	**2.152705**	**.1388914**	**1.587158**
Stddev	.0016866	.02994	.0013508	.0003099	.012082	.0022754	.001502
%RSD	.2157092	.1966435	.2303267	12.06678	.5612613	1.638219	.0946640
#1	.7808415	15.21208	.5854778	.0028837	2.140992	.1369934	1.587759
#2	.7809906	15.26018	.5859686	.0022641	2.151997	.1382670	1.588266
#3	.7838345	15.20523	.5880240	.0025575	2.165125	.1414137	1.585448

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.662386**	**3.300463**	**.1428152**	**.0404673**	**2.682044**	**8.642979**	**.0169057**
Stddev	.030071	.029522	.0004766	.0005536	.030458	.078629	.0012497
%RSD	.6449678	.8944678	.3337198	1.367972	1.135631	.9097460	7.392317
#1	4.636110	3.288594	.1433598	.0398358	2.668867	8.554300	.0182345
#2	4.655866	3.278723	.1426116	.0408687	2.660392	8.670450	.0157540
#3	4.695182	3.334072	.1424742	.0406975	2.716872	8.704188	.0167284

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02 Acquired: 6/23/2025 16:37:41 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.358726	.0834901	.0925406
Stddev	.000378	.0027036	.0003147
%RSD	.0278248	3.238179	.3400202
#1	1.359090	.0834605	.0928548
#2	1.358752	.0862083	.0925414
#3	1.358335	.0808015	.0922255

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5560.204	45902.64	2596.577	4101.936	5348.443
Stddev	146.247	260.22	14.750	19.182	144.397
%RSD	2.630252	.5668946	.5680613	.4676286	2.699801
#1	5645.903	45602.17	2605.594	4079.946	5430.461
#2	5643.369	46054.58	2604.581	4110.631	5433.153
#3	5391.338	46051.17	2579.554	4115.230	5181.714

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV04 Acquired: 6/23/2025 16:51:54 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.243356**	**5.162220**	**5.227753**	**5.069928**	**4.960261**	**10.52668**	**10.18934**
Stddev	.009768	.003322	.009313	.011281	.004712	.03564	.02858
%RSD	.1862924	.0643582	.1781381	.2225150	.0949976	.3385260	.2805002
#1	5.252743	5.158406	5.235203	5.082419	4.964396	10.48642	10.16026
#2	5.244077	5.164488	5.230743	5.066885	4.955131	10.53946	10.19035
#3	5.233247	5.163764	5.217313	5.060481	4.961255	10.55416	10.21740

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2590576**	**2.604772**	**24.50369**	**1.010797**	**2.611505**	**1.284652**	**4.904604**
Stddev	.0009924	.005119	.09348	.005546	.004308	.003839	.015195
%RSD	.3830889	.1965152	.3814965	.5486939	.1649441	.2988675	.3098154
#1	.2579372	2.608945	24.39674	1.014267	2.616064	1.280711	4.887767
#2	.2598262	2.606310	24.56978	1.013722	2.610948	1.288381	4.908744
#3	.2594093	2.599060	24.54455	1.004400	2.607504	1.284862	4.917300

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.487169**	**24.81095**	**2.591835**	**1.262221**	**24.80573**	**2.487176**	**2.478652**
Stddev	.009581	.13654	.006214	.006309	.06416	.004659	.007073
%RSD	.3852028	.5503108	.2397455	.4998185	.2586455	.1873290	.2853425
#1	2.478601	24.70085	2.596464	1.259208	24.77004	2.486136	2.480555
#2	2.485393	24.76827	2.594269	1.269471	24.87980	2.492266	2.484579
#3	2.497514	24.96373	2.584773	1.257984	24.76735	2.483124	2.470823

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.75556**	**5.223304**	**5.132052**	**5.092763**	**5.286659**	**5.105167**	**5.260768**
Stddev	.07383	.013442	.014254	.009007	.009415	.021778	.011549
%RSD	.3107908	.2573535	.2777362	.1768576	.1780925	.4265833	.2195266
#1	23.79541	5.235176	5.115797	5.102103	5.297527	5.082383	5.272485
#2	23.80091	5.226028	5.137943	5.092056	5.280986	5.125775	5.260425
#3	23.67037	5.208709	5.142416	5.084130	5.281465	5.107341	5.249395

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV04 Acquired: 6/23/2025 16:51:54 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.043812**	**5.055269**	**5.049461**
Stddev	.022219	.025345	.015560
%RSD	.4405214	.5013502	.3081585
#1	5.029687	5.036159	5.034403
#2	5.032326	5.045629	5.048501
#3	5.069423	5.084019	5.065479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4956.811**	**39750.98**	**2233.195**	**3546.491**	**5059.468**
Stddev	11.833	125.42	3.417	11.007	11.016
%RSD	.2387279	.3155063	.1530193	.3103619	.2177287
#1	4950.116	39618.11	2231.892	3534.218	5055.260
#2	4949.843	39767.52	2237.072	3549.768	5051.176
#3	4970.474	39867.31	2230.620	3555.488	5071.967

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB04 Acquired: 6/23/2025 16:56:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001676**	**.0027694**	**.0000370**	**-.000111**	**-.002390**	**.0088984**
Stddev	.002347	.0005737	.0009761	.001768	.000760	.0130962
%RSD	140.0203	20.71554	2640.825	1594.410	31.81432	147.1743
#1	.000975	.0033623	.0006705	.001833	-.003256	.0234816
#2	-.003491	.0027287	-.001087	-.000543	-.001829	.0050723
#3	-.002513	.0022171	.000528	-.001622	-.002086	-.001859

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008669**	**-.000005**	**-.000037**	**-.012749**	**.0005494**	**-.000200**
Stddev	.0007250	.000040	.000051	.017377	.0002715	.000331
%RSD	83.63504	867.0451	136.9376	136.2983	49.41318	165.8391
#1	.0014963	-.000036	-.000061	-.010452	.0003033	-.000080
#2	.0010302	.000040	.000021	.003365	.0008407	-.000574
#3	.0000741	-.000018	-.000072	-.031161	.0005043	.000055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007742**	**-.000640**	**.0004344**	**-.042616**	**.0000519**	**.0004382**
Stddev	.0004283	.002210	.0007335	.041064	.0005335	.0003211
%RSD	55.32106	345.2141	168.8537	96.35676	1028.782	73.28218
#1	.0003153	-.000018	.0006671	.003698	.0006480	.0000969
#2	.0011633	.001192	-.000387	-.074576	-.000381	.0007344
#3	.0008440	-.003095	.001023	-.056970	-.000112	.0004832

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0344473**	**.0039336**	**-.000718**	**.0081997**	**-.000469**	**.0130724**
Stddev	.0093446	.0074842	.000309	.0003282	.001721	.0008136
%RSD	27.12710	190.2644	43.00245	4.002980	367.1069	6.224098
#1	.0267770	.0125741	-.000364	.0085686	.000693	.0140059
#2	.0317102	-.000252	-.000858	.0079398	-.002446	.0126974
#3	.0448548	-.000521	-.000931	.0080907	.000346	.0125139

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB04 Acquired: 6/23/2025 16:56:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000003	-.002758	.0023198	.0001383	-.000746	F .0399986
Stddev	.000136	.001196	.0010184	.0005711	.006722	.0062694
%RSD	4684.764	43.35122	43.89897	412.8544	901.2797	15.67406
#1	.000051	-.001383	.0025109	-.000397	.002160	.0369189
#2	-.000158	-.003338	.0032291	.000073	.004034	.0358647
#3	.000098	-.003554	.0012194	.000739	-.008432	.0472123

Elem	Sr4077
Units	ppm
Avg	.0000969
Stddev	.0001512
%RSD	156.0540
#1	.0002335
#2	-.000066
#3	.000123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5235.859	42096.27	2286.730	3728.044	5897.737
Stddev	14.817	269.58	12.775	17.726	14.285
%RSD	.2829825	.6403932	.5586667	.4754683	.2422050
#1	5247.985	41785.28	2296.597	3710.341	5913.592
#2	5219.344	42239.99	2291.294	3727.998	5885.871
#3	5240.249	42263.53	2272.300	3745.793	5893.748

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02DUP Acquired: 6/23/2025 17:01:58 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157468**	**-.004471**	**.1475861**	**.0327889**	**.0551072**	**65.57525**	**.2562746**
Stddev	.0022461	.001482	.0012001	.0003782	.0037327	.17572	.0004894
%RSD	14.26391	33.14596	.8131491	1.153324	6.773602	.2679669	.1909529
#1	.0167613	-.003126	.1482114	.0332225	.0547675	65.57711	.2563933
#2	.0173067	-.006060	.1462025	.0325272	.0515559	65.39861	.2566937
#3	.0131724	-.004228	.1483445	.0326170	.0589981	65.75003	.2557368

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035533**	**.0090470**	**10.79172**	**2.914224**	**.0462569**	**.8273129**	**101.6906**
Stddev	.0001761	.0000911	.06143	.004289	.0004929	.0048886	.3301
%RSD	4.955910	1.006552	.5692634	.1471701	1.065509	.5909026	.3245887
#1	.0037563	.0089420	10.86108	2.915172	.0463613	.8323752	101.8767
#2	.0034620	.0091053	10.74418	2.917959	.0457202	.8269447	101.3095
#3	.0034416	.0090936	10.76990	2.909540	.0466892	.8226188	101.8856

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6637738**	**14.57887**	**.5171654**	**.0022912**	**1.460457**	**.1251541**	**1.134847**
Stddev	.0032404	.08861	.0013254	.0005848	.016521	.0042459	.002183
%RSD	.4881721	.6077902	.2562883	25.52518	1.131189	3.392570	.1923227
#1	.6664412	14.64793	.5167931	.0021928	1.447623	.1262935	1.134985
#2	.6601677	14.47896	.5160659	.0017618	1.454652	.1287141	1.136957
#3	.6647125	14.60973	.5186371	.0029190	1.479097	.1204548	1.132598

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.710965**	**3.022100**	**.0349395**	**.0157974**	**1.938638**	**9.871626**	**.0152627**
Stddev	.015754	.011854	.0021268	.0008427	.003851	.073654	.0011224
%RSD	.3344189	.3922601	6.087114	5.334740	.1986519	.7461189	7.353869
#1	4.726662	3.019740	.0326950	.0161186	1.939652	9.947273	.0150842
#2	4.711081	3.011603	.0369249	.0148413	1.934382	9.867465	.0164637
#3	4.695154	3.034957	.0351984	.0164323	1.941881	9.800141	.0142403

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02DUP Acquired: 6/23/2025 17:01:58 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.173162	.0955190	.0666298
Stddev	.004442	.0034278	.0000787
%RSD	.3786155	3.588596	.1180562
#1	1.177209	.0981560	.0665390
#2	1.168410	.0967566	.0666766
#3	1.173866	.0916442	.0666739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5622.895	45456.84	2562.511	4054.908	5491.503
Stddev	27.280	288.73	10.433	20.981	30.113
%RSD	.4851529	.6351756	.4071305	.5174268	.5483594
#1	5644.876	45722.49	2560.394	4073.098	5517.218
#2	5631.445	45498.47	2573.840	4059.672	5498.915
#3	5592.365	45149.55	2553.299	4031.955	5458.376

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02LX5 Acquired: 6/23/2025 17:06:13 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008403**	**-.000351**	**.0610150**	**.0059225**	**.0109374**	**14.49238**	**.0606061**
Stddev	.0037470	.000495	.0014789	.0032421	.0047355	.07350	.0002000
%RSD	445.9075	141.0590	2.423810	54.74142	43.29625	.5071827	.3299711
#1	.0020569	-.000073	.0619084	.0023748	.0133623	14.51570	.0604318
#2	-.003364	-.000922	.0593079	.0087313	.0054806	14.41004	.0605620
#3	.003828	-.000058	.0618287	.0066614	.0139694	14.55139	.0608244

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008312**	**.0019123**	**4.039696**	**.6407255**	**.0108318**	**.3669613**	**23.96625**
Stddev	.0001025	.0000709	.017289	.0013153	.0001764	.0055232	.13587
%RSD	12.33625	3.708575	.4279886	.2052799	1.628947	1.505117	.5669415
#1	.0007136	.0019736	4.045869	.6418164	.0109516	.3655155	23.97093
#2	.0008777	.0019286	4.020167	.6410951	.0109146	.3623047	23.82809
#3	.0009023	.0018346	4.053052	.6392650	.0106292	.3730635	24.09971

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1729041**	**3.360120**	**.1140267**	**.0009206**	**.4765940**	**.0322080**	**.3446114**
Stddev	.0004004	.041793	.0005820	.0005429	.0133698	.0092381	.0012541
%RSD	.2315915	1.243802	.5103818	58.97341	2.805270	28.68276	.3639266
#1	.1726520	3.387710	.1144763	.0014018	.4870550	.0385853	.3438879
#2	.1726945	3.312036	.1142345	.0003320	.4615311	.0216139	.3460596
#3	.1733658	3.380615	.1133693	.0010280	.4811959	.0364248	.3438868

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8386515**	**.6357374**	**.0330328**	**.0081477**	**.5068212**	**2.249519**	**.0041027**
Stddev	.0106399	.0020689	.0008313	.0002897	.0011128	.026352	.0010019
%RSD	1.268692	.3254254	2.516666	3.555045	.2195650	1.171458	24.42012
#1	.8379077	.6371513	.0330364	.0078230	.5061604	2.231519	.0047405
#2	.8284030	.6366980	.0321997	.0083796	.5061973	2.237271	.0046196
#3	.8496437	.6333629	.0338623	.0082405	.5081060	2.279766	.0029479

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02LX5 Acquired: 6/23/2025 17:06:13 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3002542	.0511000	.0202798
Stddev	.0035917	.0054610	.0000861
%RSD	1.196231	10.68694	.4247990
#1	.3042498	.0448176	.0203688
#2	.2992190	.0547114	.0201968
#3	.2972937	.0537711	.0202739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5341.533	42756.36	2393.839	3811.439	5708.671
Stddev	20.262	227.92	25.385	27.006	21.736
%RSD	.3793236	.5330615	1.060444	.7085473	.3807509
#1	5334.375	42561.26	2392.197	3802.867	5700.773
#2	5325.822	42700.95	2420.006	3789.760	5691.989
#3	5364.402	43006.88	2369.315	3841.691	5733.252

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02MS Acquired: 6/23/2025 17:10:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8000856**	**2.008562**	**1.109202**	**1.797319**	**.4366309**	**72.01021**	**.3843062**
Stddev	.0057960	.010266	.003394	.005655	.0018843	.25221	.0013768
%RSD	.7244280	.5111011	.3059793	.3146278	.4315503	.3502428	.3582571
#1	.7933931	1.996716	1.105349	1.790790	.4344578	71.71898	.3830479
#2	.8034729	2.014127	1.111749	1.800658	.4378122	72.15541	.3840939
#3	.8033908	2.014844	1.110506	1.800510	.4376225	72.15623	.3857769

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1896423**	**.2085650**	**9.949306**	**3.313105**	**.2443593**	**2.751319**	**94.09041**
Stddev	.0019147	.0005758	.041621	.006566	.0006749	.022701	.39170
%RSD	1.009627	.2760845	.4183296	.1981976	.2761734	.8251063	.4163018
#1	.1899468	.2079531	9.901246	3.308192	.2437184	2.753716	93.65467
#2	.1913864	.2090963	9.973316	3.310561	.2442959	2.772727	94.20327
#3	.1875936	.2086455	9.973355	3.320563	.2450637	2.727514	94.41329

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7159620**	**14.66954**	**1.154152**	**.0667694**	**4.156140**	**.3958964**	**1.600836**
Stddev	.0061898	.02891	.001338	.0013822	.023821	.0034276	.005475
%RSD	.8645417	.1970660	.1159455	2.070083	.5731549	.8657885	.3420366
#1	.7088962	14.67556	1.153233	.0668712	4.162687	.3922600	1.596362
#2	.7185630	14.69496	1.155687	.0653392	4.176003	.3963615	1.606942
#3	.7204270	14.63810	1.153536	.0680979	4.129730	.3990677	1.599204

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.90866**	**9.446696**	**.2761644**	**.3880269**	**2.572014**	**11.81837**	**.7074908**
Stddev	.10152	.018729	.0007093	.0006773	.003211	.10896	.0035975
%RSD	.7864362	.1982570	.2568239	.1745368	.1248282	.9219259	.5084912
#1	13.00260	9.431619	.2753479	.3881915	2.568528	11.81595	.7044666
#2	12.92243	9.467662	.2765172	.3872825	2.572664	11.92851	.7114693
#3	12.80097	9.440808	.2766280	.3886066	2.574849	11.71064	.7065366

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02MS Acquired: 6/23/2025 17:10:35 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.471803**	**.2695776**	**.2392608**
Stddev	.008236	.0030925	.0006490
%RSD	.5595552	1.147170	.2712740
#1	1.462418	.2731112	.2385250
#2	1.475168	.2673645	.2395052
#3	1.477823	.2682573	.2397522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5589.349**	**45157.41**	**2554.449**	**4028.776**	**5426.814**
Stddev	19.852	284.06	9.462	14.230	10.320
%RSD	.3551774	.6290409	.3704162	.3532037	.1901708
#1	5572.986	45131.53	2546.498	4022.721	5419.144
#2	5611.434	45453.52	2551.935	4045.032	5438.547
#3	5583.629	44887.17	2564.914	4018.575	5422.750

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02MSD Acquired: 6/23/2025 17:14:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7878333**	**1.976840**	**1.126454**	**1.760574**	**.4328552**	**73.52341**	**.4064959**
Stddev	.0044792	.006388	.004413	.002856	.0018592	.26047	.0018512
%RSD	.5685408	.3231414	.3917313	.1622120	.4295292	.3542748	.4553994
#1	.7926753	1.970653	1.121440	1.757626	.4309096	73.43667	.4063357
#2	.7838377	1.976457	1.129745	1.763327	.4330419	73.81619	.4084220
#3	.7869868	1.983411	1.128178	1.760770	.4346140	73.31737	.4047300

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1851492**	**.2066213**	**11.87844**	**3.430807**	**.2471338**	**1.948032**	**102.3103**
Stddev	.0015301	.0001863	.03643	.006310	.0005316	.013891	.3203
%RSD	.8264385	.0901392	.3067072	.1839197	.2150985	.7130985	.3130329
#1	.1859080	.2064178	11.90120	3.423521	.2465283	1.958109	102.1369
#2	.1861517	.2066629	11.89771	3.434530	.2475237	1.953801	102.6798
#3	.1833880	.2067833	11.83643	3.434369	.2473494	1.932186	102.1141

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8140139**	**16.87448**	**1.085640**	**.0679083**	**4.113269**	**.3967432**	**1.449556**
Stddev	.0020979	.04684	.001415	.0002130	.022464	.0046775	.003171
%RSD	.2577241	.2775540	.1303259	.3135947	.5461240	1.178975	.2187610
#1	.8164363	16.84829	1.084422	.0677386	4.129360	.4007325	1.451926
#2	.8128039	16.92855	1.085304	.0678390	4.122842	.3915953	1.445954
#3	.8128015	16.84661	1.087192	.0681473	4.087605	.3979019	1.450788

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.09385**	**9.016257**	**.2650217**	**.3945696**	**2.593632**	**11.35003**	**.6943525**
Stddev	.11071	.011265	.0006701	.0005029	.005325	.06427	.0019522
%RSD	.8455010	.1249462	.2528485	.1274515	.2053098	.5662953	.2811535
#1	13.13485	9.009505	.2653237	.3939898	2.589048	11.39466	.6928363
#2	13.17820	9.010004	.2642538	.3948321	2.592375	11.37907	.6965552
#3	12.96848	9.029262	.2654877	.3948870	2.599473	11.27636	.6936661

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02MSD Acquired: 6/23/2025 17:14:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.528974	.2690833	.2413178
Stddev	.002893	.0027326	.0006233
%RSD	.1891906	1.015511	.2583023
#1	1.531123	.2661259	.2410462
#2	1.530113	.2696095	.2420309
#3	1.525685	.2715144	.2408764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5573.347	45626.76	2578.851	4066.052	5386.816
Stddev	6.258	99.97	16.011	9.871	4.371
%RSD	.1122766	.2191111	.6208417	.2427659	.0811390
#1	5579.182	45728.31	2570.293	4072.876	5391.833
#2	5574.120	45528.44	2568.937	4054.734	5384.784
#3	5566.739	45623.53	2597.321	4070.547	5383.831

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02A Acquired: 6/23/2025 17:19:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7947225**	**2.043766**	**1.289057**	**1.791086**	**.7661282**	**66.02115**	**.4368126**
Stddev	.0092248	.014140	.006334	.011969	.0026297	.30908	.0023545
%RSD	1.160759	.6918457	.4913660	.6682476	.3432422	.4681477	.5390147
#1	.7842153	2.028341	1.282330	1.777582	.7631601	66.22107	.4382614
#2	.7984608	2.046844	1.289935	1.795287	.7670573	65.66516	.4340959
#3	.8014915	2.056113	1.294906	1.800387	.7681672	66.17722	.4380804

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1809092**	**.2081015**	**18.81010**	**3.222500**	**.2531996**	**1.873107**	**109.5853**
Stddev	.0014023	.0011406	.04839	.001368	.0012637	.002868	.3197
%RSD	.7751438	.5480989	.2572810	.0424507	.4990794	.1531335	.2917581
#1	.1796432	.2068165	18.86127	3.223265	.2517436	1.873780	109.9521
#2	.1806680	.2084942	18.80396	3.223315	.2538454	1.869962	109.3651
#3	.1824165	.2089940	18.76506	3.220921	.2540100	1.875579	109.4388

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9279478**	**16.54326**	**1.068481**	**.0682345**	**4.506722**	**.3872764**	**1.726235**
Stddev	.0001438	.09014	.002354	.0009764	.017684	.0019162	.001613
%RSD	.0154911	.5448972	.2203076	1.430954	.3923962	.4947881	.0934653
#1	.9280960	16.47676	1.066095	.0671152	4.497233	.3850936	1.724919
#2	.9278090	16.50716	1.068546	.0686768	4.495808	.3886811	1.725750
#3	.9279384	16.64586	1.070802	.0689115	4.527126	.3880547	1.728035

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.78736**	**8.992652**	**.3848098**	**.4060684**	**2.611185**	**10.50169**	**.7301596**
Stddev	.13155	.041253	.0023672	.0020020	.002225	.01571	.0029695
%RSD	1.028775	.4587406	.6151554	.4930094	.0852117	.1495768	.4066975
#1	12.70859	8.953621	.3826416	.4038228	2.613550	10.49161	.7268086
#2	12.71426	8.988519	.3844523	.4067162	2.610870	10.49367	.7312057
#3	12.93923	9.035816	.3873353	.4076663	2.609134	10.51979	.7324645

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-02A Acquired: 6/23/2025 17:19:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.519411	.2484866	.2545314
Stddev	.005930	.0007051	.0016231
%RSD	.3902893	.2837705	.6376947
#1	1.517633	.2486798	.2538578
#2	1.514574	.2490750	.2533536
#3	1.526027	.2477050	.2563829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5600.513	45508.12	2589.904	4058.080	5387.925
Stddev	5.855	175.54	16.390	15.178	6.740
%RSD	.1045480	.3857361	.6328412	.3740160	.1251003
#1	5593.777	45367.98	2577.174	4042.246	5381.099
#2	5603.379	45705.01	2608.397	4072.503	5394.576
#3	5604.383	45451.36	2584.141	4059.490	5388.100

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-03 Acquired: 6/23/2025 17:23:26 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240928	.0050256	5.586585	.0978076	.0364198	173.1833	1.206178
Stddev	.0050209	.0023539	.015964	.0030212	.0028457	.3643	.002848
%RSD	20.83991	46.83803	.2857497	3.088931	7.813584	.2103709	.2361071
#1	.0291086	.0067413	5.572498	.1011647	.0379570	172.9541	1.207495
#2	.0241030	.0023421	5.583332	.0953072	.0381664	173.6034	1.208129
#3	.0190668	.0059934	5.603924	.0969511	.0331361	172.9924	1.202910

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107105	.0638093	80.37416	.8012119	.1739052	.9315950	330.7280
Stddev	.0002068	.0001564	.39534	.0009900	.0005343	.0064618	.9252
%RSD	1.931096	.2451642	.4918711	.1235695	.3072085	.6936332	.2797453
#1	.0105762	.0636294	80.54477	.8001966	.1732891	.9251751	331.2132
#2	.0109487	.0638846	80.65554	.8012645	.1741869	.9380980	331.3097
#3	.0106068	.0639138	79.92216	.8021746	.1742398	.9315119	329.6611

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.094233	65.16931	1.879651	.0014471	2.143804	.3450258	13.97865
Stddev	.020995	.29137	.004030	.0006774	.013579	.0057945	.03268
%RSD	.4121423	.4471042	.2144071	46.81306	.6333840	1.679445	.2337900
#1	5.102768	65.04308	1.875029	.0011439	2.134268	.3389959	13.99101
#2	5.109616	65.50251	1.881496	.0009742	2.159350	.3455296	14.00335
#3	5.070314	64.96233	1.882428	.0022232	2.137793	.3505520	13.94159

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.87111	5.538556	.0562048	.0301629	2.873657	5.097294	.0723362
Stddev	.27200	.007408	.0033511	.0001253	.009332	.040488	.0010129
%RSD	1.243650	.1337559	5.962247	.4152800	.3247364	.7943128	1.400199
#1	21.65194	5.530130	.0587475	.0300575	2.868829	5.058941	.0717539
#2	22.17552	5.541492	.0574595	.0303013	2.867728	5.139625	.0735058
#3	21.78588	5.544047	.0524075	.0301297	2.884414	5.093317	.0717490

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-03 Acquired: 6/23/2025 17:23:26 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.200558**	**.3613168**	**.1933991**
Stddev	.011618	.0056210	.0009719
%RSD	.2765846	1.555712	.5025234
#1	4.193091	.3647679	.1938743
#2	4.213944	.3643520	.1940421
#3	4.194640	.3548307	.1922811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5860.103**	**46392.65**	**2755.425**	**4201.022**	**4956.027**
Stddev	5.990	37.79	10.105	7.906	3.976
%RSD	.1022179	.0814486	.3667352	.1881958	.0802184
#1	5866.524	46350.83	2763.206	4194.245	4960.245
#2	5859.117	46424.34	2744.004	4199.113	4955.489
#3	5854.667	46402.79	2759.065	4209.708	4952.349

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-04 Acquired: 6/23/2025 17:27:47 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0553325	.0105361	2.832717	.0615017	.0378552	115.5476
Stddev	.0040898	.0021903	.019952	.0020203	.0031700	.3669
%RSD	7.391274	20.78873	.7043574	3.285014	8.374050	.3175388
#1	.0511054	.0081787	2.809700	.0594881	.0414634	115.3042
#2	.0556225	.0125082	2.843332	.0635287	.0355175	115.3689
#3	.0592695	.0109215	2.845117	.0614883	.0365848	115.9696

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.372067	.0086496	.0896093	38.15721	1.614811	.2086397
Stddev	.002411	.0000575	.0007749	.18250	.003043	.0010468
%RSD	.1757263	.6649204	.8647079	.4782763	.1884532	.5017436
#1	1.373833	.0085843	.0887312	38.28767	1.614443	.2074733
#2	1.369320	.0086719	.0901972	37.94866	1.611970	.2094976
#3	1.373048	.0086926	.0898995	38.23531	1.618022	.2089482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.694594	151.0976	1.770281	16.58128	.9997986	.0335261
Stddev	.014164	.2592	.003334	.10378	.0044630	.0005786
%RSD	.8358214	.1715757	.1883432	.6258807	.4463891	1.725769
#1	1.694608	151.2681	1.772892	16.66822	.9947854	.0335944
#2	1.680423	150.7993	1.766525	16.46639	1.003339	.0340675
#3	1.708751	151.2254	1.771426	16.60923	1.001271	.0329164

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.708320	.2463982	F 63.15540	6.791452	11.96836	.0208646
Stddev	.011093	.0032352	.25563	.050115	.15602	.0005121
%RSD	.6493479	1.313005	.4047626	.7379128	1.303574	2.454158
#1	1.700740	.2498454	63.32362	6.738493	11.80472	.0204204
#2	1.703168	.2459214	62.86124	6.797731	12.11543	.0214246
#3	1.721052	.2434279	63.28135	6.838131	11.98493	.0207487

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2364-04 Acquired: 6/23/2025 17:27:47 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165098	F 83.14232	8.564990	.1502821	.9805216	.2315585
Stddev	.0002518	1.14433	.052080	.0019258	.0015991	.0034902
%RSD	1.525336	1.376347	.6080612	1.281466	.1630905	1.507255
#1	.0166032	82.02355	8.551711	.1485765	.9804433	.2282580
#2	.0167016	84.31060	8.520834	.1498993	.9789630	.2312061
#3	.0162246	83.09281	8.622424	.1523706	.9821584	.2352116

Elem	Sr4077
Units	ppm
Avg	.3414723
Stddev	.0003679
%RSD	.1077253
#1	.3414828
#2	.3410994
#3	.3418348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5486.112	46169.87	2675.051	4131.109	5044.756
Stddev	44.819	84.59	14.081	1.767	36.223
%RSD	.8169558	.1832168	.5263659	.0427645	.7180340
#1	5491.893	46257.60	2680.882	4131.573	5064.144
#2	5438.682	46088.81	2685.278	4129.156	5002.965
#3	5527.759	46163.19	2658.991	4132.597	5067.158

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-01 Acquired: 6/23/2025 17:32:27 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0529177**	**-.029932**	**.2372989**	**.0846448**	**.0268711**	**136.8378**	**.9058530**
Stddev	.0025633	.001795	.0020770	.0010402	.0018228	.7264	.0034479
%RSD	4.843954	5.996767	.8752592	1.228889	6.783644	.5308829	.3806196
#1	.0499579	-.028815	.2393216	.0835093	.0288820	137.3534	.9033380
#2	.0543821	-.032002	.2374036	.0855517	.0253273	136.0069	.9097833
#3	.0544132	-.028978	.2351716	.0848734	.0264039	137.1529	.9044376

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0142525**	**.0002184**	**38.11213**	**.2504291**	**.2059459**	**1.289995**	**276.2709**
Stddev	.0041861	.0000877	.07070	.0041696	.0009258	.331573	.5917
%RSD	29.37135	40.16878	.1855107	1.664975	.4495109	25.70346	.2141722
#1	.0108348	.0002709	38.06674	.2549716	.2053475	1.006784	276.1408
#2	.0189216	.0002672	38.19359	.2467760	.2054779	1.654725	276.9168
#3	.0130010	.0001171	38.07606	.2495396	.2070122	1.208477	275.7550

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.441783**	**70.02609**	**.3476128**	**-.001645**	**17.51760**	**.3660517**	**.6149014**
Stddev	.009519	.23752	.0004240	.001416	4.01877	.0025465	.0187345
%RSD	.1477761	.3391877	.1219800	86.08107	22.94133	.6956623	3.046756
#1	6.441076	70.20164	.3479763	-.003270	14.40996	.3660712	.6364595
#2	6.451637	70.12081	.3477150	-.000984	22.05595	.3634955	.6025665
#3	6.432637	69.75583	.3471470	-.000680	16.08688	.3685883	.6056784

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.64083**	**8.467786**	**.0110770**	**.0036074**	**1.141303**	**5.089443**	**.0152899**
Stddev	4.54111	.031990	.0827063	.0003989	.003199	1.300001	.0009908
%RSD	19.20876	.3777827	746.6500	11.05651	.2802923	25.54308	6.480462
#1	21.20913	8.430875	.0820327	.0035137	1.137613	3.999775	.0147930
#2	28.87996	8.487467	-.079757	.0032638	1.143008	6.528407	.0146457
#3	20.83340	8.485016	.030955	.0040448	1.143289	4.740147	.0164308

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-01 Acquired: 6/23/2025 17:32:27 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.284033	.2509305	.1835006
Stddev	.011550	.0063152	.0002892
%RSD	.1837961	2.516691	.1576073
#1	6.270747	.2480853	.1834864
#2	6.289676	.2581678	.1832188
#3	6.291677	.2465386	.1837967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6802.162	50102.04	2910.445	4556.825	4914.656
Stddev	3.512	6425.90	504.688	532.415	8.899
%RSD	.0516269	12.82562	17.34059	11.68391	.1810768
#1	6806.166	42682.14	3182.006	3942.089	4924.124
#2	6799.605	53780.37	2328.121	4870.581	4913.381
#3	6800.715	53843.62	3221.209	4857.805	4906.463

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-05 Acquired: 6/23/2025 17:36:50 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0588319**	**-.022083**	**.2743549**	**.0914577**	**.0232403**	**136.2294**	**.9813667**
Stddev	.0039259	.002073	.0029141	.0007915	.0016399	.4240	.0029328
%RSD	6.673064	9.388715	1.062167	.8654432	7.056202	.3112446	.2988451
#1	.0549249	-.024469	.2732529	.0920219	.0219009	136.2496	.9799092
#2	.0627764	-.020719	.2776594	.0905529	.0227508	136.6430	.9847427
#3	.0587944	-.021061	.2721526	.0917982	.0250692	135.7957	.9794482

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147209**	**.0003108**	**26.64738**	**.2506488**	**.2176345**	**.6927405**	**290.9337**
Stddev	.0002811	.0001183	.10205	.0005998	.0008942	.0106981	.8544
%RSD	1.909572	38.06880	.3829501	.2393198	.4108773	1.544315	.2936857
#1	.0149229	.0003125	26.57824	.2509343	.2167196	.6936717	290.4585
#2	.0148400	.0001916	26.76459	.2499595	.2176775	.7029426	291.9201
#3	.0143999	.0004282	26.59932	.2510526	.2185064	.6816073	290.4226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.768225**	**65.21406**	**.3779209**	**-.001593**	**10.21095**	**.3696691**	**.6489272**
Stddev	.017243	.31063	.0001770	.000686	.13989	.0045608	.0004226
%RSD	.2219674	.4763179	.0468327	43.06568	1.370027	1.233741	.0651279
#1	7.757832	65.02575	.3778585	-.001330	10.23319	.3664477	.6489695
#2	7.788129	65.57259	.3781206	-.001077	10.33840	.3748877	.6493271
#3	7.758715	65.04383	.3777835	-.002372	10.06127	.3676717	.6484851

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.07348**	**10.79651**	**.0234786**	**.0031279**	**.6928508**	**6.873297**	**.0099364**
Stddev	.35370	.01293	.0044412	.0001315	.0030120	.102280	.0009917
%RSD	1.602386	.1197609	18.91602	4.203059	.4347269	1.488085	9.980670
#1	21.99545	10.79188	.0225082	.0031127	.6905456	6.883122	.0109511
#2	22.45968	10.81112	.0196028	.0032663	.6962588	6.970311	.0098889
#3	21.76530	10.78653	.0283247	.0030047	.6917481	6.766459	.0089694

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2367-05 Acquired: 6/23/2025 17:36:50 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.544055**	**.2456139**	**.1438001**
Stddev	.015669	.0038170	.0001802
%RSD	.2826263	1.554074	.1253161
#1	5.529491	.2415152	.1437767
#2	5.560634	.2490669	.1439909
#3	5.542042	.2462597	.1436328

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6852.196**	**53696.22**	**3136.545**	**4848.604**	**4948.154**
Stddev	9.253	170.46	40.804	8.161	6.758
%RSD	.1350317	.3174521	1.300923	.1683221	.1365825
#1	6852.875	53758.59	3134.074	4856.810	4947.072
#2	6842.622	53826.72	3097.032	4848.515	4942.002
#3	6861.090	53503.36	3178.528	4840.488	4955.388

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2371-04 Acquired: 6/23/2025 17:41:13 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0202132**	**-.012290**	**.1687138**	**.0733057**	**.0147633**	**107.8662**	**.6609852**
Stddev	.0019149	.002372	.0005293	.0023274	.0015650	.1811	.0007745
%RSD	9.473415	19.30036	.3137207	3.174878	10.60057	.1678819	.1171671
#1	.0187362	-.010246	.1688545	.0733218	.0132181	108.0466	.6610051
#2	.0195267	-.011732	.1691585	.0756250	.0147245	107.8677	.6617494
#3	.0223767	-.014891	.1681284	.0709704	.0163474	107.6844	.6602009

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095594**	**-.001735**	**10.54567**	**.1572852**	**.1225154**	**.2921767**	**221.3551**
Stddev	.0000479	.000055	.06563	.0008673	.0004671	.0036212	.9795
%RSD	.5011311	3.168749	.6223246	.5514022	.3812239	1.239380	.4424806
#1	.0095438	-.001688	10.54756	.1567594	.1230320	.2922349	221.4189
#2	.0096131	-.001795	10.61033	.1568100	.1221229	.2957684	222.3011
#3	.0095212	-.001721	10.47911	.1582862	.1223913	.2885268	220.3453

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.085417**	**32.67722**	**.2141881**	**-.000127**	**8.121307**	**.2123493**	**.5297855**
Stddev	.019803	.17980	.0002771	.000610	.079645	.0021536	.0021074
%RSD	.3894146	.5502320	.1293573	480.1131	.9806886	1.014153	.3977732
#1	5.099984	32.64941	.2144220	.000571	8.114891	.2103939	.5283611
#2	5.093399	32.86930	.2138821	-.000396	8.203966	.2146574	.5322063
#3	5.062868	32.51294	.2142602	-.000557	8.045064	.2119965	.5287891

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.24720**	**5.763595**	**.0174163**	**.0022791**	**.1060247**	**6.077503**	**.0102568**
Stddev	.10604	.006783	.0017795	.0003880	.0017376	.059764	.0004080
%RSD	.8657990	.1176920	10.21719	17.02445	1.638875	.9833713	3.977975
#1	12.17829	5.759056	.0191968	.0024888	.1071931	6.061266	.0107246
#2	12.36930	5.760336	.0156378	.0025173	.1040279	6.143707	.0100717
#3	12.19400	5.771393	.0174144	.0018314	.1068531	6.027534	.0099742

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2371-04 Acquired: 6/23/2025 17:41:13 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.812957**	**.1724881**	**.0781224**
Stddev	.014711	.0063956	.0002979
%RSD	.5229646	3.707870	.3813133
#1	2.816809	.1700426	.0783334
#2	2.825358	.1797457	.0782522
#3	2.796703	.1676761	.0777816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6123.942**	**47864.40**	**2752.801**	**4324.272**	**5185.075**
Stddev	13.252	69.65	27.916	15.288	11.221
%RSD	.2164018	.1455129	1.014110	.3535284	.2164121
#1	6108.761	47831.43	2755.428	4324.049	5172.159
#2	6133.196	47817.36	2723.664	4309.098	5190.641
#3	6129.869	47944.41	2779.312	4339.670	5192.425

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV05 Acquired: 6/23/2025 17:45:39 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.201372**	**5.142784**	**5.205952**	**5.046557**	**4.937882**	**10.51378**	**10.16211**
Stddev	.035636	.038150	.034487	.022653	.023910	.05139	.05712
%RSD	.6851348	.7418133	.6624519	.4488705	.4842081	.4888049	.5620911
#1	5.167725	5.101050	5.169753	5.023879	4.912303	10.57256	10.22641
#2	5.238710	5.175862	5.238425	5.069184	4.959669	10.47734	10.11723
#3	5.197681	5.151441	5.209677	5.046609	4.941673	10.49144	10.14269

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2604687**	**2.591435**	**24.45739**	**1.004229**	**2.598738**	**1.294056**	**4.880617**
Stddev	.0017708	.015372	.21395	.002826	.014212	.009464	.027281
%RSD	.6798370	.5931756	.8748027	.2814459	.5468822	.7313297	.5589583
#1	.2622960	2.575455	24.69706	1.006153	2.584482	1.304978	4.906195
#2	.2587605	2.606116	24.28563	1.000984	2.612906	1.288296	4.883751
#3	.2603497	2.592734	24.38949	1.005551	2.598827	1.288893	4.851905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.470922**	**24.76103**	**2.581058**	**1.258419**	**24.97327**	**2.469578**	**2.454832**
Stddev	.010510	.14773	.014015	.000881	.22235	.018986	.007422
%RSD	.4253659	.5966184	.5430005	.0700270	.8903320	.7688131	.3023414
#1	2.482718	24.90926	2.567433	1.257423	25.22142	2.486601	2.460651
#2	2.462553	24.61381	2.595433	1.259100	24.79216	2.449102	2.446473
#3	2.467494	24.76002	2.580307	1.258733	24.90622	2.473031	2.457370

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.81762**	**5.193672**	**5.151151**	**5.075749**	**5.245907**	**5.156000**	**5.232828**
Stddev	.20866	.033258	.030795	.027675	.040421	.033588	.035389
%RSD	.8760705	.6403477	.5978186	.5452409	.7705292	.6514356	.6762871
#1	24.01684	5.161193	5.185706	5.049063	5.203076	5.191610	5.195718
#2	23.60066	5.227657	5.126609	5.104317	5.283385	5.124886	5.266199
#3	23.83537	5.192167	5.141137	5.073867	5.251261	5.151505	5.236567

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV05 Acquired: 6/23/2025 17:45:39 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.031264**	**5.015316**	**5.042257**
Stddev	.027952	.044565	.030523
%RSD	.5555708	.8885750	.6053376
#1	5.062442	5.066479	5.076589
#2	5.008446	4.984959	5.018190
#3	5.022904	4.994510	5.031992

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4917.458**	**39474.35**	**2191.713**	**3526.830**	**5024.270**
Stddev	22.102	103.77	19.371	22.239	23.894
%RSD	.4494535	.2628756	.8838357	.6305568	.4755694
#1	4934.691	39415.55	2172.421	3516.986	5041.309
#2	4892.539	39594.16	2211.162	3552.292	4996.958
#3	4925.143	39413.33	2191.555	3511.213	5034.543

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB05 Acquired: 6/23/2025 17:49:55 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001192**	**.0020266**	**.0004507**	**-.001475**	**-.000771**	**-.011250**
Stddev	.002010	.0016935	.0006803	.002239	.000934	.015593
%RSD	168.7329	83.56539	150.9314	151.8162	121.0981	138.5999
#1	-.001011	.0035143	.0004087	-.000267	.000229	-.007842
#2	-.003286	.0001836	.0011511	-.000099	-.001620	-.028266
#3	.000723	.0023818	-.000208	-.004058	-.000924	.002357

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003149**	**-.000028**	**.0000147**	**-.012978**	**-.000145**	**-.000183**
Stddev	.0008626	.000127	.0000995	.017541	.000804	.000143
%RSD	273.9606	458.4156	675.8489	135.1613	555.9208	77.91675
#1	.0008143	.000115	-.000090	-.008622	-.000032	-.000221
#2	-.000681	-.000126	.000108	.001975	-.000999	-.000026
#3	.000812	-.000072	.000026	-.032286	.000598	-.000304

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012512**	**-.007611**	**-.000030**	**-.033083**	**.0001063**	**.0007465**
Stddev	.0003206	.009915	.000384	.020911	.0002000	.0004327
%RSD	25.62614	130.2627	1294.577	63.20716	188.1302	57.96236
#1	.0014789	.003739	.000097	-.048001	-.000125	.0008946
#2	.0013902	-.014582	-.000462	-.009182	.000218	.0002592
#3	.0008845	-.011992	.000275	-.042065	.000225	.0010857

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0323987**	**.0044660**	**-.000244**	**.0077914**	**-.001665**	**.0107722**
Stddev	.0036810	.0016047	.000331	.0004439	.000270	.0015231
%RSD	11.36154	35.93098	135.2081	5.697103	16.22570	14.13918
#1	.0332396	.0029192	-.000246	.0082423	-.001581	.0104585
#2	.0355865	.0061229	-.000574	.0073549	-.001447	.0094304
#3	.0283701	.0043559	.000087	.0077770	-.001968	.0124278

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB05 Acquired: 6/23/2025 17:49:55 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001656	-.004488	.0000136	-.000285	-.000459	F .0413389
Stddev	.0003229	.001339	.0001673	.000434	.002108	.0054958
%RSD	195.0178	29.83337	1233.955	152.3189	459.3385	13.29449
#1	.0000788	-.002967	.0001235	-.000265	.000702	.0384544
#2	.0005230	-.005007	-.000179	.000139	.000813	.0378858
#3	-.000105	-.005490	.000096	-.000728	-.002892	.0476763

Elem	Sr4077
Units	ppm
Avg	-.000190
Stddev	.000056
%RSD	29.34559
#1	-.000184
#2	-.000138
#3	-.000250

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5172.311	41276.04	2256.118	3658.519	5818.442
Stddev	14.536	84.09	3.045	13.408	14.766
%RSD	.2810360	.2037247	.1349639	.3664783	.2537712
#1	5180.171	41202.12	2255.879	3654.567	5826.577
#2	5181.225	41367.52	2253.200	3673.458	5827.352
#3	5155.537	41258.48	2259.276	3647.531	5801.399

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2371-05 Acquired: 6/23/2025 17:54:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221766**	**-.009088**	**.1534839**	**.0813804**	**.0167587**	**149.1877**	**.6386597**
Stddev	.0037575	.001043	.0016917	.0017413	.0010159	.8413	.0041758
%RSD	16.94363	11.48057	1.102171	2.139655	6.061965	.5639304	.6538440
#1	.0179110	-.010064	.1515707	.0805034	.0176546	148.6459	.6351511
#2	.0236220	-.007988	.1540991	.0833858	.0156549	150.1569	.6432784
#3	.0249967	-.009212	.1547819	.0802521	.0169665	148.7604	.6375497

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084265**	**-.002970**	**8.432124**	**.1645964**	**.1247645**	**.2262754**	**237.9504**
Stddev	.0001282	.000094	.067242	.0015615	.0005232	.0041827	1.2248
%RSD	1.520751	3.159017	.7974532	.9487093	.4193081	1.848505	.5147145
#1	.0083473	-.002977	8.398178	.1663741	.1249524	.2259017	236.8812
#2	.0085744	-.003060	8.509572	.1634463	.1241733	.2306324	239.2867
#3	.0083579	-.002873	8.388621	.1639688	.1251677	.2222921	237.6834

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.693513**	**32.93139**	**.1948858**	**.0007760**	**1.011104**	**.2338265**	**.4594915**
Stddev	.024734	.26415	.0003404	.0005642	.022135	.0055670	.0011853
%RSD	.6696554	.8021339	.1746765	72.69915	2.189186	2.380806	.2579560
#1	3.669091	32.77411	.1947786	.0006553	1.013783	.2396497	.4583012
#2	3.718547	33.23636	.1952669	.0002820	1.031777	.2332726	.4606717
#3	3.692900	32.78371	.1946119	.0013908	.987751	.2285572	.4595016

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.61098**	**2.273400**	**.0188855**	**.0036274**	**3.338301**	**13.30253**	**.0112065**
Stddev	.20809	.002928	.0043988	.0001273	.006187	.22787	.0007029
%RSD	1.792208	.1287742	23.29205	3.508571	.1853299	1.713020	6.272430
#1	11.68157	2.270078	.0190869	.0037615	3.331933	13.29706	.0104510
#2	11.77460	2.275606	.0143894	.0035083	3.344289	13.53309	.0118413
#3	11.37678	2.274515	.0231801	.0036125	3.338681	13.07744	.0113271

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2371-05 Acquired: 6/23/2025 17:54:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.749681**	**.1711292**	**.0758678**
Stddev	.014583	.0043448	.0004557
%RSD	.5303616	2.538897	.6006919
#1	2.740604	.1739355	.0753743
#2	2.766503	.1733276	.0762728
#3	2.741937	.1661246	.0759564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5472.998**	**42682.06**	**2470.144**	**3892.893**	**5284.690**
Stddev	13.274	144.36	36.254	13.338	14.341
%RSD	.2425321	.3382286	1.467669	.3426147	.2713707
#1	5464.435	42636.70	2478.588	3902.482	5272.277
#2	5488.288	42843.65	2430.414	3898.537	5300.389
#3	5466.269	42565.82	2501.431	3877.662	5281.404

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168551BL Acquired: 6/23/2025 17:58:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004031	-.000036	.0005383	.0005010	.0004321	.0152579
Stddev	.001837	.000823	.0007571	.0038812	.0032930	.0289103
%RSD	45.58541	2302.956	140.6382	774.7553	762.1574	189.4783
#1	-.002917	.000233	-.000214	-.002621	-.003188	-.012906
#2	-.003023	.000619	.001301	-.000722	.003250	.044861
#3	-.006151	-.000960	.000528	.004846	.001234	.013819

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009455	-.000082	-.000017	-.025488	.0002147	-.000153
Stddev	.0007716	.000115	.000041	.004257	.0008042	.000286
%RSD	81.60361	140.6700	235.7192	16.70237	374.4713	186.6789
#1	.0018257	-.000196	-.000062	-.029401	-.000058	-.000018
#2	.0003861	-.000083	-.000009	-.020955	-.000417	.000041
#3	.0006247	.000034	.000019	-.026107	.001120	-.000482

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011993	-.010525	-.000002	-.028801	-.000001	.0011250
Stddev	.0003689	.015325	.000877	.018985	.000151	.0007652
%RSD	30.76325	145.5996	40252.36	65.91762	19781.03	68.01387
#1	.0013969	-.017344	-.000699	-.024639	-.000021	.0008887
#2	.0014274	.007025	-.000290	-.049521	-.000141	.0019805
#3	.0007736	-.021258	.000983	-.012242	.000160	.0005059

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305058	-.004134	-.000519	.0075758	-.001298	-.001797
Stddev	.0092192	.008538	.000218	.0005874	.001348	.001072
%RSD	30.22111	206.5474	42.10338	7.753771	103.8996	59.65523
#1	.0309424	-.012609	-.000757	.0074729	-.001953	-.000560
#2	.0210761	-.004257	-.000471	.0082078	-.002193	-.002363
#3	.0394989	.004465	-.000328	.0070466	.000253	-.002467

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168551BL Acquired: 6/23/2025 17:58:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000035**	**-.003638**	**-.000578**	**-.000165**	**-.001767**	F **.0348461**
Stddev	.000150	.002111	.002039	.000851	.001055	.0040490
%RSD	430.5239	58.02435	352.7929	516.0490	59.71877	11.61958
#1	-.000194	-.002696	-.002486	.000558	-.002891	.0336109
#2	-.000014	-.002162	-.000818	.000050	-.000797	.0315585
#3	.000103	-.006056	.001570	-.001103	-.001612	.0393688

Elem	Sr4077
Units	ppm
Avg	**-.000338**
Stddev	.000085
%RSD	25.13202
#1	-.000253
#2	-.000423
#3	-.000338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5217.548**	**41893.54**	**2290.664**	**3709.704**	**5870.885**
Stddev	16.207	68.58	19.714	12.977	14.914
%RSD	.3106309	.1637124	.8606372	.3498178	.2540400
#1	5227.550	41893.55	2309.676	3723.536	5870.443
#2	5198.849	41824.95	2292.000	3697.797	5856.196
#3	5226.247	41962.12	2270.315	3707.779	5886.015

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168551BS Acquired: 6/23/2025 18:03:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7383780	k 2.065948	.9659126	1.954399	k .7661852	2.060278	.1995263
Stddev	.0030172	.004891	.0025614	.007186	.0015647	.005760	.0008958
%RSD	.4086228	.2367669	.2651842	.3676889	.2042145	.2795955	.4489844
#1	.7371954	2.071085	.9665347	1.955233	.7643823	2.066758	.2005247
#2	.7361312	k 2.061346	.9630974	1.946832	k .7671879	2.058339	.1992613
#3	.7418073	2.065413	.9681057	1.961131	.7669854	2.055737	.1987928

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2071858	.1921275	1.032954	s .7114431	.1972037	.3175144	3.016890
Stddev	.0003376	.0004427	.010394	.5555805	.0003049	.0009929	.019849
%RSD	.1629696	.2304242	1.006285	78.09205	.1545999	.3127076	.6579235
#1	.2075528	.1923910	1.037185	.3948449	.1974003	.3177129	3.022667
#2	.2071164	.1916164	1.021111	s 1.352954	.1968525	.3164373	3.033209
#3	.2068882	.1923751	1.040566	.386530	.1973583	.3183931	2.994793

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1962555	1.929059	.4929885	s .1309459	2.766999	k .2869706	.1977790
Stddev	.0014115	.021430	.0006409	.0981260	.032623	.0010441	.0008676
%RSD	.7192013	1.110929	.1299999	74.93623	1.179008	.3638456	.4386651
#1	.1946484	1.936263	.4935799	.0739452	2.800245	.2881210	.1984273
#2	.1968238	1.904955	.4923075	s .2442513	2.735037	k .2867076	.1981164
#3	.1972942	1.945960	.4930780	.0746413	2.765715	.2860831	.1967934

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	5.586727	k .2921882	.3894656	-.003674	.8937972	.6766016
Stddev	-----	.009617	.0011535	.0001170	.000891	.0022246	.0012195
%RSD	-----	.1721455	.3947712	.0300416	24.26226	.2488932	.1802412
#1	7.953838	5.592216	.2934980	.3893308	-.004701	.8956483	.6774148
#2	^ -----	5.575622	k .2917426	.3895253	-.003097	.8913293	.6751994
#3	7.937677	5.592343	.2913239	.3895407	-.003224	.8944142	.6771907

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: PB168551BS Acquired: 6/23/2025 18:03:18 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.1869204**	**.2410679**	**.1960127**
Stddev	.0018557	.0048756	.0003004
%RSD	.9927818	2.022514	.1532510
#1	.1847795	.2363513	.1962124
#2	.1879135	.2407642	.1956673
#3	.1880683	.2460883	.1961585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5179.063**	^ *****	**2299.877**	**3702.532**	**5674.820**
Stddev	13.770	-----	7.140	4.204	14.027
%RSD	.2658789	-----	.3104397	.1135481	.2471855
#1	5185.679	41674.47	2297.294	3701.744	5674.115
#2	5188.277	^ -----	2307.949	3698.777	5689.187
#3	5163.234	42080.46	2294.388	3707.074	5661.159

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2351-01 Acquired: 6/23/2025 18:07:37 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002877**	**-.000862**	**.0350210**	**-.003757**	**.0056136**	**3.109824**	**.0328838**
Stddev	.002185	.000921	.0014395	.003674	.0015084	.021467	.0000515
%RSD	75.96301	106.8110	4.110467	97.79109	26.87020	.6903069	.1566577
#1	-.005176	-.000419	.0333635	-.002220	.0068903	3.117416	.0329197
#2	-.002628	-.000247	.0359578	-.007951	.0039492	3.085592	.0329068
#3	-.000826	-.001920	.0357418	-.001102	.0060012	3.126463	.0328247

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001416**	**.0002199**	**12.96605**	**.0127302**	**.0135551**	**.0859964**	**3.258388**
Stddev	.0000726	.0000747	.09168	.0000971	.0001042	.0006623	.031195
%RSD	51.28419	33.98490	.7070732	.7626927	.7688910	.7701971	.9573813
#1	.0000708	.0002099	12.87259	.0128235	.0136259	.0862634	3.233434
#2	.0002159	.0001506	12.96973	.0126297	.0136040	.0852423	3.248369
#3	.0001380	.0002991	13.05583	.0127376	.0134354	.0864836	3.293362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1485665**	**1.945413**	**.0054189**	**.0035085**	**11.31759**	**.0108221**	**.2530066**
Stddev	.0009939	.012867	.0003762	.0005430	.14752	.0085398	.0001552
%RSD	.6690022	.6614250	6.943073	15.47629	1.303435	78.91091	.0613404
#1	.1475264	1.930981	.0051433	.0041093	11.28422	.0010983	.2531774
#2	.1486666	1.949567	.0058476	.0030529	11.18961	.0171034	.2529684
#3	.1495066	1.955690	.0052659	.0033632	11.47893	.0142646	.2528741

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.005783**	**.6453577**	**.0252980**	**.0024317**	**2.119434**	**11.72503**	**.0046807**
Stddev	.012641	.0101195	.0015124	.0001510	.036998	.13902	.0005353
%RSD	1.256827	1.568048	5.978136	6.208531	1.745640	1.185661	11.43546
#1	1.005918	.6369305	.0238043	.0022575	2.094631	11.70798	.0048453
#2	.993075	.6425612	.0252614	.0025253	2.101712	11.59532	.0051143
#3	1.018356	.6565814	.0268284	.0025122	2.161959	11.87178	.0040825

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2351-01 Acquired: 6/23/2025 18:07:37 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0985433	.0207496	.0719829
Stddev	.0042223	.0050542	.0003835
%RSD	4.284728	24.35796	.5327894
#1	.0939472	.0260595	.0718431
#2	.0994324	.0201921	.0716888
#3	.1022502	.0159973	.0724167

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5246.774	43161.51	2426.177	3797.395	5689.508
Stddev	189.463	160.93	25.448	14.921	202.915
%RSD	3.611044	.3728539	1.048892	.3929391	3.566475
#1	5350.458	43199.34	2432.470	3800.085	5808.827
#2	5361.765	42985.04	2447.888	3781.311	5804.482
#3	5028.098	43300.15	2398.173	3810.788	5455.216

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-05 Acquired: 6/23/2025 18:12:00 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.019939	.0042532	7.502820	-.016161	.0481969	2.511697
Stddev	.004726	.0009984	.076753	.002227	.0035186	.023713
%RSD	23.70269	23.47378	1.022988	13.78194	7.300412	.9441209
#1	-.021483	.0051228	7.574352	-.014287	.0498943	2.513432
#2	-.014634	.0031629	7.512368	-.015573	.0505451	2.487164
#3	-.023700	.0044738	7.421739	-.018624	.0441515	2.534496

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2197868	.0002071	.0160904	92.89518	.0129911	.0315543
Stddev	.0011304	.0001322	.0001714	.53234	.0010650	.0001856
%RSD	.5143016	63.85908	1.065432	.5730520	8.198168	.5881166
#1	.2190708	.0002487	.0162073	92.61584	.0118448	.0317681
#2	.2210899	.0003134	.0161703	93.50905	.0139500	.0314356
#3	.2191997	.0000590	.0158936	92.56067	.0131786	.0314591

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4955195	17.96511	1.671296	7.798596	.0398946	.0019471
Stddev	.0044328	.06284	.010296	.029101	.0005053	.0005084
%RSD	.8945706	.3497739	.6160570	.3731570	1.266619	26.11259
#1	.4992351	17.90615	1.660554	7.768873	.0400783	.0013627
#2	.4906129	18.03122	1.681080	7.827032	.0402825	.0021905
#3	.4967106	17.95796	1.672253	7.799883	.0393232	.0022880

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.85923	.0164506	3.268249	^ *****	1.294942	.0380696
Stddev	7.43525	.0095687	.016419	-----	.025716	.0014518
%RSD	7.445734	58.16601	.5023685	-----	1.985856	3.813656
#1	96.64914	.0264680	3.267781	^ -----	1.320976	.0390388
#2	108.3603	.0074047	3.284896	^ -----	1.294293	.0364004
#3	94.5683	.0154792	3.252069	^ -----	1.269557	.0387696

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2354-05 Acquired: 6/23/2025 18:12:00 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112424	13.86297	F 13.50593	.0124894	.1043890	.0341239
Stddev	.0004231	.31524	.29275	.0017556	.0033655	.0025676
%RSD	3.763603	2.273983	2.167537	14.05664	3.224030	7.524485
#1	.0108343	14.21780	13.45552	.0109706	.1013550	.0364653
#2	.0116791	13.75594	13.82061	.0144116	.1080090	.0313780
#3	.0112139	13.61518	13.24166	.0120860	.1038030	.0345285

Elem	Sr4077
Units	ppm
Avg	.4055707
Stddev	.0011580
%RSD	.2855338
#1	.4042481
#2	.4064026
#3	.4060613

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4796.887	37847.71	2291.989	3473.545	4726.243
Stddev	68.629	647.77	39.094	50.519	74.838
%RSD	1.430693	1.711506	1.705692	1.454383	1.583465
#1	4719.145	38137.73	2300.985	3443.505	4639.844
#2	4849.063	37105.61	2249.181	3531.870	4770.924
#3	4822.453	38299.78	2325.802	3445.260	4767.961

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-01 Acquired: 6/23/2025 18:16:21 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.021086**	**-.000096**	**.0139720**	**-.016506**	**.0051207**	**.1722867**
Stddev	.002261	.001452	.0011350	.001062	.0022050	.0201272
%RSD	10.72229	1513.496	8.123528	6.436584	43.05969	11.68242
#1	-.022847	.001555	.0140407	-.017105	.0025896	.1567807
#2	-.021874	-.000666	.0128041	-.015279	.0066246	.1650469
#3	-.018536	-.001176	.0150711	-.017133	.0061480	.1950323

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0945217**	**-.000147**	**.0015995**	**57.21103**	**.0069514**	**.0161305**
Stddev	.0008672	.000050	.0000682	.16739	.0010170	.0004802
%RSD	.9175141	33.77779	4.263469	.2925867	14.63033	2.977002
#1	.0936079	-.000091	.0016399	57.17159	.0062010	.0162768
#2	.0953333	-.000185	.0015208	57.39463	.0065443	.0155942
#3	.0946239	-.000165	.0016379	57.06689	.0081089	.0165206

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078299**	**.8762383**	**.1510809**	**10.10162**	**.0114435**	**.0001031**
Stddev	.0001497	.0106667	.0017940	.03161	.0002782	.0005121
%RSD	1.911372	1.217332	1.187440	.3128875	2.431099	496.6881
#1	.0077364	.8854372	.1491182	10.07991	.0113756	.0006864
#2	.0080025	.8787319	.1526361	10.13788	.0117493	-.000273
#3	.0077508	.8645456	.1514885	10.08706	.0112055	-.000104

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**114.8894**	**.0026404**	**.2213729**	**8.611913**	**.0488352**	**.0931113**
Stddev	1.0312	.0036553	.0062308	.152178	.0005791	.0010690
%RSD	.8975900	138.4374	2.814627	1.767064	1.185793	1.148058
#1	113.7162	.0052072	.2172515	8.473144	.0488050	.0927132
#2	115.2994	-.001545	.2285408	8.774655	.0494288	.0922985
#3	115.6526	.004259	.2183263	8.587941	.0482719	.0943222

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-01 Acquired: 6/23/2025 18:16:21 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026238	21.16771	F 15.72665	.0027701	.0044767	.0253342
Stddev	.0005513	.00403	.10080	.0004718	.0018138	.0004381
%RSD	21.01093	.0190189	.6409239	17.03278	40.51603	1.729078
#1	.0020337	21.16981	15.63519	.0022770	.0061094	.0248542
#2	.0027120	21.17026	15.83472	.0028160	.0025244	.0254359
#3	.0031256	21.16307	15.71004	.0032173	.0047962	.0257124

Elem	Sr4077
Units	ppm
Avg	.2753737
Stddev	.0006923
%RSD	.2514092
#1	.2750360
#2	.2761700
#3	.2749150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4976.817	39256.77	2284.478	3499.472	5207.437
Stddev	18.312	1094.66	18.210	99.852	20.424
%RSD	.3679560	2.788461	.7971080	2.853335	.3922082
#1	4977.440	39948.88	2301.379	3559.453	5212.707
#2	4994.810	37994.74	2265.194	3384.205	5224.709
#3	4958.201	39826.70	2286.861	3554.759	5184.894

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-02 Acquired: 6/23/2025 18:20:54 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.017800**	**.0014076**	**.0130625**	**-.014758**	**.0045086**	**.0628739**
Stddev	.001994	.0009003	.0021223	.002341	.0014469	.0109130
%RSD	11.20009	63.96171	16.24749	15.86199	32.09120	17.35702
#1	-.019720	.0009617	.0116959	-.012929	.0058221	.0516876
#2	-.015740	.0024438	.0155075	-.013948	.0047460	.0734914
#3	-.017939	.0008172	.0119842	-.017396	.0029577	.0634427

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0912355**	**-.000006**	**.0011255**	**55.42012**	**.0028220**	**.0155576**
Stddev	.0029772	.000085	.0000241	1.70761	.0002579	.0005566
%RSD	3.263217	1312.751	2.140400	3.081211	9.139031	3.577780
#1	.0896838	.000012	.0010998	54.40784	.0029212	.0160319
#2	.0893547	.000068	.0011291	54.46087	.0030156	.0156961
#3	.0946680	-.000100	.0011475	57.39167	.0025293	.0149448

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037955**	**.7179564**	**.1484469**	**9.903619**	**.0081003**	**-.000097**
Stddev	.0001163	.0218807	.0042542	.331277	.0006820	.000524
%RSD	3.064347	3.047630	2.865795	3.345012	8.419867	541.2978
#1	.0038538	.7005300	.1463352	9.658350	.0074876	.000502
#2	.0036616	.7108265	.1456617	9.772036	.0088352	-.000321
#3	.0038711	.7425127	.1533438	10.28047	.0079780	-.000472

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**112.4465**	**.0082350**	**.2057019**	**8.305863**	**.0266826**	**.0883304**
Stddev	2.5212	.0062483	.0009419	.169493	.0015293	.0012892
%RSD	2.242166	75.87443	.4578960	2.040641	5.731417	1.459564
#1	111.6400	.0097844	.2063875	8.252563	.0249187	.0876509
#2	110.4272	.0013578	.2046279	8.169427	.0276367	.0875231
#3	115.2723	.0135628	.2060904	8.495599	.0274924	.0898172

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-02 Acquired: 6/23/2025 18:20:54 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024592	20.33457	F 15.27716	.0030954	-.001305	.0201430
Stddev	.0004856	.04739	.34035	.0013802	.001320	.0051814
%RSD	19.74520	.2330409	2.227835	44.58773	101.1472	25.72301
#1	.0023311	20.28159	15.15790	.0027713	-.002824	.0189527
#2	.0020505	20.34921	15.01250	.0019061	-.000445	.0258160
#3	.0029959	20.37291	15.66110	.0046088	-.000645	.0156604

Elem	Sr4077
Units	ppm
Avg	.2686846
Stddev	.0087798
%RSD	3.267692
#1	.2637973
#2	.2634361
#3	.2788205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5000.150	40142.38	2257.413	3575.081	5241.787
Stddev	1.862	160.12	53.750	9.979	5.381
%RSD	.0372419	.3988748	2.381060	.2791240	.1026611
#1	4998.019	40008.62	2264.245	3567.788	5237.211
#2	5001.466	40319.80	2307.421	3586.453	5247.715
#3	5000.964	40098.72	2200.573	3571.003	5240.436

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-03 Acquired: 6/23/2025 18:25:24 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.023230**	**.0017036**	**.0183243**	**-.029404**	**.0062860**	**.0444904**
Stddev	.005734	.0002084	.0004433	.002049	.0026140	.0246395
%RSD	24.68480	12.23164	2.419426	6.967764	41.58484	55.38160
#1	-.029850	.0015657	.0188261	-.029399	.0069157	.0162457
#2	-.020050	.0019433	.0179857	-.027359	.0034146	.0615764
#3	-.019790	.0016019	.0181612	-.031456	.0085276	.0556489

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2602349**	**-.000068**	**.0000753**	**208.5895**	**.0023548**	**.0224622**
Stddev	.0022350	.000122	.0000510	1.2363	.0011812	.0002810
%RSD	.8588308	178.8317	67.68843	.5927088	50.16294	1.250771
#1	.2608767	-.000153	.0001140	207.9385	.0010657	.0225072
#2	.2577493	.000072	.0000945	207.8146	.0033854	.0221614
#3	.2620788	-.000124	.0000175	210.0153	.0026134	.0227179

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053869**	**.0826923**	**.0293999**	**25.35030**	**.0017116**	**.0003937**
Stddev	.0004156	.0083726	.0010161	.13853	.0002990	.0003252
%RSD	7.715666	10.12503	3.456174	.5464495	17.46794	82.58709
#1	.0050188	.0730282	.0292079	25.24552	.0013987	.0000223
#2	.0053044	.0872899	.0304983	25.29803	.0017417	.0006270
#3	.0058376	.0877587	.0284935	25.50736	.0019944	.0005319

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**257.8422**	**.0018939**	**.0220192**	**26.02969**	**.0186191**	**.5687277**
Stddev	4.1219	.0010006	.0003188	.15498	.0021440	.0058002
%RSD	1.598623	52.83337	1.447957	.5953793	11.51512	1.019853
#1	260.4368	.0029882	.0223676	26.08368	.0209750	.5741030
#2	253.0893	.0010257	.0217420	25.85494	.0181000	.5625800
#3	260.0006	.0016678	.0219480	26.15045	.0167823	.5695000

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-03 Acquired: 6/23/2025 18:25:24 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090898	F 49.42718	F 16.58653	.0063988	-.001834	.0260582
Stddev	.0006424	.06868	.15452	.0012310	.002634	.0079116
%RSD	7.066770	.1389450	.9316242	19.23855	143.5906	30.36134
#1	.0093341	49.48574	16.67997	.0050584	-.004875	.0328273
#2	.0083612	49.35159	16.40817	.0074789	-.000277	.0173606
#3	.0095742	49.44420	16.67145	.0066592	-.000351	.0279866

Elem	Sr4077
Units	ppm
Avg	.9314662
Stddev	.0051572
%RSD	.5536668
#1	.9284507
#2	.9285268
#3	.9374211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4723.567	37506.74	2241.234	3352.483	4805.630
Stddev	10.348	94.02	15.658	22.426	9.804
%RSD	.2190684	.2506710	.6986167	.6689508	.2040036
#1	4734.315	37462.30	2227.448	3329.318	4813.742
#2	4722.715	37443.18	2258.257	3354.040	4808.412
#3	4713.672	37614.74	2237.996	3374.090	4794.736

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-04 Acquired: 6/23/2025 18:30:04 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.020281**	**.0024900**	**.0178560**	**-.027408**	**.0097773**	**.0097754**
Stddev	.003261	.0018584	.0008359	.005123	.0039664	.0120224
%RSD	16.08057	74.63274	4.681443	18.69037	40.56700	122.9859
#1	-.023093	.0044693	.0175140	-.024684	.0136439	.0114677
#2	-.021044	.0022182	.0188087	-.033317	.0057182	-.003003
#3	-.016705	.0007825	.0172454	-.024223	.0099698	.020862

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2556124**	**-.000089**	**.0000383**	**204.1796**	**.0014556**	**.0221596**
Stddev	.0006632	.000094	.0000638	.1569	.0002026	.0004738
%RSD	.2594532	105.3152	166.4782	.0768286	13.91828	2.137964
#1	.2560692	-.000164	.0000991	204.0747	.0016886	.0216796
#2	.2559163	-.000119	.0000440	204.3600	.0013209	.0226269
#3	.2548517	.000016	-.000028	204.1043	.0013573	.0221723

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039935**	**-.000927**	**.0260948**	**24.80542**	**.0013149**	**.0004358**
Stddev	.0001751	.007513	.0008147	.12827	.0006410	.0002815
%RSD	4.384043	810.5498	3.122209	.5170853	48.74980	64.58900
#1	.0041047	.003725	.0256592	24.70139	.0018033	.0007483
#2	.0037917	.003088	.0270347	24.94873	.0015524	.0003567
#3	.0040842	-.009594	.0255904	24.76613	.0005890	.0002024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**253.9442**	**-.003812**	**.0189544**	**25.40818**	**.0150572**	**.5622259**
Stddev	3.8756	.005045	.0002870	.20758	.0013777	.0038417
%RSD	1.526156	132.3346	1.514365	.8169897	9.150038	.6832956
#1	257.6070	-.009613	.0190599	25.54510	.0159037	.5664959
#2	254.3396	-.001369	.0186296	25.51010	.0158004	.5611321
#3	249.8861	-.000454	.0191738	25.16934	.0134674	.5590498

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-04 Acquired: 6/23/2025 18:30:04 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088909	F 48.45534	F 16.23986	.0065916	-.002217	.0152824
Stddev	.0005983	.03404	.11072	.0005321	.001083	.0030637
%RSD	6.729668	.0702576	.6817841	8.072686	48.87043	20.04717
#1	.0092627	48.42860	16.36411	.0059847	-.001041	.0118123
#2	.0082007	48.44376	16.20385	.0068122	-.003174	.0176133
#3	.0092093	48.49367	16.15163	.0069780	-.002435	.0164216

Elem	Sr4077
Units	ppm
Avg	.9130715
Stddev	.0013682
%RSD	.1498415
#1	.9127211
#2	.9119125
#3	.9145807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4735.983	37631.25	2243.081	3359.556	4818.281
Stddev	10.920	82.99	13.949	13.279	11.414
%RSD	.2305699	.2205243	.6218663	.3952477	.2368947
#1	4723.375	37536.17	2228.945	3360.619	4805.787
#2	4742.152	37689.11	2243.463	3372.271	4820.894
#3	4742.423	37668.47	2256.834	3345.778	4828.163

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-05 Acquired: 6/23/2025 18:34:44 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.018995**	**.0020601**	**.0156258**	**-.029243**	**.0086493**	**.0889937**
Stddev	.002166	.0034189	.0013192	.005488	.0027825	.0215478
%RSD	11.40309	165.9582	8.442424	18.76637	32.16999	24.21276
#1	-.021185	.0018626	.0160443	-.030477	.0066591	.1102124
#2	-.016854	.0055735	.0166850	-.023243	.0074600	.0671312
#3	-.018945	-.001256	.0141481	-.034009	.0118288	.0896375

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2642116**	**-.000025**	**.0000887**	**211.8021**	**.0035820**	**.0222052**
Stddev	.0022456	.000087	.0000837	1.3858	.0004114	.0007650
%RSD	.8499296	349.8456	94.42993	.6543112	11.48413	3.444926
#1	.2618478	-.000073	.0000108	210.7341	.0039780	.0219306
#2	.2644704	.000076	.0001772	213.3681	.0031569	.0216155
#3	.2663166	-.000078	.0000779	211.3040	.0036111	.0230696

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044322**	**.0658626**	**.0279561**	**25.73447**	**.0017583**	**.0000755**
Stddev	.0008699	.0109277	.0005210	.15369	.0009428	.0007951
%RSD	19.62728	16.59165	1.863655	.5972059	53.62214	1053.784
#1	.0053294	.0597144	.0283531	25.55719	.0007645	.0000418
#2	.0043748	.0784794	.0281491	25.81600	.0018702	-.000702
#3	.0035924	.0593939	.0273661	25.83021	.0026401	.000887

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**263.0350**	**-.000949**	**.0198916**	**26.73144**	**.0171862**	**.5813911**
Stddev	2.1479	.005874	.0003583	.15872	.0008846	.0090525
%RSD	.8165779	618.9013	1.801398	.5937533	5.147359	1.557044
#1	260.6427	.002479	.0195471	26.54817	.0170401	.5710994
#2	263.6645	.002405	.0198655	26.82218	.0181348	.5881207
#3	264.7978	-.007731	.0202623	26.82397	.0163837	.5849532

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-05 Acquired: 6/23/2025 18:34:44 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095104	F 50.45643	F 16.98298	.0072445	-.001584	.0232997
Stddev	.0005554	.09112	.16458	.0002492	.002288	.0093774
%RSD	5.839524	.1805971	.9690943	3.440183	144.4341	40.24674
#1	.0089880	50.46909	16.79825	.0075073	-.000513	.0236887
#2	.0100937	50.35964	17.03674	.0072147	-.000028	.0324766
#3	.0094495	50.54055	17.11397	.0070116	-.004212	.0137339

Elem	Sr4077
Units	ppm
Avg	.9474484
Stddev	.0060931
%RSD	.6431094
#1	.9419399
#2	.9539932
#3	.9464121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4711.170	37598.20	2243.953	3365.353	4783.985
Stddev	8.609	116.44	19.879	6.403	6.852
%RSD	.1827310	.3097032	.8858902	.1902509	.1432209
#1	4707.383	37517.79	2266.604	3365.438	4776.487
#2	4705.103	37731.73	2235.848	3371.712	4785.548
#3	4721.023	37545.08	2229.407	3358.908	4789.921

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV06 Acquired: 6/23/2025 18:39:24 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.189664**	**5.166110**	**5.208071**	**5.058815**	**4.976940**	**10.41393**	**10.14673**
Stddev	.013201	.015610	.010141	.003185	.005563	.02376	.03747
%RSD	.2543625	.3021580	.1947137	.0629558	.1117679	.2281857	.3693108
#1	5.193363	5.153965	5.219228	5.060983	4.973179	10.42153	10.16190
#2	5.175009	5.160649	5.199414	5.055159	4.974311	10.43296	10.17423
#3	5.200621	5.183717	5.205570	5.060304	4.983330	10.38729	10.10405

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2548365**	**2.596984**	**24.23738**	**.9975648**	**2.606780**	**1.271316**	**4.860502**
Stddev	.0036548	.002878	.09762	.0043191	.003360	.017925	.015790
%RSD	1.434157	.1108098	.4027528	.4329599	.1288781	1.409979	.3248703
#1	.2524435	2.599890	24.23527	.9950803	2.610634	1.260206	4.876895
#2	.2590434	2.594136	24.33603	1.002552	2.604468	1.291995	4.859219
#3	.2530225	2.596928	24.14083	.995062	2.605239	1.261747	4.845393

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.447915**	**24.49612**	**2.602432**	**1.243414**	**24.95938**	**2.453897**	**2.514657**
Stddev	.009400	.03183	.002706	.006242	.27864	.017263	.006697
%RSD	.3839951	.1299372	.1039613	.5019745	1.116375	.7034912	.2663090
#1	2.448667	24.46857	2.604986	1.238121	24.83210	2.472106	2.509562
#2	2.456916	24.53096	2.602713	1.250297	25.27894	2.451817	2.522242
#3	2.438162	24.48883	2.599597	1.241824	24.76711	2.437768	2.512167

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.95595**	**5.198690**	**5.060239**	**5.083886**	**5.274684**	**5.109638**	**5.225257**
Stddev	.03547	.003060	.064687	.002307	.008784	.071630	.008531
%RSD	.1480778	.0588586	1.278347	.0453702	.1665270	1.401868	.1632679
#1	23.91704	5.199817	5.022823	5.082122	5.281242	5.068671	5.227428
#2	23.96435	5.195227	5.134933	5.083039	5.264704	5.192348	5.215850
#3	23.98648	5.201027	5.022960	5.086496	5.278106	5.067894	5.232493

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV06 Acquired: 6/23/2025 18:39:24 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.989589**	**5.114366**	**5.014585**
Stddev	.018498	.017554	.018097
%RSD	.3707314	.3432319	.3608923
#1	4.994859	5.134630	5.018570
#2	5.004880	5.104683	5.030357
#3	4.969028	5.103787	4.994827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4943.610**	**39670.31**	**2233.116**	**3526.647**	**5052.932**
Stddev	5.208	167.41	12.569	13.459	7.975
%RSD	.1053504	.4220030	.5628254	.3816299	.1578214
#1	4939.608	39550.33	2235.778	3512.653	5045.362
#2	4949.498	39861.56	2219.429	3539.498	5061.258
#3	4941.723	39599.03	2244.140	3527.790	5052.176

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB06 Acquired: 6/23/2025 18:43:40 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003820**	**.0027034**	**-.000036**	**-.003393**	**-.000657**	**.0150022**
Stddev	.002877	.0015875	.001456	.001486	.000702	.0186885
%RSD	75.32943	58.72245	4089.442	43.80790	106.8851	124.5714
#1	-.001460	.0043064	.000976	-.003706	-.001417	-.001762
#2	-.002974	.0011318	-.001704	-.001775	-.000034	.035152
#3	-.007025	.0026721	.000621	-.004698	-.000518	.011617

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012019**	**.0000666**	**.0000659**	**-.011275**	**.0004566**	**.0000340**
Stddev	.0009485	.0000268	.0000514	.008741	.0005071	.0000751
%RSD	78.92193	40.30287	78.03568	77.52981	111.0540	220.6450
#1	.0010995	.0000495	.0000229	-.002448	.0001139	-.000050
#2	.0003087	.0000975	.0001229	-.019928	.0002169	.000057
#3	.0021975	.0000528	.0000519	-.011449	.0010391	.000095

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009500**	**-.001479**	**.0005378**	**-.032408**	**-.000131**	**.0000150**
Stddev	.0002187	.007070	.0007378	.045327	.000492	.0004352
%RSD	23.02256	477.9516	137.1770	139.8604	376.2229	2909.191
#1	.0011996	-.003750	-.000127	-.015119	.000377	.0005156
#2	.0008586	-.007135	.000409	.001729	-.000606	-.000197
#3	.0007918	.006447	.001331	-.083835	-.000164	-.000274

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0501688**	**-.002466**	**-.000644**	**.0106670**	**-.000295**	**.0123226**
Stddev	.0134635	.002524	.000329	.0004702	.000621	.0002029
%RSD	26.83642	102.3205	51.03056	4.407989	210.2514	1.646762
#1	.0652239	.000428	-.000917	.0111194	.000107	.0120930
#2	.0459988	-.003622	-.000279	.0107005	-.001010	.0124779
#3	.0392836	-.004205	-.000736	.0101809	.000017	.0123970

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB06 Acquired: 6/23/2025 18:43:40 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001612	.0018325	.0031702	.0003118	-.000716	F .0546276
Stddev	.0003153	.0026422	.0004435	.0001628	.002246	.0073673
%RSD	195.6036	144.1837	13.98827	52.21238	313.5062	13.48648
#1	.0001004	.0030131	.0035989	.0004392	-.000105	.0501176
#2	.0005025	-.001194	.0027134	.0003679	-.003205	.0631294
#3	-.000119	.003679	.0031984	.0001284	.001160	.0506359

Elem	Sr4077
Units	ppm
Avg	-.000248
Stddev	.000207
%RSD	83.49613
#1	-.000029
#2	-.000440
#3	-.000274

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5130.217	41539.47	2273.351	3656.244	5763.940
Stddev	14.403	129.34	10.290	14.904	16.611
%RSD	.2807549	.3113745	.4526200	.4076205	.2881869
#1	5146.296	41666.81	2262.179	3663.102	5783.121
#2	5125.859	41408.21	2275.433	3639.147	5754.418
#3	5118.496	41543.38	2282.439	3666.485	5754.282

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-06 Acquired: 6/23/2025 18:48:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.019916**	**.0060518**	**.0161905**	**-.032634**	**.0092625**	**-.007260**
Stddev	.005128	.0014047	.0006100	.004513	.0009033	.028648
%RSD	25.74601	23.21091	3.767348	13.83006	9.751915	394.5740
#1	-.022351	.0048994	.0162920	-.032604	.0094567	.017224
#2	-.023373	.0076165	.0167434	-.037162	.0082779	-.000240
#3	-.014025	.0056395	.0155362	-.028136	.0100529	-.038766

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2638477**	**-.000012**	**.0000866**	**211.9679**	**.0019357**	**.0221786**
Stddev	.0013929	.000048	.0000284	1.4841	.0009798	.0002359
%RSD	.5279121	415.6674	32.81063	.7001625	50.61503	1.063724
#1	.2654074	.000010	.0001181	213.4281	.0009447	.0222324
#2	.2627278	-.000067	.0000629	210.4610	.0029039	.0219205
#3	.2634081	.000022	.0000789	212.0145	.0019585	.0223830

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043906**	**-.004214**	**.0266306**	**25.83612**	**.0015075**	**.0006281**
Stddev	.0003989	.007754	.0010412	.03022	.0003382	.0005463
%RSD	9.086317	184.0009	3.909879	.1169599	22.43363	86.97826
#1	.0048470	.002844	.0254533	25.87080	.0018921	.0005815
#2	.0041084	-.012515	.0270078	25.82214	.0013740	.0011963
#3	.0042163	-.002972	.0274306	25.81543	.0012565	.0001066

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**265.0349**	**.0022645**	**.0198195**	**26.73554**	**.0177276**	**.5911475**
Stddev	2.8765	.0102669	.0001876	.11012	.0011763	.0054800
%RSD	1.085333	453.3787	.9465660	.4118980	6.635299	.9270158
#1	268.2790	-.007513	.0197744	26.86253	.0166069	.5971346
#2	262.7954	.012959	.0196586	26.66638	.0176233	.5863801
#3	264.0303	.001347	.0200256	26.67771	.0189525	.5899279

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-06 Acquired: 6/23/2025 18:48:09 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098092	F 50.13318	F 16.98594	.0065814	-.005371	.0224658
Stddev	.0004740	.14620	.13095	.0011784	.000473	.0020264
%RSD	4.832657	.2916220	.7709606	17.90539	8.806225	9.019923
#1	.0102914	49.99066	17.11755	.0052379	-.005879	.0217128
#2	.0097923	50.12607	16.85565	.0070662	-.005291	.0247610
#3	.0093438	50.28280	16.98462	.0074402	-.004943	.0209238

Elem	Sr4077
Units	ppm
Avg	.9481485
Stddev	.0039559
%RSD	.4172268
#1	.9513774
#2	.9437358
#3	.9493323

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4727.550	37290.45	2201.925	3323.875	4805.384
Stddev	23.952	120.06	10.593	3.421	24.776
%RSD	.5066514	.3219714	.4810805	.1029291	.5155822
#1	4700.556	37417.17	2190.885	3320.065	4776.777
#2	4735.833	37178.38	2212.006	3326.684	4819.417
#3	4746.261	37275.80	2202.884	3324.877	4819.957

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07 Acquired: 6/23/2025 18:52:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.017805	.0067645	.0193427	-.027327	.0101598	.0157813
Stddev	.004837	.0023534	.0007182	.001284	.0028941	.0046201
%RSD	27.16883	34.79100	3.712816	4.700360	28.48561	29.27577
#1	-.013562	.0040547	.0187017	-.027669	.0126893	.0120960
#2	-.023072	.0082966	.0192076	-.025906	.0107863	.0209645
#3	-.016779	.0079421	.0201189	-.028406	.0070038	.0142833

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3322517	-.000074	.0003810	195.5697	.0080175	.0252849
Stddev	.0012923	.000124	.0000710	.8227	.0008687	.0005829
%RSD	.3889551	168.1937	18.63831	.4206735	10.83456	2.305337
#1	.3310497	-.000212	.0004553	194.6288	.0080343	.0248455
#2	.3336185	.000030	.0003737	196.1538	.0071406	.0250630
#3	.3320868	-.000040	.0003139	195.9265	.0088777	.0259461

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564389	11.39361	1.698802	37.33586	.0524143	.0000736
Stddev	.0004768	.06563	.004156	.11113	.0003507	.0003740
%RSD	.8447667	.5760478	.2446215	.2976441	.6690477	508.0456
#1	.0559585	11.34772	1.698548	37.22187	.0524619	.0002309
#2	.0564463	11.46879	1.703079	37.44388	.0527388	.0003433
#3	.0569119	11.36433	1.694780	37.34184	.0520422	-.000353

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	401.6195	-.006082	.1899875	46.45008	.0262840	1.441926
Stddev	2.1716	.002850	.0004651	.29276	.0032352	.003241
%RSD	.5407182	46.86098	.2447913	.6302574	12.30847	.2247511
#1	399.8229	-.007744	.1895492	46.69114	.0296113	1.440686
#2	404.0328	-.002791	.1899378	46.12431	.0231496	1.445604
#3	401.0029	-.007711	.1904753	46.53479	.0260912	1.439488

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07 Acquired: 6/23/2025 18:52:49 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087967	21.01285	F 17.47887	.0084280	-.002115	.0254477
Stddev	.0008337	.02062	.03994	.0013868	.001398	.0045999
%RSD	9.477330	.0981443	.2285104	16.45423	66.07973	18.07589
#1	.0083044	20.99164	17.46368	.0085960	-.001871	.0202478
#2	.0083265	21.03282	17.52418	.0069648	-.000855	.0271099
#3	.0097593	21.01411	17.44876	.0097230	-.003618	.0289855

Elem	Sr4077
Units	ppm
Avg	.9114700
Stddev	.0037545
%RSD	.4119135
#1	.9071371
#2	.9137599
#3	.9135130

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4692.893	37240.37	2221.199	3352.314	4683.213
Stddev	20.429	156.14	10.526	18.261	23.535
%RSD	.4353189	.4192883	.4738985	.5447413	.5025353
#1	4716.377	37352.12	2231.260	3371.156	4709.823
#2	4683.080	37061.96	2210.262	3334.695	4674.687
#3	4679.221	37307.03	2222.075	3351.090	4665.130

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07DUP Acquired: 6/23/2025 18:57:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.016966**	**.0063313**	**.0197795**	**-.026328**	**.0077235**	**.0234093**
Stddev	.004095	.0015002	.0019653	.004106	.0014582	.0277554
%RSD	24.13481	23.69513	9.936164	15.59454	18.88029	118.5660
#1	-.012475	.0046032	.0198050	-.025559	.0091407	-.007490
#2	-.017932	.0073005	.0217320	-.030764	.0062275	.031492
#3	-.020492	.0070901	.0178015	-.022661	.0078023	.046227

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3233920**	**-.000065**	**.0005105**	**190.2835**	**.0084931**	**.0250081**
Stddev	.0008297	.000139	.0000403	.4757	.0002609	.0003734
%RSD	.2565585	214.2260	7.897018	.2500194	3.071614	1.493171
#1	.3225137	-.000019	.0005014	190.8317	.0083515	.0250164
#2	.3234997	-.000222	.0005546	190.0395	.0083335	.0246306
#3	.3241625	.000045	.0004755	189.9792	.0087941	.0253772

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0547243**	**11.08137**	**1.660174**	**36.51713**	**.0511493**	**-.000127**
Stddev	.0010757	.02228	.004182	.10338	.0003416	.000365
%RSD	1.965742	.2010223	.2518714	.2831039	.6679151	287.2756
#1	.0558731	11.07386	1.664927	36.63626	.0514344	-.000253
#2	.0537408	11.06381	1.658536	36.46429	.0512429	-.000412
#3	.0545588	11.10643	1.657060	36.45085	.0507706	.000284

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**398.0709**	**.0005789**	**.1864152**	**45.66768**	**.0245840**	**1.419887**
Stddev	4.2942	.0027944	.0016517	.47513	.0019320	.019440
%RSD	1.078761	482.7056	.8860536	1.040409	7.858727	1.369103
#1	400.5010	-.002447	.1873485	46.20178	.0265416	1.439333
#2	393.1127	.003062	.1845081	45.29199	.0226787	1.400454
#3	400.5991	.001122	.1873891	45.50928	.0245315	1.419873

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07DUP Acquired: 6/23/2025 18:57:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081706	20.58219	F 17.14927	.0075194	-.001845	.0275379
Stddev	.0007943	.11274	.23201	.0006996	.003135	.0020483
%RSD	9.721527	.5477505	1.352908	9.303898	169.9121	7.438071
#1	.0085967	20.47275	17.39384	.0082790	-.002485	.0298418
#2	.0072542	20.57587	16.93228	.0073776	.001561	.0268490
#3	.0086609	20.69796	17.12168	.0069016	-.004611	.0259228

Elem	Sr4077
Units	ppm
Avg	.8876792
Stddev	.0014584
%RSD	.1642947
#1	.8893633
#2	.8868366
#3	.8868379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4712.363	37397.24	2234.195	3354.640	4712.018
Stddev	19.653	240.14	15.244	24.211	18.948
%RSD	.4170420	.6421254	.6822921	.7217142	.4021266
#1	4734.418	37658.75	2219.810	3382.552	4733.740
#2	4696.711	37186.65	2250.173	3342.046	4703.429
#3	4705.958	37346.31	2232.603	3339.323	4698.886

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07LX5 Acquired: 6/23/2025 19:02:01 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014653	.0020248	.0070422	-.015159	.0029557	.0147343	.0660138
Stddev	.001372	.0013492	.0017547	.006093	.0019351	.0070814	.0011773
%RSD	9.362526	66.63429	24.91702	40.19647	65.46867	48.06094	1.783428
#1	-.013157	.0014937	.0050383	-.008503	.0007862	.0131753	.0672759
#2	-.015852	.0010220	.0077848	-.020462	.0035776	.0085623	.0649452
#3	-.014950	.0035587	.0083035	-.016511	.0045034	.0224653	.0658203

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000697	.0000510	39.36685	.0017292	.0141051	.0130938	2.277081
Stddev	.0000650	.0000280	.27053	.0003745	.0001543	.0003074	.009747
%RSD	93.18840	54.95282	.6871899	21.65835	1.093875	2.347877	.4280276
#1	.0000333	.0000221	39.45877	.0014071	.0142378	.0129007	2.267316
#2	.0001448	.0000781	39.57944	.0021402	.0141416	.0129324	2.286809
#3	.0000312	.0000528	39.06235	.0016405	.0139358	.0134483	2.277119

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3448624	7.581210	.0100033	.0003604	92.25382	-.010681	.0363582
Stddev	.0015747	.102907	.0003556	.0005663	.69505	.009690	.0005795
%RSD	.4566110	1.357401	3.554311	157.1396	.7534073	90.72646	1.593892
#1	.3443194	7.566300	.0097374	.0006856	91.99085	-.017216	.0368971
#2	.3466367	7.690760	.0104072	.0006891	93.04198	.000453	.0357452
#3	.3436311	7.486572	.0098654	-.000294	91.72862	-.015279	.0364324

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.105193	.0047675	.3148360	.0025034	3.919630	3.665076	.0038240
Stddev	.048095	.0005775	.0018707	.0006505	.014681	.017565	.0009914
%RSD	.5933891	12.11308	.5941914	25.98237	.3745461	.4792625	25.92579
#1	8.130128	.0048194	.3126850	.0020028	3.931402	3.652850	.0026857
#2	8.135700	.0041658	.3160831	.0032386	3.924309	3.685204	.0044988
#3	8.049751	.0053173	.3157400	.0022689	3.903181	3.657172	.0042874

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07LX5 Acquired: 6/23/2025 19:02:01 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002502	.0839508	.1836211
Stddev	.002648	.0035270	.0007834
%RSD	105.8666	4.201277	.4266210
#1	-.000946	.0879913	.1836068
#2	-.001000	.0823724	.1844115
#3	-.005560	.0814886	.1828449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4897.287	39159.51	2250.091	3499.109	5113.237
Stddev	12.760	150.70	10.112	17.549	12.181
%RSD	.2605622	.3848360	.4493974	.5015291	.2382315
#1	4883.155	38988.57	2255.672	3485.754	5101.611
#2	4900.742	39273.16	2238.419	3518.985	5112.193
#3	4907.964	39216.81	2256.182	3492.589	5125.907

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07MS Acquired: 6/23/2025 19:06:34 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8548957**	**2.010514**	**1.026616**	**1.972337**	**.8281955**	**2.092077**
Stddev	.0085861	.002151	.000910	.002346	.0018365	.033032
%RSD	1.004349	.1070111	.0886524	.1189487	.2217482	1.578922
#1	.8647464	2.011179	1.026976	1.972230	.8260925	2.103676
#2	.8509418	2.008109	1.025580	1.970046	.8290102	2.054810
#3	.8489988	2.012255	1.027290	1.974734	.8294837	2.117745

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5277066**	**.1730145**	**.2125786**	**194.6191**	**.4204374**	**.2352453**
Stddev	.0042428	.0031675	.0003272	1.3271	.0035777	.0003517
%RSD	.8040113	1.830788	.1539010	.6819148	.8509557	.1494902
#1	.5306746	.1752134	.2125522	194.8211	.4175768	.2356153
#2	.5228470	.1693839	.2129181	193.2026	.4192865	.2352050
#3	.5295981	.1744463	.2122654	195.8337	.4244489	.2349155

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2935040**	**14.29215**	**1.875023**	**38.91803**	**.5747982**	**.0739856**
Stddev	.0048681	.13571	.011583	.20799	.0018477	.0014309
%RSD	1.658625	.9495256	.6177615	.5344183	.3214546	1.934000
#1	.2974627	14.41766	1.878760	38.86861	.5755909	.0723334
#2	.2880684	14.14814	1.862033	38.73920	.5761173	.0748121
#3	.2949809	14.31064	1.884276	39.14627	.5726864	.0748113

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**397.1317**	**.3008873**	**.4068997**	**56.17183**	**6.653749**	**1.450519**
Stddev	3.7878	.0072121	.0120356	.60072	.011303	.019554
%RSD	.9537850	2.396932	2.957868	1.069440	.1698754	1.348076
#1	400.5333	.2977912	.3936076	56.86054	6.659943	1.459064
#2	393.0499	.2957402	.4170593	55.89905	6.660601	1.428147
#3	397.8119	.3091305	.4100322	55.75589	6.640703	1.464346

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07MS Acquired: 6/23/2025 19:06:34 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4294206	20.46320	F 15.53789	.7667617	.1964093	.2191134
Stddev	.0009411	.01807	.26672	.0025304	.0005200	.0035554
%RSD	.2191678	.0882929	1.716605	.3300100	.2647323	1.622654
#1	.4283941	20.47504	15.60745	.7643223	.1969805	.2232154
#2	.4302429	20.47216	15.24328	.7693742	.1959636	.2172087
#3	.4296247	20.44241	15.76294	.7665885	.1962837	.2169161

Elem	Sr4077
Units	ppm
Avg	1.098513
Stddev	.006647
%RSD	.6051156
#1	1.102429
#2	1.090838
#3	1.102273

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4709.655	30454.48	2206.247	2817.494	4698.597
Stddev	14.317	1115.70	17.757	86.119	10.830
%RSD	.3039917	3.663484	.8048629	3.056597	.2305011
#1	4725.942	31631.77	2221.849	2895.760	4710.910
#2	4699.056	29412.77	2209.969	2725.235	4690.550
#3	4703.968	30318.91	2186.924	2831.488	4694.329

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07MSD Acquired: 6/23/2025 19:10:59 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8575351**	**2.030464**	**1.034763**	**1.994303**	**.8373559**	**2.087196**
Stddev	.0022990	.002815	.001336	.000769	.0027987	.011515
%RSD	.2680940	.1386337	.1291581	.0385666	.3342292	.5516939
#1	.8596424	2.027823	1.033470	1.993559	.8383771	2.074825
#2	.8550833	2.030143	1.034678	1.994256	.8341900	2.089162
#3	.8578795	2.033425	1.036139	1.995095	.8395006	2.097602

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5239591**	**.2025772**	**.2148197**	**192.9579**	**.4131318**	**.2369739**
Stddev	.0011544	.0008920	.0003913	.3966	.0010746	.0011702
%RSD	.2203196	.4403259	.1821650	.2055382	.2601231	.4937867
#1	.5228355	.2034610	.2144245	192.5010	.4136267	.2364014
#2	.5239000	.2016772	.2148276	193.1604	.4138698	.2362002
#3	.5251419	.2025936	.2152071	193.2125	.4118989	.2383201

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3473290**	**14.18493**	**1.864074**	**38.61070**	**.5812005**	**.0722578**
Stddev	.0021577	.08235	.003051	.01433	.0002066	.0009775
%RSD	.6212115	.5805492	.1636675	.0371203	.0355402	1.352826
#1	.3491552	14.09094	1.863919	38.61510	.5809707	.0733863
#2	.3449482	14.24444	1.861104	38.59468	.5812602	.0716711
#3	.3478835	14.21940	1.867200	38.62231	.5813707	.0717161

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**391.6011**	**.3043309**	**.3905520**	**56.11538**	**6.714828**	**1.685729**
Stddev	4.1647	.0058709	.0009085	.65402	.005984	.010861
%RSD	1.063497	1.929124	.2326283	1.165495	.0891186	.6443164
#1	396.3582	.3063920	.3913118	56.86106	6.709536	1.692405
#2	388.6127	.2977074	.3895457	55.84603	6.713625	1.673196
#3	389.8323	.3088934	.3907986	55.63904	6.721322	1.691586

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07MSD Acquired: 6/23/2025 19:10:59 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4333790	20.47210	F 17.93259	.7709552	.1952288	.2192633
Stddev	.0004489	.02348	.09705	.0021645	.0015971	.0052958
%RSD	.1035896	.1146947	.5411699	.2807517	.8180723	2.415274
#1	.4332411	20.44683	18.01204	.7690179	.1959895	.2225698
#2	.4338808	20.47623	17.82443	.7705562	.1933935	.2131552
#3	.4330153	20.49324	17.96132	.7732914	.1963033	.2220650

Elem	Sr4077
Units	ppm
Avg	1.092402
Stddev	.003363
%RSD	.3078167
#1	1.088793
#2	1.092967
#3	1.095447

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4661.751	37178.04	2213.799	3348.831	4658.455
Stddev	5.686	138.81	9.542	18.152	8.241
%RSD	.1219607	.3733736	.4310400	.5420364	.1768973
#1	4667.340	37097.77	2202.821	3328.798	4667.269
#2	4661.941	37098.03	2220.110	3353.510	4657.153
#3	4655.973	37338.33	2218.464	3364.186	4650.942

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07A Acquired: 6/23/2025 19:15:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8492013**	**2.003729**	**1.025075**	**1.963716**	**.8192196**	**2.064944**
Stddev	.0017667	.005051	.001675	.005616	.0017721	.014662
%RSD	.2080385	.2520922	.1634223	.2860097	.2163184	.7100457
#1	.8509107	2.002091	1.024831	1.958649	.8185683	2.063862
#2	.8493107	1.999701	1.026858	1.962744	.8178653	2.050852
#3	.8473824	2.009396	1.023535	1.969755	.8212252	2.080116

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5191489**	**.2016562**	**.2115321**	**191.6950**	**.4068833**	**.2334520**
Stddev	.0011776	.0020878	.0002587	.6766	.0012138	.0002989
%RSD	.2268424	1.035337	.1223125	.3529470	.2983255	.1280472
#1	.5183377	.2024883	.2112789	191.8622	.4066180	.2331240
#2	.5186093	.1992807	.2115212	190.9505	.4082078	.2335230
#3	.5204997	.2031997	.2117961	192.2723	.4058240	.2337091

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3419540**	**14.03254**	**1.844269**	**38.22782**	**.5725369**	**.0730398**
Stddev	.0040818	.01314	.005689	.10515	.0015179	.0004692
%RSD	1.193669	.0936353	.3084636	.2750508	.2651130	.6423543
#1	.3451959	14.04771	1.846719	38.32553	.5719481	.0735299
#2	.3373701	14.02466	1.837765	38.24138	.5714016	.0725948
#3	.3432960	14.02526	1.848322	38.11655	.5742609	.0729948

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**396.5686**	**.2960154**	**.3867534**	**55.76950**	**6.637942**	**1.686338**
Stddev	1.4859	.0039814	.0017883	.99799	.007857	.021782
%RSD	.3747016	1.344994	.4623811	1.789492	.1183575	1.291684
#1	397.4621	.2999280	.3884678	56.67552	6.629716	1.696032
#2	394.8533	.2919686	.3848994	54.69978	6.638741	1.661391
#3	397.3904	.2961497	.3868928	55.93320	6.645368	1.701590

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-07A Acquired: 6/23/2025 19:15:25 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4223459	20.37847	F 18.01057	.7547227	.1959837	.2167992
Stddev	.0002750	.06093	.19268	.0020312	.0028319	.0028525
%RSD	.0651174	.2990164	1.069820	.2691330	1.444946	1.315743
#1	.4226007	20.32433	18.11572	.7525582	.1951459	.2175960
#2	.4220544	20.36664	17.78819	.7565873	.1936652	.2191686
#3	.4223827	20.44446	18.12781	.7550225	.1991399	.2136330

Elem	Sr4077
Units	ppm
Avg	1.081566
Stddev	.002428
%RSD	.2245133
#1	1.081371
#2	1.079241
#3	1.084086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4693.958	37245.93	2213.472	3362.216	4683.839
Stddev	16.856	97.33	22.440	14.043	14.306
%RSD	.3590923	.2613072	1.013784	.4176665	.3054364
#1	4685.185	37202.94	2199.107	3346.673	4676.074
#2	4683.299	37177.51	2239.330	3365.985	4675.093
#3	4713.391	37357.35	2201.978	3373.989	4700.348

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-08 Acquired: 6/23/2025 19:19:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.018671**	**.0038333**	**.0176200**	**-.029211**	**.0103932**	**.0264711**
Stddev	.002141	.0016052	.0012648	.002094	.0039092	.0050095
%RSD	11.46565	41.87601	7.178366	7.168011	37.61291	18.92435
#1	-.016237	.0023031	.0165285	-.030516	.0140410	.0255019
#2	-.019516	.0055043	.0190061	-.026796	.0108719	.0318943
#3	-.020261	.0036925	.0173254	-.030322	.0062667	.0220170

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3425397**	**-.000037**	**.0004428**	**200.6328**	**.0069913**	**.0253389**
Stddev	.0003131	.000086	.0000377	.3470	.0002444	.0000543
%RSD	.0914081	233.4200	8.511797	.1729607	3.496383	.2144082
#1	.3424073	.000038	.0004401	200.3232	.0072267	.0253711
#2	.3423145	-.000019	.0004818	201.0079	.0067387	.0253694
#3	.3428972	-.000130	.0004065	200.5674	.0070086	.0252762

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0500782**	**12.21758**	**1.768869**	**38.50391**	**.0549726**	**.0000963**
Stddev	.0002866	.09097	.011388	.15105	.0003443	.0008125
%RSD	.5722747	.7445804	.6438073	.3923084	.6263809	843.9183
#1	.0500612	12.11330	1.758280	38.33778	.0545750	-.000618
#2	.0498005	12.28067	1.780915	38.63300	.0551704	.000980
#3	.0503729	12.25876	1.767411	38.54096	.0551724	-.000073

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**403.4958**	**-.001253**	**.1990147**	**47.44595**	**.0246040**	**1.470454**
Stddev	1.8371	.009817	.0010719	.41393	.0027675	.001127
%RSD	.4552938	783.6336	.5385821	.8724139	11.24809	.0766602
#1	401.6227	.002535	.1998017	47.78114	.0277959	1.471473
#2	405.2946	.006106	.1977939	47.57344	.0231417	1.470645
#3	403.5703	-.012399	.1994484	46.98328	.0228744	1.469243

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: Q2344-08 Acquired: 6/23/2025 19:19:52 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094321	21.57174	F 17.78182	.0073180	-.004367	.0220821
Stddev	.0006606	.08205	.01568	.0003922	.002035	.0041181
%RSD	7.003515	.3803712	.0881533	5.359197	46.60168	18.64891
#1	.0092657	21.57818	17.79933	.0075439	-.002122	.0267223
#2	.0088707	21.48665	17.77702	.0068652	-.004886	.0206619
#3	.0101600	21.65038	17.76910	.0075451	-.006091	.0188621

Elem	Sr4077
Units	ppm
Avg	.9375381
Stddev	.0028463
%RSD	.3035930
#1	.9348302
#2	.9405051
#3	.9372792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4636.448	36840.40	2216.355	3305.788	4626.062
Stddev	19.961	103.37	10.350	12.077	14.438
%RSD	.4305211	.2805754	.4670041	.3653441	.3121060
#1	4658.860	36731.07	2207.543	3292.776	4640.900
#2	4629.902	36853.62	2213.769	3307.949	4625.225
#3	4620.583	36936.53	2227.754	3316.639	4612.060

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV07 Acquired: 6/23/2025 19:24:29 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.218310**	**5.205283**	**5.241508**	**5.080145**	**5.005714**	**10.40299**	**10.18312**
Stddev	.009670	.021379	.010731	.012700	.016029	.03429	.02395
%RSD	.1853088	.4107103	.2047372	.2499958	.3202177	.3296354	.2351827
#1	5.210653	5.180599	5.231472	5.065790	4.991089	10.41431	10.19853
#2	5.229176	5.217902	5.252820	5.084725	5.003204	10.43019	10.19530
#3	5.215100	5.217347	5.240231	5.089920	5.022851	10.36447	10.15553

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2564056**	**2.611150**	**24.25958**	**.9963151**	**2.620210**	**1.280539**	**4.877451**
Stddev	.0034412	.003788	.08908	.0032503	.003274	.014996	.046689
%RSD	1.342071	.1450583	.3671915	.3262286	.1249612	1.171093	.9572465
#1	.2565779	2.606946	24.31004	.9962068	2.617537	1.280156	4.839148
#2	.2597574	2.614297	24.31197	.9931203	2.623862	1.295723	4.929459
#3	.2528816	2.612206	24.15673	.9996181	2.619231	1.265738	4.863745

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.442220**	**24.56794**	**2.604631**	**1.246331**	**25.27157**	**2.457799**	**2.490623**
Stddev	.004991	.06667	.004307	.004521	.27664	.012407	.004203
%RSD	.2043471	.2713791	.1653516	.3627354	1.094666	.5047928	.1687660
#1	2.440765	24.55153	2.601731	1.250631	25.27588	2.459042	2.488014
#2	2.447777	24.64128	2.609579	1.241617	25.54602	2.469538	2.488383
#3	2.438119	24.51100	2.602582	1.246745	24.99279	2.444818	2.495472

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.21591**	**5.223579**	**5.108765**	**5.100356**	**5.266110**	**5.161231**	**5.245595**
Stddev	.31578	.001642	.064828	.006761	.006918	.055235	.008007
%RSD	1.304009	.0314415	1.268953	.1325520	.1313774	1.070184	.1526347
#1	24.21956	5.222440	5.103539	5.092626	5.264558	5.152542	5.236370
#2	24.52985	5.225462	5.176048	5.103281	5.273673	5.220295	5.250739
#3	23.89832	5.222835	5.046708	5.105162	5.260099	5.110855	5.249676

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCV07 Acquired: 6/23/2025 19:24:29 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.996485**	**5.181568**	**5.027002**
Stddev	.020003	.019153	.011083
%RSD	.4003370	.3696311	.2204599
#1	5.018717	5.197845	5.035710
#2	4.990792	5.186395	5.030770
#3	4.979946	5.160463	5.014527

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4900.675**	**39272.39**	**2200.491**	**3484.217**	**5006.787**
Stddev	9.849	113.47	21.835	5.445	9.064
%RSD	.2009813	.2889384	.9922904	.1562854	.1810431
#1	4912.029	39263.17	2203.556	3483.879	5013.606
#2	4894.422	39390.20	2177.285	3489.824	4996.501
#3	4895.574	39163.82	2220.632	3478.949	5010.254

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

Sample Name: CCB07 Acquired: 6/23/2025 19:28:46 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003069**	**.0025023**	**.0009094**	**.0004580**	**-.000676**	**-.011052**
Stddev	.001335	.0003272	.0005567	.0013362	.003170	.015200
%RSD	43.49635	13.07685	61.21356	291.7589	468.6987	137.5275
#1	-.002750	.0024558	.0002763	.0001731	-.001359	-.017222
#2	-.001922	.0028502	.0011296	-.000713	.002779	.006262
#3	-.004534	.0022008	.0013223	.001914	-.003449	-.022198

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014943**	**.0000738**	**-.000024**	**-.018145**	**-.000174**	**-.000092**
Stddev	.0007336	.0001446	.000085	.010904	.000779	.000241
%RSD	49.09672	195.8770	352.6306	60.09194	447.5883	263.0254
#1	.0021589	.0000584	-.000035	-.020144	-.000870	-.000358
#2	.0007071	.0002255	.000066	-.006380	-.000320	-.000029
#3	.0016168	-.000062	-.000104	-.027910	.000668	.000112

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011106**	**-.025391**	**.0003615**	**-.017072**	**-.000130**	**.0003412**
Stddev	.0005359	.006542	.0008837	.034856	.000287	.0009829
%RSD	48.25661	25.76654	244.4276	204.1783	220.5617	288.0312
#1	.0014468	-.032884	.0006833	-.015725	-.000453	.0014558
#2	.0013926	-.022480	-.000638	-.052582	.000093	-.000031
#3	.0004926	-.020809	.001039	.017092	-.000029	-.000401

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0761262**	**-.010177**	**-.000837**	**.0138550**	**-.001306**	**.0167497**
Stddev	.0012379	.010447	.000377	.0002738	.001535	.0004757
%RSD	1.626134	102.6515	45.02225	1.976180	117.5674	2.840347
#1	.0763182	-.010285	-.001224	.0140238	-.002819	.0171211
#2	.0748036	-.020570	-.000471	.0135390	-.001349	.0162134
#3	.0772570	.000323	-.000816	.0140020	.000251	.0169146

Reviewed By:Janvi
On:6/25/2025 8:43:58 AM
Inst Id :P5
LB :LB136236

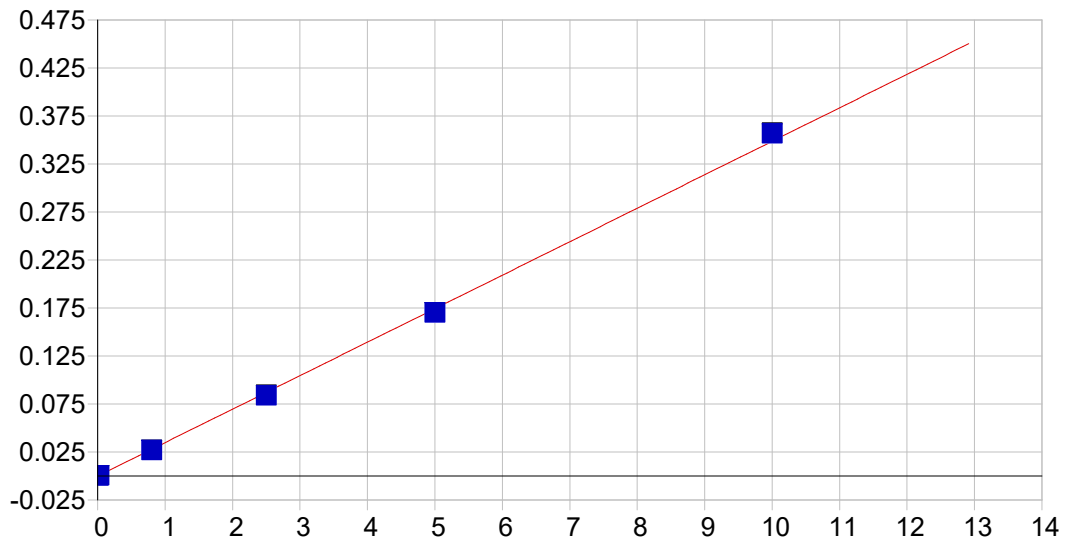
Sample Name: CCB07 Acquired: 6/23/2025 19:28:46 Type: Unk
Method: METHOD 6010D, 200.7(v20) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003720	.0013218	.0044245	.0000253	-.000099	F .0538043
Stddev	.0003153	.0003028	.0020176	.0005585	.001673	.0005265
%RSD	84.78387	22.90559	45.60124	2203.440	1696.939	.9784482
#1	.0003096	.0016335	.0065111	.0006562	-.001002	.0544047
#2	.0007138	.0010289	.0024837	-.000174	-.001126	.0535865
#3	.0000924	.0013030	.0042787	-.000406	.001832	.0534217

Elem	Sr4077
Units	ppm
Avg	-.000081
Stddev	.000033
%RSD	41.40881
#1	-.000119
#2	-.000064
#3	-.000058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5083.594	41020.76	2228.528	3622.156	5714.931
Stddev	17.146	250.06	3.690	12.156	16.729
%RSD	.3372877	.6095933	.1656002	.3355906	.2927164
#1	5063.939	41278.52	2224.518	3635.065	5695.616
#2	5091.356	40779.18	2229.285	3610.929	5724.789
#3	5095.486	41004.57	2231.782	3620.474	5724.388

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



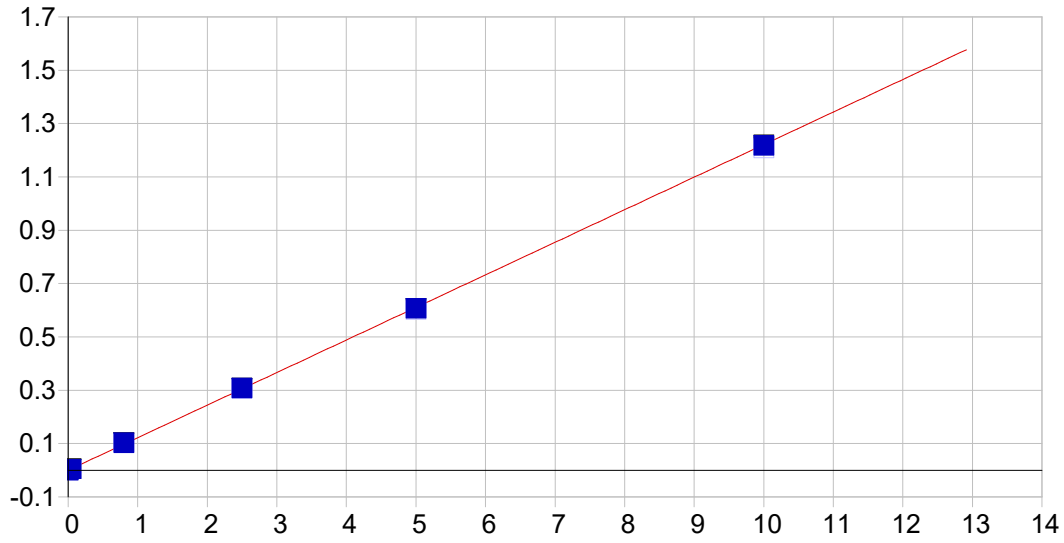
As 189.042 {479}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000117	Re-Slope:	1.000000
A1 (Gain):	0.034877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999659	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.003532		
Predicted MQL:	0.011772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00012	.000	1
S1	.02000	.02001	.000	.054	.00058	.000	1
S2	.80000	.77385	-.026	-3.27	.02687	.000	1
S3	2.5000	2.4080	-.092	-3.68	.08385	.000	1
S4	5.0000	4.8832	-.117	-2.34	.17017	.000	1
S5	10.000	10.235	.235	2.35	.35679	.000	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



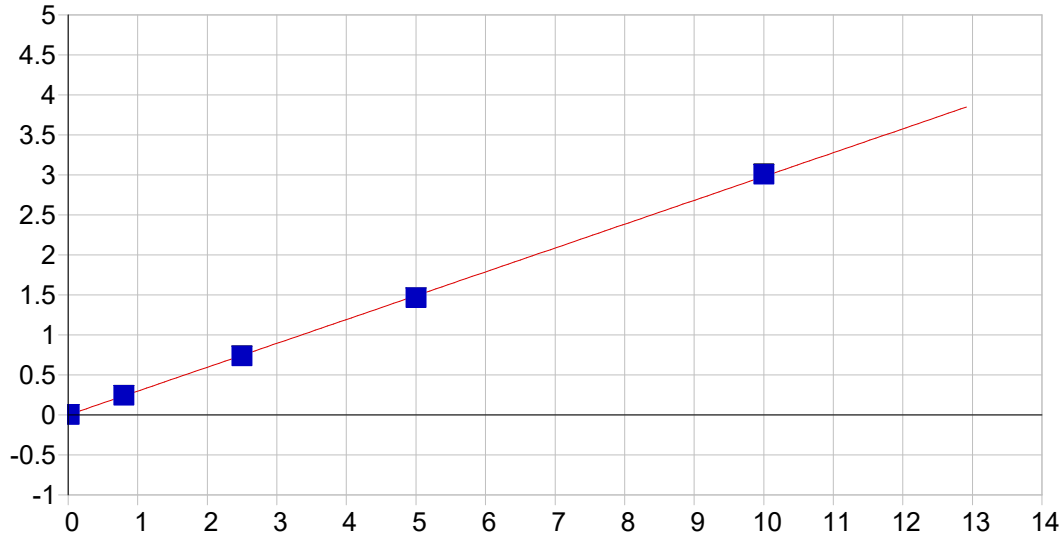
Tl 190.856 {477}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.122105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999930	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.001741		
Predicted MQL:	0.005802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.04000	.04021	.000	.533	.00483	.000	1
S2	.80000	.84089	.041	5.11	.10195	.000	1
S3	2.5000	2.5199	.020	.795	.30534	.001	1
S4	5.0000	4.9700	-.030	-.600	.60213	.000	1
S5	10.000	9.9690	-.031	-.310	1.2078	.002	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



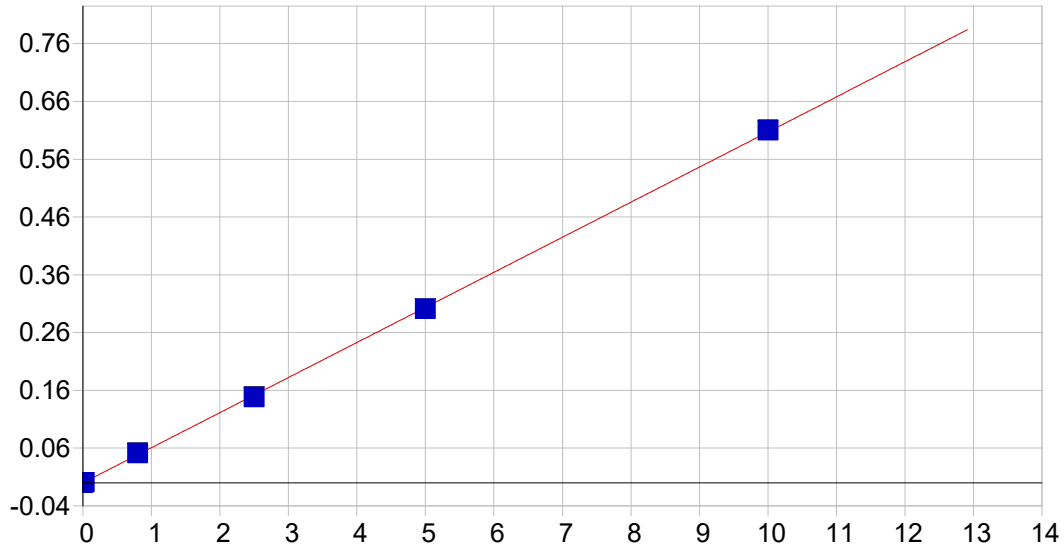
Pb 220.353 {453}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000030	Re-Slope:	1.000000
A1 (Gain):	0.297976	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.001470		
Predicted MQL:	0.004900		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.01200	.01368	.002	14.0	.00403	.000	1
S2	.80000	.82063	.021	2.58	.24435	.000	1
S3	2.5000	2.4705	-.029	-1.18	.73552	.001	1
S4	5.0000	4.9116	-.088	-1.77	1.4622	.001	1
S5	10.000	10.096	.096	.956	3.0056	.002	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



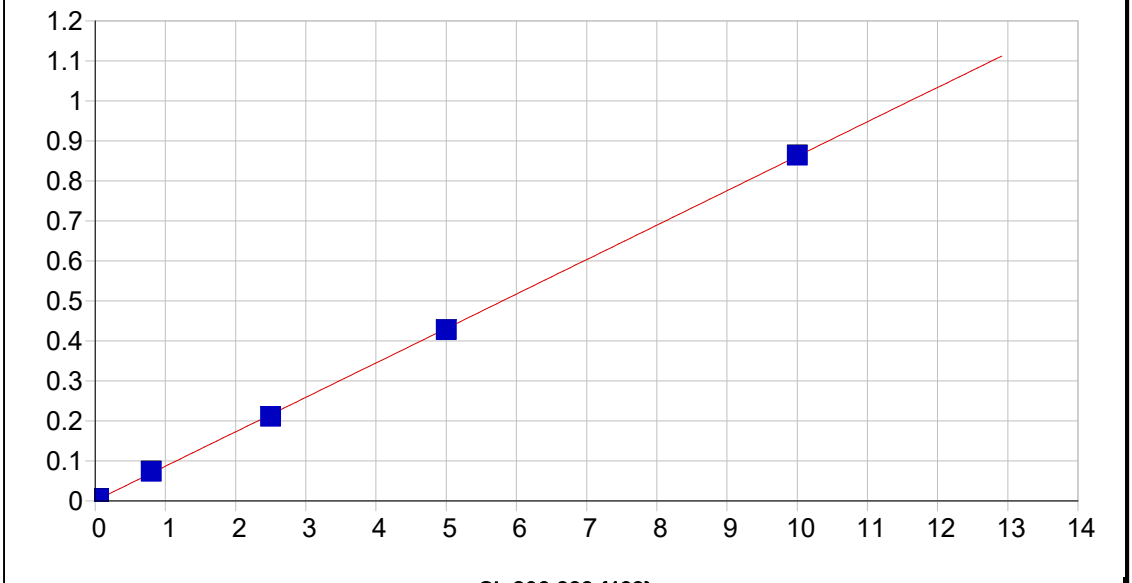
Se 196.090 {472}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.060716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.003616		
Predicted MQL:	0.012054		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00000	.000	1
S1	.02000	.02143	.001	7.15	.00130	.000	1
S2	.80000	.84751	.048	5.94	.05143	.000	1
S3	2.5000	2.4426	-.057	-2.30	.14821	.000	1
S4	5.0000	4.9624	-.038	-.752	.30112	.000	1
S5	10.000	10.046	.046	.461	.60960	.001	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



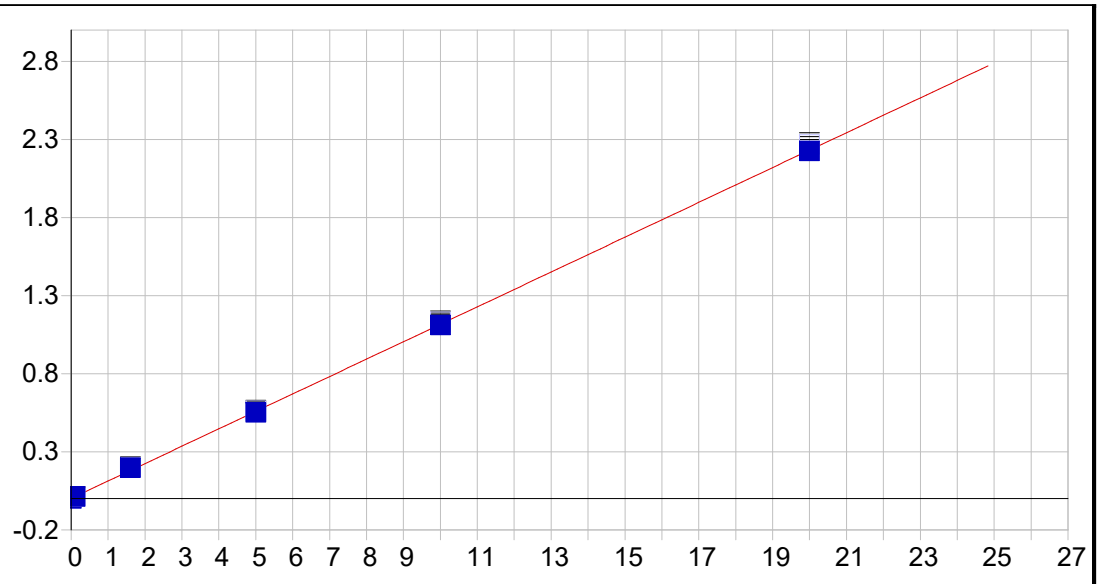
Sb 206.833 {463}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000501	Re-Slope:	1.000000
A1 (Gain):	0.086101	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.003171		
Predicted MQL:	0.010571		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00050	.000	1
S1	.05000	.05463	.005	9.26	.00516	.000	1
S2	.80000	.85307	.053	6.63	.07385	.000	1
S3	2.5000	2.4460	-.054	-2.16	.21077	.000	1
S4	5.0000	4.9644	-.036	-.713	.42728	.000	1
S5	10.000	10.032	.032	.320	.86296	.000	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



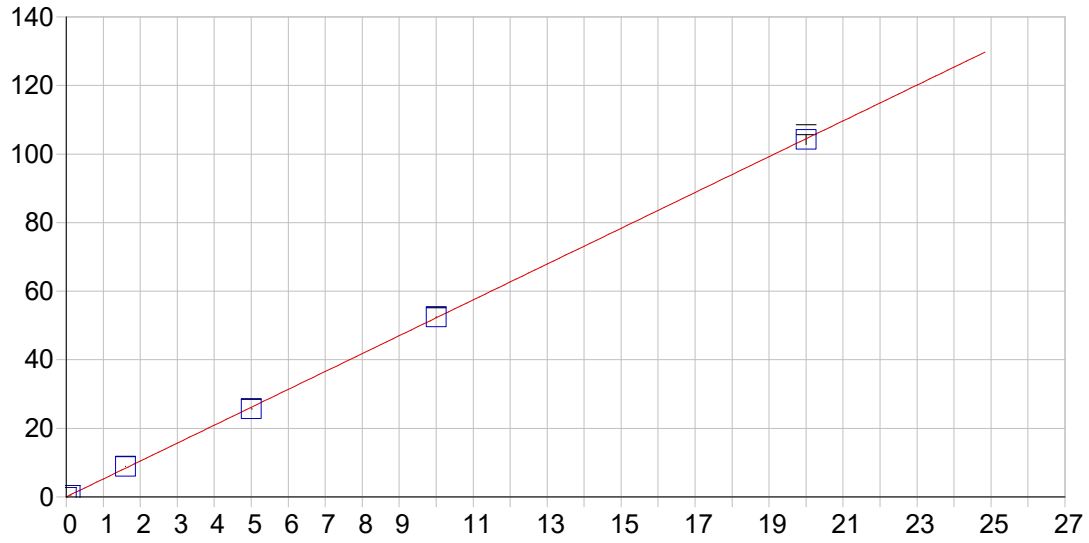
Al 396.152 { 85}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001401	Re-Slope:	1.000000
A1 (Gain):	0.111501	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999770	Status:	OK.
Std Error of Est:	0.000181		
Predicted MDL:	0.026327		
Predicted MQL:	0.087756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00140	.002	1
S1	.10000	.10499	.005	4.99	.01394	.003	1
S2	1.6000	1.7607	.161	10.0	.20104	.003	1
S3	5.0000	4.9380	-.062	-1.24	.56237	.004	1
S4	10.000	9.9557	-.044	-.443	1.1322	.006	1
S5	20.000	19.940	-.060	-.298	2.2663	.012	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



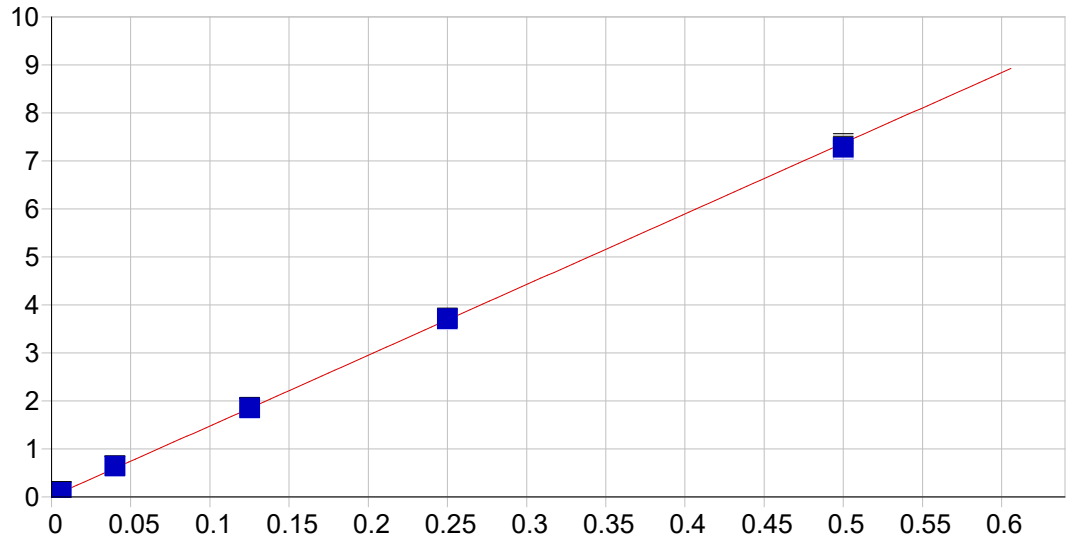
Ba 493.409 { 68}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.017872	Re-Slope:	1.000000
A1 (Gain):	5.222005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.005738		
Predicted MDL:	0.000978		
Predicted MQL:	0.003260		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01782	.004	1
S1	.10000	.10547	.005	5.47	.56865	.002	1
S2	1.6000	1.6974	.097	6.09	8.8817	.036	1
S3	5.0000	4.9101	-.090	-1.80	25.658	.018	1
S4	10.000	10.033	.033	.326	52.408	.142	1
S5	20.000	19.954	-.046	-.228	104.22	1.48	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



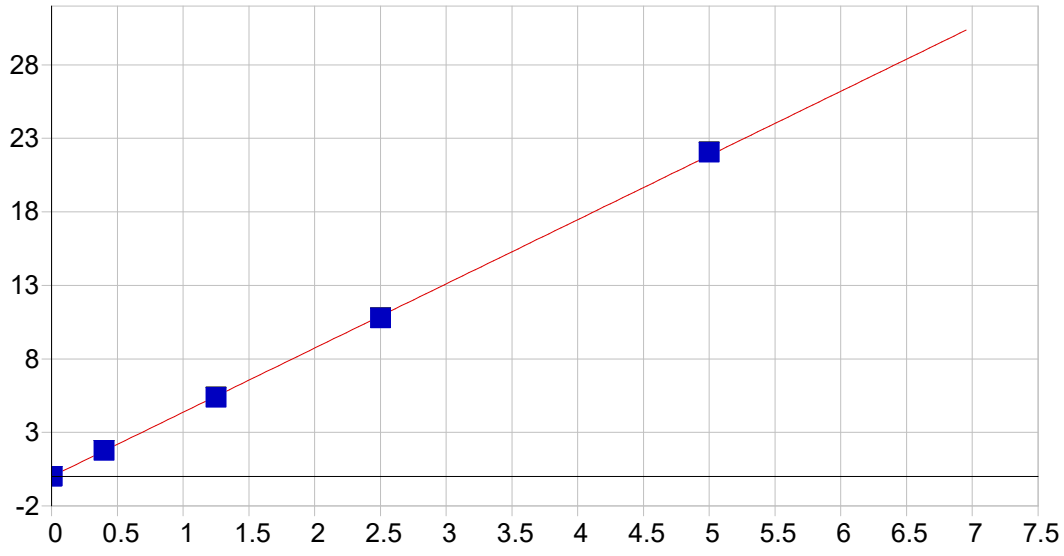
Be 234.861 {144}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005841	Re-Slope:	1.000000
A1 (Gain):	14.725163	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.000873		
Predicted MDL:	0.000130		
Predicted MQL:	0.000433		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00583	.001	1
S1	.00600	.00652	.001	8.71	.10094	.003	1
S2	.04000	.04324	.003	8.10	.63864	.006	1
S3	.12500	.12552	.001	.416	1.8419	.012	1
S4	.25000	.25164	.002	.657	3.6868	.017	1
S5	.50000	.49408	-.006	-1.18	7.2321	.077	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



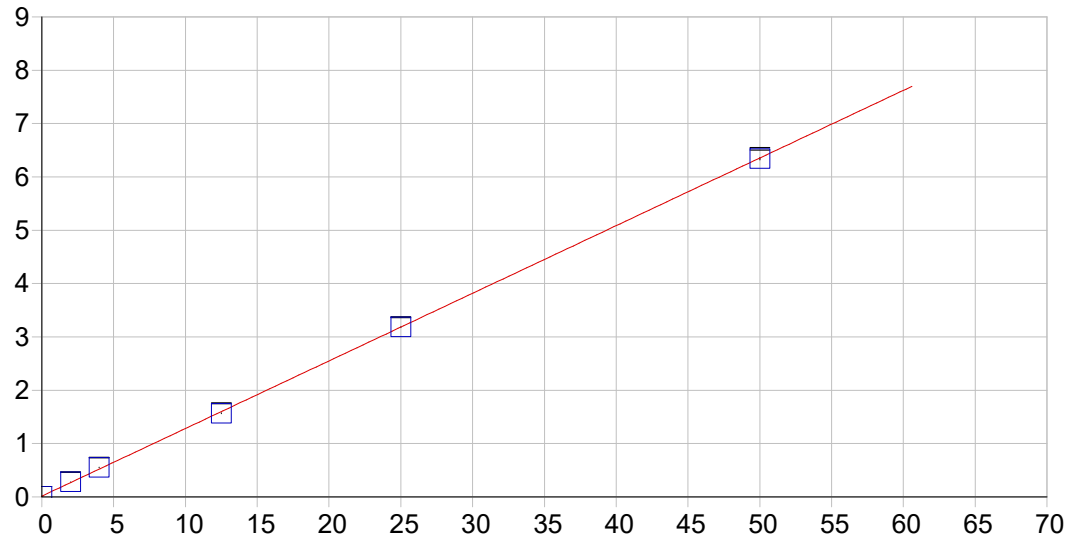
Cd 214.438 {457}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	4.367400	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000456		
Predicted MDL:	0.000066		
Predicted MQL:	0.000219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00000	.000	1
S1	.00600	.00591	-.000	-1.55	.02582	.000	1
S2	.40000	.40311	.003	.777	1.7607	.001	1
S3	1.2500	1.2302	-.020	-1.59	5.3731	.018	1
S4	2.5000	2.4683	-.032	-1.27	10.781	.011	1
S5	5.0000	5.0485	.049	.971	22.051	.021	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



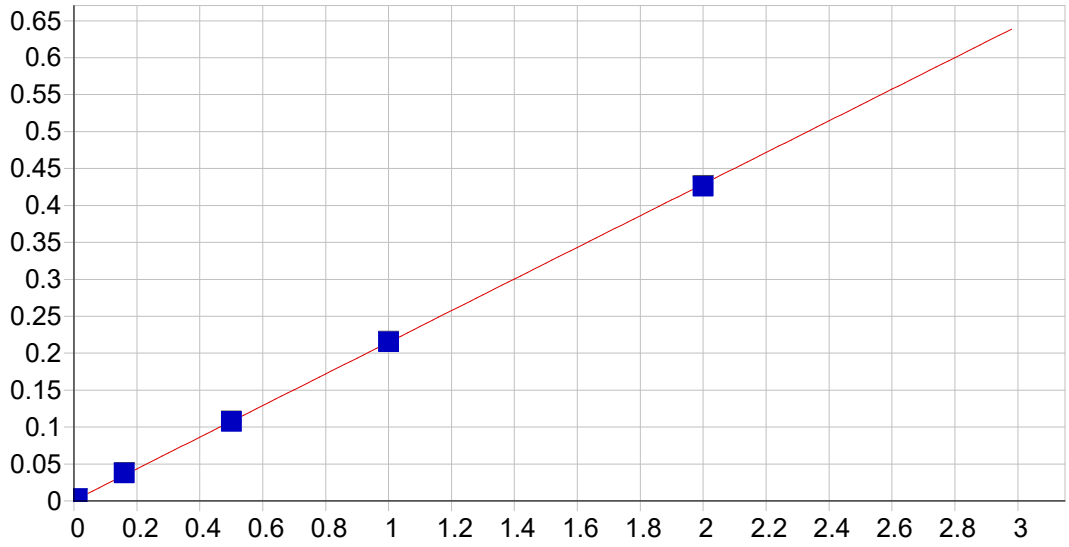
Ca 373.690 { 90}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014296	Re-Slope:	1.000000
A1 (Gain):	0.126796	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.001058		
Predicted MDL:	0.020962		
Predicted MQL:	0.069872		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	.01427	.000	1
S1	2.0000	2.1002	.100	5.01	.28059	.004	1
S2	4.0000	4.2313	.231	5.78	.55081	.005	1
S3	12.500	12.258	-.242	-1.94	1.5686	.010	1
S4	25.000	24.996	-.004	-.018	3.1836	.011	1
S5	50.000	49.915	-.085	-.170	6.3433	.025	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



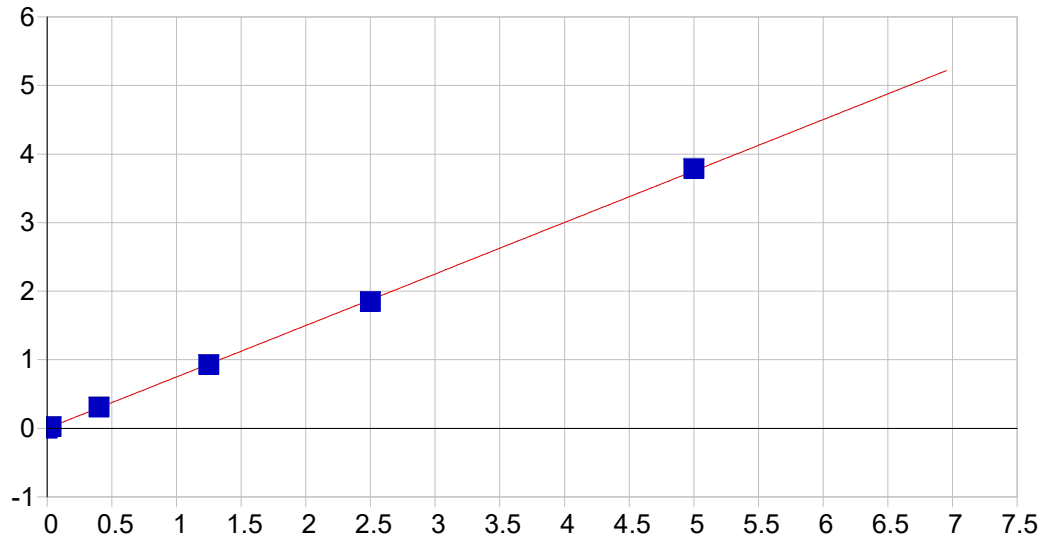
Cr 267.716 {126}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000639	Re-Slope:	1.000000
A1 (Gain):	0.214121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.001072		
Predicted MQL:	0.003572		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00064	.000	1
S1	.01000	.01064	.001	6.42	.00292	.000	1
S2	.16000	.17243	.012	7.77	.03759	.000	1
S3	.50000	.49914	-.001	-.172	.10761	.000	1
S4	1.0000	1.0024	.002	.244	.21547	.001	1
S5	2.0000	1.9854	-.015	-.732	.42613	.001	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



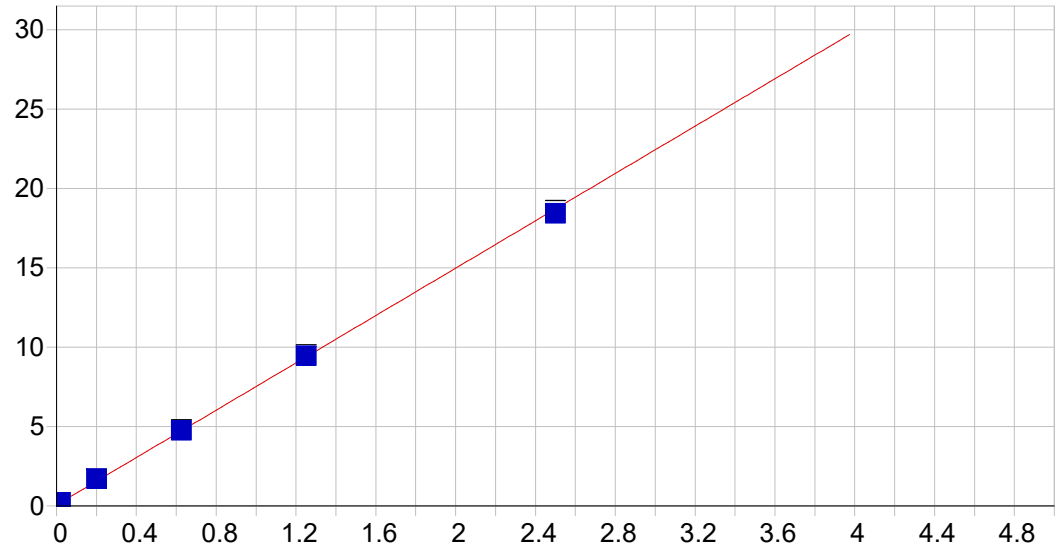
Co 228.616 {448}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000203	Re-Slope:	1.000000
A1 (Gain):	0.750261	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000188		
Predicted MDL:	0.000368		
Predicted MQL:	0.001227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.03000	.03108	.001	3.60	.02339	.000	1
S2	.40000	.40910	.009	2.28	.30750	.001	1
S3	1.2500	1.2367	-.013	-1.06	.92920	.003	1
S4	2.5000	2.4599	-.040	-1.60	1.8481	.001	1
S5	5.0000	5.0432	.043	.864	3.7885	.006	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



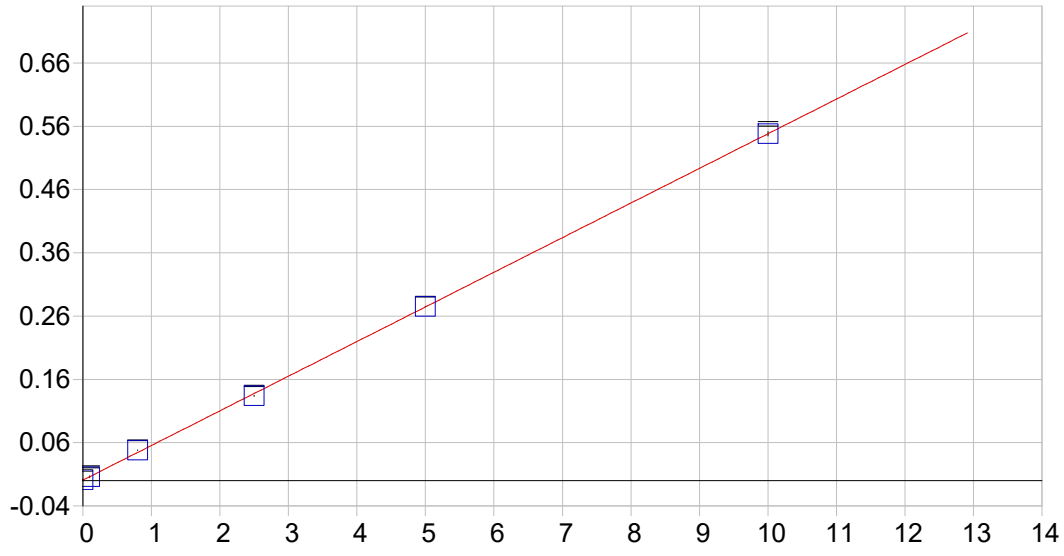
Cu 324.754 {104}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.063613	Re-Slope:	1.000000
A1 (Gain):	7.459118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999677	Status:	OK.
Std Error of Est:	0.002227		
Predicted MDL:	0.000609		
Predicted MQL:	0.002029		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.06358	.001	1
S1	.02000	.02208	.002	10.4	.22841	.007	1
S2	.20000	.22046	.020	10.2	1.7088	.012	1
S3	.62500	.62924	.004	.678	4.7594	.036	1
S4	1.2500	1.2603	.010	.821	9.4686	.053	1
S5	2.5000	2.4629	-.037	-1.48	18.444	.183	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



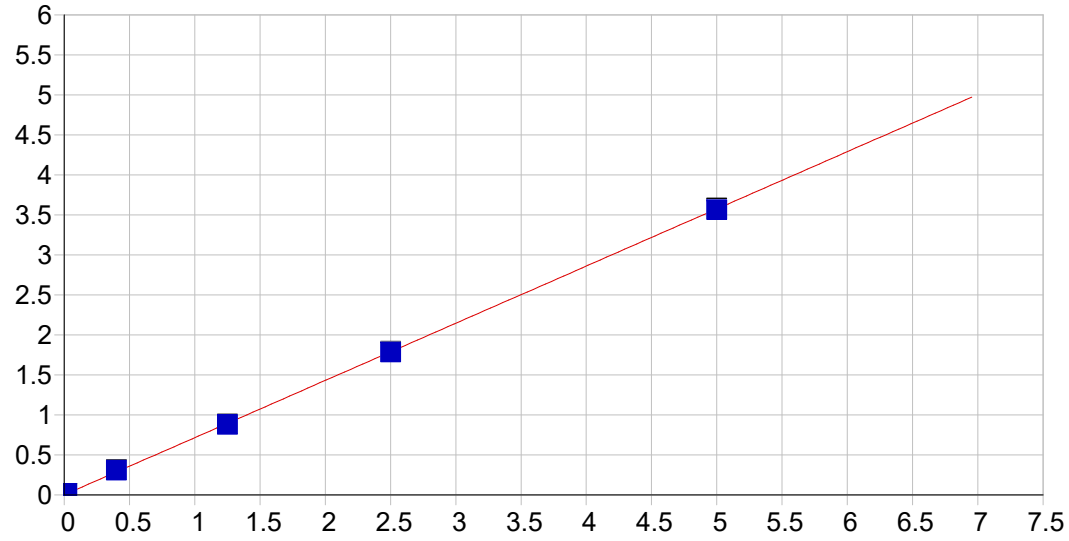
Fe 259.837 {130}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000779	Re-Slope:	1.000000
A1 (Gain):	0.054744	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.016259		
Predicted MQL:	0.054197		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00078	.001	1
S1	.10000	.09712	-.003	-2.88	.00610	.001	1
S2	.80000	.86275	.063	7.84	.04801	.000	1
S3	2.5000	2.4325	-.067	-2.70	.13395	.001	1
S4	5.0000	5.0079	.008	.157	.27493	.000	1
S5	10.000	9.9997	-.000	-.003	.54821	.003	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



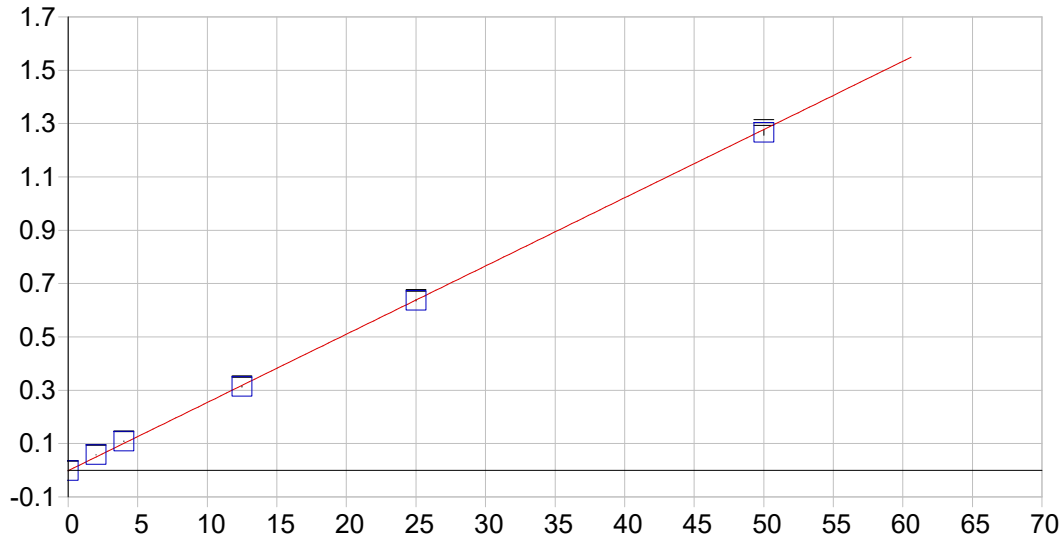
Mn 257.610 {131}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000766	Re-Slope:	1.000000
A1 (Gain):	0.714944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999805	Status:	OK.
Std Error of Est:	0.000234		
Predicted MDL:	0.001160		
Predicted MQL:	0.003867		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00076	.000	1
S1	.02000	.02370	.004	18.5	.01774	.001	1
S2	.40000	.43210	.032	8.03	.30995	.001	1
S3	1.2500	1.2314	-.019	-1.49	.88196	.001	1
S4	2.5000	2.4965	-.003	-.140	1.7872	.007	1
S5	5.0000	4.9863	-.014	-.275	3.5689	.017	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



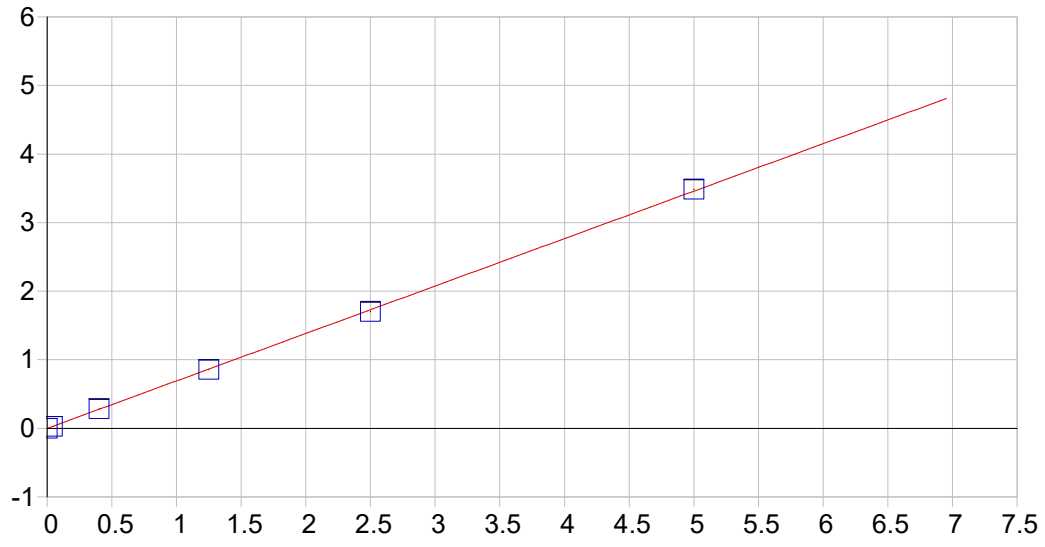
Mg 279.079 {121}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001503	Re-Slope:	1.000000
A1 (Gain):	0.025583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999544	Status:	OK.
Std Error of Est:	0.000409		
Predicted MDL:	0.044362		
Predicted MQL:	0.147872		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00044	-.000	.000	-.00151	.001	1
S1	2.0000	2.3296	.330	16.5	.05809	.001	1
S2	4.0000	4.3135	.313	7.84	.10885	.001	1
S3	12.500	12.319	-.181	-1.45	.31365	.003	1
S4	25.000	24.961	-.039	-.154	.63708	.003	1
S5	50.000	49.577	-.423	-.847	1.2668	.011	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



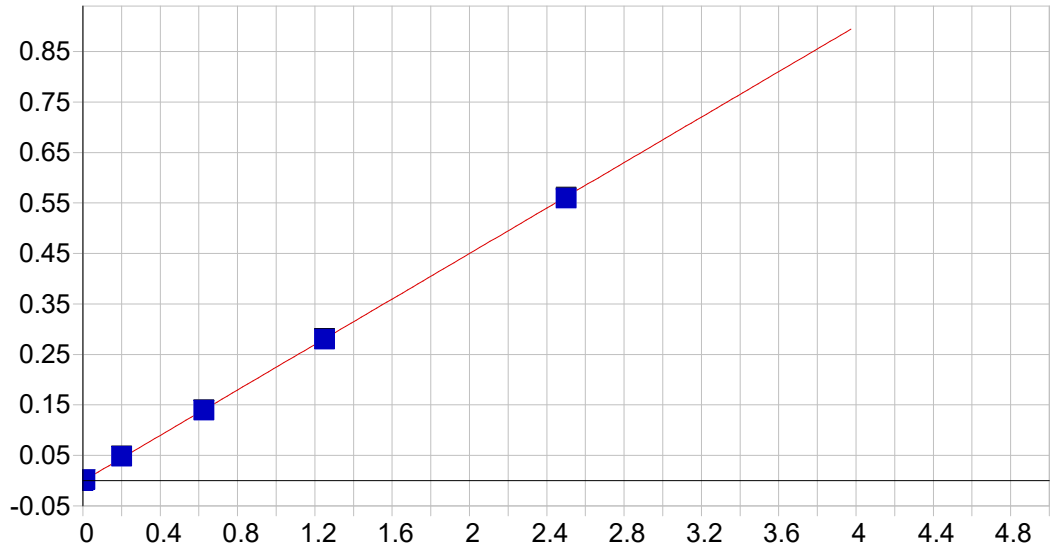
Ni 231.604 {446}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000016	Re-Slope:	1.000000
A1 (Gain):	0.691780	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000201		
Predicted MDL:	0.000473		
Predicted MQL:	0.001578		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.04000	.04065	.001	1.63	.02814	.000	1
S2	.40000	.41122	.011	2.80	.28449	.000	1
S3	1.2500	1.2378	-.012	-.972	.85634	.003	1
S4	2.5000	2.4601	-.040	-1.60	1.7019	.003	1
S5	5.0000	5.0402	.040	.804	3.4867	.004	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



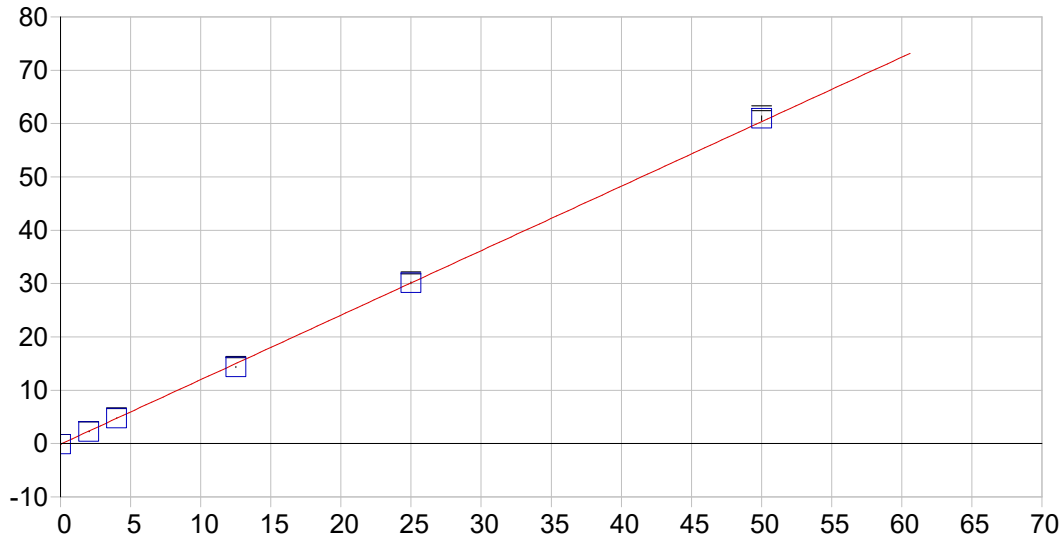
Ag 328.068 {103}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000551	Re-Slope:	1.000000
A1 (Gain):	0.225189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.001241		
Predicted MQL:	0.004136		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00055	.001	1
S1	.01000	.01045	.000	4.47	.00179	.000	1
S2	.20000	.21660	.017	8.30	.04810	.000	1
S3	.62500	.62287	-.002	-.340	.13933	.000	1
S4	1.2500	1.2476	-.002	-.189	.27964	.001	1
S5	2.5000	2.4874	-.013	-.502	.55806	.002	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



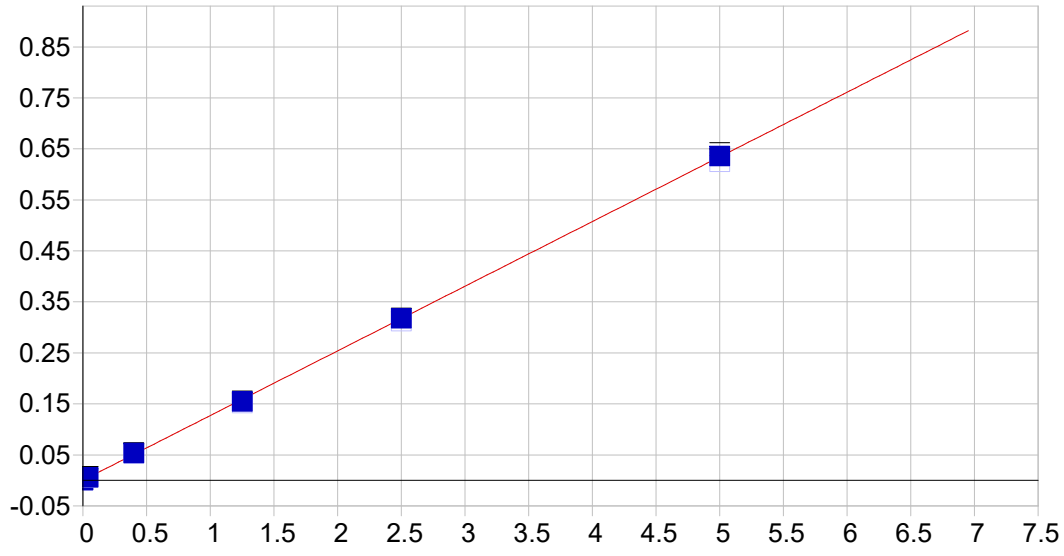
Na 818.326 { 41}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.113027	Re-Slope:	1.000000
A1 (Gain):	1.209335	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999835	Status:	OK.
Std Error of Est:	0.011615		
Predicted MDL:	0.012110		
Predicted MQL:	0.040367		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	-.11290	.023	1
S1	2.0000	1.9392	-.061	-3.04	2.2321	.012	1
S2	4.0000	4.0295	.030	.738	4.7600	.047	1
S3	12.500	11.965	-.535	-4.28	14.357	.104	1
S4	25.000	25.028	.028	.111	30.154	.173	1
S5	50.000	50.538	.538	1.08	61.005	.426	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



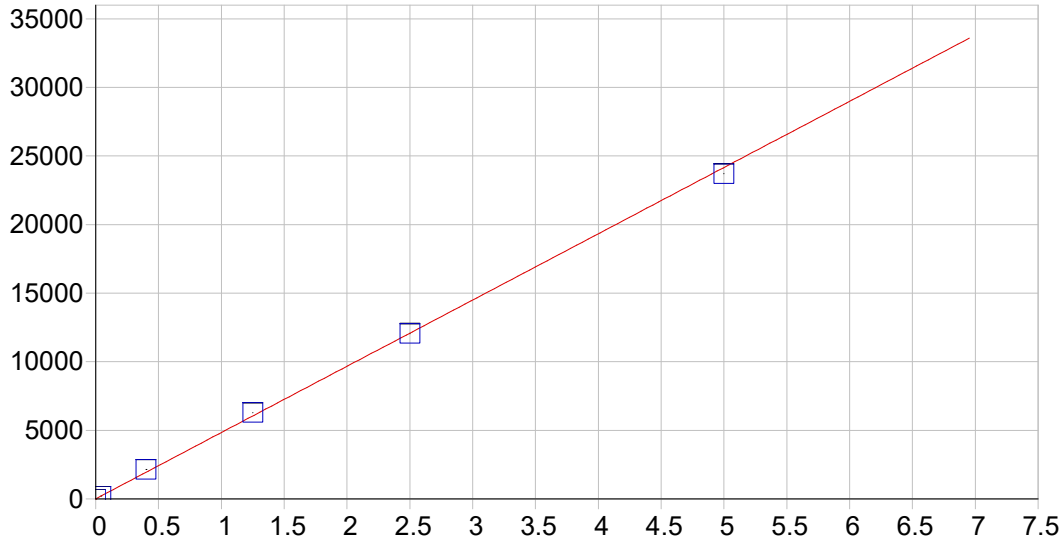
V 292.402 {115}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000372	Re-Slope:	1.000000
A1 (Gain):	0.126790	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.009007		
Predicted MQL:	0.030023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00037	.002	1
S1	.04000	.04178	.002	4.44	.00545	.002	1
S2	.40000	.41850	.019	4.63	.05253	.001	1
S3	1.2500	1.2157	-.034	-2.74	.15169	.001	1
S4	2.5000	2.5028	.003	.112	.31204	.001	1
S5	5.0000	5.0112	.011	.225	.62443	.007	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



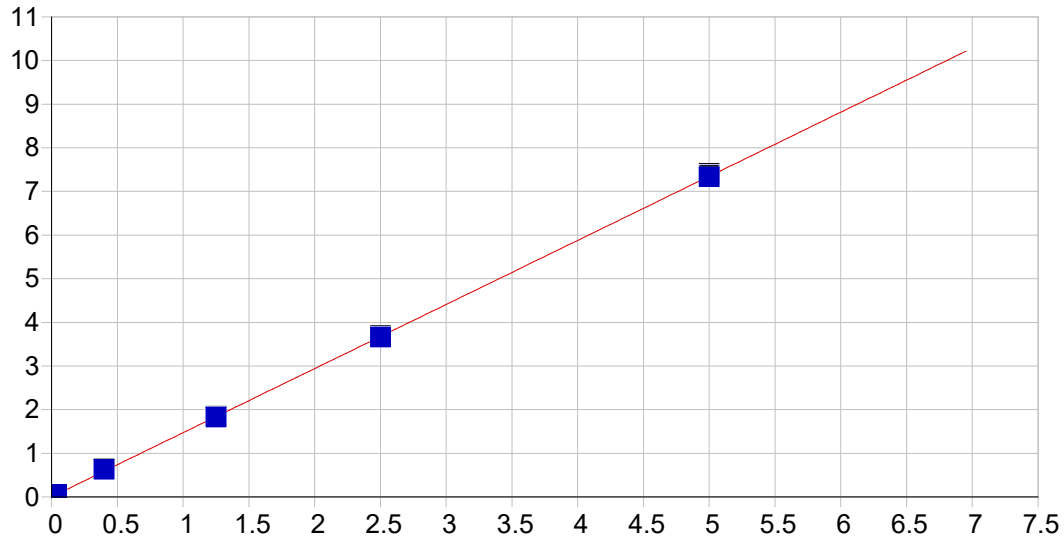
Zn 206.200 {464}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	9.241117	Re-Slope:	1.000000
A1 (Gain):	4830.468138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999517	Status:	OK.
Std Error of Est:	3.526107		
Predicted MDL:	0.000260		
Predicted MQL:	0.000868		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	9.2005	.902	1
S1	.04000	.04322	.003	8.05	218.02	.992	1
S2	.40000	.44379	.044	10.9	2152.9	4.93	1
S3	1.2500	1.3010	.051	4.08	6293.5	12.4	1
S4	2.5000	2.4956	-.004	-.178	12064.	21.3	1
S5	5.0000	4.9065	-.094	-1.87	23710.	14.9	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



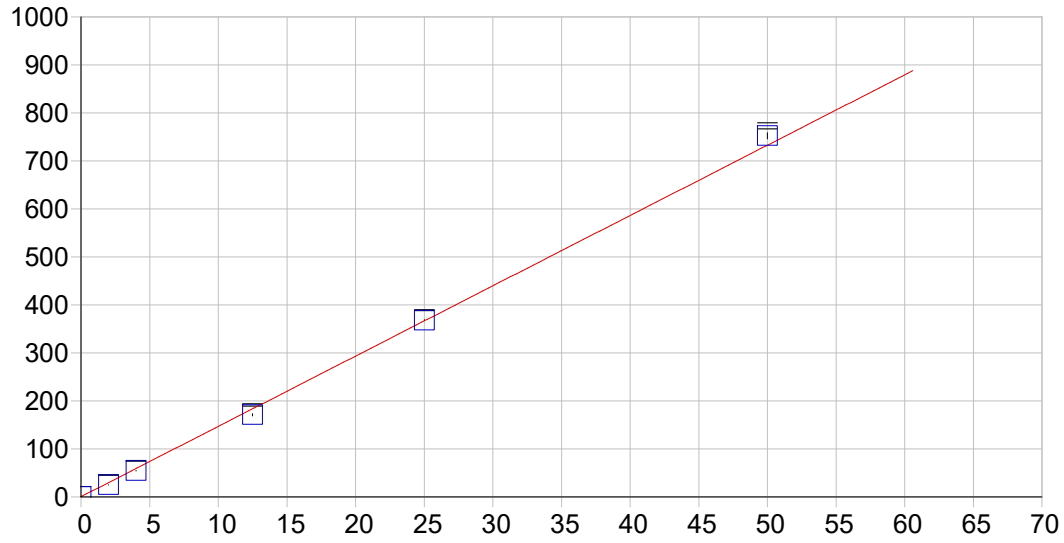
Zn 213.856 {158}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002548	Re-Slope:	1.000000
A1 (Gain):	1.469018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000490		
Predicted MDL:	0.000546		
Predicted MQL:	0.001820		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00254	.001	1
S1	.04000	.04164	.002	4.10	.06414	.001	1
S2	.40000	.42592	.026	6.48	.63250	.003	1
S3	1.2500	1.2426	-.007	-.595	1.8413	.003	1
S4	2.5000	2.4885	-.011	-.460	3.6849	.009	1
S5	5.0000	4.9914	-.009	-.173	7.3884	.023	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



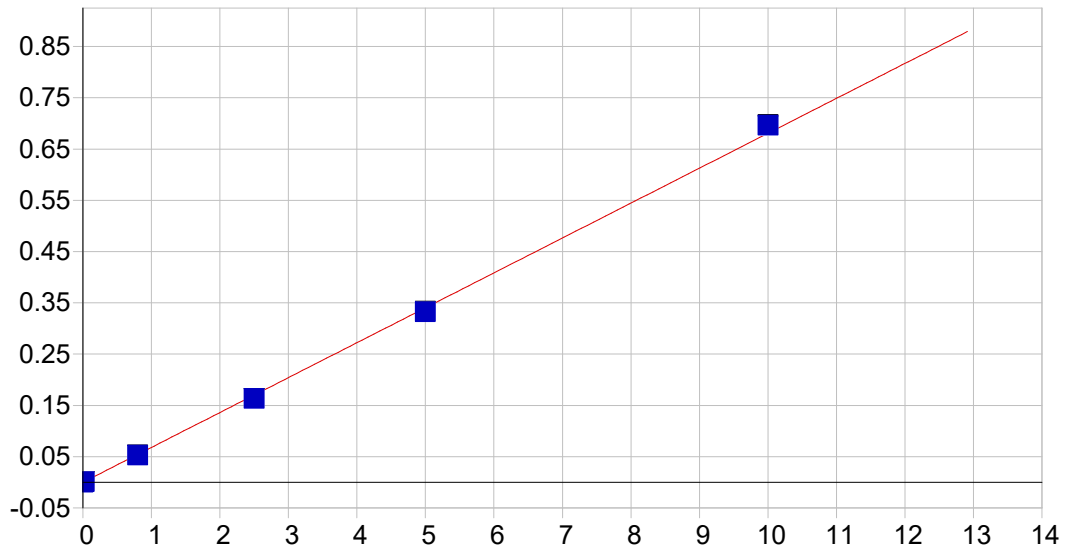
K 769.896 { 44}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.433244	Re-Slope:	1.000000
A1 (Gain):	14.644817	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999101	Status:	OK.
Std Error of Est:	0.328657		
Predicted MDL:	0.000938		
Predicted MQL:	0.003125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00054	.001	.000	.44118	.013	1
S1	2.0000	1.6801	-.320	-16.0	25.038	.110	1
S2	4.0000	3.7010	-.299	-7.48	54.633	.421	1
S3	12.500	11.652	-.848	-6.78	171.08	2.24	1
S4	25.000	25.115	.115	.461	368.24	.982	1
S5	50.000	51.351	1.35	2.70	752.46	6.46	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



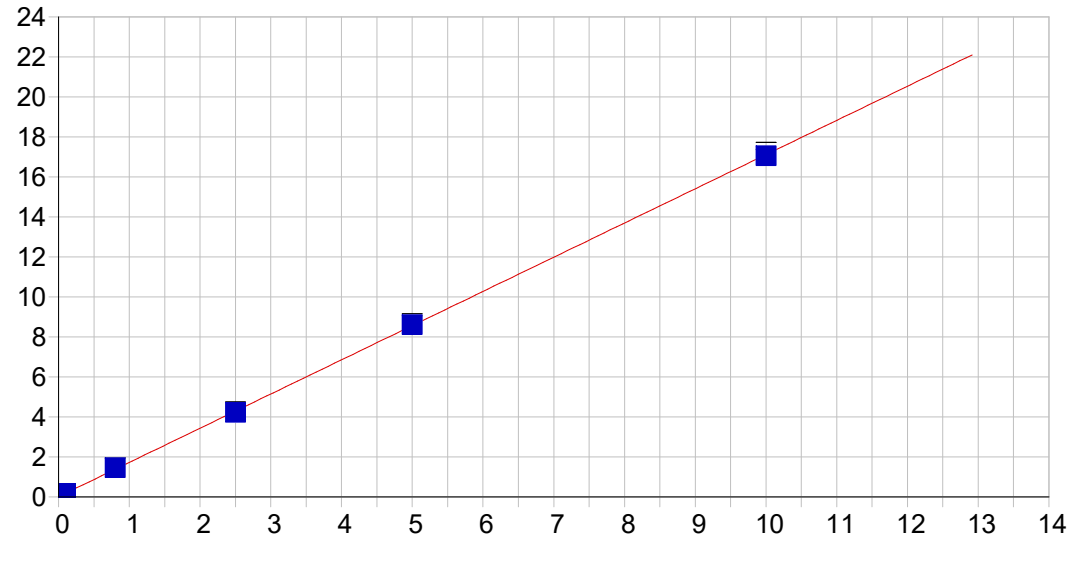
P 177.495 {490}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000134	Re-Slope:	1.000000
A1 (Gain):	0.068090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999657	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002157		
Predicted MQL:	0.007190		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00013	.000	1
S1	.02000	.01877	-.001	-6.13	.00113	.000	1
S2	.80000	.77573	-.024	-3.03	.05256	.000	1
S3	2.5000	2.4017	-.098	-3.93	.16300	.000	1
S4	5.0000	4.8907	-.109	-2.19	.33209	.001	1
S5	10.000	10.233	.233	2.33	.69507	.001	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



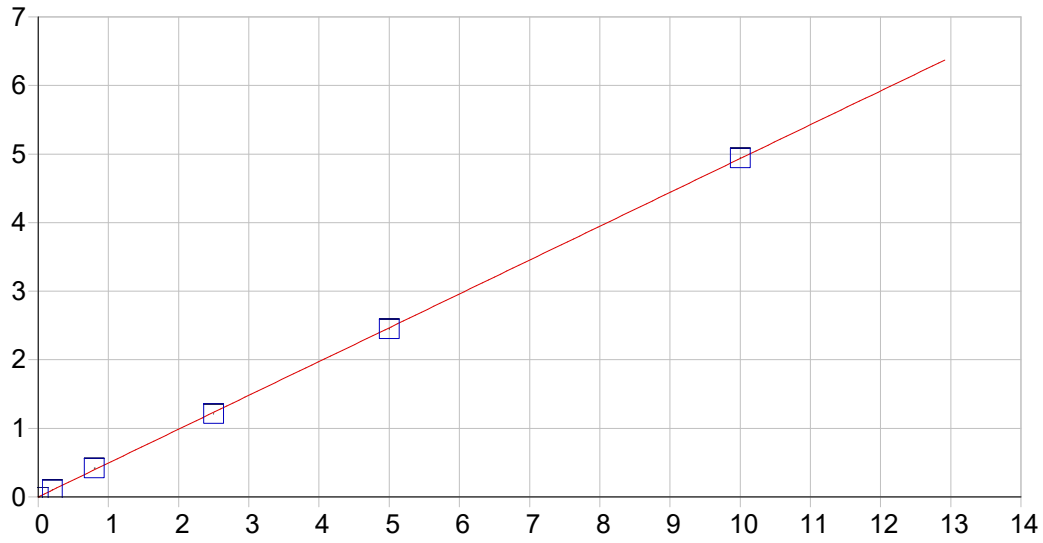
B 249.678 {135}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013202	Re-Slope:	1.000000
A1 (Gain):	1.710212	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.001201		
Predicted MDL:	0.001407		
Predicted MQL:	0.004691		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01319	.002	1
S1	.10000	.10586	.006	5.86	.19405	.003	1
S2	.80000	.84037	.040	5.05	1.4494	.008	1
S3	2.5000	2.4593	-.041	-1.63	4.2158	.032	1
S4	5.0000	5.0268	.027	.536	8.6036	.049	1
S5	10.000	9.9677	-.032	-.323	17.047	.180	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



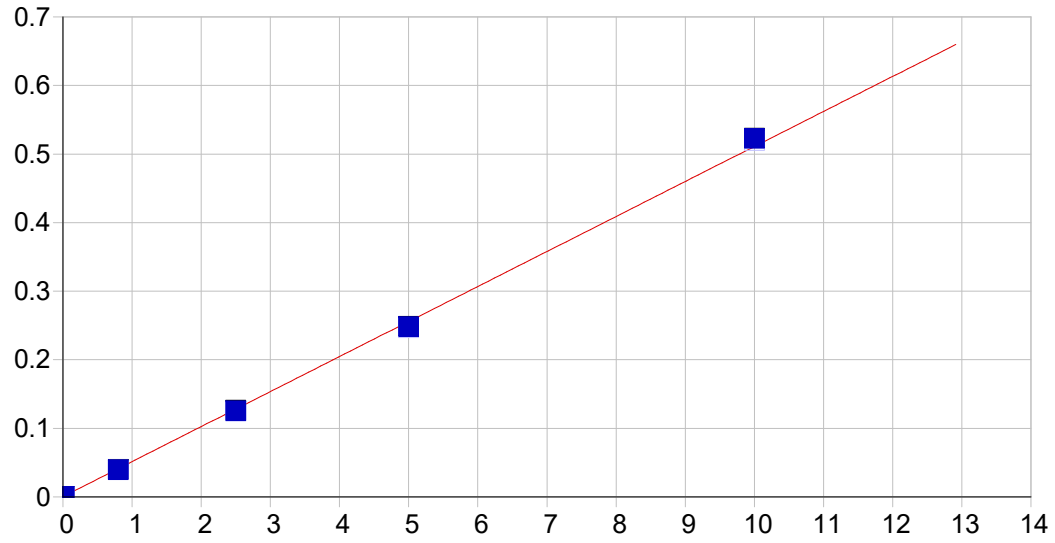
Mo 202.030 {467}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000424	Re-Slope:	1.000000
A1 (Gain):	0.493315	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000615		
Predicted MDL:	0.000484		
Predicted MQL:	0.001614		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00041	.000	1
S1	.20000	.21168	.012	5.84	.10485	.000	1
S2	.80000	.85257	.053	6.57	.42101	.000	1
S3	2.5000	2.4558	-.044	-1.77	1.2119	.004	1
S4	5.0000	4.9648	-.035	-.705	2.4496	.003	1
S5	10.000	10.015	.015	.152	4.9411	.004	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



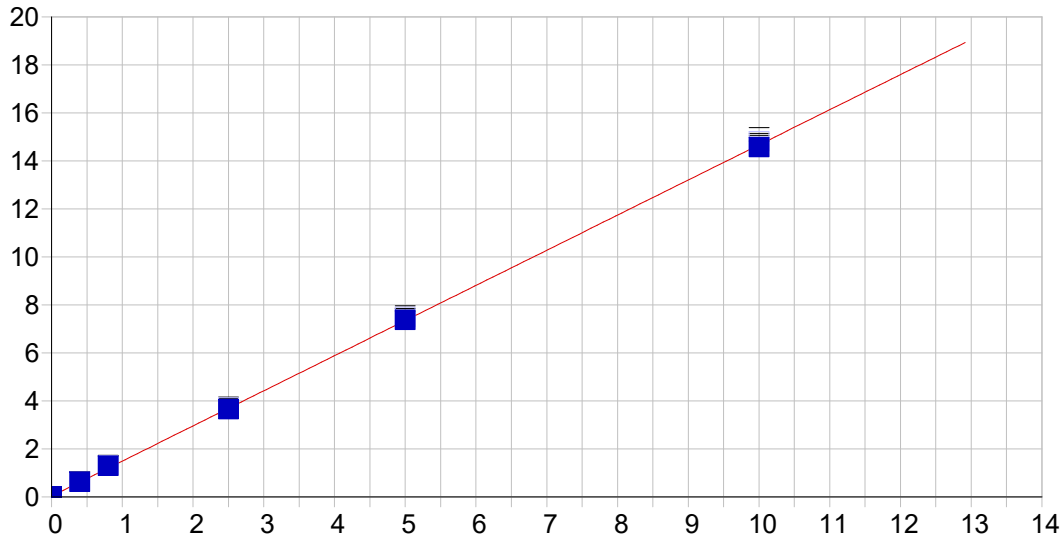
S 182.034 {485}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000432	Re-Slope:	1.000000
A1 (Gain):	0.051060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999672	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.002981		
Predicted MQL:	0.009937		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00043	.000	1
S1	.02000	.01977	-.000	-1.13	.00136	.000	1
S2	.80000	.76613	-.034	-4.23	.03928	.000	1
S3	2.5000	2.4523	-.048	-1.91	.12480	.001	1
S4	5.0000	4.8533	-.147	-2.93	.24654	.001	1
S5	10.000	10.228	.228	2.28	.51931	.000	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



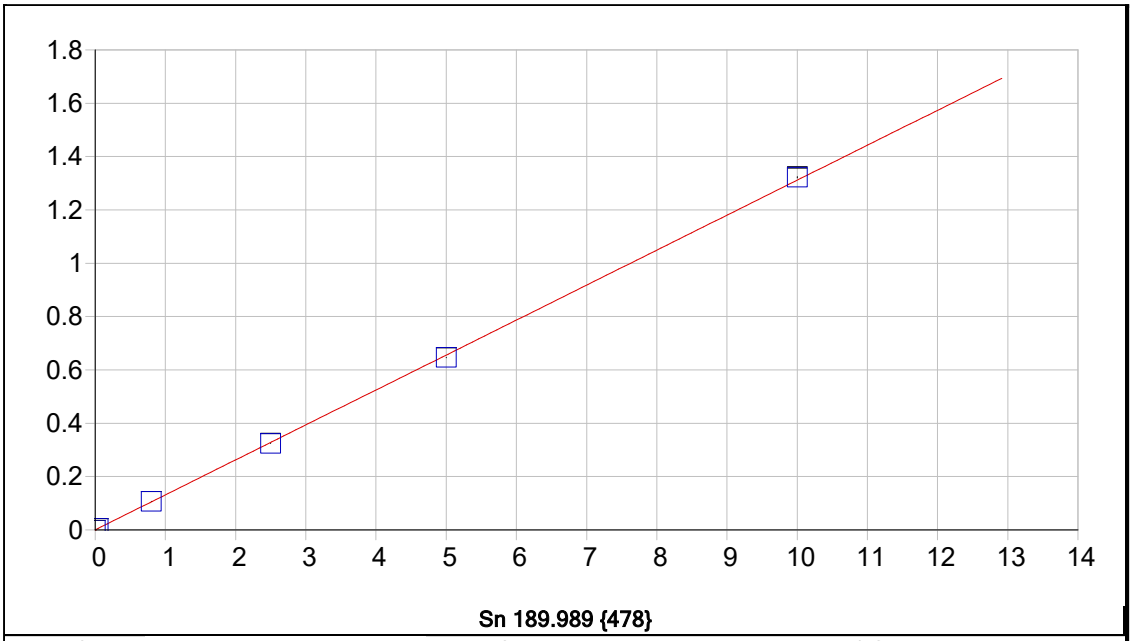
Si 251.611 {134}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.029879	Re-Slope:	1.000000
A1 (Gain):	1.463784	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.002688		
Predicted MDL:	0.001498		
Predicted MQL:	0.004993		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	.02983	.002	1
S1	.40000	.40918	.009	2.30	.63224	.007	1
S2	.80000	.86143	.061	7.68	1.3098	.011	1
S3	2.5000	2.4776	-.022	-.897	3.7157	.030	1
S4	5.0000	5.0177	.018	.354	7.4931	.050	1
S5	10.000	9.9342	-.066	-.658	14.808	.159	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



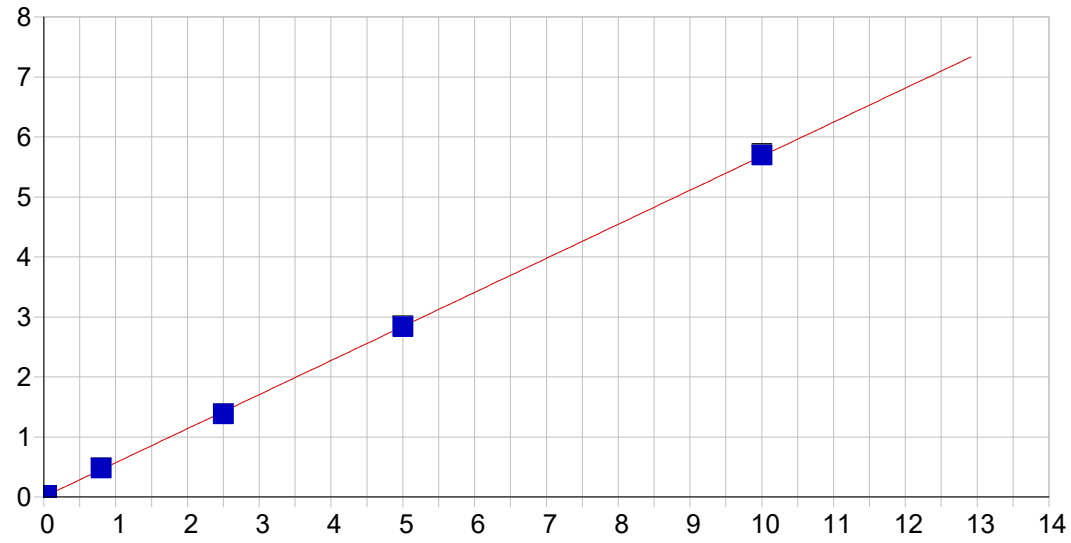
Sn 189.989 {478}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000302	Re-Slope:	1.000000
A1 (Gain):	0.131099	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.001013		
Predicted MQL:	0.003377		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00030	.000	1
S1	.04000	.03909	-.001	-2.27	.00543	.000	1
S2	.80000	.81330	.013	1.66	.10692	.000	1
S3	2.5000	2.4724	-.028	-1.10	.32443	.001	1
S4	5.0000	4.9289	-.071	-1.42	.64647	.001	1
S5	10.000	10.086	.086	.864	1.3226	.002	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



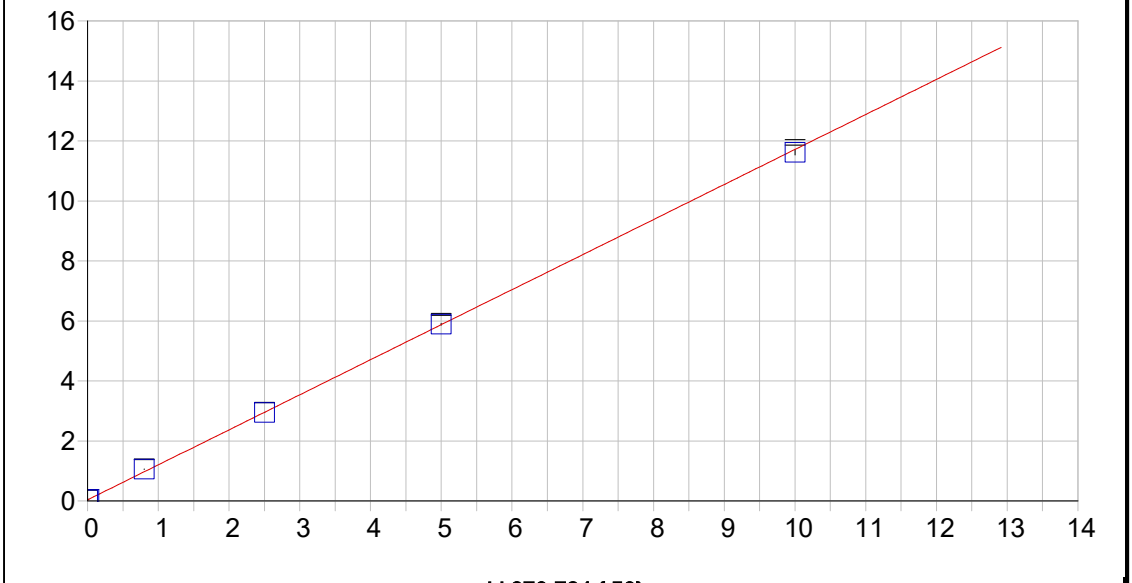
Ti 336.121 {100}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001902	Re-Slope:	1.000000
A1 (Gain):	0.567677	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.000271		
Predicted MDL:	0.003126		
Predicted MQL:	0.010419		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00190	.001	1
S1	.04000	.03975	-.000	-.617	.02445	.001	1
S2	.80000	.83775	.038	4.72	.47725	.003	1
S3	2.5000	2.4309	-.069	-2.76	1.3812	.002	1
S4	5.0000	4.9991	-.001	-.019	2.8383	.008	1
S5	10.000	10.032	.032	.325	5.6943	.021	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



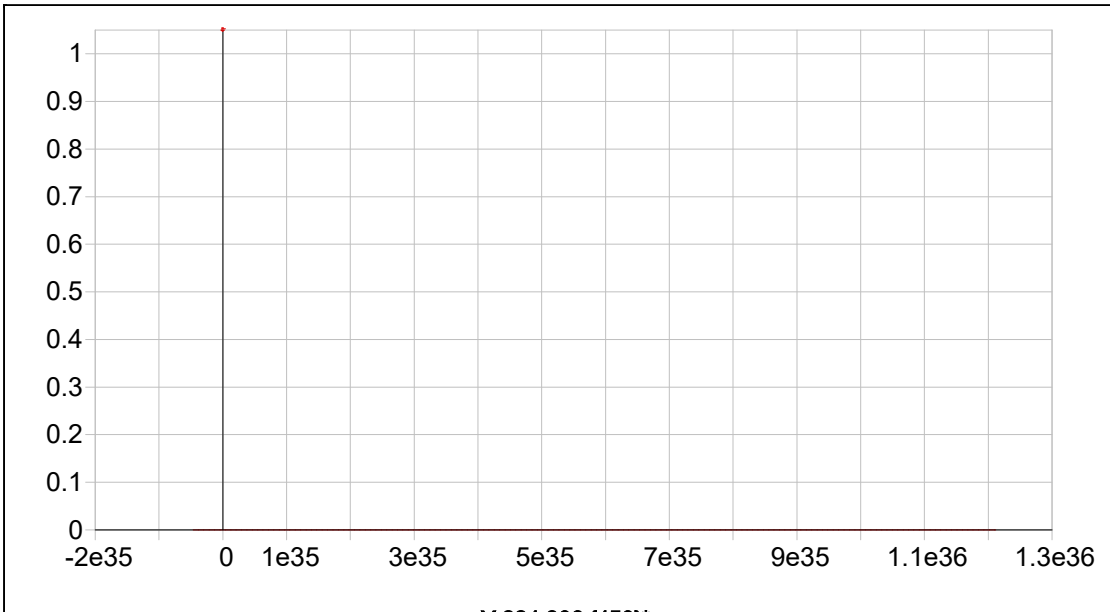
Li 670.784 { 50}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033593	Re-Slope:	1.000000
A1 (Gain):	1.168060	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999789	Status:	OK.
Std Error of Est:	0.000563		
Predicted MDL:	0.006122		
Predicted MQL:	0.020407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.03359	.007	1
S5	10.000	9.9199	-.080	-.801	11.621	.087	1
S4	5.0000	5.0117	.012	.235	5.8876	.029	1
S3	2.5000	2.4951	-.005	-.196	2.9480	.009	1
S2	.80000	.87469	.075	9.34	1.0553	.008	1
S1	.02000	.01861	-.001	-6.94	.05533	.006	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

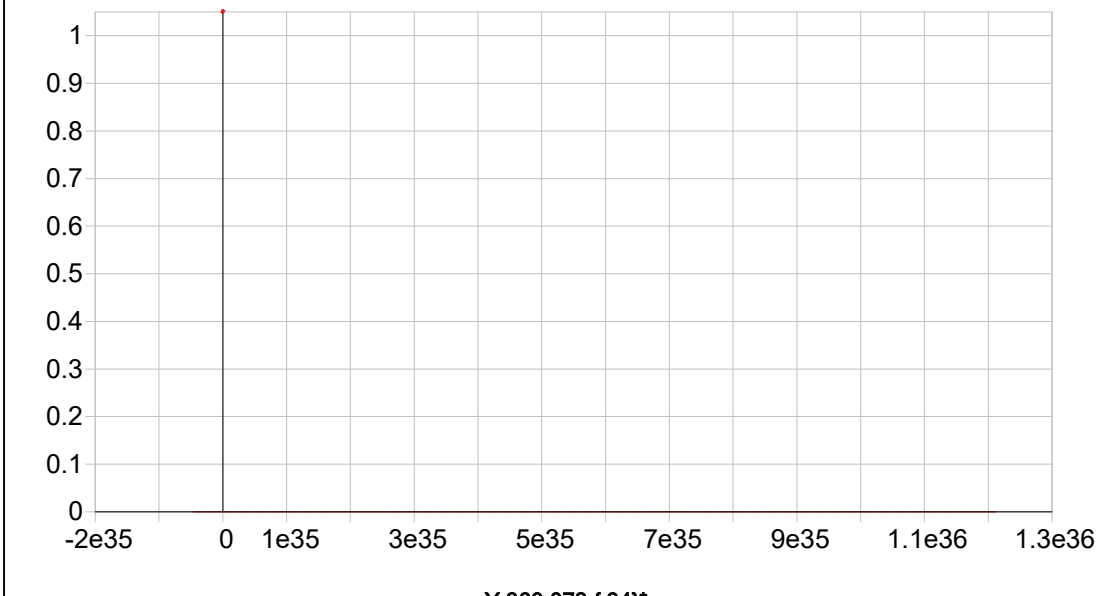


Y 224.306 {450}*

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

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

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



Y 360.073 { 94}*

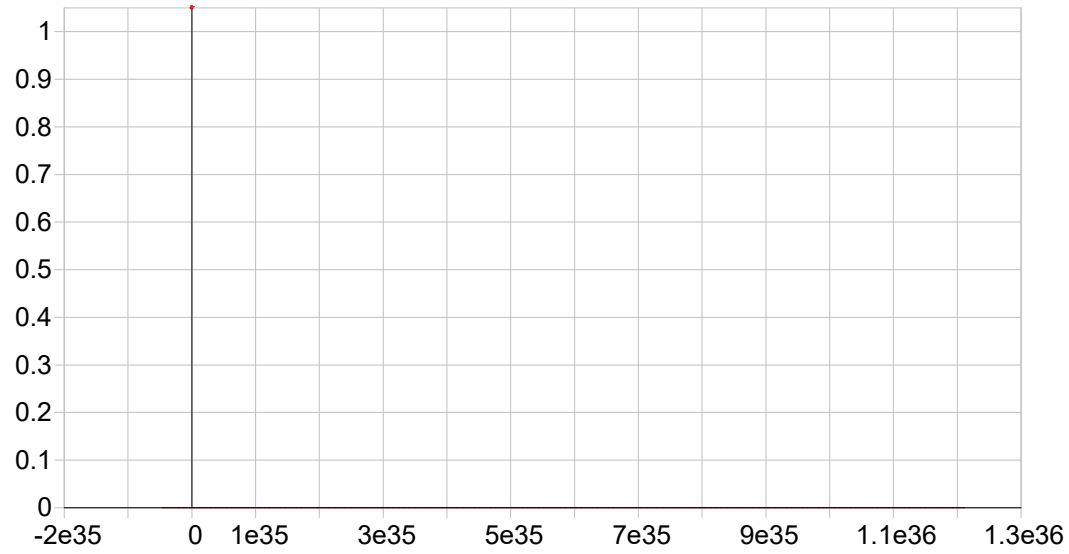
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

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



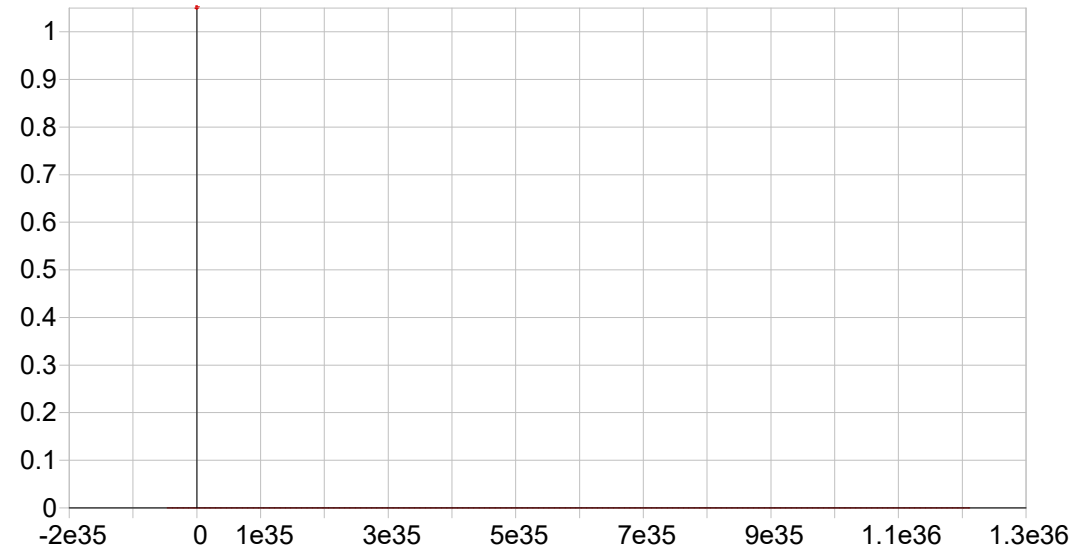
Y 371.030 { 91}*

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

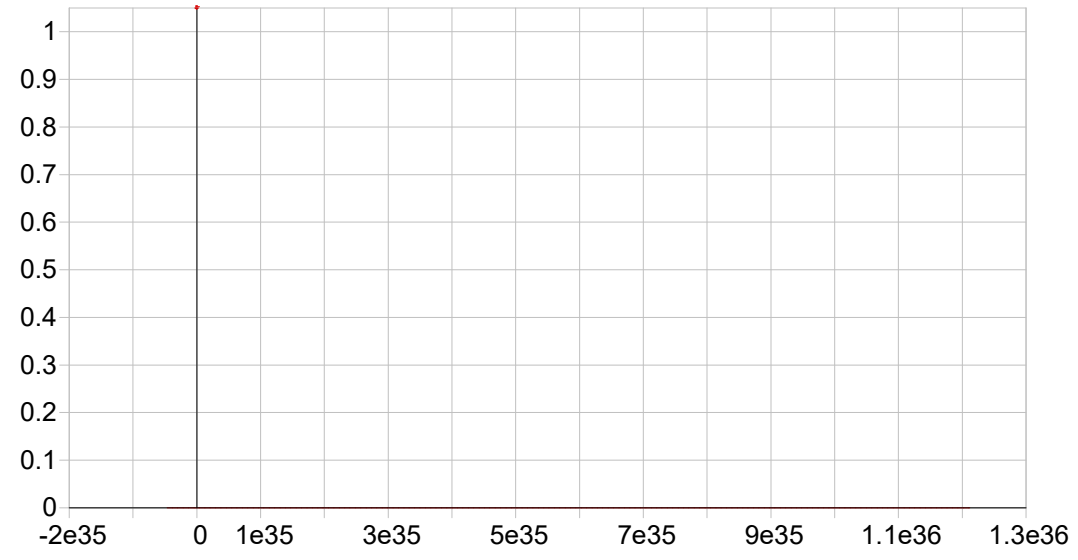
Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273



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



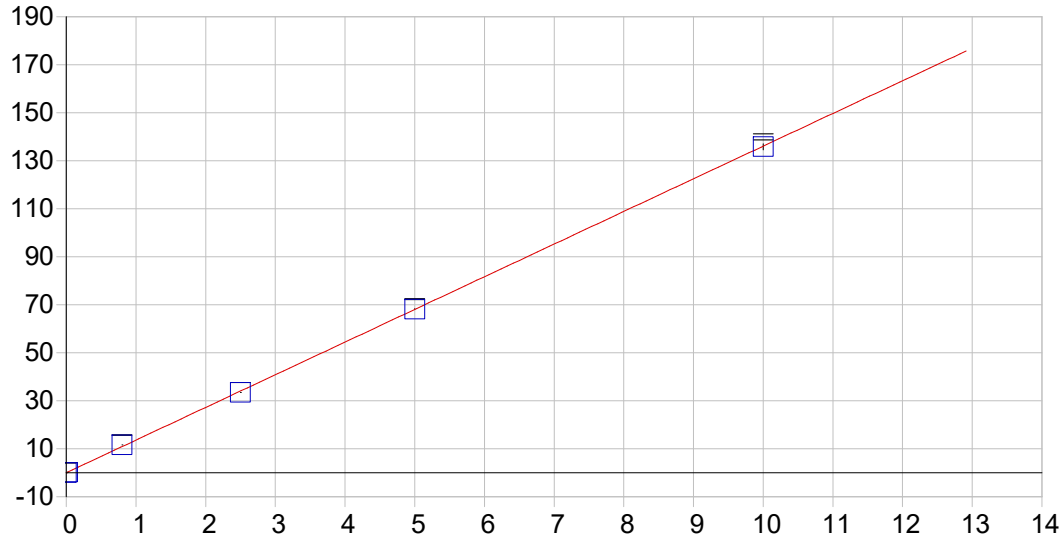
In 230.606 {446}*

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:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

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



Sr 407.771 { 83}

Date of Fit:	6/25/2025 13:00:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001010	Re-Slope:	1.000000
A1 (Gain):	13.609549	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.004775		
Predicted MDL:	0.000215		
Predicted MQL:	0.000716		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00098	.004	1
S1	.02000	.02105	.001	5.25	.28748	.003	1
S2	.80000	.85161	.052	6.45	11.591	.038	1
S3	2.5000	2.4591	-.041	-1.63	33.469	.013	1
S4	5.0000	5.0085	.008	.169	68.164	.216	1
S5	10.000	9.9797	-.020	-.203	135.82	1.30	1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S0 Acquired: 6/25/2025 12:23:08 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00012**	**.00003**	**.00003**	**.00000**	**.00050**	**.00140**	**.01782**	**.00583**
Stddev	.00013	.00013	.00018	.00022	.00011	.00249	.00355	.00112
%RSD	108.62	409.21	614.90	18e6	21.330	177.81	19.941	19.202
#1	-.00006	-.00012	.00010	-.00000	.00043	.00170	.02185	.00530
#2	-.00003	.00011	-.00018	.00023	.00062	.00372	.01645	.00507
#3	-.00026	.00011	.00017	-.00022	.00045	-.00122	.01515	.00711

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**.01427**	**.00064**	**.00020**	**.06358**	**.00078**	**.00076**	**-.00151**
Stddev	.00025	.00019	.00014	.00029	.00109	.00147	.00017	.00116
%RSD	7540.7	1.3055	21.307	141.90	1.7188	188.53	21.703	76.872
#1	.00024	.01406	.00073	.00051	.06391	.00215	.00093	-.00166
#2	.00003	.01435	.00070	.00016	.06236	.00096	.00060	-.00028
#3	-.00026	.01441	.00048	-.00006	.06447	-.00077	.00076	-.00260

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00002**	**-.00055**	**-.11290**	**.00037**	**.00254**	**.44118**	**-.00013**	**.01319**
Stddev	.00004	.00055	.02305	.00185	.00060	.01333	.00002	.00227
%RSD	290.21	99.433	20.416	496.54	23.543	3.0225	12.109	17.216
#1	-.00002	-.00084	-.09355	-.00096	.00186	.44407	-.00012	.01107
#2	.00000	.00008	-.13840	-.00040	.00297	.42663	-.00015	.01290
#3	.00007	-.00089	-.10675	.00248	.00280	.45283	-.00014	.01559

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00041**	**.00043**	**.02983**	**.00030**	**.00190**	**.03359**	**.00098**
Stddev	.00032	.00010	.00247	.00010	.00090	.00691	.00427
%RSD	77.465	22.919	8.2902	32.020	47.370	20.577	434.53
#1	.00075	.00039	.03048	.00027	.00169	.03557	.00101
#2	.00012	.00054	.02709	.00023	.00289	.03930	-.00330
#3	.00037	.00036	.03191	.00041	.00113	.02591	.00524

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S0 Acquired: 6/25/2025 12:23:08 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	5138.7	41515.	2279.7	3651.0	5792.0
Stddev	9.7	64.	11.6	9.4	7.1
%RSD	.18840	.15529	.51074	.25873	.12234
#1	5128.7	41561.	2281.8	3649.9	5784.3
#2	5148.1	41441.	2290.1	3642.1	5793.6
#3	5139.4	41543.	2267.1	3660.9	5798.1

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S1 Acquired: 6/25/2025 12:27:39 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	**.00058**	**.00483**	**.00403**	**.00130**	**.00516**	**.01394**	**.56865**	**.10094**
Stddev	.00009	.00011	.00044	.00007	.00019	.00289	.00226	.00261
%RSD	16.137	2.2789	10.833	5.6810	3.7216	20.746	.39674	2.5861
#1	.00065	.00486	.00390	.00121	.00527	.01644	.56949	.09804
#2	.00062	.00471	.00368	.00133	.00494	.01460	.56609	.10170
#3	.00047	.00492	.00452	.00135	.00527	.01077	.57037	.10309

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02582**	**.28059**	**.00292**	**.02339**	**.22841**	**.00610**	**.01774**	**.05809**
Stddev	.00031	.00399	.00020	.00027	.00662	.00136	.00113	.00072
%RSD	1.1860	1.4222	6.8722	1.1429	2.8984	22.243	6.3648	1.2399
#1	.02551	.28181	.00314	.02363	.23110	.00689	.01689	.05753
#2	.02582	.28382	.00288	.02310	.23326	.00687	.01731	.05891
#3	.02612	.27613	.00275	.02344	.22087	.00453	.01902	.05784

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02814**	**.00179**	**2.2321**	**.00545**	**.06414**	**25.038**	**.00113**	**.19405**
Stddev	.00008	.00013	.0123	.00226	.00128	.110	.00007	.00254
%RSD	.29778	7.0281	.54950	41.390	1.9967	.44109	6.4289	1.3068
#1	.02817	.00192	2.2222	.00723	.06509	24.946	.00117	.19678
#2	.02820	.00166	2.2458	.00291	.06465	25.161	.00105	.19176
#3	.02804	.00178	2.2282	.00621	.06269	25.009	.00118	.19362

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10485**	**.00136**	**.63224**	**.00543**	**.02445**	**.05533**	**.28748**
Stddev	.00033	.00008	.00748	.00008	.00125	.00606	.00294
%RSD	.31891	6.0441	1.1825	1.3832	5.1239	10.946	1.0218
#1	.10515	.00127	.63755	.00551	.02355	.06230	.28409
#2	.10491	.00143	.63549	.00539	.02588	.05241	.28924
#3	.10449	.00139	.62369	.00538	.02391	.05129	.28911

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S1 Acquired: 6/25/2025 12:27:39 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	5108.2	41605.	2292.8	3665.8	5713.9
Stddev	9.3	84.	5.1	15.7	12.7
%RSD	.18156	.20284	.22114	.42808	.22236
#1	5114.0	41662.	2296.6	3664.2	5724.6
#2	5097.5	41646.	2287.1	3682.3	5699.9
#3	5113.1	41508.	2294.8	3651.0	5717.3

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S2 Acquired: 6/25/2025 12:32:02 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	**.02687**	**.10195**	**.24435**	**.05143**	**.07385**	**.20104**	**8.8817**	**.63864**
Stddev	.00011	.00034	.00034	.00016	.00034	.00315	.0359	.00589
%RSD	.41540	.33046	.13737	.30813	.45967	1.5679	.40467	.92151
#1	.02699	.10196	.24398	.05156	.07421	.20403	8.8588	.63466
#2	.02677	.10228	.24463	.05125	.07378	.20135	8.8633	.63586
#3	.02685	.10160	.24443	.05148	.07354	.19775	8.9231	.64540

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7607**	**.55081**	**.03759**	**.30750**	**1.7088**	**.04801**	**.30995**	**.10885**
Stddev	.0009	.00532	.00036	.00065	.0121	.00031	.00147	.00135
%RSD	.05111	.96658	.94895	.21210	.70528	.65405	.47509	1.2434
#1	1.7600	.55171	.03799	.30743	1.7161	.04783	.30992	.10730
#2	1.7603	.54509	.03729	.30819	1.6949	.04783	.30849	.10942
#3	1.7617	.55563	.03749	.30689	1.7155	.04837	.31144	.10982

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.28449**	**.04810**	**4.7600**	**.05253**	**.63250**	**54.633**	**.05256**	**1.4494**
Stddev	.00013	.00036	.0471	.00076	.00347	.421	.00016	.0083
%RSD	.04460	.75643	.98846	1.4475	.54796	.77129	.29895	.57640
#1	.28436	.04830	4.7460	.05335	.62850	54.552	.05244	1.4474
#2	.28461	.04833	4.7216	.05238	.63440	54.259	.05251	1.4422
#3	.28450	.04768	4.8125	.05185	.63461	55.089	.05274	1.4585

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42101**	**.03928**	**1.3098**	**.10692**	**.47725**	**1.0553**	**11.591**
Stddev	.00031	.00039	.0112	.00019	.00303	.0080	.037
%RSD	.07277	.99479	.85739	.17908	.63471	.75396	.32357
#1	.42092	.03918	1.3093	.10686	.47691	1.0463	11.575
#2	.42135	.03895	1.2988	.10714	.47440	1.0613	11.564
#3	.42076	.03971	1.3212	.10678	.48043	1.0583	11.634

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S2 Acquired: 6/25/2025 12:32:02 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	5108.3	41282.	2292.7	3631.2	5563.9
Stddev	19.2	15.	14.9	11.1	13.4
%RSD	.37585	.03546	.64901	.30618	.24026
#1	5110.1	41294.	2296.8	3643.0	5563.6
#2	5088.3	41266.	2305.1	3620.9	5550.8
#3	5126.5	41286.	2276.2	3629.8	5577.5

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S3 Acquired: 6/25/2025 12:36:17 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	.08385	.30534	.73552	.14821	.21077	.56237	25.658	1.8419
Stddev	.00035	.00063	.00116	.00037	.00017	.00379	.018	.0123
%RSD	.41562	.20747	.15731	.24763	.07832	.67401	.07172	.66598
#1	.08354	.30461	.73497	.14785	.21059	.56267	25.658	1.8496
#2	.08378	.30571	.73474	.14821	.21090	.56600	25.640	1.8277
#3	.08423	.30570	.73685	.14859	.21084	.55843	25.677	1.8482

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3731	1.5686	.10761	.92920	4.7594	.13395	.88196	.31365
Stddev	.0184	.0101	.00029	.00334	.0358	.00114	.00136	.00252
%RSD	.34307	.64739	.26929	.35951	.75295	.85207	.15425	.80364
#1	5.3552	1.5740	.10795	.92554	4.7714	.13526	.88322	.31639
#2	5.3720	1.5568	.10745	.92996	4.7192	.13336	.88052	.31143
#3	5.3920	1.5748	.10744	.93209	4.7878	.13322	.88214	.31313

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.85634	.13933	14.357	.15169	1.8413	171.08	.16300	4.2158
Stddev	.00281	.00012	.104	.00118	.0032	2.24	.00034	.0316
%RSD	.32849	.08537	.72293	.78001	.17113	1.3113	.20820	.74893
#1	.85350	.13942	14.385	.15035	1.8448	173.65	.16287	4.2170
#2	.85638	.13937	14.242	.15258	1.8387	169.51	.16275	4.1837
#3	.85913	.13920	14.443	.15213	1.8403	170.08	.16339	4.2468

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2119	.12480	3.7157	.32443	1.3812	2.9480	33.469
Stddev	.0037	.00065	.0299	.00092	.0021	.0093	.013
%RSD	.30302	.52079	.80455	.28408	.14941	.31397	.03831
#1	1.2087	.12414	3.7300	.32359	1.3794	2.9583	33.476
#2	1.2111	.12481	3.6813	.32429	1.3807	2.9404	33.454
#3	1.2159	.12544	3.7357	.32542	1.3834	2.9454	33.476

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S3 Acquired: 6/25/2025 12:36:17 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	**5199.8**	**41714.**	**2344.4**	**3688.6**	**5318.8**
Stddev	8.2	231.	16.7	17.7	3.1
%RSD	.15791	.55269	.71269	.47907	.05757
#1	5196.7	41462.	2330.3	3668.2	5321.4
#2	5209.1	41769.	2362.9	3699.1	5319.5
#3	5193.6	41913.	2339.9	3698.6	5315.4

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S4 Acquired: 6/25/2025 12:40:35 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	.17017	.60213	1.4622	.30112	.42728	1.1322	52.408	3.6868
Stddev	.00018	.00041	.0011	.00040	.00012	.0061	.142	.0167
%RSD	.10329	.06776	.07814	.13434	.02817	.53905	.27019	.45171
#1	.17036	.60256	1.4632	.30140	.42742	1.1386	52.245	3.6783
#2	.17001	.60175	1.4610	.30066	.42721	1.1316	52.476	3.6761
#3	.17012	.60207	1.4626	.30130	.42722	1.1264	52.503	3.7060

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.781	3.1836	.21547	1.8481	9.4686	.27493	1.7872	.63708
Stddev	.011	.0113	.00058	.0011	.0534	.00045	.0074	.00282
%RSD	.10148	.35348	.26917	.05838	.56363	.16356	.41296	.44339
#1	10.792	3.1714	.21541	1.8493	9.4599	.27516	1.7822	.63660
#2	10.770	3.1860	.21609	1.8472	9.4201	.27522	1.7838	.63453
#3	10.780	3.1935	.21493	1.8477	9.5258	.27441	1.7957	.64011

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.7019	.27964	30.154	.31204	3.6849	368.24	.33209	8.6036
Stddev	.0026	.00121	.173	.00087	.0085	.98	.00089	.0488
%RSD	.15085	.43298	.57300	.27832	.23096	.26655	.26808	.56773
#1	1.7048	.28005	30.083	.31155	3.6876	367.42	.33312	8.5836
#2	1.6998	.28058	30.028	.31153	3.6918	367.98	.33156	8.5679
#3	1.7010	.27827	30.351	.31305	3.6754	369.33	.33159	8.6592

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4496	.24654	7.4931	.64647	2.8383	5.8876	68.164
Stddev	.0032	.00062	.0504	.00052	.0079	.0294	.216
%RSD	.12850	.24966	.67280	.08018	.27944	.49929	.31705
#1	2.4532	.24676	7.4710	.64690	2.8293	5.8629	67.916
#2	2.4476	.24585	7.4575	.64589	2.8416	5.8798	68.310
#3	2.4480	.24703	7.5508	.64661	2.8441	5.9201	68.266

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S4 Acquired: 6/25/2025 12:40:35 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	4974.1	40263.	2251.5	3569.1	5114.5
Stddev	10.4	159.	11.5	23.2	11.9
%RSD	.20920	.39454	.50859	.64862	.23288
#1	4968.1	40347.	2262.5	3570.7	5108.8
#2	4968.1	40080.	2252.4	3545.2	5106.6
#3	4986.1	40363.	2239.6	3591.4	5128.2

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S5 Acquired: 6/25/2025 12:44:53 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	.35679	1.2078	3.0056	.60960	.86296	2.2663	104.22	7.2321
Stddev	.00045	.0022	.0020	.00070	.00044	.0117	1.48	.0774
%RSD	.12531	.18549	.06551	.11468	.05114	.51733	1.4194	1.0702
#1	.35638	1.2052	3.0037	.61028	.86250	2.2565	103.81	7.1762
#2	.35671	1.2093	3.0076	.60965	.86302	2.2630	102.99	7.1997
#3	.35727	1.2089	3.0054	.60888	.86337	2.2793	105.86	7.3204

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	22.051	6.3433	.42613	3.7885	18.444	.54821	3.5689	1.2668
Stddev	.021	.0255	.00115	.0062	.183	.00349	.0166	.0114
%RSD	.09713	.40168	.26937	.16453	.99384	.63635	.46602	.89879
#1	22.035	6.3283	.42492	3.7815	18.346	.54492	3.5531	1.2596
#2	22.075	6.3290	.42628	3.7935	18.331	.54783	3.5673	1.2608
#3	22.042	6.3727	.42720	3.7905	18.656	.55187	3.5862	1.2799

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.4867	.55806	61.005	.62443	7.3884	752.46	.69507	17.047
Stddev	.0045	.00180	.426	.00677	.0233	6.46	.00131	.180
%RSD	.12779	.32249	.69893	1.0841	.31487	.85840	.18826	1.0540
#1	3.4861	.55601	60.917	.61756	7.3650	753.04	.69370	16.988
#2	3.4915	.55878	60.629	.62463	7.4115	745.73	.69519	16.905
#3	3.4826	.55939	61.468	.63110	7.3889	758.61	.69631	17.249

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.9411	.51931	14.808	1.3226	5.6943	11.621	135.82
Stddev	.0035	.00040	.159	.0022	.0209	.087	1.30
%RSD	.07166	.07737	1.0712	.16575	.36659	.74827	.95710
#1	4.9416	.51977	14.721	1.3206	5.6713	11.536	134.83
#2	4.9443	.51901	14.712	1.3249	5.6995	11.617	135.34
#3	4.9373	.51915	14.991	1.3223	5.7121	11.709	137.29

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: S5 Acquired: 6/25/2025 12:44:53 Type: Cal
Method: METHOD 6010D, 200.7(v27) Mode: IR Corr. Factor: 1.000000
User: admin 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	4869.6	39760.	2243.2	3497.7	4877.1
Stddev	5.9	48.	17.7	15.0	8.6
%RSD	.12069	.12100	.79073	.42936	.17654
#1	4872.0	39771.	2250.1	3507.3	4882.5
#2	4862.9	39707.	2256.4	3480.4	4867.2
#3	4873.9	39801.	2223.0	3505.3	4881.6

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICV01 Acquired: 6/25/2025 13:08:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.962825**	**3.954424**	**3.992403**	**4.085336**	**4.214041**	**8.068110**	**8.174399**
Stddev	.012886	.013365	.014385	.009671	.007351	.037381	.056657
%RSD	.3251725	.3379860	.3603190	.2367236	.1744339	.4633148	.6930970
#1	3.960567	3.952899	3.988680	4.089202	4.212757	8.108349	8.239435
#2	3.951217	3.941886	3.980245	4.074330	4.207416	8.034465	8.135741
#3	3.976690	3.968486	4.008284	4.092477	4.221949	8.061516	8.148021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2071274**	**2.016901**	**20.12686**	**.8312224**	**2.046691**	**1.056846**	**4.102633**
Stddev	.0026382	.007859	.09105	.0037239	.007131	.015302	.009411
%RSD	1.273698	.3896469	.4523673	.4480068	.3484027	1.447934	.2293994
#1	.2094507	2.015868	20.19406	.8271819	2.044672	1.071669	4.100952
#2	.2042594	2.009610	20.16330	.8345167	2.040788	1.041105	4.112772
#3	.2076721	2.025225	20.02324	.8319687	2.054614	1.057764	4.094176

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.026524**	**20.31734**	**2.044139**	**1.017235**	**20.05179**	**2.044864**	**2.062200**
Stddev	.007382	.06276	.008159	.000846	.20135	.011786	.003330
%RSD	.3642515	.3089093	.3991242	.0831883	1.004143	.5763651	.1614961
#1	2.034391	20.38696	2.046277	1.017141	20.22995	2.056330	2.063671
#2	2.025432	20.29997	2.035124	1.016439	19.83334	2.032782	2.064541
#3	2.019750	20.26510	2.051016	1.018124	20.09208	2.045479	2.058387

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.50303**	**.0185298**	**3.925645**	**3.997328**	**.0441857**	**3.692600**	**3.958003**
Stddev	.16871	.0014355	.055724	.009619	.0016567	.059225	.016830
%RSD	.8650564	7.747002	1.419494	.2406405	3.749285	1.603889	.4252050
#1	19.69372	.0199787	3.980102	3.996666	.0423200	3.744388	3.950017
#2	19.37316	.0185025	3.868734	3.988056	.0447526	3.628026	3.946653
#3	19.44220	.0171081	3.928099	4.007261	.0454844	3.705385	3.977339

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICV01 Acquired: 6/25/2025 13:08:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.942083	.0104361	.0003316
Stddev	.011369	.0074890	.0001370
%RSD	.2884122	71.76032	41.31058
#1	3.954932	.0157620	.0004543
#2	3.933325	.0136733	.0003566
#3	3.937993	.0018731	.0001838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5074.112	40937.97	2314.876	3612.429	5288.606
Stddev	18.534	287.15	20.561	30.633	23.440
%RSD	.3652739	.7014192	.8882003	.8479842	.4432205
#1	5060.644	41080.56	2291.690	3623.137	5277.378
#2	5095.250	40607.44	2330.891	3577.879	5315.548
#3	5066.441	41125.92	2322.047	3636.270	5272.892

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: LLICV01 Acquired: 6/25/2025 13:20:39 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**.0203240**	**.0416941**	**.0131814**	**.0228059**	**.0555280**	**.0990071**	**.1063330**
Stddev	.0049461	.0006605	.0007467	.0029697	.0010750	.0111082	.0011501
%RSD	24.33655	1.584111	5.664581	13.02172	1.936050	11.21956	1.081597
#1	.0191219	.0423723	.0140272	.0206989	.0552018	.0865804	.1072057
#2	.0257604	.0410529	.0126138	.0262024	.0567283	.1079725	.1050297
#3	.0160896	.0416569	.0129031	.0215164	.0546537	.1024685	.1067636

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066228**	**.0059335**	**2.098003**	**.0101032**	**.0310674**	**.0220222**	**.0919711**
Stddev	.0000352	.0000750	.016869	.0008258	.0005599	.0011751	.0210809
%RSD	.5315427	1.264017	.8040662	8.173498	1.802220	5.335841	22.92119
#1	.0066350	.0058521	2.082213	.0098291	.0316665	.0213645	.0883119
#2	.0066502	.0059487	2.096020	.0094493	.0309780	.0213232	.1146421
#3	.0065831	.0059998	2.115776	.0110312	.0305575	.0233789	.0729594

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0239544**	**2.339203**	**.0413590**	**.0106409**	**1.919963**	**.0365334**	**.0420951**
Stddev	.0004597	.082954	.0006522	.0003019	.023139	.0106146	.0000879
%RSD	1.918923	3.546252	1.577013	2.837624	1.205204	29.05452	.2087689
#1	.0234293	2.253062	.0420669	.0107052	1.910504	.0380146	.0421739
#2	.0242840	2.345994	.0412276	.0109055	1.903051	.0463295	.0420003
#3	.0241499	2.418553	.0407824	.0103120	1.946333	.0252560	.0421111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.695636**	**.0196231**	**.1053701**	**.2131824**	**.0216797**	**.4067938**	**.0384456**
Stddev	.012788	.0006206	.0019110	.0003426	.0030939	.0047881	.0002542
%RSD	.7541676	3.162743	1.813637	.1607112	14.27099	1.177030	.6611493
#1	1.682683	.0202693	.1034333	.2130384	.0249771	.4031215	.0386169
#2	1.695975	.0190317	.1054227	.2129352	.0188404	.4050506	.0381535
#3	1.708252	.0195681	.1072543	.2135735	.0212215	.4122092	.0385663

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: LLICV01 Acquired: 6/25/2025 13:20:39 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0393669	.0215176	.0208410
Stddev	.0018992	.0108063	.0003603
%RSD	4.824259	50.22098	1.728991
#1	.0413829	.0222695	.0208309
#2	.0376115	.0319284	.0204858
#3	.0391061	.0103550	.0212062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5196.222	41958.92	2325.810	3698.794	5793.603
Stddev	16.881	80.22	23.342	5.657	18.620
%RSD	.3248699	.1911905	1.003627	.1529299	.3213946
#1	5178.799	41872.37	2340.976	3692.466	5773.324
#2	5212.503	41973.60	2337.524	3703.359	5809.930
#3	5197.364	42030.79	2298.930	3700.558	5797.555

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICB01 Acquired: 6/25/2025 14:53:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**.0012575**	**-.000610**	**.0007956**	**-.000376**	**-.001802**	**-.017457**	**-.000952**
Stddev	.0023684	.000767	.0015549	.003868	.001472	.016926	.000676
%RSD	188.3433	125.8047	195.4356	1030.027	81.69584	96.95941	70.97991
#1	.0026279	.000207	.0000416	-.004268	-.000999	.000737	-.000957
#2	-.001477	-.001315	-.000239	.003468	-.000905	-.032737	-.000274
#3	.002622	-.000722	.002584	-.000327	-.003501	-.020370	-.001626

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000541**	**-.000002**	**-.028326**	**-.000100**	**-.000104**	**-.001221**	**-.010347**
Stddev	.0000546	.000043	.015042	.001134	.000143	.000577	.028537
%RSD	100.9997	1839.452	53.10107	1132.513	138.2987	47.29898	275.8075
#1	.0000542	.000013	-.045648	.000926	.000053	-.001677	-.042747
#2	-.000001	-.000051	-.018561	-.001317	-.000136	-.000572	.011054
#3	.000109	.000031	-.020770	.000091	-.000228	-.001413	.000652

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013989**	**-.011566**	**.0003966**	**-.001063**	**.0377364**	**-.005960**	**-.001389**
Stddev	.0001736	.017449	.0004103	.001135	.0153168	.003575	.000393
%RSD	12.40680	150.8724	103.4524	106.7637	40.58889	59.98437	28.28179
#1	.0014630	-.028531	.0007447	.000247	.0221699	-.002979	-.001044
#2	.0012024	-.012497	-.000056	-.001679	.0382487	-.004977	-.001816
#3	.0015314	.006331	.000501	-.001758	.0527906	-.009924	-.001305

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029573**	**.0018417**	**-.006996**	**-.000190**	**-.003786**	**.0030898**	**-.001837**
Stddev	.0014722	.0010116	.001055	.000440	.005026	.0008293	.000521
%RSD	49.78277	54.92725	15.08052	231.6572	132.7363	26.84129	28.34150
#1	.0045657	.0009869	-.007535	-.000127	-.005755	.0039147	-.002166
#2	.0016763	.0029586	-.005781	-.000658	.001926	.0022562	-.002109
#3	.0026300	.0015796	-.007673	.000215	-.007530	.0030985	-.001237

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICB01 Acquired: 6/25/2025 14:53:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000727	-.004635	-.000288
Stddev	.003884	.003154	.000122
%RSD	534.3072	68.05112	42.52980
#1	.001587	-.007667	-.000415
#2	.001442	-.004867	-.000170
#3	-.005210	-.001371	-.000279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5216.031	42225.55	2322.429	3699.768	5905.745
Stddev	17.883	104.16	14.780	6.635	15.448
%RSD	.3428496	.2466765	.6364103	.1793229	.2615809
#1	5195.501	42285.69	2320.318	3705.312	5888.649
#2	5228.220	42285.69	2308.818	3701.573	5918.703
#3	5224.373	42105.28	2338.151	3692.417	5909.883

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CRI01 Acquired: 6/25/2025 15:24:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164643	.0367597	.0132439	.0203430	.0496322	.1029832	.0993570
Stddev	.0006160	.0025287	.0006800	.0026749	.0028463	.0095089	.0006656
%RSD	3.741672	6.879056	5.134398	13.14880	5.734733	9.233487	.6698979
#1	.0169450	.0355422	.0138884	.0204020	.0524074	.1098772	.0988055
#2	.0157699	.0396669	.0125332	.0229879	.0497693	.0921352	.0991692
#3	.0166781	.0350701	.0133101	.0176391	.0467198	.1069373	.1000963

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064312	.0055938	1.996597	.0089756	.0298826	.0220516	.1065851
Stddev	.0001909	.0000369	.010836	.0008970	.0001870	.0004314	.0133159
%RSD	2.968851	.6597115	.5427030	9.994193	.6258498	1.956243	12.49319
#1	.0064985	.0056193	1.990197	.0080040	.0296979	.0225157	.1170164
#2	.0065794	.0055515	2.009107	.0097724	.0298781	.0216630	.0915866
#3	.0062157	.0056105	1.990486	.0091502	.0300719	.0219760	.1111522

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243025	2.154880	.0386091	.0097125	1.871616	.0428185	.0396749
Stddev	.0011672	.035918	.0003200	.0005155	.007480	.0064938	.0006947
%RSD	4.802636	1.666819	.8288296	5.307170	.3996465	15.16588	1.750898
#1	.0229605	2.196350	.0389300	.0096987	1.879217	.0437716	.0398711
#2	.0248666	2.133626	.0386073	.0092041	1.871369	.0487830	.0402504
#3	.0250805	2.134664	.0382900	.0102348	1.864263	.0359008	.0389032

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.943410	.0190986	.0942140	.1925917	.0204292	.3882390	.0362985
Stddev	.005208	.0015452	.0009142	.0007238	.0020979	.0035570	.0001461
%RSD	.2679842	8.090841	.9703856	.3758492	10.26915	.9161937	.4024816
#1	1.938420	.0173302	.0932678	.1917768	.0226932	.3845703	.0361524
#2	1.948812	.0197774	.0942816	.1928385	.0200437	.3884741	.0364446
#3	1.942999	.0201883	.0950926	.1931600	.0185509	.3916727	.0362984

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CRI01 Acquired: 6/25/2025 15:24:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0342171	.0099566	.0208884
Stddev	.0051681	.0006515	.0001220
%RSD	15.10370	6.542959	.5842461
#1	.0401846	.0106114	.0210017
#2	.0312204	.0099499	.0207592
#3	.0312463	.0093086	.0209043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5190.052	41862.50	2270.426	3675.074	5792.995
Stddev	14.050	162.09	6.705	19.640	19.566
%RSD	.2707178	.3871897	.2952997	.5344138	.3377442
#1	5205.241	41676.22	2278.155	3652.450	5811.057
#2	5187.395	41971.42	2266.958	3685.021	5795.715
#3	5177.519	41939.85	2266.167	3687.751	5772.211

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSA01 Acquired: 6/25/2025 15:29:03 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000862**	**.0031834**	**.0000316**	**.0019279**	**.0237386**	**260.8626**
Stddev	.002384	.0016564	.0029634	.0009143	.0002838	1.5811
%RSD	276.4524	52.03155	9376.861	47.42696	1.195440	.6061191
#1	-.002397	.0032506	-.000310	.0011047	.0235490	259.3019
#2	.001884	.0048051	-.002746	.0017669	.0240649	260.8227
#3	-.002074	.0014944	.003151	.0029120	.0236020	262.4634

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056398**	**.0011308**	**-.002305**	**247.6853**	**.0523614**	**.0226037**
Stddev	.0004644	.0000705	.000161	.8814	.0007575	.0009710
%RSD	8.235157	6.230635	6.980606	.3558378	1.446721	4.295888
#1	.0052420	.0010975	-.002346	246.7158	.0527171	.0218523
#2	.0055273	.0010831	-.002128	248.4382	.0528756	.0237002
#3	.0061502	.0012117	-.002442	247.9019	.0514915	.0222588

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009163**	**104.3441**	**.0075790**	**258.8012**	**.0046450**	**-.007285**
Stddev	.000173	.4249	.0012137	1.3951	.0002654	.001083
%RSD	1.884097	.4071976	16.01359	.5390493	5.714086	14.85993
#1	-.008981	103.8537	.0069112	257.2795	.0047251	-.006083
#2	-.009182	104.5767	.0089799	259.1045	.0043487	-.008183
#3	-.009325	104.6019	.0068459	260.0197	.0048611	-.007589

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2074202**	**.0034824**	**.0128675**	**.0061520**	**.0077755**	F **.0122571**
Stddev	.0141109	.0060120	.0007804	.0009650	.0004455	.0015979
%RSD	6.803044	172.6381	6.064750	15.68523	5.730019	13.03650
#1	.2061765	.0017106	.0124358	.0061322	.0076417	.0109189
#2	.2221118	-.001445	.0123984	.0071268	.0074122	.0140263
#3	.1939723	.010181	.0137684	.0051971	.0082726	.0118260

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSA01 Acquired: 6/25/2025 15:29:03 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044646	.0178590	-.005321	.0069839	-.003332	-.002568
Stddev	.0006088	.0038429	.001032	.0017304	.002161	.006152
%RSD	13.63671	21.51820	19.39593	24.77672	64.85463	239.5893
#1	.0051136	.0168850	-.006317	.0051794	-.005156	-.000343
#2	.0043742	.0145969	-.005392	.0086292	-.003897	.002163
#3	.0039061	.0220953	-.004256	.0071433	-.000945	-.009523

Elem	Sr4077
Units	ppm
Avg	F .1041335
Stddev	.0002657
%RSD	.2551716
#1	.1039998
#2	.1039612
#3	.1044395

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4757.946	37239.82	2229.012	3356.322	4691.883
Stddev	10.348	38.87	8.190	10.269	11.973
%RSD	.2174967	.1043905	.3674268	.3059614	.2551756
#1	4759.653	37282.08	2238.052	3368.179	4686.454
#2	4767.335	37231.80	2222.088	3350.470	4705.608
#3	4746.851	37205.58	2226.894	3350.316	4683.586

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSAB01 Acquired: 6/25/2025 15:51:07 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0924485	.0960573	.0494085	.0480616	.6165195	249.1496	.5008605
Stddev	.0046458	.0012622	.0035599	.0037942	.0045518	.5944	.0010072
%RSD	5.025314	1.313965	7.205021	7.894363	.7383133	.2385518	.2010867
#1	.0874313	.0969879	.0503934	.0522306	.6163016	248.6225	.5000365
#2	.0966016	.0946207	.0454598	.0448109	.6120805	249.7938	.5005618
#3	.0933127	.0965633	.0523722	.0471432	.6211763	249.0326	.5019833

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5228616	.9847231	238.5953	.5551693	.5067142	.4825025	100.5378
Stddev	.0022191	.0023977	.9547	.0022872	.0014708	.0011465	.0561
%RSD	.4244168	.2434913	.4001279	.4119757	.2902586	.2376196	.0558254
#1	.5225220	.9832950	238.9524	.5575399	.5054548	.4833672	100.6004
#2	.5252310	.9833830	239.3199	.5549920	.5063571	.4829382	100.5210
#3	.5208319	.9874913	237.5135	.5529759	.5083306	.4812019	100.4920

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4978503	248.8034	.9681476	.2057874	.2085419	.4883955	1.017660
Stddev	.0010340	.5108	.0008716	.0006119	.0233183	.0091993	.002540
%RSD	.2076963	.2053074	.0900255	.2973199	11.18158	1.883583	.2495733
#1	.4978869	248.7607	.9673309	.2050859	.2330999	.4938597	1.016783
#2	.4988655	249.3342	.9680466	.2062108	.1867015	.4935523	1.020522
#3	.4967984	248.3153	.9690653	.2060656	.2058243	.4777745	1.015675

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047919	.0151969	.9543055	.9681129	.0264094	.8797157	.9822175
Stddev	.0006730	.0020893	.0036373	.0007905	.0079751	.0022286	.0016087
%RSD	14.04416	13.74838	.3811479	.0816510	30.19784	.2533273	.1637856
#1	.0052512	.0156755	.9547525	.9680817	.0237251	.8810823	.9838919
#2	.0051050	.0170054	.9576987	.9673384	.0353804	.8809206	.9806837
#3	.0040194	.0129098	.9504654	.9689185	.0201229	.8771441	.9820768

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSAB01 Acquired: 6/25/2025 15:51:07 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9663671	-.007250	.0997880
Stddev	.0036890	.003779	.0004827
%RSD	.3817373	52.12046	.4837462
#1	.9673652	-.011203	.0992583
#2	.9694544	-.003675	.1002032
#3	.9622818	-.006871	.0999024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4749.022	37067.50	2189.435	3345.329	4699.921
Stddev	7.557	187.91	12.986	18.387	9.488
%RSD	.1591213	.5069526	.5931113	.5496301	.2018788
#1	4747.667	37018.89	2192.984	3346.282	4704.877
#2	4757.164	36908.67	2175.043	3326.485	4705.904
#3	4742.234	37274.95	2200.276	3363.221	4688.981

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSADLX20 Acquired: 6/25/2025 15:55:23 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**-.003646**	**-.000176**	**.0030691**	**-.004147**	**.0004840**	**13.20946**	**-.001323**
Stddev	.002904	.000726	.0004590	.003915	.0005866	.10142	.000677
%RSD	79.64196	412.8597	14.95603	94.40826	121.1846	.7678112	51.18042
#1	-.006029	.000662	.0026122	-.008092	.0009102	13.22458	-.001821
#2	-.004498	-.000609	.0035302	-.000263	.0007269	13.10132	-.000552
#3	-.000412	-.000581	.0030647	-.004086	-.000185	13.30247	-.001596

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001299**	**-.000065**	**12.96935**	**.0019254**	**.0054997**	**-.000908**	**5.522287**
Stddev	.0001014	.000023	.08252	.0001860	.0001795	.000807	.022131
%RSD	78.05389	36.25788	.6362583	9.660520	3.264460	88.85980	.4007577
#1	.0002428	-.000068	12.93355	.0019824	.0057064	-.000042	5.520958
#2	.0000463	-.000086	12.91078	.0020762	.0054095	-.001043	5.500850
#3	.0001007	-.000040	13.06373	.0017175	.0053831	-.001638	5.545052

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045396**	**13.76586**	**-.000267**	**-.000304**	**.0412034**	**-.000674**	**-.000239**
Stddev	.0007756	.10616	.000663	.001368	.0021077	.001369	.000308
%RSD	17.08436	.7711872	248.6561	449.4986	5.115264	203.1886	128.7600
#1	.0040238	13.76624	.000440	.001272	.0432530	.000663	.000114
#2	.0054315	13.65950	-.000875	-.001001	.0413151	-.002073	-.000449
#3	.0041635	13.87182	-.000365	-.001183	.0390421	-.000612	-.000383

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025693**	**.0010024**	**-.004280**	**.0009020**	**.0022833**	**.0085685**	**-.000431**
Stddev	.0016945	.0020870	.001264	.0002401	.0034705	.0011813	.000992
%RSD	65.95302	208.2054	29.53770	26.61821	151.9929	13.78671	230.0937
#1	.0045195	.0015034	-.005237	.0011440	.0055055	.0086591	-.001564
#2	.0017313	.0027933	-.002847	.0008982	-.001391	.0073445	-.000014
#3	.0014570	-.001290	-.004757	.0006639	.002736	.0097019	.000284

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSADLX20 Acquired: 6/25/2025 15:55:23 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003633	-.005784	.0051309
Stddev	.001350	.000963	.0002508
%RSD	37.15560	16.64295	4.888111
#1	-.002075	-.004818	.0050917
#2	-.004377	-.005790	.0049021
#3	-.004448	-.006743	.0053991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5130.615	41184.91	2242.311	3635.143	5569.132
Stddev	8.168	34.27	14.365	7.028	5.290
%RSD	.1591982	.0832108	.6406214	.1933423	.0949905
#1	5122.738	41178.05	2236.139	3640.882	5563.523
#2	5130.062	41154.58	2258.730	3627.304	5574.031
#3	5139.046	41222.09	2232.064	3637.243	5569.842

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSABDLX20 Acquired: 6/25/2025 15:59:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**-.001272**	**.0053282**	**.0037606**	**-.002398**	**.0327764**	**12.75971**	**.0236657**
Stddev	.000451	.0005694	.0007280	.003487	.0030124	.05503	.0011352
%RSD	35.46667	10.68605	19.35888	145.4229	9.190805	.4312408	4.796638
#1	-.001671	.0047069	.0031186	-.003023	.0356127	12.79008	.0247003
#2	-.001362	.0058252	.0045515	.001359	.0331022	12.79285	.0224514
#3	-.000783	.0054524	.0036116	-.005529	.0296144	12.69619	.0238455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0272745**	**.0477884**	**12.46893**	**.0293280**	**.0296130**	**.0258927**	**5.282262**
Stddev	.0001439	.0000821	.10616	.0005942	.0002934	.0004679	.035738
%RSD	.5274630	.1716880	.8513880	2.025924	.9907694	1.807183	.6765637
#1	.0272397	.0477902	12.50016	.0297661	.0292912	.0259202	5.266291
#2	.0274325	.0477054	12.55596	.0286517	.0296821	.0254116	5.323201
#3	.0271511	.0478695	12.35065	.0295662	.0298657	.0263462	5.257295

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0272951**	**13.15778**	**.0481112**	**.0093544**	**.0527713**	**.0286250**	**.0508927**
Stddev	.0008566	.10923	.0004465	.0010598	.0031115	.0063066	.0006159
%RSD	3.138284	.8301343	.9280397	11.32962	5.896211	22.03163	1.210274
#1	.0268481	13.16978	.0483688	.0101700	.0539839	.0250638	.0501865
#2	.0282828	13.26052	.0483691	.0097367	.0492361	.0249047	.0513187
#3	.0267545	13.04306	.0475956	.0081565	.0550940	.0359067	.0511730

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051332**	**.0039120**	**.0020355**	**.0060574**	**-.001270**	**.0077492**	**.0042794**
Stddev	.0001946	.0017406	.0016688	.0002873	.001621	.0016269	.0011852
%RSD	3.790169	44.49412	81.98733	4.743426	127.6013	20.99415	27.69449
#1	.0049141	.0047894	.0028372	.0060273	.000535	.0090702	.0052945
#2	.0051998	.0019073	.0001171	.0063585	-.002599	.0082455	.0029770
#3	.0052857	.0050392	.0031522	.0057862	-.001746	.0059320	.0045667

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: ICSABDLX20 Acquired: 6/25/2025 15:59:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0040230	-.011815	.0049469
Stddev	.0014379	.004845	.0001268
%RSD	35.74309	41.00971	2.562871
#1	.0053524	-.016602	.0049442
#2	.0042198	-.006913	.0048214
#3	.0024968	-.011931	.0050750

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5114.167	40789.18	2228.613	3607.666	5549.819
Stddev	14.694	130.07	22.048	2.445	8.432
%RSD	.2873216	.3188800	.9893277	.0677687	.1519391
#1	5130.835	40772.86	2232.233	3605.033	5559.517
#2	5108.586	40668.04	2204.979	3608.101	5545.728
#3	5103.082	40926.64	2248.627	3609.864	5544.213

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV01 Acquired: 6/25/2025 16:04:46 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.030441**	**5.071379**	**5.057282**	**5.090193**	**5.106576**	**10.08175**	**10.14984**
Stddev	.015131	.004535	.009498	.018006	.008790	.06915	.06068
%RSD	.3007857	.0894198	.1878175	.3537432	.1721377	.6859084	.5978387
#1	5.030054	5.066372	5.047434	5.071736	5.099105	10.07012	10.13529
#2	5.015508	5.072554	5.058025	5.091129	5.104360	10.15598	10.21648
#3	5.045762	5.075211	5.066388	5.107712	5.116262	10.01915	10.09776

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2658781**	**2.529202**	**25.52230**	**1.035315**	**2.533277**	**1.312768**	**5.124582**
Stddev	.0033585	.005069	.13497	.001974	.004647	.015640	.021470
%RSD	1.263163	.2004159	.5288505	.1906710	.1834550	1.191402	.4189520
#1	.2633806	2.524190	25.42331	1.033211	2.528763	1.298744	5.122620
#2	.2696962	2.529090	25.67605	1.037126	2.533021	1.329635	5.146966
#3	.2645576	2.534326	25.46755	1.035610	2.538048	1.309926	5.104162

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.557210**	**25.39251**	**2.520577**	**1.281630**	**25.59675**	**2.560200**	**2.559411**
Stddev	.012179	.20842	.004049	.001655	.24822	.007784	.005326
%RSD	.4762756	.8207938	.1606465	.1291337	.9697144	.3040380	.2081032
#1	2.553456	25.26863	2.518237	1.279792	25.35727	2.558425	2.559875
#2	2.570825	25.63313	2.518241	1.282096	25.85286	2.553457	2.564490
#3	2.547349	25.27575	2.525253	1.283002	25.58013	2.568718	2.553868

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.62855**	**5.080746**	**5.206731**	**5.100459**	**5.066851**	**5.188267**	**5.073118**
Stddev	.36096	.005244	.061021	.006680	.021308	.067511	.006066
%RSD	1.408419	.1032089	1.171970	.1309741	.4205320	1.301233	.1195682
#1	25.44427	5.075111	5.145370	5.095624	5.042564	5.118998	5.069321
#2	26.04445	5.081645	5.267407	5.097671	5.082404	5.253872	5.069919
#3	25.39692	5.085483	5.207416	5.108081	5.075586	5.191931	5.080113

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV01 Acquired: 6/25/2025 16:04:46 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.126793**	**5.043306**	**5.154213**
Stddev	.022916	.024601	.027398
%RSD	.4469784	.4877897	.5315699
#1	5.119496	5.046371	5.147497
#2	5.152469	5.066230	5.184345
#3	5.108415	5.017316	5.130797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4985.144**	**40038.65**	**2210.494**	**3537.537**	**5117.578**
Stddev	9.729	77.25	20.149	10.767	7.819
%RSD	.1951603	.1929439	.9115359	.3043627	.1527902
#1	4974.296	39952.05	2223.139	3531.895	5108.689
#2	4993.096	40063.39	2187.258	3530.763	5123.392
#3	4988.039	40100.49	2221.085	3549.952	5120.654

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB01 Acquired: 6/25/2025 16:09:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**-.001617**	**-.000762**	**.0016372**	**.0003534**	**-.000315**	**-.016657**	**-.000755**
Stddev	.003257	.000684	.0010278	.0028865	.000861	.012066	.000746
%RSD	201.3655	89.71645	62.78004	816.7205	273.3389	72.43849	98.71970
#1	.001937	-.000586	.0004848	.0033600	-.001298	-.012771	-.000399
#2	-.004458	-.000183	.0024592	.0000961	.000048	-.030187	-.001612
#3	-.002331	-.001516	.0019675	-.002396	.000305	-.007012	-.000254

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001073**	**.0001535**	**-.010515**	**.0004490**	**.0000978**	**-.000147**	**-.012704**
Stddev	.0000887	.0000020	.011751	.0004558	.0000920	.000997	.003912
%RSD	82.62896	1.319560	111.7593	101.5184	94.09807	677.9736	30.79307
#1	.0001357	.0001533	-.017414	.0009389	.0001771	.000533	-.016805
#2	.0000079	.0001516	.003054	.0000374	.0001194	.000317	-.009013
#3	.0001783	.0001556	-.017184	.0003708	-.000003	-.001291	-.012294

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011181**	**.0240848**	**.0020102**	**-.000810**	**.0501540**	**-.003810**	**-.001012**
Stddev	.0007264	.0187493	.0003551	.000138	.0118791	.009396	.000631
%RSD	64.96863	77.84683	17.66426	17.00440	23.68529	246.6248	62.37201
#1	.0010242	.0457344	.0018825	-.000651	.0369240	-.013983	-.001594
#2	.0004432	.0133302	.0017367	-.000890	.0536325	.004545	-.000341
#3	.0018869	.0131898	.0024115	-.000889	.0599056	-.001992	-.001100

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054205**	**.0014423**	**.0094978**	**.0004718**	**.0001305**	**.0053472**	**-.001283**
Stddev	.0002587	.0006907	.0008402	.0002071	.0023523	.0013181	.000989
%RSD	4.771640	47.88938	8.846561	43.89443	1802.603	24.64994	77.09765
#1	.0056925	.0012821	.0089828	.0006834	-.000470	.0062609	-.002381
#2	.0051776	.0008458	.0090433	.0004625	.002725	.0059444	-.001002
#3	.0053915	.0021991	.0104674	.0002695	-.001863	.0038362	-.000465

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB01 Acquired: 6/25/2025 16:09:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.002164**	**-.005240**	**-.000133**
Stddev	.003387	.001750	.000210
%RSD	156.5519	33.39786	157.8167
#1	.001532	-.005894	-.000330
#2	-.005121	-.003258	-.000156
#3	-.002901	-.006570	.000088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5166.014**	**41665.14**	**2223.370**	**3640.708**	**5830.405**
Stddev	10.961	83.29	10.252	1.963	11.567
%RSD	.2121735	.1999042	.4610898	.0539123	.1983882
#1	5154.541	41572.64	2222.755	3640.130	5817.227
#2	5176.379	41688.60	2213.439	3642.895	5838.879
#3	5167.123	41734.19	2233.915	3639.099	5835.108

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01 Acquired: 6/25/2025 16:13:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012402**	**-.002130**	**.0064519**	**-.017254**	**.0072310**	**.1273699**
Stddev	.003812	.001146	.0009766	.002208	.0005616	.0275585
%RSD	30.73900	53.79187	15.13646	12.79812	7.767206	21.63655
#1	-.016772	-.001146	.0060563	-.016764	.0070401	.1255304
#2	-.009753	-.001856	.0075643	-.019666	.0078632	.1558020
#3	-.010683	-.003388	.0057352	-.015332	.0067896	.1007772

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1134432**	**.0000374**	**.0000837**	**66.61500**	**.0002505**	**.0144956**
Stddev	.0017151	.0001421	.0000160	.18327	.0011998	.0003927
%RSD	1.511864	380.4938	19.11487	.2751197	478.9779	2.708864
#1	.1115977	-.000124	.0000658	66.40351	.0015928	.0140500
#2	.1149882	.000091	.0000887	66.72716	-.000717	.0146461
#3	.1137436	.000145	.0000966	66.71434	-.000124	.0147908

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034856**	**.5719967**	**.0562107**	**31.13265**	**.0020593**	**-.000468**
Stddev	.0007405	.0146687	.0005589	.16191	.0004065	.001120
%RSD	21.24517	2.564482	.9942754	.5200678	19.73743	239.1804
#1	.0039447	.5572223	.0568186	31.05766	.0022070	.000295
#2	.0038807	.5722103	.0560943	31.31846	.0015997	-.001755
#3	.0026313	.5865575	.0557192	31.02182	.0023713	.000055

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.34787**	**-.005440**	**.0082468**	**3.627351**	**.0492713**	**.2021043**
Stddev	.72434	.009917	.0001762	.041035	.0023129	.0013006
%RSD	.8198715	182.3077	2.136416	1.131257	4.694259	.6435067
#1	88.07638	.005658	.0080756	3.617543	.0466711	.2013968
#2	89.16873	-.013435	.0082372	3.672400	.0510993	.2036053
#3	87.79849	-.008542	.0084276	3.592109	.0500436	.2013109

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01 Acquired: 6/25/2025 16:13:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031976	11.31801	F 16.83059	.0021954	.0014218	-.017888
Stddev	.0001413	.01340	.20072	.0005926	.0008966	.008590
%RSD	4.418464	.1183720	1.192575	26.99269	63.06492	48.02229
#1	.0031967	11.32482	16.76341	.0016970	.0012466	-.014269
#2	.0030568	11.32663	17.05628	.0020386	.0023930	-.027696
#3	.0033393	11.30257	16.67208	.0028506	.0006256	-.011700

Elem	Sr4077
Units	ppm
Avg	.2009733
Stddev	.0007775
%RSD	.3868560
#1	.2002317
#2	.2017823
#3	.2009059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5076.489	40374.01	2243.200	3557.046	5353.901
Stddev	9.057	168.45	15.918	25.662	12.493
%RSD	.1784030	.4172336	.7096269	.7214441	.2333526
#1	5082.917	40358.72	2253.675	3548.350	5360.968
#2	5066.132	40549.59	2224.882	3585.926	5339.476
#3	5080.420	40213.72	2251.042	3536.862	5361.259

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01DUP Acquired: 6/25/2025 16:17:59 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012574**	**-.002939**	**.0067294**	**-.019223**	**.0068620**	**.1257128**
Stddev	.002231	.002090	.0009926	.002380	.0010490	.0050603
%RSD	17.74550	71.08595	14.75035	12.38339	15.28751	4.025295
#1	-.012832	-.000568	.0071850	-.017181	.0079717	.1215312
#2	-.014665	-.003740	.0055908	-.021837	.0058865	.1242692
#3	-.010225	-.004510	.0074124	-.018650	.0067279	.1313381

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1145771**	**.0000012**	**-.000011**	**67.13114**	**.0005663**	**.0143172**
Stddev	.0009142	.0001199	.000050	.24359	.0005051	.0002832
%RSD	.7978694	10012.81	442.2793	.3628560	89.19179	1.978155
#1	.1135415	.0000272	-.000028	67.36141	.0011403	.0141016
#2	.1149178	-.000130	.000045	67.15590	.0003681	.0146380
#3	.1152720	.000106	-.000050	66.87612	.0001903	.0142121

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032992**	**.5789514**	**.0581686**	**31.08991**	**.0015914**	**.0006438**
Stddev	.0003053	.0091180	.0009365	.06017	.0004427	.0013304
%RSD	9.252203	1.574918	1.609928	.1935507	27.81484	206.6617
#1	.0031597	.5748621	.0571105	31.13773	.0020910	-.000424
#2	.0036493	.5893982	.0585046	31.02235	.0014351	.002134
#3	.0030887	.5725940	.0588907	31.10966	.0012481	.000221

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**89.14310**	**-.004647**	**.0085853**	**3.664693**	**.0509921**	**.2027621**
Stddev	.37525	.002133	.0003673	.009615	.0009368	.0026024
%RSD	.4209547	45.91171	4.277638	.2623605	1.837166	1.283490
#1	88.78759	-.007018	.0087220	3.654349	.0502178	.2011514
#2	89.53538	-.004038	.0081693	3.673357	.0520334	.2013704
#3	89.10634	-.002884	.0088646	3.666372	.0507251	.2057644

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01DUP Acquired: 6/25/2025 16:17:59 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029290	11.30681	F 16.93654	.0025942	.0021923	-.022557
Stddev	.0002177	.01182	.02164	.0006593	.0027383	.001918
%RSD	7.430796	.1045249	.1277501	25.41333	124.9042	8.501300
#1	.0030889	11.30074	16.91312	.0021909	.0050232	-.024148
#2	.0026811	11.29927	16.94072	.0033551	-.000443	-.020428
#3	.0030169	11.32043	16.95578	.0022368	.001997	-.023095

Elem	Sr4077
Units	ppm
Avg	.2012725
Stddev	.0005861
%RSD	.2912061
#1	.2011407
#2	.2007636
#3	.2019134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5076.211	40457.37	2230.106	3568.751	5354.779
Stddev	14.119	201.45	10.573	17.878	10.753
%RSD	.2781365	.4979312	.4741084	.5009551	.2008162
#1	5084.048	40577.70	2238.733	3578.117	5362.122
#2	5084.673	40224.80	2218.311	3548.136	5359.779
#3	5059.912	40569.61	2233.275	3580.001	5342.436

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01LX5 Acquired: 6/25/2025 16:22:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008466**	**-.000905**	**.0028645**	**-.007919**	**.0018033**	**.0024993**	**.0217265**
Stddev	.003689	.001371	.0005300	.002605	.0009460	.0395474	.0012353
%RSD	43.57252	151.3887	18.50185	32.89116	52.45767	1582.337	5.685469
#1	-.012720	.000379	.0023272	-.006522	.0019224	.0479240	.0227670
#2	-.006522	-.000747	.0033868	-.010924	.0026842	-.016158	.0203613
#3	-.006156	-.002348	.0028794	-.006310	.0008035	-.024268	.0220511

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000010**	**.0000351**	**13.62326**	**-.000268**	**.0055072**	**-.000055**	**.1167401**
Stddev	.000085	.0000163	.04822	.001005	.0003248	.000858	.0075938
%RSD	843.9612	46.42359	.3539292	374.6656	5.897862	1570.539	6.504878
#1	-.000091	.0000281	13.57522	.000872	.0057686	-.000989	.1249594
#2	.000078	.0000235	13.62289	-.000654	.0051436	.000698	.1099850
#3	-.000017	.0000537	13.67165	-.001023	.0056095	.000128	.1152758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0144257**	**6.497063**	**.0002080**	**-.000054**	**17.95776**	**-.001402**	**.0006749**
Stddev	.0006846	.041312	.0003921	.000119	.20577	.002788	.0006677
%RSD	4.746036	.6358618	188.5586	218.7098	1.145883	198.8337	98.92762
#1	.0149073	6.488234	.0003977	.000074	17.72915	-.004621	-.000075
#2	.0147278	6.460879	-.000243	-.000161	18.01596	.000132	.001205
#3	.0136419	6.542077	.000469	-.000075	18.12816	.000282	.000895

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6094256**	**.0114553**	**.0402510**	**.0004740**	**2.225812**	**3.570971**	**-.000238**
Stddev	.0082410	.0016523	.0006023	.0006123	.006132	.056091	.000457
%RSD	1.352262	14.42441	1.496307	129.1697	.2754829	1.570759	192.0248
#1	.6007735	.0105467	.0398150	.0001090	2.232581	3.508956	-.000125
#2	.6103209	.0104566	.0399997	.0011809	2.224224	3.585799	.000152
#3	.6171825	.0133625	.0409382	.0001321	2.220630	3.618159	-.000742

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01LX5 Acquired: 6/25/2025 16:22:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000028	.0064703	.0409235
Stddev	.001501	.0079083	.0001924
%RSD	5375.147	122.2246	.4702353
#1	.001296	.0101567	.0409108
#2	-.001659	.0118625	.0407378
#3	.000279	-.002608	.0411220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5135.769	41378.01	2245.808	3636.655	5600.889
Stddev	13.135	189.55	30.622	15.881	10.814
%RSD	.2557554	.4580994	1.363505	.4367047	.1930833
#1	5150.933	41254.67	2280.579	3635.487	5613.225
#2	5128.466	41283.09	2233.985	3621.390	5596.405
#3	5127.910	41596.27	2222.861	3653.089	5593.039

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01MS Acquired: 6/25/2025 16:26:48 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7809564**	**1.942972**	**.9778740**	**1.964197**	**.8412036**	**2.220440**
Stddev	.0029578	.003757	.0037469	.007540	.0008535	.013825
%RSD	.3787444	.1933531	.3831679	.3838577	.1014617	.6226239
#1	.7814734	1.939433	.9761104	1.955606	.8405453	2.204879
#2	.7777742	1.942570	.9821773	1.967268	.8408975	2.225135
#3	.7836217	1.946914	.9753343	1.969716	.8421679	2.231305

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3219921**	**.2168928**	**.1996072**	**68.22863**	**.4234959**	**.2156779**
Stddev	.0011602	.0012856	.0003253	.16381	.0002970	.0001779
%RSD	.3603171	.5927362	.1629725	.2400860	.0701277	.0825054
#1	.3228310	.2155298	.1996919	68.40251	.4237886	.2157766
#2	.3224772	.2170648	.1998817	68.20616	.4235042	.2157847
#3	.3206681	.2180837	.1992479	68.07721	.4231948	.2154725

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3233552**	**3.823979**	**.2665717**	**33.50666**	**.5004038**	**.0691506**
Stddev	.0023742	.027800	.0031952	.12855	.0006448	.0011033
%RSD	.7342523	.7269891	1.198616	.3836681	.1288517	1.595547
#1	.3215170	3.854077	.2640906	33.65239	.5001510	.0682458
#2	.3225129	3.818597	.2654474	33.45824	.5011367	.0688263
#3	.3260358	3.799264	.2701771	33.40934	.4999238	.0703797

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**91.54572**	**.3175488**	**.2181821**	**15.03651**	**6.103326**	**.4960473**
Stddev	.42229	.0101835	.0004902	.09335	.006313	.0031571
%RSD	.4612851	3.206897	.2246891	.6208118	.1034425	.6364554
#1	91.11988	.3262795	.2176600	15.12282	6.110601	.4946227
#2	91.55293	.3063619	.2182535	14.93744	6.099287	.4996657
#3	91.96436	.3200051	.2186326	15.04928	6.100089	.4938535

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01MS Acquired: 6/25/2025 16:26:48 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4317713	11.40075	F 17.86115	.7278788	.2115428	.1797533
Stddev	.0012217	.00934	.08674	.0016620	.0017476	.0106941
%RSD	.2829477	.0818936	.4856363	.2283365	.8261380	5.949298
#1	.4304109	11.40146	17.77263	.7274860	.2114862	.1758970
#2	.4321281	11.39107	17.86483	.7264484	.2133180	.1918407
#3	.4327748	11.40971	17.94599	.7297020	.2098241	.1715222

Elem	Sr4077
Units	ppm
Avg	.4093833
Stddev	.0010503
%RSD	.2565588
#1	.4105720
#2	.4089975
#3	.4085806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5054.236	40584.26	2244.619	3581.833	5308.551
Stddev	1.428	126.49	5.863	14.028	5.615
%RSD	.0282538	.3116774	.2611857	.3916410	.1057634
#1	5054.614	40478.83	2242.802	3567.030	5303.220
#2	5055.436	40724.52	2251.175	3594.929	5308.023
#3	5052.657	40549.44	2239.880	3583.539	5314.411

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01MSD Acquired: 6/25/2025 16:31:07 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7650604	1.904243	.9559188	1.919236	.8257474	2.110504
Stddev	.0026584	.003287	.0026976	.006409	.0012546	.052217
%RSD	.3474744	.1726122	.2821980	.3339595	.1519368	2.474133
#1	.7677116	1.903659	.9530570	1.915326	.8271957	2.059393
#2	.7650747	1.901288	.9562844	1.926633	.8250553	2.108359
#3	.7623949	1.907783	.9584149	1.915749	.8249914	2.163760

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3164699	.2138956	.1951583	67.75341	.4176798	.2112540
Stddev	.0012407	.0007478	.0004116	.24506	.0008260	.0002113
%RSD	.3920523	.3495998	.2108932	.3616900	.1977622	.1000164
#1	.3152886	.2147147	.1948579	67.60570	.4185996	.2114918
#2	.3177626	.2137228	.1949896	68.03628	.4174386	.2111828
#3	.3163585	.2132494	.1956274	67.61825	.4170013	.2110876

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3183688	3.752612	.2618703	33.09403	.4884085	.0594941
Stddev	.0012182	.013825	.0002905	.15975	.0007996	.0015496
%RSD	.3826245	.3684227	.1109157	.4827102	.1637066	2.604551
#1	.3195512	3.739750	.2616247	32.99755	.4881877	.0597755
#2	.3184374	3.767233	.2617952	33.27842	.4892952	.0578231
#3	.3171178	3.750852	.2621909	33.00611	.4877425	.0608837

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.89277	.3157070	.2158654	14.81470	5.958785	.4895114
Stddev	.41591	.0076359	.0002122	.06621	.002466	.0030070
%RSD	.4575781	2.418669	.0983198	.4468979	.0413868	.6142942
#1	91.35512	.3182423	.2157690	14.87837	5.956295	.4884216
#2	90.77408	.3071260	.2161087	14.81951	5.958835	.4929114
#3	90.54912	.3217529	.2157184	14.74622	5.961226	.4872012

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01MSD Acquired: 6/25/2025 16:31:07 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4228384	11.28402	F 17.80183	.7146904	.2097918	.1846290
Stddev	.0006337	.00991	.08405	.0016349	.0025533	.0028855
%RSD	.1498627	.0878480	.4721480	.2287575	1.217085	1.562873
#1	.4232748	11.27280	17.88907	.7151292	.2079772	.1842137
#2	.4221116	11.28771	17.79505	.7160611	.2086866	.1876997
#3	.4231288	11.29157	17.72138	.7128809	.2127115	.1819736

Elem	Sr4077
Units	ppm
Avg	.4010432
Stddev	.0008276
%RSD	.2063635
#1	.4004574
#2	.4019900
#3	.4006822

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5047.760	40394.15	2229.483	3558.935	5305.216
Stddev	4.787	28.86	6.007	8.145	2.809
%RSD	.0948370	.0714344	.2694453	.2288486	.0529563
#1	5048.079	40423.80	2226.026	3566.295	5304.923
#2	5042.821	40366.16	2226.004	3550.184	5302.565
#3	5052.379	40392.49	2236.420	3560.325	5308.161

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01A Acquired: 6/25/2025 16:35:25 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7317133**	**1.825317**	**.9175749**	**1.838502**	**.7804699**	**2.096798**
Stddev	.0011847	.007800	.0054751	.002794	.0037347	.031736
%RSD	.1619138	.4273433	.5966940	.1519624	.4785249	1.513533
#1	.7305247	1.834321	.9227133	1.835573	.7797825	2.129103
#2	.7328941	1.821003	.9181955	1.838794	.7845006	2.065664
#3	.7317210	1.820626	.9118160	1.841138	.7771266	2.095628

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3060266**	**.2054933**	**.1874438**	**67.02124**	**.3998625**	**.2026313**
Stddev	.0017183	.0019317	.0002400	.21137	.0012181	.0006630
%RSD	.5614743	.9400045	.1280298	.3153760	.3046357	.3271746
#1	.3045692	.2053232	.1876919	67.20214	.4004216	.2025697
#2	.3055894	.2075043	.1874268	66.78890	.4007007	.2033229
#3	.3079212	.2036523	.1872128	67.07269	.3984652	.2020013

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3064003**	**3.621357**	**.2542426**	**32.72955**	**.4696944**	**.0676088**
Stddev	.0038643	.018928	.0019641	.08235	.0012880	.0007489
%RSD	1.261193	.5226774	.7725132	.2516108	.2742196	1.107670
#1	.3076351	3.641655	.2523489	32.79588	.4706983	.0680392
#2	.3094963	3.604190	.2541088	32.63738	.4701428	.0680432
#3	.3020695	3.618227	.2562701	32.75540	.4682422	.0667441

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**89.91237**	**.2900058**	**.2086275**	**14.33721**	**5.723878**	**.4767401**
Stddev	.56149	.0025798	.0006733	.11000	.008655	.0059569
%RSD	.6244904	.8895866	.3227271	.7672141	.1512094	1.249499
#1	89.98924	.2919985	.2083666	14.40219	5.733778	.4761086
#2	90.43147	.2870917	.2093922	14.39923	5.720111	.4829876
#3	89.31641	.2909270	.2081236	14.21021	5.717745	.4711242

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2385-01A Acquired: 6/25/2025 16:35:25 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3978076	11.19486	F 17.64734	.6719896	.1984615	.1726757
Stddev	.0007577	.02424	.16673	.0029044	.0023188	.0035345
%RSD	.1904554	.2165525	.9447848	.4322162	1.168389	2.046920
#1	.3978995	11.22245	17.64804	.6738511	.1958893	.1767154
#2	.3985150	11.18514	17.81371	.6734748	.1991037	.1701526
#3	.3970082	11.17698	17.48026	.6686429	.2003916	.1711590

Elem	Sr4077
Units	ppm
Avg	.3929592
Stddev	.0008279
%RSD	.2106799
#1	.3938062
#2	.3921518
#3	.3929198

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5049.990	40511.58	2226.175	3564.152	5311.171
Stddev	20.074	91.69	9.647	8.687	17.006
%RSD	.3975037	.2263392	.4333435	.2437440	.3201988
#1	5051.711	40468.60	2225.155	3562.927	5307.712
#2	5029.110	40616.87	2217.078	3573.387	5296.161
#3	5069.147	40449.27	2236.291	3556.142	5329.641

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2354-05DLX5 Acquired: 6/25/2025 16:39:45 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006775**	**-.001149**	**1.416373**	**-.005456**	**.0082684**	**.4862359**	**.0426054**
Stddev	.002943	.001206	.003461	.004066	.0017711	.0177119	.0008750
%RSD	43.43519	104.9223	.2443771	74.52601	21.41978	3.642659	2.053629
#1	-.007522	-.001813	1.416928	-.008918	.0079404	.4754325	.0415951
#2	-.003531	.000243	1.412667	-.000978	.0101805	.5066767	.0431089
#3	-.009273	-.001878	1.419523	-.006472	.0066842	.4765984	.0431123

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000512**	**.0029548**	**19.97838**	**.0020063**	**.0098972**	**.1099224**	**3.753138**
Stddev	.0001177	.0001012	.09940	.0004536	.0001319	.0008397	.024082
%RSD	229.8800	3.426695	.4975565	22.60643	1.332973	.7639358	.6416491
#1	.0001872	.0028841	20.05890	.0019828	.0100082	.1107136	3.727041
#2	-.000017	.0029095	20.00896	.0024712	.0099320	.1100123	3.757869
#3	-.000017	.0030708	19.86727	.0015650	.0097513	.1090414	3.774502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3573921**	**1.676051**	**.0073876**	**.0000229**	**23.22983**	**-.001506**	**.6726661**
Stddev	.0015472	.093299	.0003104	.0003126	.20502	.006621	.0053543
%RSD	.4329243	5.566607	4.201555	1368.083	.8825914	439.6850	.7959842
#1	.3591163	1.655614	.0077448	-.000294	23.30390	.003256	.6685056
#2	.3561247	1.777874	.0072343	.000332	23.38753	.001293	.6707857
#3	.3569352	1.594664	.0071836	.000030	22.99806	-.009067	.6787069

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.1181**	**.2351611**	**.0074351**	**.0033090**	**2.465014**	**2.967350**	**.0020266**
Stddev	.7541	.0009686	.0003884	.0001552	.003229	.033808	.0006287
%RSD	.6550546	.4118707	5.223499	4.691294	.1310109	1.139343	31.02084
#1	115.5254	.2356994	.0071004	.0034876	2.468627	2.972340	.0023887
#2	115.5809	.2340430	.0078609	.0032332	2.464005	2.998386	.0023906
#3	114.2479	.2357410	.0073440	.0032063	2.462409	2.931324	.0013007

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2354-05DLX5 Acquired: 6/25/2025 16:39:45 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0211445	.0279533	.0846697
Stddev	.0019269	.0033190	.0005351
%RSD	9.113157	11.87351	.6320247
#1	.0220207	.0305638	.0849094
#2	.0224777	.0242180	.0850431
#3	.0189352	.0290781	.0840566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5101.733	40543.52	2263.922	3595.235	5305.263
Stddev	6.959	329.86	16.659	36.026	10.281
%RSD	.1363983	.8135922	.7358322	1.002052	.1937863
#1	5103.830	40730.64	2256.600	3616.203	5296.000
#2	5093.967	40737.27	2252.179	3615.866	5303.464
#3	5107.403	40162.65	2282.988	3553.636	5316.324

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2355-02 Acquired: 6/25/2025 16:44:17 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003659**	**-.002733**	**.0059349**	**-.000419**	**.0004528**	**-.005626**	**.1353602**
Stddev	.001475	.001996	.0020833	.000108	.0025856	.029483	.0015493
%RSD	40.30538	73.01088	35.10244	25.85804	571.0073	524.0150	1.144572
#1	-.005235	-.001822	.0066751	-.000500	.0007831	.017718	.1336178
#2	-.002312	-.001356	.0075471	-.000296	-.002282	.004161	.1365827
#3	-.003430	-.005022	.0035826	-.000461	.002857	-.038758	.1358800

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000143**	**.0000543**	**.7050401**	**-.000526**	**.0006398**	**.0023451**	**-.003964**
Stddev	.000075	.0000302	.0165865	.001104	.0003262	.0001636	.014135
%RSD	52.13697	55.62911	2.352557	209.9823	50.98103	6.975613	356.5885
#1	-.000075	.0000194	.7111840	-.000025	.0002648	.0022942	.001768
#2	-.000132	.0000727	.6862583	-.001792	.0007973	.0025280	.006404
#3	-.000223	.0000708	.7176781	.000239	.0008574	.0022129	-.020064

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044508**	**.1308654**	**.0013936**	**-.000775**	**302.5004**	**-.006388**	**.1600217**
Stddev	.0007228	.0037536	.0002170	.001026	1.6393	.003761	.0005984
%RSD	16.24045	2.868270	15.56833	132.4082	.5419059	58.87328	.3739448
#1	.0052498	.1294194	.0012187	-.001959	304.2063	-.004995	.1606865
#2	.0042602	.1351269	.0013257	-.000172	300.9371	-.010646	.1595262
#3	.0038423	.1280499	.0016364	-.000192	302.3577	-.003522	.1598525

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2308946**	**.0164419**	**.0400515**	**.0003079**	**.3157042**	**.0397480**	**.0010784**
Stddev	.0021108	.0007476	.0005079	.0004602	.0017693	.0010117	.0003627
%RSD	.9141967	4.546726	1.268218	149.4787	.5604298	2.545185	33.63709
#1	.2305700	.0168560	.0394699	-.000203	.3138797	.0387961	.0006830
#2	.2289650	.0168909	.0404075	.000437	.3158204	.0408103	.0013957
#3	.2331490	.0155789	.0402773	.000690	.3174126	.0396377	.0011564

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2355-02 Acquired: 6/25/2025 16:44:17 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001963	-.022161	.0029076
Stddev	.002700	.011116	.0000956
%RSD	137.5324	50.15951	3.288387
#1	-.000686	-.032807	.0029882
#2	-.000138	-.023047	.0028020
#3	-.005064	-.010629	.0029326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5043.656	39825.15	2267.625	3561.737	5191.229
Stddev	5.269	181.03	8.900	21.441	6.993
%RSD	.1044677	.4545745	.3925024	.6019721	.1347038
#1	5048.273	39661.20	2263.215	3551.891	5191.343
#2	5037.916	39794.82	2277.870	3546.988	5184.180
#3	5044.778	40019.43	2261.791	3586.333	5198.164

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2362-04 Acquired: 6/25/2025 16:48:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005252**	**.0013409**	**.0018136**	**-.000299**	**-.000902**	**.1348629**	**.4255724**
Stddev	.000932	.0021425	.0011955	.002555	.001714	.0208933	.0018065
%RSD	17.74661	159.7825	65.91925	853.9014	189.9558	15.49228	.4244945
#1	-.004457	-.000028	.0017584	.002388	-.001765	.1469711	.4235433
#2	-.006278	.000241	.0030357	-.002698	.001071	.1107374	.4261676
#3	-.005023	.003810	.0006466	-.000588	-.002013	.1468801	.4270062

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001420**	**.0002221**	**8.024574**	**.0007563**	**.0081430**	**.2218321**	**2.392725**
Stddev	.0001159	.0000360	.027137	.0010386	.0004496	.0035762	.020799
%RSD	81.60649	16.19865	.3381779	137.3285	5.521455	1.612102	.8692480
#1	.0002110	.0002359	7.999695	-.000428	.0083136	.2178259	2.399631
#2	.0000082	.0002491	8.020514	.001513	.0084824	.2229682	2.369351
#3	.0002067	.0001812	8.053512	.001183	.0076331	.2247022	2.409192

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.818210**	**.6854398**	**.0027118**	**.0005273**	**339.4627**	**-.019735**	**.0889411**
Stddev	.006820	.0367839	.0006528	.0011886	3.2532	.011000	.0002545
%RSD	.1786061	5.366462	24.07292	225.4313	.9583430	55.73697	.2861594
#1	3.818503	.6526159	.0023912	-.000824	336.0585	-.009665	.0891695
#2	3.811248	.6785067	.0022813	.000995	339.7894	-.031473	.0886667
#3	3.824878	.7251969	.0034629	.001411	342.5403	-.018066	.0889871

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.617694**	**.0196465**	**.0224537**	**.0012526**	**.5162210**	**.8236272**	**.0025606**
Stddev	.066297	.0013706	.0003255	.0003776	.0008613	.0131001	.0012466
%RSD	1.435724	6.976572	1.449577	30.14801	.1668419	1.590533	48.68512
#1	4.541255	.0198974	.0228295	.0015833	.5161165	.8087051	.0012828
#2	4.652272	.0181677	.0222604	.0013333	.5171297	.8289416	.0037735
#3	4.659553	.0208743	.0222712	.0008411	.5154167	.8332350	.0026254

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2362-04 Acquired: 6/25/2025 16:48:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009958	-.020796	.0550590
Stddev	.0043360	.005929	.0002615
%RSD	435.4163	28.51137	.4750188
#1	-.003195	-.021238	.0553534
#2	.000718	-.014659	.0548537
#3	.005464	-.026492	.0549698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5091.993	40071.72	2271.181	3593.789	5184.211
Stddev	5.079	276.31	22.517	30.938	10.858
%RSD	.0997463	.6895286	.9914276	.8608698	.2094412
#1	5090.521	39838.56	2297.000	3571.198	5191.117
#2	5087.813	39999.69	2255.616	3581.117	5171.696
#3	5097.646	40376.91	2260.926	3629.051	5189.820

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2364-04DLX5 Acquired: 6/25/2025 16:53:26 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068389**	**.0012701**	**.5550031**	**.0133673**	**.0052893**	**25.92773**
Stddev	.0011120	.0004903	.0044305	.0020153	.0029774	.05698
%RSD	16.26016	38.60372	.7982847	15.07640	56.29111	.2197612
#1	.0064786	.0007767	.5593136	.0126367	.0075853	25.89186
#2	.0080865	.0012762	.5552342	.0118191	.0019252	25.99343
#3	.0059518	.0017573	.5504616	.0156459	.0063574	25.89789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3164701**	**.0021717**	**.0163879**	**9.258885**	**.3793265**	**.0411230**
Stddev	.0022690	.0000492	.0002349	.063702	.0026435	.0005553
%RSD	.7169587	2.267314	1.433278	.6880095	.6968860	1.350333
#1	.3186267	.0021309	.0166414	9.186029	.3804774	.0417314
#2	.3166804	.0022264	.0163449	9.304085	.3811994	.0409940
#3	.3141034	.0021577	.0161775	9.286541	.3763027	.0406436

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4114728**	**36.64689**	**.4310601**	**4.068398**	**.1942167**	**.0063486**
Stddev	.0012862	.05075	.0030570	.032505	.0022795	.0001672
%RSD	.3125831	.1384726	.7091803	.7989540	1.173680	2.633999
#1	.4128994	36.62174	.4334287	4.050633	.1967638	.0061555
#2	.4111171	36.70529	.4321424	4.105913	.1935179	.0064450
#3	.4104019	36.61362	.4276092	4.048647	.1923684	.0064453

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4923548**	**.0577169**	F **24.36706**	**1.391575**	**2.242019**	**.0047218**
Stddev	.0267576	.0043586	.06459	.008070	.021838	.0005583
%RSD	5.434625	7.551748	.2650710	.5799162	.9740441	11.82414
#1	.4910648	.0579017	24.42976	1.400514	2.264899	.0048629
#2	.4662655	.0532688	24.30073	1.389386	2.239760	.0041065
#3	.5197342	.0619802	24.37070	1.384826	2.221398	.0051961

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2364-04DLX5 Acquired: 6/25/2025 16:53:26 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037091	15.22552	2.085955	.0276841	.2243183	.0884936
Stddev	.0003772	.12192	.007080	.0002737	.0014306	.0109320
%RSD	10.16964	.8007449	.3394082	.9886586	.6377609	12.35342
#1	.0038645	15.33166	2.089964	.0274503	.2236861	.0997493
#2	.0032790	15.25254	2.090120	.0279852	.2259561	.0878144
#3	.0039837	15.09236	2.077780	.0276167	.2233127	.0779170

Elem	Sr4077
Units	ppm
Avg	.0814716
Stddev	.0001594
%RSD	.1956612
#1	.0813337
#2	.0814349
#3	.0816461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5399.784	43155.03	2352.476	3823.052	5698.311
Stddev	12.094	143.28	1.063	18.119	12.158
%RSD	.2239685	.3320066	.0451789	.4739531	.2133646
#1	5386.242	43055.39	2351.360	3814.083	5686.334
#2	5403.600	43319.23	2352.592	3843.907	5697.955
#3	5409.509	43090.46	2353.476	3811.166	5710.643

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV02 Acquired: 6/25/2025 16:57:42 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.025881**	**5.048312**	**5.046533**	**5.089688**	**5.103786**	**10.16313**	**10.15688**
Stddev	.007988	.003075	.005983	.007527	.003685	.03540	.05992
%RSD	.1589459	.0609129	.1185545	.1478795	.0721940	.3483316	.5899842
#1	5.025072	5.050331	5.052454	5.083412	5.100064	10.19219	10.09889
#2	5.018328	5.049833	5.040490	5.098033	5.107432	10.12370	10.15317
#3	5.034243	5.044773	5.046656	5.087618	5.103862	10.17349	10.21857

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2669428**	**2.528835**	**25.61832**	**1.038405**	**2.530522**	**1.319991**	**5.120656**
Stddev	.0003316	.000542	.00710	.002067	.001218	.002386	.000632
%RSD	.1242329	.0214219	.0276973	.1990157	.0481325	.1807845	.0123349
#1	.2672175	2.528211	25.61016	1.038871	2.531108	1.321687	5.121238
#2	.2665744	2.529099	25.62302	1.040199	2.529122	1.317262	5.120745
#3	.2670364	2.529193	25.62179	1.036145	2.531336	1.321024	5.119984

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.566330**	**25.54287**	**2.511704**	**1.286427**	**25.65072**	**2.561033**	**2.558511**
Stddev	.009674	.10507	.002785	.001803	.09184	.013964	.004376
%RSD	.3769636	.4113408	.1108663	.1401874	.3580315	.5452310	.1710371
#1	2.560959	25.43660	2.511929	1.284545	25.75674	2.545887	2.563544
#2	2.560532	25.54532	2.508814	1.288139	25.59568	2.563815	2.556382
#3	2.577498	25.64669	2.514370	1.286598	25.59975	2.573396	2.555607

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.62059**	**5.086536**	**5.229096**	**5.097348**	**5.073459**	**5.229122**	**5.071007**
Stddev	.07962	.002520	.011897	.004042	.005725	.013543	.006361
%RSD	.3107463	.0495522	.2275108	.0792948	.1128432	.2589847	.1254290
#1	25.69312	5.083645	5.234864	5.093354	5.069661	5.243495	5.075074
#2	25.63323	5.088270	5.215414	5.101436	5.070672	5.216600	5.063677
#3	25.53540	5.087695	5.237008	5.097254	5.080044	5.227270	5.074270

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV02 Acquired: 6/25/2025 16:57:42 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.149685**	**5.079061**	**5.167105**
Stddev	.019342	.022327	.021662
%RSD	.3755888	.4395877	.4192360
#1	5.129027	5.057392	5.145476
#2	5.152661	5.077797	5.167039
#3	5.167365	5.101993	5.188800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5006.173**	**40218.04**	**2209.854**	**3557.382**	**5141.422**
Stddev	17.334	194.65	9.691	17.271	15.745
%RSD	.3462539	.4839888	.4385563	.4855085	.3062452
#1	5000.791	40041.44	2198.744	3538.951	5134.022
#2	4992.169	40185.94	2214.246	3560.000	5130.739
#3	5025.560	40426.75	2216.572	3573.195	5159.504

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB02 Acquired: 6/25/2025 17:09:06 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**-.000524**	**-.001203**	**.0015629**	**.0000026**	**-.001261**	**-.021651**	**-.001279**
Stddev	.001542	.001134	.0017195	.0027297	.000891	.008718	.000793
%RSD	294.5399	94.30325	110.0228	104904.5	70.63413	40.26676	61.99701
#1	-.001845	-.002226	.0002891	.0027003	-.002268	-.019699	-.000824
#2	-.000896	.000017	.0035188	.0000655	-.000938	-.031179	-.002194
#3	.001171	-.001399	.0008807	-.002758	-.000577	-.014074	-.000818

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000186**	**-.000037**	**-.029709**	**-.000201**	**-.000046**	**-.000181**	**-.002810**
Stddev	.0002669	.000040	.015875	.000261	.000035	.000514	.014472
%RSD	1435.103	105.4602	53.43659	129.4634	75.95804	283.3475	514.9366
#1	.0002938	-.000025	-.045789	.000098	-.000034	.000369	-.019503
#2	.0000011	-.000082	-.014047	-.000377	-.000019	-.000649	.004857
#3	-.000239	-.000006	-.029289	-.000325	-.000085	-.000264	.006214

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029693**	**.0364257**	**-.000091**	**.0000220**	**.0610504**	**-.008763**	**-.000934**
Stddev	.0006161	.0283205	.000182	.0003038	.0083258	.004327	.000562
%RSD	20.74831	77.74862	200.1331	1383.076	13.63751	49.37737	60.10262
#1	.0022579	.0228957	-.000301	.0000003	.0634540	-.008712	-.000305
#2	.0033290	.0689735	.000004	-.000270	.0679100	-.013115	-.001385
#3	.0033210	.0174079	.000024	.000336	.0517873	-.004461	-.001112

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043338**	**.0014209**	**-.000531**	**-.000220**	**-.003008**	**.0028171**	**-.001577**
Stddev	.0004515	.0009744	.000424	.000185	.001734	.0012085	.001358
%RSD	10.41836	68.57568	79.95055	83.95542	57.63352	42.89775	86.11444
#1	.0047621	.0023569	-.000553	-.000392	-.001451	.0014248	-.002384
#2	.0043771	.0004122	-.000096	-.000025	-.002697	.0035948	-.000009
#3	.0038622	.0014936	-.000943	-.000242	-.004876	.0034315	-.002340

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB02 Acquired: 6/25/2025 17:09:06 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002715	-.004171	-.000146
Stddev	.004481	.001468	.000132
%RSD	165.0399	35.19815	90.45055
#1	.002179	-.005857	-.000044
#2	-.006617	-.003176	-.000099
#3	-.003709	-.003480	-.000294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5202.429	41821.19	2226.942	3669.794	5863.199
Stddev	26.715	269.42	7.444	18.937	26.672
%RSD	.5135129	.6442102	.3342484	.5160339	.4549043
#1	5199.588	42089.67	2219.209	3682.630	5861.766
#2	5177.248	41550.85	2227.561	3648.045	5837.273
#3	5230.452	41823.06	2234.058	3678.708	5890.559

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2364-04DL2X10 Acquired: 6/25/2025 17:15:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015350	.0004015	.2654410	.0050421	.0020221	12.45118	.1513357
Stddev	.0020126	.0015094	.0011196	.0024167	.0022760	.03266	.0006764
%RSD	131.1216	375.9624	.4218011	47.93037	112.5556	.2623261	.4469553
#1	.0029313	.0021118	.2641766	.0070290	.0022138	12.44101	.1520562
#2	.0024456	-.000744	.2658396	.0057457	.0041962	12.48771	.1507143
#3	-.000772	-.000163	.2663068	.0023517	-.000344	12.42480	.1512367

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011151	.0078428	4.462244	.1821170	.0198749	.1990552	17.56608
Stddev	.0000572	.0000965	.020075	.0011016	.0001784	.0010934	.06085
%RSD	5.127769	1.230989	.4498831	.6049071	.8976016	.5492759	.3464284
#1	.0011806	.0077379	4.474181	.1810444	.0197863	.1987246	17.62969
#2	.0010747	.0079280	4.473484	.1832455	.0200802	.2002757	17.56013
#3	.0010901	.0078623	4.439067	.1820611	.0197581	.1981653	17.50842

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2105153	1.949718	.0925810	.0029500	.2165119	.0261513	12.33573
Stddev	.0011433	.065431	.0003133	.0009653	.0076139	.0117240	.00512
%RSD	.5430763	3.355921	.3383996	32.72217	3.516604	44.83147	.0415070
#1	.2117086	1.921332	.0922257	.0026373	.2082193	.0396515	12.34162
#2	.2094296	2.024548	.0926999	.0040329	.2181292	.0202733	12.33236
#3	.2104077	1.903274	.0928175	.0021798	.2231871	.0185291	12.33321

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6299201	1.065103	.0015688	.0023672	7.176811	1.017605	.0121785
Stddev	.0024691	.003178	.0005316	.0001660	.012146	.005772	.0003336
%RSD	.3919641	.2984088	33.88773	7.011265	.1692381	.5672004	2.739354
#1	.6291708	1.063075	.0010076	.0022591	7.166911	1.022781	.0117967
#2	.6326770	1.068766	.0020648	.0022842	7.190365	1.018653	.0123249
#3	.6279126	1.063468	.0016340	.0025583	7.173159	1.011381	.0124139

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2364-04DL2X10 Acquired: 6/25/2025 17:15:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1094289	.0115941	.0388780
Stddev	.0037469	.0058536	.0001150
%RSD	3.424027	50.48793	.2958391
#1	.1106521	.0183498	.0387457
#2	.1052233	.0080259	.0389345
#3	.1124113	.0084068	.0389538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5313.661	42316.07	2275.333	3745.850	5752.132
Stddev	8.911	214.61	10.907	13.817	7.184
%RSD	.1676979	.5071662	.4793453	.3688608	.1248984
#1	5322.196	42530.08	2279.515	3756.567	5759.455
#2	5304.417	42100.86	2262.955	3730.256	5745.095
#3	5314.371	42317.25	2283.530	3750.728	5751.846

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2380-03DLX5 Acquired: 6/25/2025 17:24:32 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0107031**	**-.002767**	**.3967451**	**.0162016**	**.0099198**	**40.01810**	**.4677397**
Stddev	.0022753	.000793	.0012257	.0025375	.0013611	.13409	.0004750
%RSD	21.25862	28.65768	.3089276	15.66195	13.72101	.3350609	.1015619
#1	.0086443	-.003378	.3956361	.0139515	.0088647	39.86349	.4672299
#2	.0131460	-.003051	.3965381	.0189519	.0094386	40.08828	.4678194
#3	.0103189	-.001871	.3980611	.0157013	.0114561	40.10253	.4681699

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037474**	**-.000647**	**40.05387**	**.0850563**	**.0493198**	**.1704152**	**94.99177**
Stddev	.0001391	.000019	.07330	.0007673	.0002282	.0007642	.18105
%RSD	3.710766	2.967055	.1830150	.9020703	.4626401	.4484354	.1905961
#1	.0036483	-.000625	40.12299	.0858416	.0495245	.1695552	94.79197
#2	.0036874	-.000657	39.97700	.0850187	.0493610	.1710163	95.03839
#3	.0039064	-.000658	40.06162	.0843085	.0490738	.1706740	95.14495

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.690328**	**21.41219**	**.0906962**	**-.004633**	**1.864665**	**.0876470**	**.5853266**
Stddev	.006389	.05909	.0004175	.000485	.005555	.0068646	.0027288
%RSD	.3779461	.2759838	.4603445	10.47685	.2979057	7.832077	.4661996
#1	1.682951	21.43921	.0911064	-.004848	1.867426	.0955415	.5884651
#2	1.694055	21.45294	.0907103	-.004077	1.868297	.0843162	.5835159
#3	1.693976	21.34442	.0902717	-.004974	1.858270	.0830834	.5839986

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.356912**	**1.595872**	**.0295659**	**.0051807**	**1.197699**	**4.196588**	**.1036389**
Stddev	.018018	.000187	.0010293	.0004886	.000484	.002076	.0008992
%RSD	.3363585	.0117430	3.481221	9.431951	.0403964	.0494703	.8676382
#1	5.366682	1.595693	.0306990	.0049943	1.198047	4.195418	.1029563
#2	5.367934	1.596067	.0286888	.0057351	1.197147	4.195360	.1046577
#3	5.336118	1.595855	.0293100	.0048127	1.197904	4.198985	.1033026

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2380-03DLX5 Acquired: 6/25/2025 17:24:32 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8798757	.0823355	.1934544
Stddev	.0019817	.0044900	.0003522
%RSD	.2252229	5.453274	.1820583
#1	.8805133	.0772371	.1935436
#2	.8776537	.0840698	.1937535
#3	.8814601	.0856997	.1930662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5307.972	42205.76	2317.452	3744.534	5359.525
Stddev	27.064	57.07	4.081	12.614	27.164
%RSD	.5098743	.1352079	.1761057	.3368627	.5068381
#1	5318.241	42143.27	2321.895	3730.064	5374.677
#2	5328.399	42218.91	2316.591	3753.205	5375.734
#3	5277.276	42255.11	2313.870	3750.335	5328.165

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2380-05DLX5 Acquired: 6/25/2025 17:28:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0373095	-.003050	.2182843	.0111987	.0032110	18.01565	.1431307
Stddev	.0009910	.001356	.0043147	.0021006	.0019166	.05232	.0012491
%RSD	2.656059	44.45888	1.976628	18.75710	59.68887	.2904130	.8726904
#1	.0361652	-.004182	.2232336	.0105930	.0019327	18.07149	.1443678
#2	.0378874	-.003421	.2163043	.0135356	.0022856	18.00769	.1418699
#3	.0378758	-.001547	.2153150	.0094676	.0054147	17.96777	.1431545

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013633	-.000289	8.228135	.0341693	.0210181	.5033359	41.00979
Stddev	.0000938	.000041	.037104	.0006107	.0004972	.0077932	.02698
%RSD	6.876836	14.11727	.4509441	1.787152	2.365762	1.548321	.0657968
#1	.0014209	-.000269	8.220974	.0335977	.0215846	.5072123	40.98951
#2	.0012551	-.000262	8.268298	.0348127	.0208155	.5084308	41.04042
#3	.0014139	-.000336	8.195133	.0340975	.0206541	.4943646	40.99944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9139643	9.176934	.0365691	-.001937	.9783951	.0635066	.3307318
Stddev	.0025880	.083538	.0010444	.001628	.0211185	.0077196	.0011311
%RSD	.2831618	.9103048	2.856002	84.07087	2.158488	12.15553	.3419906
#1	.9148247	9.248784	.0376571	-.002732	.9933836	.0546163	.3312222
#2	.9110557	9.085270	.0364756	-.003015	.9875594	.0673929	.3315350
#3	.9160125	9.196748	.0355745	-.000064	.9542425	.0685108	.3294383

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.846424	.7826923	.0101131	.0013716	.3540551	2.297711	.0128766
Stddev	.027346	.0133292	.0016981	.0004605	.0064978	.045601	.0013519
%RSD	1.481003	1.702992	16.79077	33.57458	1.835259	1.984612	10.49879
#1	1.860880	.7967986	.0086934	.0018812	.3592187	2.320166	.0138051
#2	1.863508	.7809707	.0096517	.0009852	.3561875	2.327730	.0134991
#3	1.814885	.7703076	.0119941	.0012484	.3467590	2.245237	.0113256

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2380-05DLX5 Acquired: 6/25/2025 17:28:50 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7660754	.0248744	.0496339
Stddev	.0080778	.0045215	.0001501
%RSD	1.054441	18.17718	.3025174
#1	.7737597	.0197135	.0495026
#2	.7668119	.0281388	.0496014
#3	.7576545	.0267708	.0497976

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5270.808	41956.87	2276.280	3713.999	5592.979
Stddev	3.530	126.50	20.566	4.985	6.005
%RSD	.0669667	.3015041	.9034898	.1342113	.1073679
#1	5274.447	42031.28	2270.133	3717.454	5589.009
#2	5267.399	42028.51	2259.488	3716.258	5590.041
#3	5270.579	41810.80	2299.218	3708.285	5599.887

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01 Acquired: 6/25/2025 17:33:11 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1029942**	**-.044656**	**.7732142**	**.1380190**	**.0381708**	**208.0025**	**1.049287**
Stddev	.0020102	.001770	.0024817	.0008753	.0025175	.4717	.002736
%RSD	1.951751	3.964218	.3209587	.6342155	6.595296	.2267739	.2607936
#1	.1007758	-.043262	.7704741	.1389774	.0366462	208.2776	1.049771
#2	.1046949	-.044057	.7753106	.1372617	.0367898	208.2720	1.051750
#3	.1035119	-.046648	.7738579	.1378179	.0410766	207.4578	1.046342

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0141888**	**-.004768**	**59.65948**	**.2924086**	**.3077037**	**.5789691**	**423.8994**
Stddev	.0001352	.000074	.24500	.0001981	.0004959	.0010587	.8717
%RSD	.9526312	1.556905	.4106668	.0677373	.1611704	.1828671	.2056294
#1	.0142722	-.004825	59.81380	.2926279	.3071915	.5794069	424.1491
#2	.0142613	-.004795	59.78766	.2923551	.3077379	.5797387	424.6190
#3	.0140328	-.004684	59.37698	.2922428	.3081816	.5777617	422.9302

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.800332**	**58.83682**	**.3501254**	**-.026663**	**2.561905**	**1.069675**	**1.158435**
Stddev	.027084	.13098	.0005763	.000580	.018410	.006837	.001958
%RSD	.2763589	.2226230	.1646045	2.174615	.7185977	.6391709	.1690543
#1	9.803268	58.91240	.3494709	-.026120	2.582943	1.075831	1.159409
#2	9.825830	58.91248	.3503489	-.027274	2.548742	1.070876	1.159716
#3	9.771901	58.68557	.3505566	-.026595	2.554031	1.062316	1.156181

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.61622**	**12.18064**	**.1812499**	**.0090382**	**6.771959**	**12.28324**	**.0210690**
Stddev	.13673	.01923	.0013815	.0008466	.008244	.03172	.0013212
%RSD	1.177044	.1578683	.7621803	9.366674	.1217395	.2582097	6.270580
#1	11.77121	12.15852	.1797545	.0092515	6.764072	12.30879	.0214217
#2	11.56479	12.18999	.1815168	.0097577	6.771284	12.29319	.0221780
#3	11.51267	12.19341	.1824784	.0081054	6.780519	12.24774	.0196073

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01 Acquired: 6/25/2025 17:33:11 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.222911	.1454867	.2178621
Stddev	.019690	.0034193	.0006339
%RSD	.2726000	2.350275	.2909613
#1	7.231768	.1456104	.2177571
#2	7.236616	.1420073	.2185420
#3	7.200348	.1488426	.2172873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6656.829	52615.07	3003.260	4719.451	5094.960
Stddev	22.663	27.33	6.524	5.763	18.168
%RSD	.3404519	.0519443	.2172372	.1221057	.3565865
#1	6681.339	52593.02	2998.691	4722.918	5114.799
#2	6652.515	52645.65	3000.357	4712.799	5090.947
#3	6636.632	52606.55	3010.732	4722.637	5079.135

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUP Acquired: 6/25/2025 17:37:31 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1049439**	**-.043364**	**.7760182**	**.1361102**	**.0439058**	**205.6460**	**1.038880**
Stddev	.0015605	.000729	.0069524	.0022415	.0025321	.1387	.000469
%RSD	1.487004	1.679984	.8959007	1.646845	5.767006	.0674663	.0451898
#1	.1046929	-.043149	.7735088	.1335732	.0467039	205.4859	1.039391
#2	.1066147	-.042768	.7706689	.1369345	.0432410	205.7230	1.038781
#3	.1035241	-.044176	.7838769	.1378228	.0417724	205.7293	1.038467

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0131817**	**-.004527**	**58.63893**	**.2925280**	**.3062967**	**.5393003**	**418.5089**
Stddev	.0014616	.000266	.09909	.0050078	.0028053	.0563046	.7106
%RSD	11.08776	5.868295	.1689896	1.711905	.9158681	10.44031	.1698036
#1	.0140245	-.004589	58.53404	.2891638	.3047715	.5695168	417.7271
#2	.0114941	-.004756	58.73097	.2982832	.3045844	.4743379	418.6840
#3	.0140266	-.004235	58.65179	.2901371	.3095341	.5740461	419.1157

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.690575**	**58.23170**	**.3497224**	**-.028675**	**^ *****	**1.057284**	**1.162172**
Stddev	.012274	.14174	.0028861	.003020	-----	.011331	.022389
%RSD	.1266545	.2434140	.8252547	10.53313	-----	1.071720	1.926514
#1	9.676433	58.07827	.3477675	-.026840	2.543797	1.068043	1.147155
#2	9.698439	58.35777	.3483625	-.032161	^ -----	1.058353	1.187905
#3	9.696855	58.25905	.3530372	-.027024	2.523361	1.045457	1.151454

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.43466**	**12.50285**	**.2010794**	**.0094556**	**6.993917**	**11.48461**	**.0222138**
Stddev	.09401	.15626	.0284388	.0001219	.081383	1.13895	.0012193
%RSD	.8221394	1.249795	14.14308	1.289225	1.163628	9.917214	5.488816
#1	11.48322	12.48681	.1822583	.0095954	6.972502	12.15338	.0208103
#2	11.49445	12.35522	.2337943	.0093711	6.925383	10.16953	.0228190
#3	11.32630	12.66651	.1871857	.0094004	7.083867	12.13094	.0230120

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUP Acquired: 6/25/2025 17:37:31 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.133074**	**.1455320**	**.2144680**
Stddev	.008823	.0030275	.0008586
%RSD	.1236965	2.080306	.4003227
#1	7.125497	.1460712	.2141237
#2	7.142761	.1482537	.2138350
#3	7.130965	.1422711	.2154453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6302.748**	**49584.69**	**3044.649**	**4472.333**	**4822.101**
Stddev	56.752	6034.12	4.971	501.729	56.570
%RSD	.9004343	12.16932	.1632790	11.21851	1.173134
#1	6358.890	53035.32	3039.198	4770.257	4874.219
#2	6303.950	42617.19	3048.933	3893.065	4830.143
#3	6245.405	53101.56	3045.817	4753.677	4761.941

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LX5 Acquired: 6/25/2025 17:41:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252406	k -.009591	.1594636	.0323845	k .0087454	51.54446	.2611899
Stddev	.0036853	.001569	.0014530	.0029987	.0008601	.35632	.0008964
%RSD	14.60049	16.36084	.9111689	9.259691	9.834409	.6912772	.3432089
#1	.0218047	k -.011235	.1581170	.0352025	k .0077892	51.16422	.2609088
#2	.0291327	-.008109	.1610036	.0292330	.0094558	51.59849	.2604677
#3	.0247843	-.009430	.1592702	.0327180	.0089912	51.87068	.2621932

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041133	-.001912	14.99100	s .1235920	.0641429	.1572755	107.5867
Stddev	.0007003	.000012	.03152	.0858501	.0001646	.0156288	.3206
%RSD	17.02454	.6357559	.2102510	69.46250	.2565787	9.937193	.2980359
#1	.0049166	-.001899	14.97167	s .2227207	.0641812	.1751980	107.2665
#2	.0037917	-.001912	14.97397	.0734327	.0639625	.1464852	107.5860
#3	.0036316	-.001924	15.02738	.0746225	.0642849	.1501432	107.9078

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.499882	15.07249	.0702520	s -.030738	.7250456	k .2673689	.2878667
Stddev	.007479	.10373	.0004567	.042504	.0787299	.0081764	.0009120
%RSD	.2991914	.6882060	.6501153	138.2790	10.85861	3.058108	.3168272
#1	2.492498	14.98845	.0707761	s -.079775	.8134699	k .2742155	.2883843
#2	2.507454	15.04060	.0699394	-.007969	.6625508	.2695757	.2884023
#3	2.499694	15.18842	.0700405	-.004469	.6991161	.2583156	.2868136

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	2.367183	k .0358619	.0020315	1.298327	^ *****	.0036372
Stddev	-----	.005123	.0113587	.0004221	.000587	-----	.0005404
%RSD	-----	.2163985	31.67354	20.77762	.0451779	-----	14.85829
#1	^ -----	2.372810	k .0228146	.0015666	1.297933	^ -----	.0034132
#2	2.325130	2.362791	.0435456	.0021374	1.299001	3.685015	.0042536
#3	2.394516	2.365950	.0412256	.0023906	1.298046	3.753278	.0032447

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LX5 Acquired: 6/25/2025 17:41:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.800953	.0217383	.0543637
Stddev	.006947	.0054123	.0002815
%RSD	.3857183	24.89764	.5178718
#1	1.808059	.0270335	.0540507
#2	1.794178	.0219655	.0544439
#3	1.800621	.0162160	.0545964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5492.405	^ *****	2267.394	3869.270	5441.682
Stddev	21.525	-----	236.235	11.358	20.655
%RSD	.3919044	-----	10.41881	.2935390	.3795633
#1	5479.014	^ -----	1994.913	3861.009	5423.644
#2	5517.234	43555.08	2414.717	3864.578	5464.214
#3	5480.966	43740.45	2392.552	3882.222	5437.190

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MS Acquired: 6/25/2025 17:46:11 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .8813841	s 1.800863	s 1.777521	s 1.636568	s .2457774	k 233.5675	1.263285
Stddev	.0540529	.105046	.104889	.228078	.0416627	.8393	.003123
%RSD	6.132727	5.833077	5.900852	13.93635	16.95138	.3593262	.2472113
#1	.8500841	1.742362	1.714848	1.502141	.2231710	233.9581	1.265388
#2	s .9437989	s 1.922134	s 1.898611	s 1.899911	s .2938569	k 234.1403	1.264769
#3	.8502694	1.738093	1.719103	1.507653	.2203044	232.6041	1.259696

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .1647207	^ *****	54.69282	k .6050651	s .5540612	k .8208704	507.3348
Stddev	.0042499	-----	.30729	.0016147	.0442561	.0162425	2.2952
%RSD	2.580035	-----	.5618500	.2668640	7.987585	1.978692	.4524084
#1	.1670997	.1818397	54.92977	.6067557	.5283899	.8297033	509.1867
#2	k .1598142	^ -----	54.80309	k .6049008	s .6051636	k .8021256	508.0508
#3	.1672483	.1823241	54.34562	.6035388	.5286302	.8307824	504.7669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 10.30726	60.86561	s .8968163	k .0221568	5.295606	k 1.499596	k 1.369239
Stddev	.06039	.21969	.0602393	.0017506	.063512	.015427	.008167
%RSD	.5859225	.3609365	6.717013	7.900832	1.199331	1.028719	.5964875
#1	10.35187	61.02005	.8615318	.0239708	5.361439	1.511599	1.360718
#2	k 10.33136	60.96267	s .9663722	k .0220223	5.234703	k 1.504992	k 1.377000
#3	10.23853	60.61411	.8625450	.0204774	5.290676	1.482196	1.369999

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.08641	^ *****	k .3736875	s .3033180	s 6.954019	k 10.85660	s .6486110
Stddev	.28145	-----	.0047824	.0511994	.462125	.21014	.0408685
%RSD	1.401216	-----	1.279786	16.87977	6.645434	1.935588	6.300931
#1	19.79814	18.03930	.3749968	.2737707	6.672702	11.00622	.6256554
#2	20.10056	^ -----	k .3776789	s .3624379	s 7.487366	k 10.61635	s .6957961
#3	20.36052	18.02930	.3683868	.2737453	6.701988	10.94722	.6243814

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MS Acquired: 6/25/2025 17:46:11 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k 7.810947	.3096013	.3746031
Stddev	.036817	.0046025	.0015542
%RSD	.4713499	1.486595	.4148949
#1	7.843104	.3042945	.3758804
#2	k 7.818950	.3125026	.3750562
#3	7.770787	.3120068	.3728727

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	51065.19	2991.533	4598.155	^ *****
Stddev	-----	1557.53	19.729	113.358	-----
%RSD	-----	3.050075	.6595023	2.465286	-----
#1	6581.085	51674.85	2986.454	4667.489	4977.678
#2	^ -----	49295.05	2974.840	4467.340	^ -----
#3	6567.377	52225.66	3013.305	4659.637	4967.462

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSD Acquired: 6/25/2025 17:50:28 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9287737**	**1.912219**	**1.795191**	**1.646233**	**.2451716**	**236.6834**
Stddev	.0241228	.012388	.011497	.041856	.0021330	1.0081
%RSD	2.597277	.6478381	.6404419	2.542529	.8700063	.4259127
#1	.9166585	1.909180	1.797365	1.626566	.2440649	237.4821
#2	.9131096	1.901634	1.782762	1.617832	.2438194	237.0174
#3	.9565529	1.925844	1.805446	1.694300	.2476305	235.5507

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.282964**	**.1976174**	**.2016103**	**59.40214**	**.6143234**	**.5313564**
Stddev	.002859	.0342214	.0025414	.22623	.0022874	.0023633
%RSD	.2228283	17.31698	1.260567	.3808478	.3723528	.4447596
#1	1.284972	.1775099	.2013297	59.29525	.6165629	.5313150
#2	1.284229	.1782116	.1992208	59.66201	.6144165	.5290141
#3	1.279691	.2371308	.2042804	59.24916	.6119908	.5337401

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8968103**	**433.7464**	**9.918063**	**61.72850**	**.8989263**	**.0328948**
Stddev	.1450320	.7650	.013184	.19712	.0045962	.0011674
%RSD	16.17198	.1763774	.1329263	.3193284	.5113022	3.548950
#1	.8100690	433.6053	9.907214	61.61242	.8967719	.0317440
#2	.8161195	434.5722	9.932736	61.61699	.8958029	.0328623
#3	1.064242	433.0618	9.914239	61.95610	.9042040	.0340781

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.971043**	**1.325963**	**1.353199**	**23.86448**	F **19.21100**	**.4506473**
Stddev	.988090	.010300	.002974	4.05968	.56807	.0112464
%RSD	16.54804	.7768228	.2197890	17.01138	2.956984	2.495617
#1	5.381752	1.331048	1.355822	21.50473	19.06807	.4585760
#2	5.419594	1.332732	1.353808	21.53655	18.72804	.4555900
#3	7.111782	1.314108	1.349968	28.55215	19.83688	.4377760

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSD Acquired: 6/25/2025 17:50:28 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2937210	6.783356	12.86620	.6846930	7.869542	.3399795
Stddev	.0006879	.212587	2.18557	.0067156	.018660	.0083662
%RSD	.2342008	3.133956	16.98691	.9808134	.2371129	2.460805
#1	.2930097	6.732674	11.56337	.6803096	7.879958	.3494285
#2	.2937707	6.600690	11.64579	.6813450	7.880668	.3369959
#3	.2943828	7.016704	15.38943	.6924244	7.847999	.3335141

Elem	Sr4077
Units	ppm
Avg	.4058130
Stddev	.0014971
%RSD	.3689143
#1	.4064150
#2	.4069155
#3	.4041087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6279.197	51264.40	2724.213	4598.899	4743.958
Stddev	263.891	165.43	419.730	23.891	205.275
%RSD	4.202620	.3226957	15.40738	.5194846	4.327094
#1	6241.405	51084.89	2969.212	4571.855	4704.376
#2	6559.947	51297.59	2963.866	4607.709	4966.142
#3	6036.240	51410.72	2239.560	4617.135	4561.355

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01A Acquired: 6/25/2025 17:55:18 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .9532522	s 1.954199	s 1.812775	s 1.806714	s .7240884	k 206.7111
Stddev	.0524030	.101873	.091113	.249862	.1218765	6.8980
%RSD	5.497290	5.213044	5.026178	13.82963	16.83172	3.337036
#1	.9288206	1.906379	1.785716	1.673208	.6533840	198.9738
#2	.9175264	1.885033	1.738256	1.651966	.6540624	212.2179
#3	s 1.013410	s 2.071185	s 1.914353	s 2.094969	s .8648187	k 208.9415

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.192877	k .1823540	^ *****	59.31208	k .6040054	s .5327872
Stddev	.033932	.0400505	-----	1.89180	.0041811	.0400457
%RSD	2.844575	21.96302	-----	3.189572	.6922203	7.516256
#1	1.155638	.2248826	.2009770	57.18285	.6030980	.5109126
#2	1.222048	.1768228	.1940479	60.79944	.6003525	.5084430
#3	1.200945	k .1453567	^ -----	59.95394	k .6085656	s .5790059

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .8431628	419.5386	k 9.789883	59.42149	s .8859746	k .0330383
Stddev	.1769397	11.2730	.271176	1.65403	.0534387	.0031310
%RSD	20.98523	2.687006	2.769962	2.783554	6.031631	9.477033
#1	1.032081	406.9985	9.487585	57.55962	.8589338	.0294321
#2	.816084	428.8319	10.01173	60.72106	.8514608	.0350652
#3	k .681323	422.7853	k 9.87033	59.98379	s .9475294	k .0346176

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.903429	k 1.289470	k 1.312770	21.98101	^ *****	k .3945114
Stddev	.983465	.043289	.019859	2.94727	-----	.0377433
%RSD	20.05667	3.357141	1.512733	13.40827	-----	9.567107
#1	5.967567	1.242523	1.300955	25.38367	18.62093	.3511967
#2	4.714737	1.327807	1.301658	20.33322	18.08534	.4119929
#3	4.027980	k 1.298082	k 1.335698	20.22615	^ -----	k .4203445

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01A Acquired: 6/25/2025 17:55:18 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .3474579	s 7.051829	kF 14.27358	s .7537983	k 7.293233	.3037637
Stddev	.0590384	.399190	3.08673	.0417884	.222019	.0138948
%RSD	16.99152	5.660804	21.62546	5.543716	3.044182	4.574208
#1	.3121141	6.928692	17.57621	.7412284	7.044007	.2886618
#2	.3146457	6.728714	13.78302	.7197377	7.469877	.3160066
#3	s .4156139	s 7.498080	k 11.46151	s .8004290	k 7.365816	.3066228

Elem	Sr4077
Units	ppm
Avg	.3685143
Stddev	.0116175
%RSD	3.152531
#1	.3555169
#2	.3778883
#3	.3721377

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	48503.68	2731.726	4360.090	^ *****
Stddev	-----	5613.19	348.009	473.869	-----
%RSD	-----	11.57272	12.73953	10.86832	-----
#1	6516.282	52060.59	2330.019	4662.765	4966.752
#2	6530.359	51417.68	2923.437	4603.520	4997.636
#3	^ -----	42032.76	2941.723	3813.983	^ -----

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV03 Acquired: 6/25/2025 18:00:27 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.114729**	**5.066128**	**5.069023**	**5.179954**	**5.146240**	**10.16344**	**10.21337**
Stddev	.090573	.023762	.037073	.103415	.041853	.09001	.02134
%RSD	1.770829	.4690345	.7313694	1.996455	.8132693	.8855951	.2089402
#1	5.184347	5.081111	5.095107	5.259296	5.179909	10.16118	10.21959
#2	5.012329	5.038730	5.026584	5.062995	5.099381	10.25456	10.23092
#3	5.147509	5.078542	5.085377	5.217570	5.159430	10.07458	10.18962

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2578349**	**2.547958**	**25.65230**	**1.041177**	**2.531633**	**1.271750**	**5.132335**
Stddev	.0113016	.020455	.08313	.012021	.005278	.064161	.015281
%RSD	4.383287	.8027801	.3240831	1.154514	.2084920	5.045123	.2977335
#1	.2675778	2.561500	25.67771	1.043303	2.532094	1.329352	5.129195
#2	.2454445	2.524428	25.71976	1.028235	2.526140	1.202598	5.148941
#3	.2604823	2.557945	25.55942	1.051993	2.536666	1.283299	5.118867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.562898**	**25.63740**	**2.522667**	**1.300362**	**25.51918**	**2.566986**	**2.602777**
Stddev	.009442	.11713	.008362	.021809	2.26607	.018415	.080588
%RSD	.3684027	.4568603	.3314572	1.677139	8.879881	.7173748	3.096234
#1	2.564559	25.60406	2.526938	1.289423	25.64011	2.562474	2.580775
#2	2.571400	25.76758	2.513033	1.286189	23.19507	2.587238	2.535475
#3	2.552736	25.54056	2.528031	1.325476	27.72237	2.551247	2.692081

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.91633**	**5.214162**	**5.038712**	**5.106949**	**5.200978**	**5.108223**	**5.092083**
Stddev	2.32620	.105874	.233837	.010738	.135713	.277819	.036294
%RSD	8.642356	2.030516	4.640815	.2102599	2.609377	5.438654	.7127445
#1	25.27942	5.294337	5.226210	5.110861	5.302143	5.269816	5.118972
#2	25.89044	5.094147	4.776697	5.094804	5.046750	4.787429	5.050801
#3	29.57913	5.254001	5.113228	5.115182	5.254040	5.267425	5.106478

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV03 Acquired: 6/25/2025 18:00:27 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.137188**	**5.035673**	**5.193752**
Stddev	.019694	.047765	.015784
%RSD	.3833566	.9485348	.3039028
#1	5.127679	5.066000	5.194880
#2	5.159832	5.060407	5.208943
#3	5.124054	4.980614	5.177435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4785.328**	**35801.58**	**2068.444**	**3189.774**	**4916.374**
Stddev	184.704	4049.24	184.851	320.573	189.045
%RSD	3.859801	11.31021	8.936724	10.05002	3.845207
#1	4660.173	39840.29	2191.739	3511.108	4791.328
#2	4997.464	35822.56	2157.689	3188.247	5133.850
#3	4698.347	31741.90	1855.903	2869.968	4823.943

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB03 Acquired: 6/25/2025 18:07:39 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002604**	**-.001841**	**-.000035**	**.0012202**	**.0010596**	**.0220657**
Stddev	.000704	.001217	.001753	.0029540	.0013287	.0292336
%RSD	27.01852	66.09824	5067.499	242.0838	125.4021	132.4843
#1	-.001886	-.000553	.000739	.0044709	.0000920	.0526414
#2	-.002633	-.001998	-.002041	.0004899	.0005122	.0191651
#3	-.003293	-.002972	.001199	-.001300	.0025745	-.005609

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001048**	**.0000643**	**.0000447**	**-.007490**	**-.000320**	**.0002296**
Stddev	.0007420	.0001460	.0000653	.022556	.000716	.0001164
%RSD	708.2448	227.2066	146.0394	301.1525	223.3547	50.71095
#1	-.000738	-.000039	.0000588	-.033442	.000317	.0003246
#2	.000661	.000231	-.000026	.003580	-.001094	.0002644
#3	.000391	.000000	.000102	.007392	-.000184	.0000997

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001792**	**.0118282**	**.0015319**	**.0148539**	**.0004233**	**-.000007**
Stddev	.0000419	.0125428	.0012275	.0487884	.0003378	.001639
%RSD	23.38724	106.0409	80.12518	328.4547	79.79751	25034.60
#1	.0001310	.0116685	.0024609	-.038109	.0007586	-.001873
#2	.0001989	-.000634	.0001404	.024708	.0000830	.001201
#3	.0002076	.024450	.0019945	.057963	.0004284	.000652

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0487683**	**.0003801**	**-.001157**	**.0058101**	**.0017258**	**.0048844**
Stddev	.0120418	.0101091	.000149	.0007624	.0032834	.0015556
%RSD	24.69188	2659.968	12.85607	13.12128	190.2591	31.84927
#1	.0349151	.0018191	-.001287	.0056532	.0022187	.0066019
#2	.0567302	.0096925	-.000995	.0051383	-.001776	.0044812
#3	.0546597	-.010372	-.001190	.0066387	.004735	.0035700

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB03 Acquired: 6/25/2025 18:07:39 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000243	-.000512	.0049254	-.001248	-.000977	F -.014279
Stddev	.000608	.001215	.0008364	.000918	.003668	.004924
%RSD	250.2336	237.3070	16.98155	73.58849	375.5904	34.48314
#1	-.000941	-.000160	.0058563	-.000874	.001856	-.015092
#2	.000168	-.001864	.0046826	-.002294	-.005120	-.018746
#3	.000044	.000488	.0042373	-.000576	.000334	-.009000

Elem	Sr4077
Units	ppm
Avg	.0001682
Stddev	.0000616
%RSD	36.64952
#1	.0001143
#2	.0002354
#3	.0001548

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5197.740	41688.04	2213.268	3658.886	5854.014
Stddev	7.934	92.04	9.174	14.598	9.880
%RSD	.1526342	.2207935	.4145084	.3989617	.1687675
#1	5200.891	41719.90	2202.770	3670.903	5860.096
#2	5188.715	41584.29	2217.288	3642.641	5842.614
#3	5203.614	41759.91	2219.746	3663.112	5859.331

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2367-04 Acquired: 6/25/2025 18:12:09 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.020523**	**.0054483**	**.0081255**	**-.022325**	**.0084018**	**.0367576**	**.4554493**
Stddev	.001672	.0001782	.0010535	.006635	.0010700	.0290408	.0012957
%RSD	8.147601	3.271105	12.96520	29.71956	12.73510	79.00640	.2844822
#1	-.021897	.0053600	.0072540	-.014949	.0094334	.0097426	.4543984
#2	-.018661	.0053316	.0078262	-.024216	.0072971	.0674701	.4568970
#3	-.021011	.0056535	.0092962	-.027808	.0084749	.0330601	.4550526

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000387**	**.0003230**	**90.43569**	**.0031722**	**.0228030**	**.0181161**	**.4384643**
Stddev	.000003	.0000480	.17641	.0009742	.0000446	.0006681	.0333169
%RSD	.8053409	14.85260	.1950720	30.71125	.1956483	3.687716	7.598542
#1	-.000388	.0003327	90.35969	.0026706	.0228395	.0188875	.4004854
#2	-.000384	.0003654	90.63737	.0025510	.0228163	.0177417	.4521420
#3	-.000390	.0002709	90.31002	.0042950	.0227533	.0177193	.4627656

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.443131**	**16.66060**	**.0051477**	**-.000332**	**382.6577**	**-.006061**	**.0872932**
Stddev	.010487	.14735	.0001513	.001715	2.5178	.007350	.0002449
%RSD	.2360345	.8844429	2.939051	515.9314	.6579716	121.2591	.2805341
#1	4.435588	16.49186	.0051302	.000933	385.4214	-.008266	.0874253
#2	4.455107	16.76387	.0053069	.000354	380.4944	-.012056	.0874436
#3	4.438698	16.72608	.0050059	-.002285	382.0574	.002139	.0870106

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.480648**	**.0321563**	**.0363894**	**.0023137**	**1.039478**	**1.703459**	**.0065950**
Stddev	.016868	.0035461	.0014440	.0005253	.004794	.006320	.0003801
%RSD	.6799882	11.02759	3.968103	22.70300	.4611554	.3709971	5.762901
#1	2.495195	.0281814	.0362780	.0027076	1.038057	1.708680	.0069630
#2	2.484591	.0332924	.0350043	.0025163	1.044821	1.705264	.0062039
#3	2.462158	.0349951	.0378858	.0017173	1.035555	1.696433	.0066180

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2367-04 Acquired: 6/25/2025 18:12:09 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.005242**	**-.030634**	**.3357722**
Stddev	.001793	.008758	.0016490
%RSD	34.21145	28.58987	.4910949
#1	-.003293	-.021206	.3354559
#2	-.006822	-.038517	.3375564
#3	-.005611	-.032179	.3343043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4996.976**	**39563.28**	**2246.953**	**3542.981**	**4971.326**
Stddev	4.858	154.54	8.858	16.995	3.356
%RSD	.0972190	.3906154	.3942396	.4796761	.0675158
#1	5002.439	39723.57	2239.480	3562.512	4974.192
#2	4993.143	39551.07	2244.641	3534.865	4967.633
#3	4995.345	39415.21	2256.738	3531.565	4972.152

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2386-02 Acquired: 6/25/2025 18:16:40 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.014767**	**.0004601**	**.0116575**	**-.010540**	**.0028539**	**.0770888**	**.5134334**
Stddev	.002489	.0018720	.0027830	.003341	.0023480	.0121289	.0039033
%RSD	16.85824	406.8631	23.87327	31.70327	82.27386	15.73361	.7602287
#1	-.015570	.0018395	.0084466	-.006700	.0054929	.0906711	.5172975
#2	-.011975	-.001671	.0131500	-.012787	.0020727	.0732558	.5094921
#3	-.016755	.001212	.0133758	-.012133	.0009961	.0673396	.5135105

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001859**	**.0027410**	**27.38281**	**.0033241**	**.0196134**	**.0230732**	**.0400879**
Stddev	.0000680	.0000165	.24658	.0003191	.0002434	.0009214	.0121964
%RSD	36.57395	.6004076	.9004827	9.600591	1.240976	3.993229	30.42409
#1	.0002628	.0027566	27.58515	.0031344	.0198696	.0231562	.0508584
#2	.0001337	.0027424	27.10816	.0036925	.0195855	.0221131	.0268446
#3	.0001612	.0027238	27.45511	.0031453	.0193852	.0239502	.0425608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.887235**	**4.484677**	**.0103270**	**.0000895**	**338.7368**	**-.011681**	**.4001682**
Stddev	.016618	.022248	.0000117	.0007505	1.9517	.002134	.0010243
%RSD	.8805434	.4960959	.1134651	838.4251	.5761574	18.27005	.2559552
#1	1.895514	4.471628	.0103162	.0008280	340.9874	-.013631	.3990301
#2	1.868104	4.510366	.0103394	.0001129	337.5114	-.012012	.4010159
#3	1.898087	4.472036	.0103253	-.000672	337.7116	-.009401	.4004587

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.082496**	**.0193385**	**.1042106**	**.0014141**	**1.753309**	**2.091439**	**.0013935**
Stddev	.031570	.0011980	.0013796	.0002367	.001671	.024290	.0009989
%RSD	1.515978	6.194843	1.323834	16.73972	.0953128	1.161412	71.68574
#1	2.094454	.0179828	.1055689	.0012892	1.751383	2.098727	.0011416
#2	2.046694	.0197781	.1028107	.0016871	1.754172	2.064339	.0005446
#3	2.106341	.0202546	.1042521	.0012660	1.754372	2.111251	.0024942

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2386-02 Acquired: 6/25/2025 18:16:40 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003002	-.028579	.1398624
Stddev	.0040078	.003811	.0010267
%RSD	1335.225	13.33528	.7340809
#1	.0045612	-.032933	.1408319
#2	-.000267	-.025852	.1387867
#3	-.003394	-.026951	.1399684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5114.318	40231.30	2283.035	3602.562	5187.396
Stddev	14.199	157.11	19.949	19.223	12.274
%RSD	.2776390	.3905237	.8737714	.5336042	.2366148
#1	5099.293	40332.45	2277.154	3616.877	5176.397
#2	5116.146	40050.30	2305.262	3580.712	5185.156
#3	5127.514	40311.16	2266.687	3610.095	5200.636

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2392-01 Acquired: 6/25/2025 18:21:12 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0498807**	**-.009493**	**.1837934**	**.0182013**	**.0120077**	**25.45466**	**.5295080**
Stddev	.0042259	.001325	.0008518	.0009761	.0026803	.16877	.0022317
%RSD	8.472093	13.95484	.4634443	5.362522	22.32138	.6630062	.4214741
#1	.0512726	-.009424	.1840826	.0172890	.0089647	25.30918	.5279560
#2	.0532352	-.010850	.1828346	.0180843	.0130404	25.41513	.5285024
#3	.0451344	-.008204	.1844629	.0192305	.0140181	25.63969	.5320656

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096163**	**-.001493**	**38.96649**	**.0642095**	**.0747131**	**.4188453**	**80.12615**
Stddev	.0001128	.000065	.20384	.0004256	.0000263	.0001039	.35951
%RSD	1.172979	4.331004	.5231200	.6628545	.0351599	.0248063	.4486815
#1	.0095038	-.001507	38.87187	.0640497	.0746898	.4188881	79.84682
#2	.0096156	-.001422	38.82715	.0646919	.0747080	.4189209	79.99985
#3	.0097294	-.001549	39.20045	.0638870	.0747416	.4187268	80.53176

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4738254**	**3.711295**	**.1100384**	**-.003428**	**2.499617**	**.2190268**	**.1859646**
Stddev	.0042164	.039635	.0001798	.001226	.013642	.0039496	.0011019
%RSD	.8898712	1.067961	.1633972	35.75395	.5457589	1.803270	.5925337
#1	.4703832	3.666770	.1099822	-.003221	2.503797	.2188834	.1847938
#2	.4725646	3.742727	.1098934	-.002319	2.484374	.2230462	.1861188
#3	.4785284	3.724387	.1102396	-.004744	2.510679	.2151508	.1869814

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.833958**	**2.086927**	**.0454457**	**.0174284**	**5.178718**	**4.594427**	**.0096728**
Stddev	.026345	.002866	.0007909	.0000841	.007812	.026983	.0005133
%RSD	.4515798	.1373325	1.740227	.4826239	.1508421	.5873000	5.306401
#1	5.828322	2.084447	.0460441	.0174373	5.177370	4.601850	.0093555
#2	5.810888	2.086269	.0457439	.0173401	5.171667	4.564509	.0102650
#3	5.862665	2.090064	.0445491	.0175077	5.187115	4.616921	.0093979

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2392-01 Acquired: 6/25/2025 18:21:12 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.386101	.0622658	.7762568
Stddev	.004518	.0023025	.0027718
%RSD	.3259535	3.697917	.3570683
#1	1.383242	.0619103	.7739093
#2	1.383752	.0601617	.7755465
#3	1.391310	.0647254	.7793146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5905.968	47407.21	2549.271	4188.700	5597.876
Stddev	13.452	301.67	8.123	28.527	7.102
%RSD	.2277634	.6363405	.3186450	.6810539	.1268767
#1	5900.333	47739.57	2553.797	4219.755	5598.931
#2	5896.251	47331.36	2554.124	4182.686	5590.305
#3	5921.321	47150.71	2539.894	4163.659	5604.392

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DLX5 Acquired: 6/25/2025 18:29:57 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0242026**	**-.010449**	**.1659279**	**.0338441**	**.0110357**	**55.65605**	**.2840446**
Stddev	.0014508	.000459	.0045440	.0029097	.0030827	.23685	.0007744
%RSD	5.994446	4.390798	2.738545	8.597330	27.93419	.4255540	.2726418
#1	.0236934	-.010142	.1711536	.0304851	.0133768	55.92877	.2833876
#2	.0230750	-.010229	.1637234	.0355884	.0075429	55.53750	.2848985
#3	.0258394	-.010977	.1629067	.0354589	.0121874	55.50190	.2838479

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038829**	**-.002102**	**16.18333**	**.0782150**	**.0663106**	**.1598966**	**115.8054**
Stddev	.0001438	.000060	.02797	.0005938	.0008918	.0001640	.4647
%RSD	3.704062	2.874202	.1728600	.7591791	1.344935	.1025807	.4012469
#1	.0037302	-.002149	16.15277	.0787864	.0673390	.1597333	116.2830
#2	.0039026	-.002034	16.20769	.0782575	.0658424	.1598950	115.7783
#3	.0040158	-.002122	16.18951	.0776011	.0657504	.1600613	115.3549

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.698680**	**16.33542**	**.0727117**	**-.005759**	**.7265742**	**.2797321**	**.3075708**
Stddev	.009421	.14250	.0011046	.000648	.0130788	.0068287	.0014934
%RSD	.3490882	.8723290	1.519101	11.25294	1.800062	2.441160	.4855573
#1	2.709082	16.17212	.0738398	-.005784	.7357233	.2766381	.3081440
#2	2.696233	16.39965	.0726631	-.006395	.7324052	.2875602	.3086927
#3	2.690723	16.43450	.0716323	-.005099	.7115941	.2749981	.3058757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.523855**	**2.477158**	**.0436233**	**.0024518**	**1.358568**	**3.497421**	**.0045835**
Stddev	.006374	.030711	.0004925	.0002935	.020932	.010386	.0006897
%RSD	.2525529	1.239778	1.128938	11.96993	1.540739	.2969709	15.04729
#1	2.518737	2.511578	.0432943	.0025580	1.381814	3.500718	.0046111
#2	2.530995	2.467338	.0441895	.0026775	1.352679	3.505758	.0052591
#3	2.521833	2.452558	.0433860	.0021201	1.341212	3.485786	.0038805

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DLX5 Acquired: 6/25/2025 18:29:57 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.930382	.0348072	.0586731
Stddev	.005564	.0033558	.0004039
%RSD	.2882199	9.641064	.6884410
#1	1.936515	.0323664	.0591262
#2	1.928975	.0386340	.0583508
#3	1.925658	.0334213	.0585423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.944	43897.24	2387.200	3910.545	5442.541
Stddev	12.472	74.71	13.400	8.456	18.788
%RSD	.2263104	.1701974	.5613366	.2162286	.3452060
#1	5505.017	43900.34	2402.434	3911.598	5428.387
#2	5525.274	43970.35	2381.927	3918.425	5463.856
#3	5502.540	43821.03	2377.238	3901.612	5435.378

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUPDLX5 Acquired: 6/25/2025 18:34:13 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232325	-.008742	.1654146	.0350565	.0088409	54.26819	.2755099
Stddev	.0016159	.000459	.0032212	.0027215	.0012022	.14917	.0011456
%RSD	6.955437	5.255219	1.947336	7.763129	13.59816	.2748669	.4158237
#1	.0234595	-.008780	.1684093	.0373648	.0086710	54.10248	.2767379
#2	.0247229	-.008265	.1658276	.0357490	.0077327	54.31037	.2753220
#3	.0215151	-.009182	.1620068	.0320557	.0101191	54.39173	.2744699

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039331	-.001953	15.75984	.0763305	.0665060	.1552998	112.7328
Stddev	.0001168	.000026	.01895	.0007061	.0011017	.0008748	.1675
%RSD	2.970434	1.329782	.1202699	.9250156	1.656583	.5632710	.1485918
#1	.0039095	-.001946	15.76640	.0759055	.0676825	.1543529	112.5781
#2	.0038299	-.001982	15.73848	.0771456	.0663367	.1554689	112.9107
#3	.0040599	-.001931	15.77464	.0759406	.0654987	.1560778	112.7097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.628108	15.84859	.0718048	-.006862	.7114202	.2769827	.3015074
Stddev	.007325	.04476	.0008079	.000383	.0087712	.0012106	.0008526
%RSD	.2787234	.2824069	1.125204	5.585049	1.232914	.4370805	.2827739
#1	2.622395	15.80421	.0726563	-.006454	.7019580	.2782947	.3023450
#2	2.625564	15.89371	.0717091	-.006917	.7192792	.2759087	.3006406
#3	2.636366	15.84784	.0710489	-.007214	.7130234	.2767447	.3015367

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.442197	2.445575	.0429968	.0023771	1.338141	3.383599	.0055996
Stddev	.005565	.014128	.0016418	.0004195	.012192	.032309	.0007327
%RSD	.2278818	.5776777	3.818422	17.64614	.9111164	.9548818	13.08520
#1	2.436628	2.460590	.0444217	.0026721	1.349529	3.351426	.0060088
#2	2.447759	2.443590	.0433674	.0018969	1.339614	3.416043	.0047537
#3	2.442205	2.432545	.0412014	.0025624	1.325279	3.383328	.0060363

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUPDLX5 Acquired: 6/25/2025 18:34:13 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.883334	.0278094	.0572324
Stddev	.004833	.0037259	.0002330
%RSD	.2565998	13.39782	.4071889
#1	1.878504	.0319372	.0571614
#2	1.888169	.0267957	.0574927
#3	1.883327	.0246953	.0570431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5492.258	43545.52	2392.702	3868.144	5417.380
Stddev	7.778	50.42	23.009	10.141	4.850
%RSD	.1416183	.1157885	.9616211	.2621688	.0895191
#1	5496.908	43573.42	2418.952	3879.825	5417.038
#2	5496.588	43487.31	2383.132	3863.005	5422.391
#3	5483.279	43575.82	2376.023	3861.600	5412.710

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LDLX25 Acquired: 6/25/2025 18:38:30 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066005	-.002567	.0320014	.0062284	.0004899	10.67847	.0512165
Stddev	.0015420	.002533	.0012450	.0027692	.0007020	.05819	.0009310
%RSD	23.36255	98.66479	3.890608	44.46046	143.2821	.5449651	1.817684
#1	.0059043	-.005372	.0333939	.0076426	.0005606	10.66769	.0520367
#2	.0083678	-.000448	.0316145	.0080048	.0011539	10.74130	.0502046
#3	.0055292	-.001881	.0309957	.0030377	-.000245	10.62642	.0514083

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007362	-.000453	3.046243	.0143876	.0125483	.0315213	22.05927
Stddev	.0001115	.000020	.031533	.0008053	.0004649	.0004332	.09291
%RSD	15.14026	4.457808	1.035158	5.596965	3.704965	1.374422	.4211977
#1	.0006932	-.000444	3.052658	.0152397	.0121274	.0317665	22.03152
#2	.0006528	-.000476	3.074075	.0136392	.0124703	.0310211	22.16290
#3	.0008628	-.000439	3.011995	.0142837	.0130473	.0317764	21.98340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5198728	3.174414	.0133250	-.000678	.1773637	.0464793	.0579044
Stddev	.0051749	.038620	.0003669	.000528	.0098451	.0100117	.0002869
%RSD	.9954230	1.216610	2.753096	77.82843	5.550803	21.54014	.4955410
#1	.5180141	3.144403	.0136936	-.000897	.1886658	.0354509	.0577537
#2	.5257204	3.217986	.0129599	-.001061	.1706526	.0489911	.0582353
#3	.5158840	3.160853	.0133214	-.000076	.1727728	.0549959	.0577243

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4267767	.4440798	.0036932	.0002342	.2404811	.7674790	.0000753
Stddev	.0027399	.0013468	.0004768	.0000191	.0030400	.0160500	.0006584
%RSD	.6420066	.3032911	12.91114	8.155320	1.264126	2.091268	873.8848
#1	.4262837	.4428954	.0039851	.0002124	.2370914	.7615490	.0002605
#2	.4243167	.4455449	.0031430	.0002478	.2413862	.7552377	.0006212
#3	.4297297	.4437992	.0039516	.0002424	.2429657	.7856502	-.000656

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LDLX25 Acquired: 6/25/2025 18:38:30 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3628508	-.009216	.0110601
Stddev	.0036998	.005495	.0000660
%RSD	1.019640	59.61996	.5967016
#1	.3634328	-.006274	.0109918
#2	.3662250	-.015555	.0111236
#3	.3588945	-.005819	.0110648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5411.800	43234.86	2299.349	3822.345	5836.128
Stddev	6.655	329.08	.449	31.150	7.586
%RSD	.1229756	.7611464	.0195071	.8149449	.1299788
#1	5419.467	43373.59	2299.697	3827.363	5844.831
#2	5407.517	42859.13	2299.506	3788.991	5830.919
#3	5408.416	43471.86	2298.842	3850.681	5832.635

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDLX5 Acquired: 6/25/2025 18:42:54 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1806922	.3964255	.3714630	.4069599	.0627198	61.27612	.3346964
Stddev	.0054253	.0020278	.0033430	.0068727	.0010170	.38698	.0020455
%RSD	3.002492	.5115250	.8999574	1.688782	1.621534	.6315298	.6111459
#1	.1778083	.3967165	.3742190	.4135643	.0638813	61.34062	.3339065
#2	.1869504	.3982921	.3724256	.4074681	.0622892	61.62680	.3370191
#3	.1773180	.3942679	.3677443	.3998472	.0619889	60.86095	.3331637

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0475459	.0380834	15.26645	.1607061	.1114416	.2277941	124.5001
Stddev	.0009139	.0003779	.08475	.0017348	.0010393	.0036511	.4653
%RSD	1.922238	.9922283	.5551544	1.079484	.9326091	1.602817	.3737284
#1	.0467360	.0384096	15.19551	.1620946	.1125540	.2237412	124.4121
#2	.0485368	.0381712	15.36030	.1612623	.1112754	.2308262	125.0031
#3	.0473648	.0376694	15.24355	.1587614	.1104954	.2288150	124.0851

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.712701	16.55759	.1806061	.0084937	1.512587	.3616213	.3548463
Stddev	.008922	.07362	.0025297	.0006867	.022457	.0069552	.0010051
%RSD	.3288851	.4446555	1.400701	8.084606	1.484701	1.923343	.2832490
#1	2.712428	16.60816	.1830272	.0092597	1.497581	.3551443	.3549333
#2	2.721756	16.59149	.1808109	.0082883	1.538405	.3689722	.3558051
#3	2.703919	16.47313	.1779802	.0079332	1.501774	.3607476	.3538006

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.601013	3.727596	.1064239	.0736334	1.322928	3.221123	.1347926
Stddev	.037044	.033397	.0017562	.0011475	.013492	.052850	.0013035
%RSD	.8051301	.8959488	1.650164	1.558456	1.019880	1.640717	.9670320
#1	4.588700	3.752549	.1083780	.0749249	1.337418	3.170365	.1362936
#2	4.642646	3.740582	.1059161	.0732442	1.320638	3.275841	.1341385
#3	4.571694	3.689656	.1049776	.0727310	1.310727	3.217164	.1339457

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDLX5 Acquired: 6/25/2025 18:42:54 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.048439	.0760673	.1033947
Stddev	.012228	.0050492	.0007158
%RSD	.5969577	6.637817	.6923179
#1	2.043708	.0763857	.1035876
#2	2.062326	.0708664	.1039943
#3	2.039283	.0809498	.1026022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5516.964	43815.74	2369.520	3899.520	5415.910
Stddev	5.251	414.79	20.737	33.203	4.026
%RSD	.0951869	.9466621	.8751500	.8514549	.0743340
#1	5518.972	43385.94	2375.305	3868.037	5413.733
#2	5520.916	43847.62	2346.505	3896.314	5413.441
#3	5511.005	44213.67	2386.750	3934.209	5420.555

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDDLX5 Acquired: 6/25/2025 18:47:10 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .1810041	s .3992845	s .3723133	s .4402779	s .0657445	k 63.84402	.3504293
Stddev	.0045553	.0236609	.0207013	.0584302	.0149201	.89413	.0047802
%RSD	2.516669	5.925812	5.560194	13.27121	22.69410	1.400499	1.364106
#1	s .1859470	s .4266055	s .3962122	s .5066230	s .0825947	k 64.68545	.3543822
#2	.1769750	.3857234	.3599426	.3964831	.0542107	63.94144	.3517894
#3	.1800902	.3855247	.3607851	.4177276	.0604282	62.90516	.3451165

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0497110	s .0382052	15.98883	k .1635437	s .1128206	k .2358302	129.7682
Stddev	.0126162	.0026678	.25213	.0054537	.0099762	.0590577	1.9035
%RSD	25.37912	6.982849	1.576891	3.334704	8.842542	25.04246	1.466814
#1	k .0383104	s .0412828	16.20009	k .1698405	s .1243382	k .1826193	131.2189
#2	.0632655	.0365505	16.05669	.1603239	.1072428	.2993715	130.4728
#3	.0475570	.0367822	15.70972	.1604665	.1068808	.2254998	127.6129

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 2.827264	17.28858	s .1814899	k .0104306	^ *****	k .3884975	k .3678533
Stddev	.039856	.31077	.0120561	.0014240	-----	.0079269	.0227046
%RSD	1.409699	1.797540	6.642836	13.65221	-----	2.040400	6.172186
#1	k 2.862089	17.51835	s .1953438	k .0120609	^ -----	k .3975149	k .3940414
#2	2.835908	17.41241	.1757466	.0094302	1.932411	.3826282	.3558235
#3	2.783796	16.93499	.1733792	.0098007	1.495461	.3853496	.3536948

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	s 3.788159	k .1094529	s .0792484	s 1.350431	k 3.349125	s .1349323
Stddev	-----	.193553	.0071382	.0139186	.070960	.818187	.0085135
%RSD	-----	5.109412	6.521715	17.56324	5.254600	24.42988	6.309450
#1	^ -----	s 4.001886	k .1170677	s .0953026	s 1.427872	k 2.631982	s .1447611
#2	5.972052	3.624698	.1029133	.0718739	1.288527	4.240341	.1301783
#3	4.518076	3.737893	.1083777	.0705688	1.334895	3.175053	.1298576

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDDLX5 Acquired: 6/25/2025 18:47:10 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k 2.145639	.0732927	.1079846
Stddev	.039827	.0050558	.0012776
%RSD	1.856197	6.898113	1.183093
#1	k 2.179519	.0786751	.1090916
#2	2.155632	.0725594	.1082756
#3	2.101767	.0686436	.1065867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	39564.10	2173.888	3549.987	^ *****
Stddev	-----	6916.75	328.149	541.699	-----
%RSD	-----	17.48238	15.09500	15.25918	-----
#1	^ -----	31577.96	2347.339	2924.518	^ -----
#2	5488.447	43470.40	1795.414	3857.368	5414.635
#3	5080.970	43643.93	2378.912	3868.077	5017.084

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01ADLX5 Acquired: 6/25/2025 18:51:24 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .1768662	s .3990822	s .3581987	s .4396848	s .1785504	k 53.11329	.3089772
Stddev	.0128421	.0257263	.0246759	.0628931	.0301191	.28287	.0029482
%RSD	7.260897	6.446374	6.888899	14.30412	16.86869	.5325791	.9541646
#1	s .1916304	s .4287266	s .3865659	s .5122871	s .2133232	k 53.43991	.3108124
#2	.1706812	.3859183	.3463347	.4048716	.1606194	52.95201	.3105427
#3	.1682871	.3826017	.3416955	.4018957	.1617085	52.94796	.3055766

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0462175	s .0379290	15.59736	k .1587382	s .1057898	k .2157925	110.9460
Stddev	.0100889	.0031382	.07682	.0041311	.0103718	.0464634	.7452
%RSD	21.82928	8.273801	.4925033	2.602441	9.804193	21.53150	.6717041
#1	k .0370479	s .0415490	15.68217	k .1591786	s .1177639	k .1722084	111.1388
#2	.0570253	.0362586	15.57749	.1626315	.1000046	.2646800	111.5758
#3	.0445792	.0359793	15.53244	.1544046	.0996008	.2104891	110.1233

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 2.603299	15.82624	s .1706578	k .0100235	^ *****	k .3318094	k .3434573
Stddev	.009986	.14079	.0130140	.0003724	-----	.0033290	.0160493
%RSD	.3835958	.8896126	7.625793	3.715210	-----	1.003291	4.672856
#1	k 2.605438	15.91352	s .1856315	k .0104496	^ -----	k .3298939	k .3546286
#2	2.612042	15.90139	.1642684	.0097604	1.519575	.3356534	.3506772
#3	2.592416	15.66382	.1620734	.0098605	1.237144	.3298809	.3250662

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	s 3.569005	k .0984771	s .0847332	s 1.306663	k 3.720977	s .1470711
Stddev	-----	.271185	.0032631	.0140332	.100926	.747465	.0120221
%RSD	-----	7.598345	3.313576	16.56162	7.723977	20.08786	8.174362
#1	^ -----	s 3.881003	k .1021479	s .1009129	s 1.422776	k 3.074154	s .1605627
#2	5.178990	3.436123	.0959054	.0774146	1.257234	4.539281	.1431561
#3	4.123256	3.389890	.0973782	.0758722	1.239978	3.549495	.1374945

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01ADLX5 Acquired: 6/25/2025 18:51:24 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	k 1.885356	.0614418	.0964893
Stddev	.013447	.0042738	.0003867
%RSD	.7132223	6.955859	.4007342
#1	k 1.891873	.0655779	.0966025
#2	1.894302	.0617050	.0968067
#3	1.869892	.0570425	.0960587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	39646.99	2264.952	3579.121	^ *****
Stddev	-----	5658.49	272.526	438.041	-----
%RSD	-----	14.27219	12.03229	12.23878	-----
#1	^ -----	33284.01	2396.455	3093.690	^ -----
#2	5620.850	41542.80	1951.611	3698.760	5576.900
#3	5622.664	44114.16	2446.790	3944.912	5588.625

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV04 Acquired: 6/25/2025 18:55:38 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.006425**	**5.022404**	**5.028659**	**5.062847**	**5.093262**	**10.21454**	**10.20851**
Stddev	.007300	.003602	.006223	.014521	.008369	.02625	.06558
%RSD	.1458043	.0717219	.1237542	.2868197	.1643125	.2569634	.6424294
#1	5.002718	5.018377	5.024180	5.047662	5.084124	10.22531	10.26744
#2	5.001723	5.025318	5.026031	5.064279	5.095108	10.23368	10.22023
#3	5.014834	5.023518	5.035765	5.076599	5.100554	10.18462	10.13786

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2692173**	**2.525698**	**25.56938**	**1.044971**	**2.520272**	**1.329768**	**5.149204**
Stddev	.0022224	.005080	.12706	.011952	.003008	.007488	.017996
%RSD	.8255224	.2011232	.4969295	1.143720	.1193656	.5630930	.3494964
#1	.2698294	2.521160	25.66568	1.037538	2.516841	1.332306	5.169922
#2	.2710695	2.524748	25.61709	1.058757	2.521519	1.335658	5.140240
#3	.2667529	2.531186	25.42537	1.038618	2.522456	1.321341	5.137450

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.551423**	**25.63072**	**2.512099**	**1.282596**	**25.87668**	**2.552644**	**2.560696**
Stddev	.011980	.08706	.002611	.016782	.11870	.021855	.026946
%RSD	.4695350	.3396802	.1039178	1.308449	.4586996	.8561588	1.052301
#1	2.563855	25.65888	2.510599	1.269064	25.99635	2.573465	2.539787
#2	2.550462	25.70022	2.510585	1.301375	25.87470	2.554581	2.591106
#3	2.539953	25.53307	2.515114	1.277350	25.75898	2.529885	2.551195

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.57766**	**5.096909**	**5.271911**	**5.083751**	**5.061870**	**5.269522**	**5.051038**
Stddev	.28919	.009759	.028593	.004928	.009428	.027940	.007858
%RSD	1.130632	.1914661	.5423581	.0969326	.1862619	.5302168	.1555780
#1	25.84314	5.086607	5.285024	5.078772	5.051084	5.263632	5.042348
#2	25.62032	5.098108	5.291594	5.088627	5.065981	5.299938	5.053123
#3	25.26950	5.106014	5.239114	5.083854	5.068545	5.244997	5.057644

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV04 Acquired: 6/25/2025 18:55:38 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.130176	5.043999	5.182703
Stddev	.032438	.042423	.031878
%RSD	.6322901	.8410519	.6150842
#1	5.159213	5.079629	5.210808
#2	5.136147	5.055298	5.189237
#3	5.095168	4.997071	5.148064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5017.587	40075.28	2174.456	3547.337	5151.556
Stddev	16.067	311.93	16.135	27.525	17.495
%RSD	.3202146	.7783512	.7420367	.7759219	.3396011
#1	5012.125	40228.43	2157.500	3562.583	5145.551
#2	5035.673	39716.38	2176.249	3515.563	5171.262
#3	5004.963	40281.02	2189.621	3563.866	5137.854

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB04 Acquired: 6/25/2025 18:59:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010237**	**-.001215**	**.0008541**	**.0006186**	**-.003460**	**-.007652**
Stddev	.0056120	.000694	.0004279	.0002241	.002552	.038633
%RSD	548.2386	57.09619	50.09912	36.23203	73.74526	504.8598
#1	.0073929	-.000674	.0011984	.0003760	-.000758	-.018876
#2	-.001127	-.001998	.0003750	.0006617	-.005829	.035350
#3	-.003195	-.000975	.0009888	.0008180	-.003795	-.039431

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000430**	**-.000052**	**.0001251**	**-.024275**	**.0007894**	**.0000594**
Stddev	.000721	.000126	.0000181	.011987	.0015738	.0002683
%RSD	167.6048	242.6390	14.46495	49.37963	199.3670	451.6019
#1	-.000212	-.000138	.0001402	-.010434	-.000154	.0003672
#2	-.001235	.000093	.0001299	-.031219	.002606	-.000064
#3	.000156	-.000111	.0001050	-.031173	-.000084	-.000125

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000577**	**.0008978**	**.0008629**	**.0491862**	**.0003245**	**-.000633**
Stddev	.000939	.0214200	.0010070	.0237143	.0006470	.000812
%RSD	162.7665	2385.897	116.7061	48.21345	199.3694	128.2265
#1	-.001408	-.023748	.0011490	.0219109	.0001014	.000195
#2	.000442	.015020	-.000256	.0607222	-.000181	-.001428
#3	-.000765	.011422	.001696	.0649253	.001054	-.000667

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0426203**	**-.007823**	**-.001297**	**.0075601**	**.0011318**	**.0104960**
Stddev	.0013776	.005419	.000354	.0012517	.0004329	.0011060
%RSD	3.232338	69.26732	27.26653	16.55662	38.24467	10.53692
#1	.0421523	-.012615	-.000920	.0088841	.0016198	.0117491
#2	.0441709	-.008912	-.001349	.0074003	.0009817	.0096563
#3	.0415376	-.001943	-.001621	.0063960	.0007941	.0100826

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB04 Acquired: 6/25/2025 18:59:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003859	.0008977	.0046722	-.001197	-.000730	F -.017316
Stddev	.0003874	.0000510	.0012481	.000319	.001242	.002249
%RSD	100.3853	5.684009	26.71359	26.69217	170.0950	12.98948
#1	.0008257	.0009526	.0048054	-.001452	-.001448	-.014744
#2	.0000954	.0008517	.0033629	-.000839	-.001446	-.018288
#3	.0002365	.0008888	.0058484	-.001300	.000704	-.018915

Elem	Sr4077
Units	ppm
Avg	.0001388
Stddev	.0001739
%RSD	125.2631
#1	.0002460
#2	.0002322
#3	-.000062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5158.497	41568.93	2185.961	3646.593	5818.191
Stddev	2.949	130.05	7.491	11.673	9.432
%RSD	.0571752	.3128650	.3426984	.3201134	.1621188
#1	5161.211	41639.17	2188.836	3643.598	5826.149
#2	5158.923	41418.86	2177.458	3636.709	5820.653
#3	5155.358	41648.77	2191.588	3659.472	5807.772

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2426-01 Acquired: 6/25/2025 19:04:23 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008840**	**-.002762**	**.0837008**	**-.015978**	**.0099436**	**5.117058**
Stddev	.002375	.002199	.0006512	.002033	.0028178	.066736
%RSD	26.87054	79.60389	.7780571	12.72503	28.33792	1.304185
#1	-.007559	-.005300	.0829489	-.015167	.0068247	5.160887
#2	-.007380	-.001545	.0840718	-.018291	.0107004	5.040253
#3	-.011581	-.001441	.0840819	-.014475	.0123057	5.150034

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1635395**	**.0003913**	**.0003046**	**84.90387**	**.0166246**	**.0211191**
Stddev	.0010266	.0000272	.0000867	.10804	.0004273	.0008449
%RSD	.6277133	6.961928	28.44694	.1272507	2.570517	4.000519
#1	.1645262	.0004012	.0002741	84.94727	.0171051	.0220888
#2	.1624773	.0003604	.0002373	84.78088	.0164814	.0207267
#3	.1636150	.0004121	.0004024	84.98346	.0162872	.0205417

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2353037**	**15.79872**	**.2732575**	**28.39236**	**.0157288**	**-.000182**
Stddev	.0098614	.11602	.0010293	.12131	.0006207	.000292
%RSD	4.190940	.7343866	.3766740	.4272786	3.946194	160.2506
#1	.2290140	15.92775	.2723878	28.53131	.0150431	.000153
#2	.2466691	15.70299	.2729909	28.33825	.0162524	-.000382
#3	.2302280	15.76541	.2743939	28.30751	.0158908	-.000318

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**153.3747**	**.0091089**	**.5539410**	**10.23824**	**2.003284**	**.0796655**
Stddev	22.4639	.0084501	.0021540	.55848	.040506	.0029828
%RSD	14.64643	92.76733	.3888424	5.454818	2.021979	3.744200
#1	140.6101	-.000235	.5562355	10.04062	1.956546	.0784998
#2	179.3127	.016215	.5536250	10.86866	2.028200	.0830551
#3	140.2013	.011347	.5519625	9.80544	2.025105	.0774415

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2426-01 Acquired: 6/25/2025 19:04:23 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056929	7.845767	F 22.01097	.0239421	.2483649	-.021846
Stddev	.0005490	.141246	.83060	.0004226	.0098086	.007420
%RSD	9.643653	1.800285	3.773587	1.765265	3.949264	33.96744
#1	.0062822	7.682833	21.67894	.0244153	.2579306	-.029291
#2	.0056007	7.933532	22.95623	.0238088	.2383302	-.014451
#3	.0051959	7.920937	21.39775	.0236022	.2488339	-.021795

Elem	Sr4077
Units	ppm
Avg	.3168068
Stddev	.0009131
%RSD	.2882155
#1	.3178144
#2	.3160342
#3	.3165717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4851.622	40906.46	2193.619	3633.507	4952.921
Stddev	31.090	80.84	91.856	18.222	34.052
%RSD	.6408220	.1976229	4.187410	.5015017	.6875202
#1	4870.559	40995.42	2249.472	3649.799	4969.172
#2	4815.741	40837.49	2087.604	3613.830	4913.788
#3	4868.567	40886.47	2243.781	3636.892	4975.804

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2426-02 Acquired: 6/25/2025 19:09:00 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006510**	**-.002999**	**.1057412**	**-.021132**	**.0127283**	**6.742347**
Stddev	.001788	.001844	.0033802	.000699	.0004107	.028239
%RSD	27.46306	61.47126	3.196695	3.305728	3.226516	.4188298
#1	-.008331	-.005120	.1096144	-.021840	.0123850	6.759489
#2	-.006442	-.002094	.1042229	-.020443	.0131832	6.757798
#3	-.004757	-.001783	.1033864	-.021113	.0126165	6.709755

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1997345**	**.0005399**	**.0002956**	**101.1236**	**.0232414**	**.0235818**
Stddev	.0005196	.0001391	.0000706	.2416	.0003168	.0006130
%RSD	.2601337	25.76368	23.89458	.2389342	1.363074	2.599415
#1	.1991878	.0006823	.0003078	101.1249	.0235844	.0242862
#2	.1997938	.0005331	.0003593	101.3645	.0229598	.0232901
#3	.2002219	.0004043	.0002197	100.8813	.0231799	.0231692

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2503292**	**20.93206**	**.4088437**	**31.83254**	**.0185281**	**.0004013**
Stddev	.0058188	.07096	.0003693	.06511	.0002029	.0007912
%RSD	2.324452	.3390053	.0903254	.2045449	1.094817	197.1436
#1	.2460884	21.01002	.4090078	31.75888	.0187233	.0005273
#2	.2479364	20.87124	.4084208	31.88242	.0185426	-.000445
#3	.2569629	20.91492	.4091025	31.85632	.0183184	.001122

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**152.9420**	**.0027476**	**.7079807**	**12.04223**	**2.615750**	**.0831295**
Stddev	10.0157	.0095406	.0010909	.48644	.073139	.0018732
%RSD	6.548665	347.2407	.1540906	4.039474	2.796105	2.253334
#1	163.2767	.0122492	.7088085	11.83268	2.700204	.0821105
#2	143.2792	-.006832	.7083892	11.69568	2.573712	.0819868
#3	152.2701	.002825	.7067445	12.59833	2.573335	.0852913

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2426-02 Acquired: 6/25/2025 19:09:00 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069377	8.394744	F 25.17073	.0103165	.3191503	-.019835
Stddev	.0004286	.227797	.63680	.0004929	.0036291	.002112
%RSD	6.178459	2.713566	2.529920	4.778137	1.137126	10.64774
#1	.0064428	8.657708	24.69676	.0101566	.3176194	-.018329
#2	.0071937	8.268627	24.92086	.0108695	.3232940	-.022249
#3	.0071765	8.257897	25.89457	.0099233	.3165374	-.018926

Elem	Sr4077
Units	ppm
Avg	.3599910
Stddev	.0010471
%RSD	.2908717
#1	.3608779
#2	.3602593
#3	.3588359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5099.301	40891.93	2232.852	3628.350	5171.979
Stddev	35.619	228.52	35.192	26.317	66.091
%RSD	.6985034	.5588334	1.576103	.7253189	1.277868
#1	5059.279	40788.39	2261.877	3617.073	5096.633
#2	5111.105	40733.51	2242.969	3609.551	5199.150
#3	5127.520	41153.89	2193.709	3658.427	5220.153

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2388-04 Acquired: 6/25/2025 19:13:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.015297**	**.0039013**	**.0083395**	**-.028598**	**.0123578**	**-.001490**	**.6499696**
Stddev	.002058	.0018203	.0005908	.002577	.0028200	.028395	.0065109
%RSD	13.45298	46.65767	7.084819	9.011088	22.81954	1905.534	1.001716
#1	-.017080	.0040513	.0076730	-.031570	.0153707	.025135	.6560701
#2	-.013045	.0056419	.0087989	-.027246	.0097817	.001768	.6431142
#3	-.015767	.0020107	.0085467	-.026979	.0119208	-.031373	.6507244

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000613**	**.0005610**	**201.2886**	**.0027966**	**.0248284**	**.0025401**	**.0613424**
Stddev	.000071	.0000307	2.4658	.0000558	.0001368	.0015857	.0176340
%RSD	11.63381	5.465765	1.225016	1.994721	.5510555	62.42736	28.74689
#1	-.000614	.0005280	202.9593	.0028406	.0249725	.0018172	.0559383
#2	-.000684	.0005662	198.4565	.0027339	.0247002	.0043584	.0810461
#3	-.000541	.0005887	202.4499	.0028155	.0248125	.0014446	.0470428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.884968**	**2.391634**	**.0042350**	**-.000149**	**349.8114**	**-.010755**	**.0413056**
Stddev	.043458	.014549	.0007505	.000667	31.0451	.002004	.0007337
%RSD	1.118619	.6083458	17.72083	447.5234	8.874818	18.63327	1.776305
#1	3.917531	2.400603	.0042464	.000494	333.6948	-.008552	.0404640
#2	3.835621	2.399451	.0049798	-.000838	385.6004	-.012469	.0418108
#3	3.901753	2.374846	.0034789	-.000103	330.1391	-.011246	.0416419

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.666626**	**.0038587**	**.0080728**	**.0029079**	**.5705481**	**.8484916**	**.0060928**
Stddev	.140519	.0033054	.0024805	.0002207	.0061602	.0713356	.0007196
%RSD	8.431353	85.66074	30.72652	7.590594	1.079705	8.407340	11.81096
#1	1.608806	.0029073	.0054515	.0028989	.5653478	.8405826	.0055460
#2	1.826831	.0075355	.0103832	.0026918	.5689452	.9234520	.0069080
#3	1.564242	.0011334	.0083837	.0031329	.5773514	.7814401	.0058242

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2388-04 Acquired: 6/25/2025 19:13:36 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.003409**	**-.031873**	**.1982643**
Stddev	.001843	.002660	.0023497
%RSD	54.07707	8.346162	1.185156
#1	-.003991	-.031087	.1997694
#2	-.001345	-.034838	.1955567
#3	-.004891	-.029695	.1994669

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5026.620**	**39764.76**	**2145.943**	**3543.924**	**4952.370**
Stddev	62.087	615.51	172.722	58.774	58.901
%RSD	1.235156	1.547889	8.048791	1.658455	1.189354
#1	5051.682	40220.13	2236.037	3590.078	4980.039
#2	5072.258	40009.65	1946.800	3563.938	4992.341
#3	4955.920	39064.49	2254.991	3477.757	4884.728

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2389-04 Acquired: 6/25/2025 19:18:08 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003437	k -.001641	.0006092	-.003104	k .0009328	.1550772	.2882491
Stddev	.001874	.001681	.0014365	.003673	.0005735	.0165392	.0022413
%RSD	54.52268	102.4635	235.7895	118.3334	61.48419	10.66512	.7775466
#1	-.004205	k -.000756	.0022516	.000848	k .0009707	.1360597	.2897323
#2	-.004805	-.000587	-.000011	-.003748	.0003412	.1661011	.2893441
#3	-.001301	-.003580	-.000413	-.006412	.0014864	.1630708	.2856708

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006707	.0000411	8.089010	s .0005978	.0043832	.0137868	.0150580
Stddev	.0000595	.0001047	.036423	.0003108	.0002181	.0043022	.0074228
%RSD	8.863977	254.5755	.4502769	51.98537	4.974847	31.20552	49.29482
#1	.0007366	-.000061	8.127556	s .0008174	.0043074	.0187331	.0153282
#2	.0006211	.000148	8.055166	.0007338	.0042132	.0117129	.0223420
#3	.0006543	.000036	8.084309	.0002422	.0046291	.0109143	.0075038

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2129342	3.468252	.0031634	s .0005296	368.8406	k -.007993	.0880281
Stddev	.0007631	.057041	.0007625	.0007836	69.9885	.003006	.0001048
%RSD	.3583616	1.644666	24.10264	147.9491	18.97528	37.60901	.1190066
#1	.2137413	3.435726	.0026229	s -.000084	449.6536	k -.009043	.0880453
#2	.2122245	3.534116	.0028319	.000261	329.0141	-.004603	.0881232
#3	.2128369	3.434914	.0040356	.001412	327.8540	-.010333	.0879158

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.357446	.0110869	k .0293108	.0006953	.9626745	1.321165	-.000531
Stddev	.339724	.0023379	.0053382	.0003361	.0316121	.210542	.000997
%RSD	14.41066	21.08680	18.21250	48.33763	3.283780	15.93609	187.6828
#1	2.736054	.0112466	k .0353747	.0008310	.9991482	1.563861	-.001462
#2	2.257048	.0133408	.0253204	.0009423	.9431812	1.212147	.000521
#3	2.079237	.0086733	.0272373	.0003126	.9456941	1.187488	-.000653

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2389-04 Acquired: 6/25/2025 19:18:08 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0014103	-.029506	.0509471
Stddev	.0059598	.004590	.0004291
%RSD	422.5994	15.55707	.8422619
#1	.0082921	-.034744	.0504621
#2	-.002024	-.026188	.0512773
#3	-.002037	-.027585	.0511020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5027.535	^ *****	2115.701	3626.572	5079.872
Stddev	228.904	-----	304.796	16.704	232.898
%RSD	4.553011	-----	14.40640	.4606136	4.584728
#1	4763.331	^ -----	1764.261	3617.215	4810.987
#2	5152.972	40396.88	2275.048	3645.858	5218.458
#3	5166.302	40398.60	2307.794	3616.644	5210.172

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2391-04 Acquired: 6/25/2025 19:22:42 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068805**	**.0039271**	**.0097520**	**-.031195**	**.0672873**	**-.003440**
Stddev	.0025045	.0013625	.0013299	.001274	.0013395	.026844
%RSD	36.40037	34.69393	13.63767	4.085069	1.990789	780.4013
#1	.0074122	.0023778	.0106396	-.030260	.0678194	.022911
#2	.0041528	.0044651	.0103935	-.032646	.0682791	-.002479
#3	.0090764	.0049384	.0082229	-.030678	.0657635	-.030751

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0657584**	**-.000021**	**.0010056**	^ *****	**.0027381**	**.0302485**
Stddev	.0009957	.000151	.0000861	-----	.0008622	.0005359
%RSD	1.514220	725.7560	8.561656	-----	31.48758	1.771556
#1	.0647989	.000114	.0011026	^ -----	.0019050	.0306727
#2	.0667868	-.000184	.0009384	175.6702	.0026828	.0304267
#3	.0656893	.000007	.0009757	175.4183	.0036266	.0296463

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1058732**	**1.083018**	**.1274931**	**8.333586**	**.0081745**	**.0008378**
Stddev	.0033677	.007908	.0018083	.083986	.0007522	.0013173
%RSD	3.180877	.7301711	1.418344	1.007797	9.202221	157.2379
#1	.1096546	1.073939	.1262587	8.262511	.0086524	-.000617
#2	.1047677	1.086712	.1295688	8.426263	.0085636	.001179
#3	.1031971	1.088403	.1266519	8.311986	.0073074	.001951

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**479.1332**	**-.010597**	**.0473831**	**16.88395**	**.0245497**	F **81.66031**
Stddev	127.7621	.007658	.0002511	.30470	.0011900	.93414
%RSD	26.66526	72.26256	.5298266	1.804691	4.847362	1.143934
#1	331.6155	-.009524	.0473539	17.23335	.0234996	82.68052
#2	551.4558	-.003533	.0476474	16.67338	.0243072	80.84691
#3	554.3282	-.018735	.0471479	16.74514	.0258423	81.45350

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2391-04 Acquired: 6/25/2025 19:22:42 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0468006	F 33.39742	1.694020	.0057546	-.001755	-.005793
Stddev	.0007881	.69470	.020552	.0011464	.001914	.000809
%RSD	1.683864	2.080113	1.213186	19.92070	109.0155	13.96753
#1	.0462335	33.00535	1.717452	.0070179	-.003955	-.004861
#2	.0464678	34.19952	1.685551	.0047806	-.000834	-.006205
#3	.0477005	32.98738	1.679055	.0054653	-.000477	-.006313

Elem	Sr4077
Units	ppm
Avg	^ *****
Stddev	-----
%RSD	-----
#1	^ -----
#2	.5192567
#3	.5174158

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4691.092	37244.14	2159.309	3359.337	4686.359
Stddev	133.644	243.75	39.007	1.008	134.744
%RSD	2.848887	.6544589	1.806469	.0299927	2.875246
#1	4760.104	37319.02	2114.725	3358.885	4757.263
#2	4537.050	37441.66	2187.150	3360.491	4530.968
#3	4776.120	36971.73	2176.050	3358.634	4770.847

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2394-04 Acquired: 6/25/2025 19:29:56 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003220	k -.002307	k .0026766	s -.001335	s .0004620	k .2872437	.3128987
Stddev	.004711	.001664	.0014649	.002164	.0034023	.0053143	.0063290
%RSD	146.2840	72.14235	54.72940	162.0534	736.4933	1.850094	2.022695
#1	-.005601	-.002510	.0041287	-.003770	-.001121	.2847592	.3102677
#2	-.006266	k -.000550	k .0011993	s -.000603	s .004367	k .2933451	.3083095
#3	.002206	-.003860	.0027019	.000367	-.001861	.2836266	.3201188

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0006107	.0001468	5.448673	.0000799	k .0137262	k .0115091	.1746361
Stddev	.0001798	.0000569	.049344	.0002778	.0001218	.0029380	.0081398
%RSD	29.44215	38.74673	.9056195	347.5285	.8872225	25.52791	4.661025
#1	.0007582	.0001763	5.392175	.0000418	.0138463	.0148872	.1836092
#2	k .0004104	.0001830	5.483313	.0003748	k .0136028	k .0095499	.1677270
#3	.0006634	.0000813	5.470529	-.000177	.0137295	.0100901	.1725720

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5134361	4.002662	.0056241	k .0005704	355.4339	k .0010951	.1024770
Stddev	.0009459	.023847	.0000772	.0002087	48.8681	.0085469	.0012199
%RSD	.1842204	.5957847	1.373234	36.59579	13.74885	780.5026	1.190412
#1	.5123978	4.020922	.0056585	.0003609	411.8598	-.001229	.1023181
#2	.5136618	3.975682	.0055356	k .0005719	326.8037	k -.006049	.1013444
#3	.5142486	4.011383	.0056781	.0007784	327.6382	.010564	.1037686

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6292478	k .0089154	k .2168357	s .0005860	k .5293469	k .6410875	.0006900
Stddev	.0923511	.0013925	.0366473	.0006882	.0133055	.0899150	.0008256
%RSD	14.67643	15.61950	16.90094	117.4442	2.513579	14.02539	119.6477
#1	.7357617	.0084173	.2591239	.0004571	.5151114	.7446315	.0012532
#2	.5715396	k .0104885	k .1943491	s .0013295	k .5314598	k .5827051	-.000258
#3	.5804420	.0078405	.1970342	-.000029	.5414696	.5959260	.001075

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2394-04 Acquired: 6/25/2025 19:29:56 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0043267	-.026893	.0474239
Stddev	.0044479	.002908	.0000654
%RSD	102.7991	10.81418	.1378494
#1	-.000344	-.026004	.0473488
#2	.008511	-.024532	.0474547
#3	.004813	-.030141	.0474682

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	40486.19	2112.632	3629.441	5016.802
Stddev	-----	148.23	278.848	10.469	146.896
%RSD	-----	.3661343	13.19907	.2884437	2.928087
#1	5118.667	40324.66	1791.670	3618.274	5181.378
#2	^ -----	40517.91	2295.324	3631.016	4970.075
#3	4853.141	40615.99	2250.903	3639.034	4898.952

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2399-04 Acquired: 6/25/2025 19:34:27 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.017754**	**-.001648**	**.0108166**	**-.026148**	**.0070322**	**.2088446**	**.3347595**
Stddev	.003520	.003769	.0005457	.003344	.0021263	.0073189	.0008421
%RSD	19.82488	228.7034	5.044889	12.78974	30.23648	3.504484	.2515595
#1	-.014241	-.000920	.0106247	-.025365	.0058631	.2100850	.3357303
#2	-.021280	.001704	.0103927	-.029815	.0094865	.2154641	.3342265
#3	-.017742	-.005728	.0114323	-.023265	.0057470	.2009847	.3343217

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002839**	**.0001718**	**91.76576**	**.0083178**	**.0178863**	**.0125078**	**.1256021**
Stddev	.0001751	.0000909	.40597	.0005868	.0007893	.0015720	.0049296
%RSD	61.65672	52.90706	.4423950	7.054218	4.412978	12.56797	3.924732
#1	.0001609	.0002174	92.19176	.0077169	.0182599	.0134539	.1273004
#2	.0002066	.0002309	91.72217	.0083473	.0184195	.0106932	.1294580
#3	.0004844	.0000672	91.38335	.0088894	.0169795	.0133763	.1200479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1745937**	**11.01608**	**.0100876**	**-.000271**	**365.7987**	**.0009331**	**.1117378**
Stddev	.0016459	.03095	.0002382	.001570	154.8643	.0099013	.0021306
%RSD	.9427201	.2809162	2.361755	579.6497	42.33593	1061.103	1.906803
#1	.1739353	11.04942	.0098427	.001541	410.4465	.0121902	.1108414
#2	.1733789	11.01055	.0101016	-.001127	193.5153	-.002965	.1102019
#3	.1764669	10.98827	.0103185	-.001226	493.4345	-.006426	.1141702

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0167913**	**.1479287**	**.0030135**	**1.553584**	**2.203699**	**.0039198**
Stddev	-----	.0010292	.0130652	.0002744	.017646	.175606	.0012504
%RSD	-----	6.129287	8.832122	9.105304	1.135857	7.968685	31.89876
#1	2.347795	.0177379	.1582407	.0027398	1.566498	2.289394	.0051720
#2	2.038226	.0156957	.1332361	.0032886	1.560777	2.001699	.0026713
#3	^ -----	.0169403	.1523093	.0030119	1.533477	2.320005	.0039162

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2399-04 Acquired: 6/25/2025 19:34:27 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0063794	-.029505	.5374349
Stddev	.0035823	.005602	.0024098
%RSD	56.15422	18.98809	.4483945
#1	.0103131	-.030715	.5398626
#2	.0033045	-.034403	.5373986
#3	.0055208	-.023396	.5350434

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4708.007	37260.66	2016.146	3372.070	4667.533
Stddev	18.820	4524.04	305.675	343.913	16.932
%RSD	.3997515	12.14160	15.16135	10.19887	.3627645
#1	4729.310	40114.47	2035.067	3595.717	4680.642
#2	4693.633	39623.05	2311.920	3544.435	4648.416
#3	4701.079	32044.45	1701.450	2976.059	4673.540

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2399-08 Acquired: 6/25/2025 19:39:01 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.016907**	**-.002438**	**.0072604**	**-.017745**	**.0038715**	**.1012291**	**.2939415**
Stddev	.001141	.002234	.0020522	.001974	.0018266	.0148276	.0013974
%RSD	6.748716	91.60432	28.26560	11.12535	47.18042	14.64753	.4753895
#1	-.015790	-.001514	.0070685	-.018971	.0028454	.1140904	.2923881
#2	-.016861	-.000816	.0053109	-.018797	.0059804	.0850109	.2950962
#3	-.018071	-.004986	.0094018	-.015468	.0027887	.1045858	.2943402

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002942**	**.0002827**	**51.87294**	**.0005837**	**.0146362**	**.0458685**	**.0387392**
Stddev	.0003193	.0000467	.29582	.0010468	.0003981	.0093081	.0206649
%RSD	108.5265	16.50139	.5702741	179.3315	2.719921	20.29296	53.34364
#1	.0000624	.0003290	52.21173	-.000578	.0142447	.0403715	.0178862
#2	.0006584	.0002357	51.74135	.001453	.0150406	.0566156	.0391206
#3	.0001619	.0002833	51.66575	.000877	.0146232	.0406184	.0592108

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1717009**	**13.21298**	**.0032240**	**-.000684**	**426.8182**	**-.001918**	**.1006326**
Stddev	.0010124	.04293	.0002064	.001213	75.4813	.010971	.0005708
%RSD	.5896395	.3249197	6.402760	177.1682	17.68464	571.8821	.5671948
#1	.1728697	13.24676	.0030400	-.002020	373.9289	-.007231	.1011109
#2	.1711389	13.16467	.0034472	.000347	513.2584	.010698	.1007861
#3	.1710942	13.22752	.0031850	-.000381	393.2673	-.009222	.1000008

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.170668**	**.0346098**	**.1088925**	**.0017326**	**.6866513**	**1.582426**	**.0026378**
Stddev	.201121	.0023659	.0190571	.0003713	.0024500	.278035	.0008601
%RSD	17.18004	6.835775	17.50087	21.43125	.3568090	17.57018	32.60738
#1	1.054386	.0363478	.1001138	.0017813	.6845609	1.423454	.0023657
#2	1.402903	.0355660	.1307569	.0020771	.6893474	1.903469	.0036011
#3	1.054715	.0319155	.0958069	.0013393	.6860456	1.420356	.0019467

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2399-08 Acquired: 6/25/2025 19:39:01 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001578**	**-.026749**	**.1988241**
Stddev	.002735	.006900	.0008374
%RSD	173.2859	25.79660	.4211951
#1	.001098	-.020297	.1997257
#2	-.004369	-.034024	.1980705
#3	-.001464	-.025926	.1986760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4822.660**	**40480.20**	**2109.592**	**3615.805**	**4800.735**
Stddev	29.363	318.13	332.259	34.045	24.697
%RSD	.6088606	.7858782	15.74990	.9415586	.5144434
#1	4825.413	40152.90	2279.389	3588.995	4800.070
#2	4850.550	40499.41	1726.746	3604.310	4825.758
#3	4792.017	40788.28	2322.641	3654.109	4776.378

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2405-04 Acquired: 6/25/2025 19:43:33 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005997**	**-.002509**	**.0034386**	**-.001237**	**.0001355**	**.0725632**	**.3617854**
Stddev	.003731	.001388	.0006421	.001781	.0013771	.0291362	.0022013
%RSD	62.22172	55.33433	18.67381	143.9633	1016.124	40.15282	.6084468
#1	-.010125	-.003847	.0027515	-.000969	-.001147	.1061802	.3613311
#2	-.005000	-.001075	.0040235	.000395	-.000038	.0545968	.3598466
#3	-.002865	-.002606	.0035407	-.003137	.001591	.0569127	.3641783

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003090**	**.0001452**	**5.930000**	**.0000658**	**.0043801**	**.0181134**	**-.004095**
Stddev	.0001093	.0001258	.024511	.0004219	.0000449	.0003729	.014917
%RSD	35.37569	86.62832	.4133438	641.4820	1.024908	2.058781	364.2498
#1	.0004352	.0001667	5.911152	.0001847	.0043307	.0177474	-.010581
#2	.0002508	.0000100	5.921138	-.000403	.0043914	.0181000	.012967
#3	.0002412	.0002588	5.957710	.000415	.0044183	.0184929	-.014671

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0505164**	**1.121696**	**.0010982**	**.0003924**	**354.2645**	**-.002169**	**.0861525**
Stddev	.0007520	.019680	.0002046	.0005771	6.6493	.012417	.0006640
%RSD	1.488601	1.754501	18.62781	147.0850	1.876935	572.3968	.7707540
#1	.0511532	1.101734	.0013293	.0004264	346.6161	.007575	.0854406
#2	.0496868	1.122272	.0010253	-.000201	357.5062	-.016150	.0862619
#3	.0507094	1.141082	.0009401	.000952	358.6713	.002067	.0867551

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.597882**	**.0138479**	**.0728512**	**.0005959**	**.7618521**	**.6442283**	**-.001373**
Stddev	.036542	.0007811	.0017180	.0000991	.0047366	.0155049	.001671
%RSD	2.286886	5.640667	2.358204	16.62716	.6217194	2.406733	121.7517
#1	1.570930	.0137784	.0730815	.0004950	.7669541	.6323071	-.001321
#2	1.583243	.0131039	.0710297	.0006930	.7610075	.6386210	.000272
#3	1.639474	.0146614	.0744424	.0005998	.7575946	.6617567	-.003070

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2405-04 Acquired: 6/25/2025 19:43:33 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001292**	**-.036966**	**.0369922**
Stddev	.003284	.001176	.0005055
%RSD	254.0890	3.181251	1.366592
#1	-.003925	-.037220	.0367566
#2	-.002340	-.037994	.0366475
#3	.002387	-.035683	.0375726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5145.892**	**40156.98**	**2278.844**	**3600.564**	**5233.929**
Stddev	19.809	152.13	28.706	19.875	23.204
%RSD	.3849468	.3788361	1.259692	.5519992	.4433376
#1	5123.551	39996.66	2300.318	3583.475	5207.138
#2	5161.312	40174.95	2289.976	3595.843	5246.976
#3	5152.812	40299.32	2246.239	3622.375	5247.672

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168571TB Acquired: 6/25/2025 19:48:09 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001172**	**-.002218**	**.0007303**	**.0038646**	**-.001765**	**-.020975**	**-.001510**
Stddev	.003095	.000407	.0006955	.0036177	.001956	.024902	.000955
%RSD	264.1100	18.34123	95.22910	93.61107	110.8351	118.7259	63.23904
#1	.001302	-.002235	.0008874	.0034796	-.002297	-.022124	-.000459
#2	-.000175	-.001802	-.000030	.0004548	.000402	.004483	-.002325
#3	-.004643	-.002615	.001334	.0076594	-.003400	-.045283	-.001745

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000137**	**-.000077**	**-.036302**	**.0003777**	**.0001850**	**.0000912**	**-.000761**
Stddev	.000034	.000046	.020594	.0019715	.0003297	.0006425	.006492
%RSD	25.03747	60.24101	56.72852	521.9678	178.1778	704.7127	852.6874
#1	-.000176	-.000031	-.026269	.0026425	.0004497	-.000641	-.000962
#2	-.000123	-.000123	-.022648	-.000554	-.000184	.000561	-.007151
#3	-.000112	-.000076	-.059990	-.000955	.000290	.000354	.005828

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078995**	**.0253936**	**.0006680**	**.0010139**	**264.7887**	**-.007653**	**.0003148**
Stddev	.0013965	.0442198	.0004045	.0011597	.6184	.009710	.0005695
%RSD	17.67849	174.1379	60.55636	114.3862	.2335508	126.8814	180.9219
#1	.0089782	.0709630	.0009153	-.000058	264.8610	.001672	-.000027
#2	.0063221	-.017340	.0002012	.000855	264.1374	-.006924	-.000001
#3	.0083982	.022558	.0008876	.002245	265.3679	-.017706	.000972

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0692028**	**.0004101**	**.0264736**	**.0001321**	**.0486926**	**-.000087**	**-.001264**
Stddev	.0021141	.0013758	.0006193	.0003156	.0018753	.001471	.000852
%RSD	3.054946	335.5298	2.339517	238.9596	3.851390	1688.262	67.40385
#1	.0704652	.0019894	.0259281	.0001296	.0486330	-.001600	-.001568
#2	.0703810	-.000231	.0271469	.0004490	.0468478	.001337	-.001923
#3	.0667621	-.000529	.0263458	-.000182	.0505970	.000002	-.000302

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168571TB Acquired: 6/25/2025 19:48:09 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000032	-.029015	-.000123
Stddev	.001277	.000734	.000088
%RSD	4049.978	2.529340	71.09799
#1	-.000643	-.029840	-.000126
#2	.001436	-.028433	-.000210
#3	-.000888	-.028772	-.000035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5175.015	40948.85	2275.131	3649.310	5333.865
Stddev	3.506	19.52	2.658	17.689	4.647
%RSD	.0677534	.0476603	.1168493	.4847339	.0871218
#1	5175.939	40930.36	2272.091	3629.936	5328.648
#2	5177.966	40946.92	2276.285	3664.602	5337.559
#3	5171.139	40969.25	2277.018	3653.392	5335.390

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV05 Acquired: 6/25/2025 19:52:47 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.065220**	**5.063290**	**5.077366**	**5.121326**	**5.148134**	**10.30761**	**10.31725**
Stddev	.034188	.015271	.023297	.036894	.019547	.04812	.02955
%RSD	.6749548	.3016020	.4588393	.7203966	.3796815	.4668593	.2863736
#1	5.044494	5.061399	5.076667	5.113006	5.135387	10.27443	10.30208
#2	5.046486	5.049053	5.054427	5.089304	5.138377	10.28560	10.29837
#3	5.104680	5.079418	5.101005	5.161670	5.170638	10.36280	10.35130

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2708961**	**2.547436**	**25.75949**	**1.045538**	**2.544470**	**1.342510**	**5.121733**
Stddev	.0020415	.011829	.11543	.003779	.009869	.012092	.042978
%RSD	.7536204	.4643478	.4481140	.3614232	.3878439	.9006682	.8391211
#1	.2688440	2.545079	25.72497	1.049827	2.541540	1.331144	5.072637
#2	.2729269	2.536963	25.66526	1.042700	2.536399	1.355215	5.152549
#3	.2709175	2.560266	25.88825	1.044087	2.555472	1.341172	5.140012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.557553**	**25.61063**	**2.532840**	**1.286669**	**26.11757**	**2.565474**	**2.569738**
Stddev	.012478	.14650	.011620	.008281	.23410	.014248	.005401
%RSD	.4878900	.5720114	.4587867	.6436232	.8963493	.5553837	.2101643
#1	2.549844	25.44943	2.533016	1.295308	25.92897	2.556426	2.572656
#2	2.550865	25.64683	2.521133	1.278799	26.37959	2.558098	2.573052
#3	2.571949	25.73564	2.544372	1.285900	26.04416	2.581898	2.563506

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.57218**	**5.153556**	**5.353887**	**5.139474**	**5.136031**	**5.321567**	**5.107918**
Stddev	.03029	.025489	.061968	.020768	.024258	.064743	.019727
%RSD	.1184675	.4945890	1.157445	.4040951	.4723117	1.216619	.3861952
#1	25.54220	5.151305	5.296767	5.131987	5.143880	5.257099	5.102477
#2	25.57156	5.129268	5.419770	5.123487	5.108820	5.386582	5.091483
#3	25.60278	5.180096	5.345123	5.162947	5.155393	5.321018	5.129794

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV05 Acquired: 6/25/2025 19:52:47 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.190163	5.280307	5.242984
Stddev	.024755	.007870	.019245
%RSD	.4769566	.1490531	.3670636
#1	5.165341	5.289351	5.234114
#2	5.190299	5.276553	5.229774
#3	5.214850	5.275016	5.265065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5065.907	40909.89	2206.804	3614.378	5203.005
Stddev	5.084	305.56	14.557	24.737	3.384
%RSD	.1003603	.7469105	.6596382	.6844091	.0650461
#1	5066.797	40733.17	2223.603	3593.321	5201.869
#2	5060.436	41262.72	2198.890	3641.621	5200.335
#3	5070.487	40733.78	2197.917	3608.190	5206.812

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB05 Acquired: 6/25/2025 19:57:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000878**	**-.000035**	**.0005948**	**.0002870**	**-.001956**	**-.018647**
Stddev	.002727	.001327	.0009674	.0011418	.002875	.005568
%RSD	310.4606	3765.099	162.6295	397.8496	146.9802	29.86032
#1	-.000723	-.000251	.0017096	.0004713	.001091	-.019728
#2	.001768	-.001241	.0000984	-.000936	-.002339	-.012618
#3	-.003679	.001386	-.000024	.001325	-.004620	-.023595

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001283**	**-.000005**	**.0000336**	**-.018526**	**-.000291**	**.0001590**
Stddev	.000982	.000201	.0000411	.013871	.000455	.0003481
%RSD	76.54157	3872.305	122.2062	74.87201	156.0608	218.8655
#1	-.002310	-.000119	.0000783	-.010302	.000143	.0002435
#2	-.000354	-.000123	-.000003	-.034541	-.000764	-.000224
#3	-.001185	.000226	.000025	-.010736	-.000253	.000457

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000054**	**-.002585**	**.0010292**	**.0205680**	**.0001040**	**.0002132**
Stddev	.000838	.024858	.0005670	.0526728	.0001439	.0004834
%RSD	1543.686	961.4824	55.09509	256.0910	138.4735	226.7515
#1	-.000346	-.029989	.0016731	-.006784	.0002010	.0001134
#2	.000891	.003717	.0008098	-.012802	-.000061	-.000213
#3	-.000708	.018515	.0006046	.081290	.000172	.000739

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0850778**	**-.007028**	**-.001003**	**.0073181**	**.0000788**	**.0319058**
Stddev	.0194360	.004757	.000093	.0008023	.0008965	.0001105
%RSD	22.84502	67.68978	9.258595	10.96385	1137.427	.3461985
#1	.0996825	-.012426	-.000957	.0067550	.0011097	.0320238
#2	.0925329	-.003449	-.001109	.0069626	-.000355	.0318889
#3	.0630178	-.005208	-.000941	.0082368	-.000518	.0318048

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB05 Acquired: 6/25/2025 19:57:04 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**-.000859**	**.0041074**	**-.001159**	**-.001006**	F **.0164261**
Stddev	.000052	.001343	.0013384	.000676	.001450	.0040745
%RSD	62.48475	156.2937	32.58543	58.28435	144.0988	24.80519
#1	-.000028	-.001869	.0049072	-.001897	-.002518	.0210368
#2	-.000091	.000665	.0025622	-.001009	.000372	.0149321
#3	-.000132	-.001374	.0048526	-.000571	-.000872	.0133095

Elem	Sr4077
Units	ppm
Avg	**.0001409**
Stddev	.0000552
%RSD	39.16020
#1	.0001398
#2	.0001967
#3	.0000863

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5414.496**	**43757.69**	**2308.243**	**3844.992**	**6083.921**
Stddev	11.607	160.71	20.532	15.499	10.879
%RSD	.2143738	.3672745	.8895190	.4030910	.1788221
#1	5410.040	43796.12	2328.436	3837.827	6076.433
#2	5405.776	43895.70	2308.906	3862.777	6078.930
#3	5427.670	43581.25	2287.388	3834.372	6096.401

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168613BL Acquired: 6/25/2025 20:01:34 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000483**	**-.000487**	**.0009304**	**.0019702**	**-.002632**	**.0053239**	**-.001573**
Stddev	.001922	.000928	.0010264	.0020396	.002511	.0262040	.001019
%RSD	398.3222	190.5770	110.3253	103.5248	95.38786	492.1995	64.79910
#1	.001652	-.001402	.0019848	-.000153	-.002769	.0203472	-.002402
#2	-.001022	.000453	-.000066	.003915	-.000056	.0205581	-.000435
#3	-.002078	-.000511	.000872	.002149	-.005071	-.024934	-.001880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000082**	**.0000669**	**-.044312**	**-.001158**	**-.000089**	**-.000016**	**-.011930**
Stddev	.000057	.0000750	.022306	.001215	.000246	.000287	.016700
%RSD	69.67653	112.1508	50.33769	104.8809	277.4252	1773.277	139.9834
#1	-.000045	.0001501	-.018561	-.001986	-.000300	-.000343	-.030526
#2	-.000052	.0000045	-.056748	-.001725	-.000148	.000101	.001788
#3	-.000147	.0000460	-.057628	.000236	.000181	.000194	-.007052

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037966**	**.0400268**	**-.000132**	**.0013859**	**.0816868**	**-.010249**	**-.000375**
Stddev	.0006051	.0222331	.000349	.0003774	.0119451	.010840	.000460
%RSD	15.93711	55.54555	265.5003	27.23283	14.62302	105.7681	122.6747
#1	.0032860	.0487990	.000270	.0012634	.0883458	-.022382	.000094
#2	.0044649	.0565355	-.000369	.0010850	.0888181	-.006850	-.000394
#3	.0036389	.0147458	-.000296	.0018094	.0678965	-.001516	-.000825

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068015**	**.0013797**	**.0181627**	**-.000033**	**.0005665**	**.0075370**	**-.001642**
Stddev	.0005625	.0017746	.0007137	.000332	.0026435	.0017798	.000702
%RSD	8.269680	128.6272	3.929585	1006.741	466.6787	23.61365	42.73219
#1	.0071005	.0029527	.0186464	-.000257	.0021310	.0055133	-.001116
#2	.0071512	-.000544	.0184987	.000348	-.002486	.0088588	-.001371
#3	.0061526	.001730	.0173430	-.000189	.002054	.0082390	-.002439

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168613BL Acquired: 6/25/2025 20:01:34 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001334**	**-.006225**	**.0000652**
Stddev	.002329	.006217	.0002028
%RSD	174.5584	99.87077	311.0007
#1	-.000089	-.005700	.0001916
#2	.000108	-.000287	.0001727
#3	-.004021	-.012688	-.000169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5425.911**	**43663.44**	**2326.478**	**3826.780**	**6106.302**
Stddev	11.152	171.54	19.886	12.190	12.190
%RSD	.2055257	.3928760	.8547657	.3185388	.1996256
#1	5413.434	43861.35	2317.945	3833.508	6092.320
#2	5429.394	43557.32	2312.282	3812.708	6114.698
#3	5434.906	43571.65	2349.206	3834.122	6111.888

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168613BS Acquired: 6/25/2025 20:06:03 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7232583**	**1.962754**	**.9486105**	**1.971423**	**.7987644**	**1.988872**	**.1989380**
Stddev	.0035183	.002925	.0018918	.001115	.0034099	.030881	.0007149
%RSD	.4864472	.1490089	.1994234	.0565452	.4268917	1.552702	.3593443
#1	.7210879	1.960156	.9468206	1.970179	.8018196	2.009475	.1995705
#2	.7213694	1.965922	.9484212	1.971759	.7950858	1.953366	.1981624
#3	.7273176	1.962184	.9505898	1.972331	.7993878	2.003777	.1990812

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2181971**	**.1890265**	**1.014386**	**.4065894**	**.1933965**	**.3315136**	**3.150061**
Stddev	.0018001	.0001985	.006775	.0022568	.0004884	.0030474	.023248
%RSD	.8249828	.1049848	.6678507	.5550506	.2525280	.9192450	.7380281
#1	.2198657	.1887995	1.011832	.4090607	.1933700	.3337443	3.123216
#2	.2162894	.1891668	1.009261	.4060696	.1929219	.3280414	3.163504
#3	.2184361	.1891134	1.022067	.4046378	.1938976	.3327551	3.163462

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2081350**	**2.069299**	**.4825365**	**.0762803**	**2.931354**	**.2953789**	**.2059843**
Stddev	.0011580	.019309	.0005421	.0007006	.036650	.0057687	.0002137
%RSD	.5563692	.9331388	.1123514	.9184849	1.250278	1.952975	.1037611
#1	.2094708	2.056035	.4819105	.0765689	2.971708	.3015111	.2061906
#2	.2075192	2.091452	.4828476	.0754814	2.900136	.2900600	.2059984
#3	.2074151	2.060411	.4828515	.0767904	2.922219	.2945658	.2057638

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.449765**	**5.539167**	**.3204654**	**.3988428**	**.0011679**	**.9676541**	**.6690466**
Stddev	.083011	.003832	.0018509	.0003939	.0018774	.0103404	.0011347
%RSD	.9824036	.0691725	.5775612	.0987485	160.7488	1.068607	.1696003
#1	8.533127	5.535158	.3216145	.3983883	.0033238	.9735485	.6682169
#2	8.367110	5.542792	.3183303	.3990578	-.000107	.9557143	.6703396
#3	8.449057	5.539550	.3214514	.3990824	.000287	.9736994	.6685832

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: PB168613BS Acquired: 6/25/2025 20:06:03 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1977977	.1951461	.2044650
Stddev	.0030731	.0026960	.0004856
%RSD	1.553640	1.381539	.2374971
#1	.1975534	.1943676	.2049460
#2	.2009856	.1981458	.2039750
#3	.1948541	.1929251	.2044740

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5354.938	43084.81	2289.298	3791.204	5869.488
Stddev	5.640	74.27	13.054	9.134	4.408
%RSD	.1053215	.1723899	.5702030	.2409265	.0750946
#1	5360.195	43005.88	2278.876	3787.731	5873.568
#2	5348.981	43095.23	2303.939	3784.315	5864.813
#3	5355.637	43153.33	2285.079	3801.565	5870.082

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02 Acquired: 6/25/2025 20:10:24 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011700**	**-.001244**	**.0303441**	**-.009285**	**.0125145**	**.4112920**	**.1499915**
Stddev	.004572	.001246	.0019297	.003066	.0017050	.0242806	.0022793
%RSD	39.07543	100.1982	6.359257	33.01683	13.62427	5.903494	1.519621
#1	-.013398	-.001626	.0310421	-.012684	.0106410	.4356761	.1474569
#2	-.015181	-.002255	.0318277	-.008442	.0129274	.4110836	.1506450
#3	-.006522	.000149	.0281626	-.006729	.0139751	.3871162	.1518728

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000078**	**.0131912**	**34.14211**	**.0020254**	**.0123917**	**.0185621**	**.1843085**
Stddev	.0000311	.0001685	.20930	.0008280	.0002092	.0005023	.0005432
%RSD	397.6847	1.277423	.6130168	40.87933	1.688615	2.705821	.2947475
#1	-.000012	.0132307	33.90184	.0024917	.0124391	.0190245	.1837482
#2	.000044	.0130065	34.23972	.0010694	.0121628	.0180277	.1843446
#3	-.000008	.0133365	34.28477	.0025150	.0125732	.0186340	.1848329

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1012824**	**2.978351**	**.0025494**	**.0002450**	**394.0711**	**-.007308**	**.1129728**
Stddev	.0010991	.041533	.0002031	.0008963	3.5175	.000366	.0008103
%RSD	1.085146	1.394496	7.966194	365.9095	.8925942	5.009368	.7172212
#1	.1022142	2.930582	.0023151	.0011336	390.3735	-.007281	.1137796
#2	.1000703	3.005920	.0026745	.0002602	397.3754	-.007686	.1121591
#3	.1015626	2.998552	.0026588	-.000659	394.4644	-.006955	.1129796

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.272856**	**.1385323**	**.0295691**	**.0018631**	**1.562598**	**1.584455**	**.0017064**
Stddev	.005741	.0015336	.0026223	.0001265	.004871	.011828	.0003214
%RSD	.4510066	1.107012	8.868492	6.787345	.3117354	.7465089	18.83578
#1	1.266813	.1383788	.0265412	.0017301	1.558998	1.571444	.0020006
#2	1.273519	.1370812	.0311013	.0019818	1.560655	1.587366	.0013633
#3	1.278236	.1401368	.0310649	.0018773	1.568141	1.594556	.0017553

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02 Acquired: 6/25/2025 20:10:24 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0068859	-.031719	.2205210
Stddev	.0056263	.004952	.0014184
%RSD	81.70644	15.61107	.6432225
#1	.0005066	-.033776	.2189201
#2	.0111399	-.026070	.2216211
#3	.0090113	-.035310	.2210219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5085.807	39754.90	2246.647	3570.841	5124.031
Stddev	29.899	82.30	20.014	7.583	25.305
%RSD	.5878971	.2070174	.8908600	.2123624	.4938410
#1	5111.433	39694.41	2269.331	3562.890	5146.012
#2	5093.031	39848.62	2239.133	3577.993	5129.712
#3	5052.958	39721.66	2231.477	3571.639	5096.369

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02DUP Acquired: 6/25/2025 20:14:56 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.013244**	**-.003118**	**.0308565**	**-.012294**	**.0111816**	**.4109959**	**.1463340**
Stddev	.001035	.000296	.0010696	.004633	.0026105	.0134086	.0005379
%RSD	7.817670	9.483470	3.466306	37.68356	23.34682	3.262462	.3675652
#1	-.012049	-.002813	.0320316	-.008986	.0083258	.4260286	.1468820
#2	-.013868	-.003403	.0299398	-.010307	.0134451	.4066898	.1458068
#3	-.013814	-.003138	.0305980	-.017588	.0117738	.4002694	.1463132

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**.0129763**	**33.21601**	**.0038483**	**.0120639**	**.0165445**	**.1999050**
Stddev	.000016	.0000268	.08525	.0003746	.0002907	.0009642	.0157375
%RSD	22.80363	.2066499	.2566429	9.734810	2.409834	5.827879	7.872518
#1	-.000057	.0129509	33.31073	.0042458	.0118558	.0170870	.1898666
#2	-.000071	.0130043	33.14546	.0035017	.0119397	.0171152	.2180426
#3	-.000089	.0129738	33.19184	.0037975	.0123961	.0154313	.1918056

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0992150**	**2.871521**	**.0038011**	**-.000444**	**383.5830**	**-.005721**	**.1102232**
Stddev	.0016257	.006873	.0003641	.000293	2.7354	.006455	.0004870
%RSD	1.638592	.2393402	9.577660	65.96561	.7131192	112.8337	.4418362
#1	.1010581	2.868429	.0037192	-.000168	384.3114	-.013156	.1106604
#2	.0979848	2.879396	.0034850	-.000413	380.5571	-.002462	.1103109
#3	.0986020	2.866737	.0041992	-.000752	385.8804	-.001545	.1096983

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.234791**	**.1337745**	**.0243428**	**.0021426**	**1.504541**	**1.557125**	**.0012512**
Stddev	.008602	.0019551	.0019287	.0006373	.003620	.010061	.0004387
%RSD	.6966638	1.461469	7.922929	29.74537	.2406116	.6461364	35.06282
#1	1.240083	.1315305	.0265192	.0017744	1.507152	1.562406	.0007531
#2	1.224865	.1346834	.0228458	.0017750	1.500408	1.545523	.0014203
#3	1.239425	.1351098	.0236633	.0028785	1.506062	1.563446	.0015802

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02DUP Acquired: 6/25/2025 20:14:56 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0102731	-.028229	.2148469
Stddev	.0024173	.001815	.0011328
%RSD	23.53049	6.431026	.5272638
#1	.0098969	-.027255	.2160075
#2	.0128564	-.027108	.2137441
#3	.0080659	-.030323	.2147891

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5162.349	40530.02	2306.572	3638.123	5206.290
Stddev	9.553	211.77	8.222	16.573	12.800
%RSD	.1850598	.5225055	.3564475	.4555319	.2458539
#1	5169.618	40633.74	2306.128	3633.462	5220.054
#2	5151.529	40286.38	2315.006	3624.380	5194.744
#3	5165.901	40669.94	2298.581	3656.527	5204.072

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02LX5 Acquired: 6/25/2025 20:19:26 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003822**	**-.001181**	**.0067597**	**-.002992**	**.0022091**	**.0862676**	**.0296231**
Stddev	.002227	.000608	.0015319	.001211	.0030583	.0261042	.0003745
%RSD	58.27163	51.48340	22.66222	40.48220	138.4409	30.25952	1.264174
#1	-.003992	-.000480	.0052468	-.001734	-.000885	.0764024	.0292315
#2	-.001514	-.001493	.0083099	-.004150	.002281	.0665338	.0296598
#3	-.005959	-.001570	.0067223	-.003091	.005231	.1158667	.0299778

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000619**	**.0025638**	**6.876763**	**.0005246**	**.0037283**	**.0037294**	**.0371106**
Stddev	.0000253	.0000260	.008076	.0008253	.0003636	.0004552	.0133840
%RSD	40.92110	1.015556	.1174375	157.3139	9.751768	12.20566	36.06518
#1	.0000848	.0025843	6.879099	.0013690	.0038611	.0035811	.0293320
#2	.0000347	.0025726	6.867777	-.000280	.0040068	.0042402	.0294348
#3	.0000661	.0025345	6.883414	.000485	.0033170	.0033668	.0525651

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0231888**	**.6136950**	**.0004763**	**.0002453**	**89.73311**	**-.004243**	**.0213545**
Stddev	.0007936	.0507480	.0001463	.0015708	.22270	.005462	.0005512
%RSD	3.422244	8.269252	30.71958	640.3280	.2481812	128.7358	2.581323
#1	.0236216	.5948097	.0005588	.0014893	89.91112	-.008881	.0219123
#2	.0236719	.5750974	.0003074	-.001520	89.48339	.001778	.0208101
#3	.0222729	.6711780	.0005627	.000766	89.80483	-.005625	.0213411

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2195511**	**.0258209**	**.0061563**	**.0003926**	**.2991525**	**.3402811**	**-.000885**
Stddev	.0007956	.0007461	.0012566	.0003135	.0035557	.0033046	.000459
%RSD	.3623915	2.889690	20.41170	79.84206	1.188600	.9711498	51.84935
#1	.2204083	.0263297	.0047407	.0007139	.2984105	.3429059	-.000472
#2	.2194087	.0249644	.0065883	.0003763	.2960263	.3365700	-.001379
#3	.2188362	.0261687	.0071400	.0000876	.3030206	.3413673	-.000805

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02LX5 Acquired: 6/25/2025 20:19:26 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006674	.0241347	.0444882
Stddev	.0021613	.0018185	.0001099
%RSD	323.8710	7.534765	.2470561
#1	-.000298	.0260134	.0446151
#2	-.000843	.0240077	.0444234
#3	.003143	.0223830	.0444262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5211.437	41503.44	2272.790	3668.558	5491.696
Stddev	5.574	35.92	3.231	2.209	1.354
%RSD	.1069626	.0865453	.1421735	.0602099	.0246609
#1	5205.075	41494.49	2272.139	3668.826	5490.591
#2	5213.771	41472.85	2276.297	3666.228	5491.289
#3	5215.465	41542.99	2269.933	3670.621	5493.207

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02MS Acquired: 6/25/2025 20:23:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8195769	1.914413	1.024070	2.005265	.8356818	2.433035	.3446023
Stddev	.0035018	.001800	.004640	.006744	.0035452	.010032	.0003943
%RSD	.4272632	.0940489	.4531307	.3363379	.4242254	.4123155	.1144183
#1	.8161388	1.914372	1.018861	2.004883	.8379982	2.425705	.3441735
#2	.8194529	1.912633	1.027761	1.998720	.8316006	2.428931	.3446839
#3	.8231390	1.916233	1.025589	2.012193	.8374466	2.444468	.3449493

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2138486	.2200219	33.05322	.4221380	.2165770	.3262101	3.313712
Stddev	.0002943	.0007956	.11926	.0013631	.0003329	.0017315	.038114
%RSD	.1376049	.3615775	.3608080	.3228958	.1537241	.5308043	1.150190
#1	.2139334	.2191859	32.91556	.4207003	.2162152	.3265461	3.276514
#2	.2135213	.2201100	33.12501	.4234115	.2166453	.3243352	3.311941
#3	.2140912	.2207697	33.11910	.4223022	.2168704	.3277491	3.352680

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2963966	4.762388	.5138627	.0764911	368.8736	.3090861	.3129739
Stddev	.0025419	.039421	.0018275	.0004111	2.0237	.0059946	.0016141
%RSD	.8576113	.8277580	.3556388	.5374665	.5486197	1.939448	.5157162
#1	.2939479	4.718566	.5119804	.0769657	369.8955	.3160004	.3122876
#2	.2962193	4.794966	.5139776	.0762455	366.5427	.3059099	.3148177
#3	.2990225	4.773631	.5156300	.0762621	370.1825	.3053479	.3118164

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.00556	6.529449	.3060247	.4221794	1.423625	2.435478	.7338516
Stddev	.08570	.014036	.0025070	.0006624	.009194	.004919	.0006922
%RSD	.6118797	.2149623	.8192246	.1569094	.6458103	.2019794	.0943258
#1	13.93167	6.517807	.3083374	.4214788	1.415827	2.432959	.7330527
#2	13.98550	6.525506	.3033605	.4227957	1.421285	2.432329	.7342717
#3	14.09951	6.545035	.3063761	.4222636	1.433762	2.441147	.7342305

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02MS Acquired: 6/25/2025 20:23:53 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2163961	.1614637	.4085712
Stddev	.0020021	.0055815	.0018970
%RSD	.9252077	3.456814	.4643106
#1	.2152999	.1617526	.4064992
#2	.2151815	.1668951	.4089916
#3	.2187070	.1557433	.4102227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5139.466	40528.72	2276.804	3623.066	5185.770
Stddev	8.553	273.57	4.354	27.764	17.479
%RSD	.1664234	.6750021	.1912435	.7663207	.3370512
#1	5148.988	40675.76	2281.333	3642.214	5205.950
#2	5136.977	40213.07	2276.430	3591.224	5175.962
#3	5132.434	40697.31	2272.649	3635.759	5175.398

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02MSD Acquired: 6/25/2025 20:28:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8253045	1.942973	1.035527	2.029862	.8450577	2.473420	.3378570
Stddev	.0012376	.006730	.003497	.002023	.0019893	.033260	.0007410
%RSD	.1499617	.3464015	.3377385	.0996575	.2354076	1.344686	.2193280
#1	.8238769	1.935538	1.031513	2.031586	.8454960	2.510600	.3370018
#2	.8260745	1.944730	1.037148	2.030365	.8467914	2.446498	.3382633
#3	.8259622	1.948651	1.037920	2.027635	.8428858	2.463162	.3383061

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2137200	.2220455	31.30900	.4250779	.2189184	.3284190	3.336276
Stddev	.0020129	.0006332	.13155	.0011533	.0007071	.0025631	.013524
%RSD	.9418338	.2851789	.4201730	.2713073	.3229947	.7804481	.4053730
#1	.2159319	.2213430	31.18444	.4260015	.2190302	.3307672	3.333648
#2	.2119957	.2222210	31.29600	.4254468	.2181621	.3256847	3.350921
#3	.2132325	.2225724	31.44658	.4237853	.2195629	.3288050	3.324258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2930266	4.616552	.5208578	.0761466	350.0736	.3120951	.3100513
Stddev	.0027426	.039491	.0006482	.0007722	1.5963	.0056207	.0005322
%RSD	.9359662	.8554129	.1244485	1.014139	.4560032	1.800950	.1716346
#1	.2920170	4.580353	.5201236	.0752814	351.8481	.3175680	.3104182
#2	.2909319	4.658667	.5210989	.0767660	349.6187	.3123800	.3102946
#3	.2961310	4.610637	.5213509	.0763926	348.7542	.3063375	.3094409

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.76083	6.592864	.3048398	.4284896	1.339696	2.359093	.7432612
Stddev	.18953	.018125	.0006661	.0004622	.009574	.019582	.0005821
%RSD	1.377348	.2749145	.2185079	.1078652	.7146464	.8300615	.0783210
#1	13.97929	6.573112	.3040707	.4279611	1.330458	2.376505	.7430734
#2	13.64023	6.608732	.3052258	.4286892	1.339055	2.337894	.7439140
#3	13.66297	6.596747	.3052230	.4288184	1.349574	2.362880	.7427961

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02MSD Acquired: 6/25/2025 20:28:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2169687	.1639622	.4008756
Stddev	.0025793	.0049093	.0015568
%RSD	1.188811	2.994196	.3883458
#1	.2196714	.1585862	.3991142
#2	.2145336	.1650928	.4020674
#3	.2167010	.1682077	.4014451

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5134.047	40705.77	2294.137	3636.508	5186.177
Stddev	7.695	285.27	14.130	30.347	11.112
%RSD	.1498828	.7008011	.6159257	.8345022	.2142700
#1	5129.549	40590.22	2279.233	3623.715	5180.767
#2	5129.660	40496.40	2295.837	3614.653	5178.805
#3	5142.932	41030.68	2307.340	3671.157	5198.958

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02A Acquired: 6/25/2025 20:32:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7923953**	**1.846496**	**.9880268**	**1.945960**	**.7992477**	**2.345864**	**.3416654**
Stddev	.0031992	.003311	.0032911	.003827	.0036013	.016612	.0003342
%RSD	.4037364	.1793332	.3330973	.1966744	.4505815	.7081457	.0978057
#1	.7888923	1.843440	.9857388	1.941630	.8034053	2.334423	.3414975
#2	.7951624	1.850014	.9917986	1.947364	.7972403	2.364918	.3420502
#3	.7931314	1.846035	.9865431	1.948888	.7970976	2.338250	.3414485

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2044544**	**.2136157**	**34.03629**	**.4130568**	**.2096093**	**.3140566**	**3.218612**
Stddev	.0012244	.0008387	.10266	.0035828	.0005247	.0009378	.033610
%RSD	.5988552	.3925984	.3016118	.8673943	.2503228	.2986252	1.044225
#1	.2032902	.2132514	33.92993	.4124756	.2097569	.3129755	3.227916
#2	.2057312	.2145749	34.13479	.4098001	.2100444	.3146514	3.246589
#3	.2043417	.2130209	34.04415	.4168947	.2090266	.3145430	3.181330

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2917618**	**4.764973**	**.5008810**	**.0709373**	**383.8120**	**.3061106**	**.3112351**
Stddev	.0009957	.052271	.0012660	.0007889	2.4475	.0017067	.0034549
%RSD	.3412788	1.096986	.2527554	1.112117	.6376739	.5575566	1.110048
#1	.2906161	4.712635	.5004281	.0700695	382.2791	.3046758	.3130243
#2	.2922508	4.817177	.5023112	.0716112	382.5224	.3079980	.3072526
#3	.2924185	4.765106	.4999037	.0711311	386.6347	.3056579	.3134284

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.57536**	**6.337918**	**.2948598**	**.4030311**	**1.490466**	**2.438734**	**.7034272**
Stddev	.10861	.019818	.0027056	.0006138	.005342	.002370	.0010957
%RSD	.8000453	.3126892	.9175935	.1523019	.3583839	.0971954	.1557600
#1	13.57265	6.331471	.2930098	.4036928	1.488173	2.437644	.7042086
#2	13.46814	6.360157	.2936044	.4029202	1.496571	2.437105	.7038982
#3	13.68531	6.322126	.2979650	.4024803	1.486653	2.441453	.7021748

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2409-02A Acquired: 6/25/2025 20:32:52 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2052880	.1607420	.4090920
Stddev	.0049414	.0014708	.0006843
%RSD	2.407042	.9149926	.1672753
#1	.2001609	.1592606	.4083397
#2	.2056832	.1622019	.4096774
#3	.2100199	.1607636	.4092590

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5141.782	40454.89	2284.183	3628.337	5182.597
Stddev	33.511	414.74	18.935	40.993	27.920
%RSD	.6517463	1.025203	.8289580	1.129788	.5387308
#1	5123.329	40567.48	2302.425	3619.870	5169.764
#2	5121.554	40801.71	2285.499	3672.902	5163.400
#3	5180.465	39995.47	2264.624	3592.239	5214.626

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DL2X10 Acquired: 6/25/2025 20:37:21 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0115877**	**-.005693**	**.0749357**	**.0137393**	**.0063210**	**24.96500**	**.1257814**
Stddev	.0035027	.000321	.0019367	.0041189	.0014915	.19315	.0021568
%RSD	30.22787	5.630956	2.584437	29.97898	23.59649	.7736836	1.714688
#1	.0081004	-.006022	.0756239	.0152290	.0056500	25.17827	.1274781
#2	.0151056	-.005676	.0727489	.0169060	.0080302	24.91490	.1265118
#3	.0115569	-.005382	.0764342	.0090828	.0052828	24.80184	.1233543

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016011**	**-.000927**	**7.206007**	**.0349479**	**.0299193**	**.0700648**	**51.29196**
Stddev	.0000677	.000032	.081271	.0001547	.0001472	.0014317	.34054
%RSD	4.226164	3.480166	1.127822	.4426915	.4918148	2.043340	.6639340
#1	.0015254	-.000963	7.288844	.0349387	.0297562	.0716985	51.67730
#2	.0016224	-.000916	7.202778	.0351071	.0299598	.0690289	51.16717
#3	.0016556	-.000902	7.126398	.0347980	.0300420	.0694670	51.03142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.193271**	**7.229690**	**.0316875**	**-.003141**	**.4536551**	**.1243317**	**.1380614**
Stddev	.007903	.052724	.0006828	.001126	.0314930	.0063544	.0005772
%RSD	.6623209	.7292650	2.154723	35.83092	6.942053	5.110817	.4180526
#1	1.200927	7.271044	.0319449	-.003526	.4809464	.1291662	.1386985
#2	1.193745	7.170319	.0322042	-.004024	.4608229	.1171344	.1379123
#3	1.185142	7.247705	.0309134	-.001874	.4191961	.1266944	.1375735

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.025941**	**1.075399**	**.0209883**	**.0012917**	**.5901713**	**1.538608**	**.0019477**
Stddev	.002482	.003743	.0007385	.0001913	.0038877	.011463	.0010206
%RSD	.2418825	.3480910	3.518454	14.80799	.6587415	.7450163	52.40377
#1	1.028724	1.079515	.0209671	.0010890	.5930821	1.551832	.0031023
#2	1.023959	1.072199	.0217372	.0014690	.5857562	1.531502	.0015747
#3	1.025141	1.074483	.0202607	.0013172	.5916755	1.532489	.0011660

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DL2X10 Acquired: 6/25/2025 20:37:21 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8608121	.0452186	.0261393
Stddev	.0102041	.0033179	.0001565
%RSD	1.185408	7.337465	.5986450
#1	.8725948	.0461572	.0262810
#2	.8548869	.0415325	.0261655
#3	.8549546	.0479661	.0259713

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5526.346	44132.20	2427.210	3912.566	5767.002
Stddev	9.183	93.22	10.341	8.733	11.326
%RSD	.1661622	.2112302	.4260643	.2232016	.1963864
#1	5520.091	44238.97	2415.284	3922.525	5753.965
#2	5536.888	44066.99	2433.708	3906.217	5774.411
#3	5522.059	44090.65	2432.636	3908.955	5772.630

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUPDL2X10 Acquired: 6/25/2025 20:41:40 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135769	-.004797	.0726464	.0139233	.0035946	25.03961	.1266362
Stddev	.0024349	.001629	.0010872	.0039425	.0021225	.11539	.0006483
%RSD	17.93383	33.94776	1.496531	28.31609	59.04548	.4608190	.5119423
#1	.0110584	-.004220	.0716369	.0111117	.0028809	25.03592	.1261327
#2	.0137540	-.006636	.0725048	.0184298	.0019210	25.15680	.1273677
#3	.0159184	-.003536	.0737974	.0122283	.0059820	24.92611	.1264081

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018351	-.000952	7.164607	.0349740	.0290466	.0725692	51.39271
Stddev	.0002007	.000058	.078163	.0001694	.0002915	.0006007	.21362
%RSD	10.93688	6.081234	1.090959	.4844307	1.003595	.8277790	.4156652
#1	.0016840	-.000979	7.155954	.0350419	.0289164	.0725825	51.56750
#2	.0020628	-.000992	7.246736	.0350990	.0293805	.0731631	51.45604
#3	.0017585	-.000886	7.091130	.0347812	.0288429	.0719619	51.15458

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.191463	7.253413	.0308117	-.003595	.3694820	.1211413	.1379459
Stddev	.003674	.046674	.0004419	.000515	.0125613	.0020087	.0013100
%RSD	.3083653	.6434701	1.434268	14.33312	3.399712	1.658136	.9496144
#1	1.194989	7.301120	.0312996	-.003351	.3668510	.1215858	.1394487
#2	1.187657	7.251271	.0304382	-.003247	.3831504	.1189475	.1370460
#3	1.191742	7.207847	.0306973	-.004187	.3584445	.1228904	.1373428

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.032789	1.057480	.0189941	.0012603	.5764053	1.575581	.0017752
Stddev	.010000	.009835	.0023345	.0002608	.0066764	.009957	.0016610
%RSD	.9682428	.9299944	12.29051	20.68888	1.158282	.6319297	93.56612
#1	1.034571	1.068834	.0167597	.0011258	.5838513	1.568815	.0010549
#2	1.041777	1.051621	.0214172	.0015608	.5744120	1.587014	.0005959
#3	1.022017	1.051986	.0188055	.0010943	.5709526	1.570913	.0036748

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01DUPDL2X10 Acquired: 6/25/2025 20:41:40 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8559557	.0196937	.0261278
Stddev	.0033899	.0025296	.0003670
%RSD	.3960395	12.84448	1.404776
#1	.8571197	.0168357	.0261440
#2	.8586103	.0216448	.0264865
#3	.8521371	.0206004	.0257529

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5537.160	44607.40	2391.204	3946.394	5789.737
Stddev	10.051	92.75	15.600	5.051	12.792
%RSD	.1815274	.2079330	.6523992	.1279868	.2209505
#1	5546.805	44638.30	2404.228	3951.650	5803.781
#2	5537.928	44503.14	2373.915	3945.955	5786.682
#3	5526.746	44680.76	2395.469	3941.577	5778.749

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV06 Acquired: 6/25/2025 20:46:01 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.077502**	**5.113290**	**5.097572**	**5.158745**	**5.170578**	**10.16140**	**10.23090**
Stddev	.006558	.006681	.006740	.011798	.011530	.05636	.00515
%RSD	.1291485	.1306570	.1322157	.2287006	.2229877	.5546312	.0502951
#1	5.076856	5.115316	5.105096	5.172321	5.180991	10.20392	10.22875
#2	5.071292	5.105831	5.095530	5.150971	5.158187	10.18281	10.23677
#3	5.084359	5.118724	5.092089	5.152943	5.172555	10.09748	10.22717

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2672953**	**2.553527**	**25.42788**	**1.028384**	**2.552751**	**1.328825**	**5.037058**
Stddev	.0016131	.002410	.07809	.002482	.001552	.007978	.016975
%RSD	.6034943	.0943845	.3070984	.2413460	.0607781	.6004004	.3369991
#1	.2658216	2.555997	25.45301	1.025556	2.554095	1.322340	5.042333
#2	.2690187	2.551182	25.49032	1.030199	2.551053	1.337734	5.050769
#3	.2670456	2.553400	25.34033	1.029398	2.553104	1.326401	5.018072

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.511910**	**25.23691**	**2.548096**	**1.270928**	**25.64946**	**2.543062**	**2.568029**
Stddev	.007948	.09221	.002243	.002076	.19168	.001587	.005690
%RSD	.3164252	.3653953	.0880294	.1633104	.7472884	.0624187	.2215650
#1	2.512993	25.13050	2.550565	1.269768	25.43326	2.542241	2.561996
#2	2.519261	25.28673	2.546184	1.273324	25.71652	2.544891	2.568794
#3	2.503475	25.29350	2.547539	1.269692	25.79860	2.542052	2.573298

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.23760**	**5.188772**	**5.287417**	**5.151901**	**5.157447**	**5.289511**	**5.109184**
Stddev	.03415	.003600	.038797	.006461	.008327	.036024	.003839
%RSD	.1353050	.0693793	.7337694	.1254092	.1614521	.6810397	.0751429
#1	25.27627	5.192703	5.243712	5.155814	5.160461	5.249993	5.113610
#2	25.22492	5.185637	5.317792	5.144444	5.148033	5.320514	5.107189
#3	25.21160	5.187975	5.300746	5.155446	5.163847	5.298027	5.106753

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV06 Acquired: 6/25/2025 20:46:01 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.119043**	**5.080556**	**5.185032**
Stddev	.012446	.013228	.008648
%RSD	.2431346	.2603747	.1667825
#1	5.121594	5.077064	5.189634
#2	5.130016	5.095180	5.190405
#3	5.105519	5.069424	5.175056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5137.735**	**41739.18**	**2262.642**	**3676.013**	**5267.085**
Stddev	10.546	226.92	10.632	19.222	9.200
%RSD	.2052596	.5436552	.4698799	.5229107	.1746761
#1	5125.648	41528.68	2262.931	3655.809	5257.565
#2	5142.505	41709.31	2251.869	3678.157	5267.761
#3	5145.054	41979.56	2273.127	3694.074	5275.928

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB06 Acquired: 6/25/2025 20:50:17 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001244**	**-.001317**	**.0005682**	**-.000154**	**-.001528**	**-.021980**
Stddev	.001406	.002181	.0012081	.002026	.003406	.026221
%RSD	113.0315	165.6075	212.6188	1315.913	222.8712	119.2951
#1	.000008	-.003106	.0009836	.001986	-.005447	-.015272
#2	-.000974	.001112	-.000793	-.002042	.000151	.000236
#3	-.002765	-.001956	.001514	-.000406	.000712	-.050903

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002020**	**-.000022**	**.0000977**	**-.017513**	F **.0091737**	**-.000023**
Stddev	.000090	.000159	.0000566	.018893	.0004328	.000420
%RSD	4.466497	716.7263	57.87800	107.8813	4.717350	1827.877
#1	-.002120	-.000202	.0001326	-.039327	.0088341	.000214
#2	-.001945	.000097	.0000325	-.006866	.0090261	.000225
#3	-.001996	.000039	.0001281	-.006346	.0096609	-.000508

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000150**	**.0331743**	**.0019137**	**.0545837**	**.0002719**	**-.000246**
Stddev	.000400	.0102104	.0014014	.0291000	.0002551	.001033
%RSD	266.6931	30.77793	73.23210	53.31263	93.81502	420.0877
#1	-.000426	.0435881	.0035284	.0855745	.0000299	-.001192
#2	-.000334	.0327545	.0011984	.0503353	.0002476	-.000402
#3	.000309	.0231803	.0010142	.0278415	.0005382	.000856

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0664756**	**-.005715**	**.0000082**	**.0062007**	**.0004037**	**.0105569**
Stddev	.0130323	.003092	.0008190	.0011988	.0019434	.0003158
%RSD	19.60457	54.09494	9957.189	19.33276	481.4158	2.991169
#1	.0801938	-.009161	.0009338	.0057337	.0000669	.0102754
#2	.0542594	-.003184	-.000287	.0075626	-.001349	.0104969
#3	.0649737	-.004800	-.000622	.0053056	.002493	.0108983

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB06 Acquired: 6/25/2025 20:50:17 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000774	.0001111	.0013457	-.000653	-.001302	-.005601
Stddev	.0003102	.0011243	.0007466	.000742	.000207	.004920
%RSD	400.6796	1011.709	55.48019	113.5697	15.87018	87.83116
#1	.0001831	.0007713	.0021677	.000194	-.001159	-.011282
#2	-.000272	.0007491	.0011599	-.000966	-.001539	-.002721
#3	.000321	-.001187	.0007096	-.001188	-.001208	-.002801

Elem	Sr4077
Units	ppm
Avg	.0000653
Stddev	.0001869
%RSD	286.1874
#1	.0002724
#2	-.000091
#3	.000014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5356.310	43643.78	2348.409	3818.813	6029.352
Stddev	11.807	73.96	21.159	13.341	21.548
%RSD	.2204264	.1694633	.9009756	.3493584	.3573811
#1	5342.992	43558.57	2372.497	3804.402	6006.664
#2	5360.448	43681.47	2339.903	3830.733	6031.853
#3	5365.491	43691.30	2332.827	3821.304	6049.541

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LDL2X50 Acquired: 6/25/2025 20:54:47 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064436	-.000435	.0156957	.0054776	-.001854	5.477221	.0255588
Stddev	.0030472	.001594	.0007450	.0009725	.001485	.052708	.0004690
%RSD	47.29058	366.2398	4.746347	17.75456	80.10156	.9623115	1.834874
#1	.0093917	-.000570	.0152827	.0047713	-.003112	5.514900	.0256277
#2	.0066328	.001222	.0152486	.0050746	-.002234	5.416989	.0259895
#3	.0033061	-.001957	.0165557	.0065868	-.000216	5.499774	.0250592

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003666	-.000221	1.541279	.0088471	.0062590	.0150142	11.17438
Stddev	.0001330	.000018	.017226	.0009065	.0001422	.0011081	.07644
%RSD	36.26604	8.112014	1.117612	10.24681	2.271966	7.380141	.6840434
#1	.0003822	-.000213	1.547209	.0081342	.0061081	.0138683	11.17482
#2	.0002266	-.000242	1.521872	.0098674	.0063906	.0150940	11.09772
#3	.0004911	-.000209	1.554756	.0085396	.0062781	.0160801	11.25059

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2646093	1.643725	.0077418	-.000537	.1226091	.0202983	.0286044
Stddev	.0031659	.082235	.0008967	.000294	.0128760	.0066513	.0004949
%RSD	1.196454	5.002939	11.58256	54.65484	10.50163	32.76797	1.730056
#1	.2682147	1.702878	.0087175	-.000507	.1094317	.0279517	.0285192
#2	.2633301	1.549819	.0075542	-.000260	.1232347	.0170273	.0291363
#3	.2622832	1.678477	.0069537	-.000845	.1351608	.0159158	.0281576

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004392	.2176047	.0058342	.0004104	.1165834	.3761051	-.000103
Stddev	.0027881	.0025226	.0008053	.0005497	.0019290	.0101393	.000450
%RSD	1.391013	1.159260	13.80345	133.9538	1.654594	2.695864	438.1412
#1	.2018263	.2201744	.0049258	.0007740	.1162669	.3840237	-.000304
#2	.1972296	.2175078	.0064606	-.000222	.1186510	.3646774	-.000416
#3	.2022617	.2151320	.0061163	.000679	.1148322	.3796143	.000413

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01LDL2X50 Acquired: 6/25/2025 20:54:47 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1852101	-.002473	.0056446
Stddev	.0017534	.005485	.0002936
%RSD	.9467055	221.7900	5.202075
#1	.1868949	-.007741	.0058408
#2	.1833953	.003206	.0053070
#3	.1853401	-.002884	.0057859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5416.486	43494.51	2336.561	3828.448	5943.874
Stddev	18.056	221.06	20.960	25.125	15.680
%RSD	.3333565	.5082412	.8970245	.6562649	.2638043
#1	5430.971	43500.54	2340.755	3822.284	5957.254
#2	5396.257	43270.50	2355.106	3806.980	5926.620
#3	5422.231	43712.49	2313.821	3856.082	5947.748

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDL2X10 Acquired: 6/25/2025 20:59:14 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0815583	.1809354	.1683926	.1920540	.0265683	28.32078	.1544337
Stddev	.0027522	.0010306	.0008172	.0021856	.0023589	.06318	.0011065
%RSD	3.374546	.5695930	.4852941	1.138011	8.878408	.2230877	.7164829
#1	.0843593	.1803637	.1681041	.1940769	.0239781	28.37118	.1531991
#2	.0814581	.1803173	.1693149	.1923494	.0271339	28.24990	.1547661
#3	.0788575	.1821251	.1677588	.1897357	.0285930	28.34127	.1553359

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213835	.0168621	6.913799	.0730506	.0503092	.1033569	56.85901
Stddev	.0000668	.0001899	.033745	.0004981	.0003511	.0004050	.10915
%RSD	.3124550	1.126100	.4880789	.6818518	.6978479	.3918189	.1919696
#1	.0213497	.0166445	6.934935	.0727692	.0499311	.1035007	56.92497
#2	.0213404	.0169941	6.874882	.0727569	.0503717	.1036704	56.73302
#3	.0214605	.0169477	6.931580	.0736257	.0506249	.1028997	56.91905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.232807	7.591187	.0821579	.0033114	.7014020	.1648233	.1643482
Stddev	.009511	.024731	.0006454	.0009940	.0046878	.0121836	.0013380
%RSD	.7714872	.3257838	.7855890	30.01703	.6683479	7.391935	.8141252
#1	1.240667	7.563055	.0814197	.0033585	.7003054	.1730956	.1657296
#2	1.222235	7.609502	.0826159	.0022947	.7065408	.1705420	.1642566
#3	1.235521	7.601003	.0824380	.0042810	.6973596	.1508323	.1630583

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.901508	1.657944	.0552894	.0346557	.5831119	1.463431	.0594017
Stddev	.006349	.011693	.0016355	.0002029	.0027345	.004530	.0009350
%RSD	.3339067	.7052421	2.958147	.5854499	.4689526	.3095425	1.574058
#1	1.896239	1.644732	.0539583	.0345938	.5802259	1.460119	.0585724
#2	1.899727	1.666959	.0547948	.0344911	.5856643	1.461582	.0604150
#3	1.908557	1.662140	.0571152	.0348824	.5834456	1.468593	.0592176

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDL2X10 Acquired: 6/25/2025 20:59:14 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9345975	.0258493	.0474076
Stddev	.0049463	.0048091	.0001190
%RSD	.5292398	18.60452	.2509862
#1	.9378376	.0294601	.0475331
#2	.9289042	.0203902	.0473934
#3	.9370507	.0276976	.0472964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.168	44209.32	2403.694	3908.234	5727.477
Stddev	10.248	53.55	11.349	12.172	22.482
%RSD	.1859923	.1211259	.4721283	.3114330	.3925246
#1	5521.846	44222.02	2416.135	3901.370	5753.262
#2	5502.667	44255.37	2401.037	3922.287	5711.985
#3	5505.992	44150.56	2393.909	3901.044	5717.183

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDDL2X10 Acquired: 6/25/2025 21:03:32 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0789701	.1805750	.1639170	.1872386	.0266117	27.81253	.1516212
Stddev	.0036035	.0006754	.0021092	.0014500	.0015174	.05592	.0005155
%RSD	4.563082	.3740267	1.286734	.7744068	5.701965	.2010519	.3400184
#1	.0831233	.1811408	.1659295	.1881712	.0258670	27.78072	.1515562
#2	.0766737	.1807569	.1617229	.1855681	.0256105	27.87709	.1521662
#3	.0771134	.1798272	.1640987	.1879766	.0283576	27.77978	.1511412

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212426	.0166172	6.788546	.0723776	.0497992	.1019734	55.86331
Stddev	.0001375	.0000800	.034480	.0002309	.0001795	.0013054	.11595
%RSD	.6473996	.4815976	.5079098	.3190321	.3604911	1.280125	.2075547
#1	.0213949	.0166441	6.821480	.0726054	.0495919	.1029756	55.83296
#2	.0212054	.0165272	6.791452	.0721437	.0499009	.1024473	55.76556
#3	.0211275	.0166803	6.752705	.0723837	.0499048	.1004972	55.99142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.213892	7.495682	.0813913	.0036375	.6876652	.1590399	.1616626
Stddev	.002748	.023271	.0003739	.0013424	.0115984	.0043174	.0003045
%RSD	.2264019	.3104576	.4594165	36.90517	1.686635	2.714652	.1883588
#1	1.216766	7.520102	.0817917	.0051865	.6883740	.1630668	.1617882
#2	1.211290	7.473762	.0813309	.0028126	.6757287	.1595716	.1613154
#3	1.213621	7.493182	.0810512	.0029134	.6988929	.1544813	.1618843

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.881356	1.638269	.0495407	.0342316	.5733974	1.450702	.0597126
Stddev	.010719	.002702	.0009573	.0006408	.0038171	.011434	.0002558
%RSD	.5697378	.1649195	1.932336	1.872109	.6656949	.7881976	.4283983
#1	1.891364	1.637699	.0495580	.0336535	.5763709	1.458176	.0600059
#2	1.882658	1.635898	.0485749	.0341207	.5690930	1.456390	.0595358
#3	1.870046	1.641211	.0504892	.0349207	.5747282	1.437539	.0595960

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01MSDDL2X10 Acquired: 6/25/2025 21:03:32 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9181492	.0334702	.0465930
Stddev	.0044659	.0032169	.0001412
%RSD	.4864080	9.611134	.3030992
#1	.9220664	.0371834	.0464310
#2	.9132860	.0315285	.0466581
#3	.9190951	.0316987	.0466900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5497.426	44341.11	2384.265	3913.495	5726.477
Stddev	5.833	102.50	10.370	9.862	4.051
%RSD	.1060954	.2311671	.4349511	.2520087	.0707335
#1	5498.720	44371.07	2373.083	3909.754	5724.059
#2	5502.503	44425.29	2386.144	3924.680	5724.218
#3	5491.056	44226.96	2393.567	3906.050	5731.153

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01ADL2X10 Acquired: 6/25/2025 21:07:49 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0828518	.1788518	.1583556	.1932097	.0743627	23.78400	.1372026
Stddev	.0016592	.0008986	.0015121	.0034200	.0014162	.06768	.0012109
%RSD	2.002673	.5024171	.9548888	1.770113	1.904422	.2845435	.8825748
#1	.0824227	.1795332	.1566220	.1921368	.0728328	23.86134	.1385043
#2	.0846835	.1791887	.1594023	.1970376	.0756277	23.73560	.1361096
#3	.0814493	.1778334	.1590426	.1904548	.0746276	23.75507	.1369939

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206462	.0165076	6.817990	.1108090	.0468983	.0967457	48.76480
Stddev	.0001330	.0000872	.031531	.0006007	.0004658	.0008585	.12733
%RSD	.6441689	.5283693	.4624749	.5420803	.9931947	.8873357	.2611070
#1	.0207794	.0164680	6.784795	.1111958	.0471542	.0977369	48.76013
#2	.0205134	.0164472	6.847541	.1101170	.0471800	.0962465	48.89440
#3	.0206457	.0166076	6.821633	.1111141	.0463606	.0962536	48.63988

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146797	7.070438	.1020952	.0030900	.5771806	.1480430	.1498315
Stddev	.003275	.049709	.0002458	.0010057	.0210859	.0039159	.0002441
%RSD	.2855714	.7030549	.2407152	32.54605	3.653256	2.645099	.1629297
#1	1.150460	7.125415	.1023377	.0035765	.5752091	.1466342	.1496900
#2	1.144152	7.028662	.1021016	.0019336	.5571497	.1450264	.1496910
#3	1.145778	7.057237	.1018464	.0037599	.5991829	.1524684	.1501133

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.757809	1.555171	.0466463	.0418120	.5633445	1.634287	.0631997
Stddev	.019041	.002763	.0006739	.0003065	.0034322	.019555	.0004899
%RSD	1.083215	.1776940	1.444804	.7331447	.6092595	1.196529	.7751204
#1	1.769301	1.553276	.0469974	.0415805	.5654018	1.652446	.0632788
#2	1.768296	1.553895	.0470721	.0421597	.5593823	1.636830	.0636452
#3	1.735830	1.558342	.0458693	.0416958	.5652495	1.613585	.0626751

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: Q2381-01ADL2X10 Acquired: 6/25/2025 21:07:49 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8280343	.0287505	.0426100
Stddev	.0031314	.0027530	.0002673
%RSD	.3781691	9.575632	.6272653
#1	.8267444	.0308037	.0429166
#2	.8316045	.0256221	.0424264
#3	.8257538	.0298256	.0424869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5495.088	44458.90	2404.177	3935.945	5751.234
Stddev	14.424	179.78	2.338	27.211	12.836
%RSD	.2624818	.4043825	.0972453	.6913370	.2231814
#1	5507.438	44623.42	2401.766	3961.461	5761.170
#2	5479.236	44486.29	2404.330	3939.065	5736.742
#3	5498.591	44266.99	2406.434	3907.309	5755.789

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV07 Acquired: 6/25/2025 21:12:06 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	**5.039088**	**5.079636**	**5.058560**	**5.123115**	**5.123160**	**10.08318**	**10.14672**
Stddev	.007314	.003980	.005549	.010487	.007992	.05452	.02899
%RSD	.1451439	.0783537	.1096856	.2047035	.1560048	.5407523	.2857503
#1	5.034420	5.078174	5.063935	5.121861	5.117556	10.07715	10.12693
#2	5.035327	5.076593	5.052853	5.134172	5.132312	10.14046	10.18000
#3	5.047517	5.084140	5.058892	5.113311	5.119611	10.03192	10.13323

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2593795**	**2.535626**	**24.97968**	**1.019922**	**2.533120**	**1.291897**	**5.050552**
Stddev	.0012507	.001509	.12283	.002212	.000756	.004568	.019543
%RSD	.4821687	.0594969	.4917334	.2168653	.0298304	.3535867	.3869448
#1	.2602920	2.535320	24.87926	1.019935	2.532416	1.295481	5.072403
#2	.2598925	2.534294	25.11664	1.022128	2.533026	1.293455	5.034744
#3	.2579539	2.537264	24.94316	1.017704	2.533919	1.286753	5.044510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.484128**	**24.84848**	**2.540385**	**1.248891**	**25.18918**	**2.519776**	**2.555512**
Stddev	.004019	.06790	.001188	.007136	.12815	.023869	.003824
%RSD	.1617719	.2732461	.0467585	.5714211	.5087692	.9472559	.1496308
#1	2.480171	24.92347	2.539284	1.243856	25.29967	2.547336	2.553650
#2	2.488206	24.83080	2.540227	1.257058	25.21920	2.506196	2.559910
#3	2.484008	24.79118	2.541643	1.245759	25.04869	2.505796	2.552976

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.91525**	**5.157088**	**5.157611**	**5.110411**	**5.095492**	**5.164253**	**5.070820**
Stddev	.38353	.004700	.025360	.007728	.011440	.021629	.004463
%RSD	1.539349	.0911343	.4916968	.1512159	.2245104	.4188217	.0880138
#1	25.26003	5.152999	5.178491	5.101489	5.107647	5.180600	5.067229
#2	24.98357	5.162223	5.164951	5.114942	5.093896	5.172431	5.075817
#3	24.50215	5.156042	5.129391	5.114804	5.084935	5.139727	5.069415

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCV07 Acquired: 6/25/2025 21:12:06 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.055666	5.033640	5.122903
Stddev	.023901	.005515	.020094
%RSD	.4727543	.1095531	.3922310
#1	5.041244	5.027790	5.108148
#2	5.083255	5.038743	5.145787
#3	5.042499	5.034386	5.114773

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5142.449	41778.97	2292.997	3673.060	5274.920
Stddev	14.737	109.97	9.838	15.133	18.205
%RSD	.2865799	.2632169	.4290496	.4120099	.3451237
#1	5154.918	41837.37	2286.204	3681.915	5285.645
#2	5146.245	41652.13	2288.508	3655.586	5285.215
#3	5126.186	41847.43	2304.279	3681.679	5253.900

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB07 Acquired: 6/25/2025 21:16:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin 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	.0024608	-.000794	.0007053	-.000554	-.001693	-.007747	-.000961
Stddev	.0017886	.001354	.0013207	.003121	.002309	.016167	.000595
%RSD	72.68393	170.5891	187.2582	563.5264	136.4171	208.6973	61.97147
#1	.0012840	.000462	.0016221	.001174	-.000797	-.026400	-.000755
#2	.0045190	-.002228	-.000808	.001321	.000034	.002221	-.001632
#3	.0015793	-.000616	.001302	-.004157	-.004316	.000939	-.000495

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000168	.0001282	-.029750	-.000859	.0002501	.0025200	-.000269
Stddev	.0000922	.0000219	.005655	.000271	.0003759	.0002301	.013062
%RSD	549.0275	17.08826	19.00959	31.59817	150.3029	9.131483	4864.726
#1	.0001139	.0001187	-.034825	-.001170	.0004412	.0024011	.008288
#2	-.000070	.0001532	-.030770	-.000733	.0004920	.0023736	-.015303
#3	.000006	.0001126	-.023654	-.000673	-.000183	.0027852	.006210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049685	.0589056	.0010032	-.000026	.0534467	-.005184	-.000120
Stddev	.0006660	.0330544	.0001988	.001850	.0196798	.010543	.000579
%RSD	13.40499	56.11429	19.81767	7159.151	36.82133	203.3819	482.3233
#1	.0053635	.0207882	.0012103	-.000420	.0377052	-.017167	-.000587
#2	.0053425	.0762623	.0008139	.001989	.0471243	.002664	-.000300
#3	.0041996	.0796662	.0009853	-.001647	.0755107	-.001048	.000527

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045476	-.000550	.0109845	.0003698	-.000536	.0113185	-.000242
Stddev	.0011709	.000775	.0007815	.0001440	.002577	.0026948	.000568
%RSD	25.74724	140.8727	7.114099	38.95106	480.8406	23.80872	234.4261
#1	.0040464	-.000427	.0101002	.0003692	.002429	.0140222	.000344
#2	.0037108	.000156	.0115818	.0002260	-.001804	.0113008	-.000790
#3	.0058857	-.001380	.0112717	.0005141	-.002233	.0086327	-.000281

Reviewed By:jaswal
On:6/26/2025 3:29:22 PM
Inst Id :P5
LB :LB136273

Sample Name: CCB07 Acquired: 6/25/2025 21:16:22 Type: Unk
Method: METHOD 6010D, 200.7(v27) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.000438**	**-.005844**	**-.000002**
Stddev	.001571	.007270	.000155
%RSD	358.4998	124.4021	6622.613
#1	-.000855	-.011299	.000166
#2	-.001759	-.008642	-.000140
#3	.001299	.002409	-.000033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5292.435**	**43154.25**	**2311.538**	**3773.423**	**5967.949**
Stddev	8.419	200.34	6.902	25.720	5.080
%RSD	.1590723	.4642330	.2985792	.6815986	.0851256
#1	5283.158	43048.35	2315.952	3758.730	5962.223
#2	5294.560	43385.31	2315.079	3803.121	5969.709
#3	5299.589	43029.10	2303.585	3758.418	5971.915

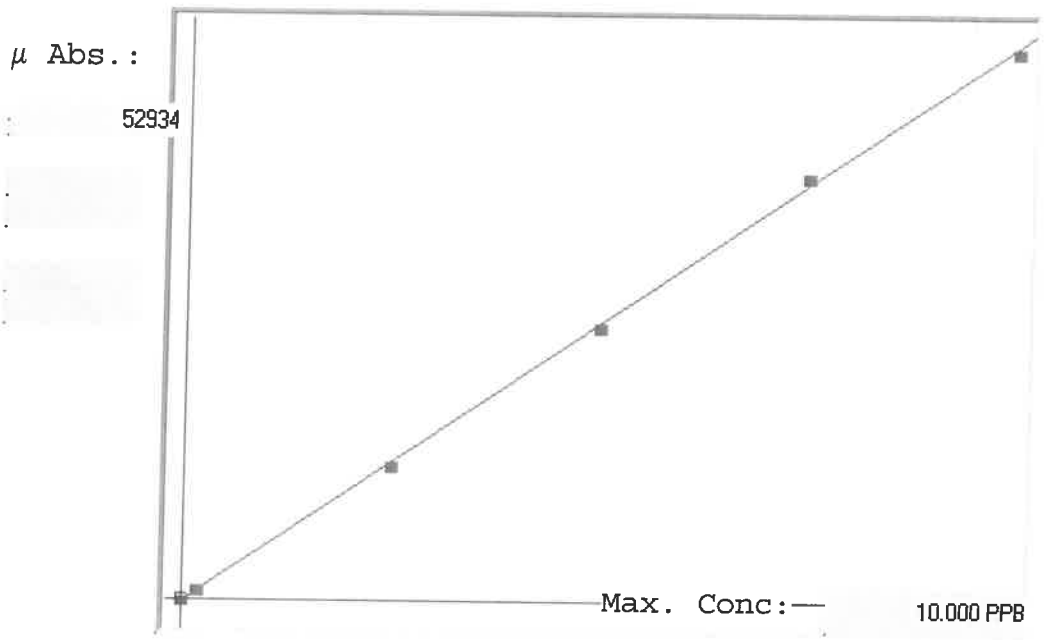
Reviewed By:Janvi
On:6/25/2025 8:44:08 AM
Inst Id :CV1
LB :LB136216

LB136216

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.8695e-004

C= 2.8384e-002

Rho= 0.9998040

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0.0	0.000	0.020	0.020	-47	0.000	-47				
0.2	0.200	0.213	0.013	989	0.0 %	989				
2.5	2.500	2.440	-0.060	12901	0.0 %	12901				
5.0	5.000	4.959	-0.041	26375	0.0 %	26375				
7.5	7.500	7.643	0.143	40732	0.0 %	40732				
10.0	10.000	9.924	-0.076	52934	0.0 %	52934				

0 6 D

6

-2

-1

2

-1

Reviewed By:Janvi
On:6/25/2025 8:44:08 AM
Inst Id :CV1
LB :LB136216

LB136216 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 20 Jun 2025 13:25:31

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	-47	-	0.00000	7471B	PPB	20 Jun 2025 13:31:53	S	Std
0.2 - 1	S0-2	989	-	0.20000	7471B	PPB	20 Jun 2025 13:37:12	S	Std
2.5 - 1	S2.5	12901	-	2.50000	7471B	PPB	20 Jun 2025 13:39:29	S	Std
5.0 - 1	S5	26375	-	5.00000	7471B	PPB	20 Jun 2025 13:41:45	S	Std
7.5 - 1	S7.5	40732	-	7.50000	7471B	PPB	20 Jun 2025 13:47:09	S	Std
10.0 - 1	S10	52934	-	10.00000	7471B	PPB	20 Jun 2025 13:49:25	S	Std
ICV47 - 1	ICV47	21240	3.9992	-	7471B	PPB	20 Jun 2025 13:52:25	U	SMPL
ICB47 - 1	ICB47	-248	-0.0180	-	7471B	PPB	20 Jun 2025 13:54:41	U	SMPL
CCV69 - 1	CCV69	26700	5.0200	-	7471B	PPB	20 Jun 2025 13:56:59	U	SMPL
CCB69 - 1	CCB69	-291	-0.0260	-	7471B	PPB	20 Jun 2025 13:59:14	U	SMPL
CRA - 1	CRA	936	0.2034	-	7471B	PPB	20 Jun 2025 14:01:33	U	SMPL
HighStd - 1	HighStd	52756	9.8912	-	7471B	PPB	20 Jun 2025 14:03:47	U	SMPL
ChkStd - 1	ChkStd	38160	7.1624	-	7471B	PPB	20 Jun 2025 14:06:05	U	SMPL
PB168569BL - 1	PBS	-325	-0.0324	-	7471B	PPB	20 Jun 2025 14:08:31	U	SMPL
PB168569BS - 1	LCSS	22400	4.2161	-	7471B	PPB	20 Jun 2025 14:10:53	U	SMPL
Q2362-01 - 1	TP-11	51	0.0379	-	7471B	PPB	20 Jun 2025 14:13:10	U	SMPL
Q2362-05 - 1	EP-6	394	0.1020	-	7471B	PPB	20 Jun 2025 14:15:29	U	SMPL
Q2364-01 - 1	GAV1A	31501	5.9175	-	7471B	PPB	20 Jun 2025 14:17:48	U	SMPL
Q2364-02 - 1	GAV1B	7197	1.3739	-	7471B	PPB	20 Jun 2025 14:20:04	U	SMPL
Q2364-03 - 1	GAV2A	28407	5.3391	-	7471B	PPB	20 Jun 2025 14:22:28	U	SMPL
CCV70 - 1	CCV70	25912	4.8726	-	7471B	PPB	20 Jun 2025 14:24:45	U	SMPL
CCB70 - 1	CCB70	-291	-0.0260	-	7471B	PPB	20 Jun 2025 14:27:11	U	SMPL
Q2364-04 - 1	GAV2B	149581	27.9926	-	7471B	PPB	20 Jun 2025 14:29:31	U	SMPL
Q2367-01 - 1	EP-4	557	0.1325	-	7471B	PPB	20 Jun 2025 14:31:46	U	SMPL
Q2367-05 - 1	EP-5	300	0.0845	-	7471B	PPB	20 Jun 2025 14:34:33	U	SMPL
Q2367-05DUP - 1	EP-5DUP	355	0.0948	-	7471B	PPB	20 Jun 2025 14:36:49	U	SMPL
Q2367-05MS - 1	EP-5MS	21267	4.0043	-	7471B	PPB	20 Jun 2025 14:39:05	U	SMPL
Q2367-05MSD - 1	EP-5MSD	19666	3.7050	-	7471B	PPB	20 Jun 2025 14:41:22	U	SMPL
Q2367-05LX5 - 1		-181	-0.0055	-	7471B	PPB	20 Jun 2025 14:43:41	U	SMPL
Q2367-05A - 1		21489	4.0458	-	7471B	PPB	20 Jun 2025 14:46:02	U	SMPL
Q2364-04DLX5 - 1		29478	5.5393	-	7471B	PPB	20 Jun 2025 14:48:19	U	SMPL
CCV71 - 1	CCV71	26100	4.9078	-	7471B	PPB	20 Jun 2025 14:50:38	U	SMPL
CCB71 - 1	CCB71	-401	-0.0466	-	7471B	PPB	20 Jun 2025 14:53:00	U	SMPL

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168564

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 06/20/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 06/20/2025 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLB.

Supervisor Signature: JSP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6007
LFS-2	1.00	M6015
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	M6162
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#2 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/20/25 13:10	SLB. met. dig	JSP Metlab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168564

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168564BL	PBS564	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168564BS	LCS564	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6015	2
Q2362-01	TP-11	N/A	2.16	100	Brown	Yellow	Medium	N/A	N/A	3
Q2362-05	EP-6	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	4
Q2363-01	GCAP1	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	5
Q2364-01	GAV1A	N/A	2.41	100	Brown	Yellow	Medium	N/A	N/A	6
Q2364-02	GAV1B	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	7
Q2364-02MS	GAV1BMS	N/A	2.28	100	Brown	Yellow	Medium	N/A	M6007,M6015	9
Q2364-02MSD	GAV1BMSD	N/A	2.40	100	Brown	Yellow	Medium	N/A	M6007,M6015	10
Q2364-02DUP	GAV1BDUP	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	8
Q2364-03	GAV2A	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	11
Q2364-04	GAV2B	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	12
Q2367-01	EP-4	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	13
Q2367-05	EP-5	N/A	2.49	100	Brown	Yellow	Medium	N/A	N/A	14
Q2371-04	RPXY42025	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	15
Q2371-05	BBXY42025	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	16

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168564 **WorkList ID :** 190296 **Department :** Digestion **Date :** 06-20-2025 09:37:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2362-01	TP-11	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D52	06/18/2025	6010D
Q2362-05	EP-6	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D52	06/18/2025	6010D
Q2363-01	GCAP1	Solid	Metals Group3	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2364-01	GAV1A	Solid	Metals ICP-TAL	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2364-02	GAV1B	Solid	Metals ICP-TAL	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2364-03	GAV2A	Solid	Metals ICP-TAL	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2364-04	GAV2B	Solid	Metals ICP-TAL	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2367-01	EP-4	Solid	Metals ICP-TAL	Cool 4 deg C	GENV01	D51	06/18/2025	6010D
Q2367-05	EP-5	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D61	06/19/2025	6010D
Q2371-04	RPXY42025	Solid	Metals Group4	Cool 4 deg C	PSEG03	D61	06/19/2025	6010D
Q2371-05	BBXY42025	Solid	Metals Group4	Cool 4 deg C	GENV01	D51	06/19/2025	6010D

Date/Time 06/20/25 9:50
Raw Sample Received by: SLS. met. div
Raw Sample Relinquished by: CL

Date/Time 06/20/25 10:50
Raw Sample Received by: QP
Raw Sample Relinquished by: SLS. met. div

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168569

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 06/20/2025 **Time :** 09:25 **Temp :** 94 °C

End Digest Date: 06/20/2025 **Time :** 09:55 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: MZ

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP86026
CCV	30mL	MP86028
CRA	30mL	MP86030
Blank Spike	0.48mL	MP86019
Matrix Spike	0.48mL	MP86019

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP86032
KMnO4 (5%)	4.5mL	MP85893
Hydroxylamine HCL (12%)	2.0mL	MP85895
PTFE Boiling Stones	----------	M5582
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	MP86020
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP86021
2.5 ppb	S2.5	30mL	MP86022
5.0 ppb	S5.0	30mL	MP86023
7.5 ppb	S7.5	30mL	MP86024
10.0 ppb	S10.0	30mL	MP86025
ICV	ICV	30mL	MP86026
ICB	ICB	30mL	MP86027
CCV	CCV	30mL	MP86028
CCB	CCB	30mL	MP86026
CRI	CRI	30mL	MP86030
CHK STD	CHK STD	30mL	MP86031

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/20/25 10:15	MB - HG - Lab	MB - Metals Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168569

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168569BL	PBS569	0.53	35	NA	N/A	3-1
PB168569BS	LCS569	0.55	35	NA	MP86019	2
Q2362-01	TP-11	0.54	35	NA	N/A	3
Q2362-05	EP-6	0.52	35	NA	N/A	4
Q2364-01	GAV1A	0.55	35	NA	N/A	5
Q2364-02	GAV1B	0.53	35	NA	N/A	6
Q2364-03	GAV2A	0.54	35	NA	N/A	7
Q2364-04	GAV2B	0.51	35	NA	N/A	8
Q2367-01	EP-4	0.50	35	NA	N/A	9
Q2367-05	EP-5	0.53	35	NA	N/A	10
Q2367-05DUP	EP-5DUP	0.52	35	NA	N/A	11
Q2367-05MS	EP-5MS	0.57	35	NA	MP86019	12
Q2367-05MSD	EP-5MSD	0.54	35	NA	MP86019	13

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 062025_7471 **WorkList ID :** 190293 **Department :** Digestion **Date :** 06-20-2025 08:30:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2364-01	GAV1A	Solid	Mercury	Cool 4 deg C	GENV01	D51	06/18/2025	7471B
Q2364-02	GAV1B	Solid	Mercury	Cool 4 deg C	GENV01	D51	06/18/2025	7471B
Q2364-03	GAV2A	Solid	Mercury	Cool 4 deg C	GENV01	D51	06/18/2025	7471B
Q2364-04	GAV2B	Solid	Mercury	Cool 4 deg C	GENV01	D51	06/18/2025	7471B
Q2362-01	TP-11	Solid	Mercury	Cool 4 deg C	PSEG03	D52	06/18/2025	7471B
Q2362-05	EP-6	Solid	Mercury	Cool 4 deg C	PSEG03	D52	06/18/2025	7471B
Q2367-01	EP-4	Solid	Mercury	Cool 4 deg C	PSEG03	D61	06/19/2025	7471B
Q2367-05	EP-5	Solid	Mercury	Cool 4 deg C	PSEG03	D61	06/19/2025	7471B

Date/Time 6/20/25 @ 8:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 6/20/25 @ 9240

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/20/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 16:50
In Date: 06/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 06/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136203

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
Q2362-01	TP-11	1	1.15	10.82	11.97	10.9	90.1	
Q2362-02	TP-11-EPH	2	1.18	9.88	11.06	9.94	88.7	
Q2362-03	TP-11-VOC	3	1.19	10.70	11.89	10.74	89.3	
Q2362-04	TP-11	4	1.15	10.82	11.97	10.9	90.1	
Q2362-05	EP-6	5	1.16	10.57	11.73	10.57	89.0	
Q2362-06	EP-6-EPH	6	1.16	10.34	11.5	10.28	88.2	
Q2362-07	EP-6-VOC	7	1.18	10.32	11.5	10.38	89.1	
Q2363-01	GCAP1	8	1.19	9.95	11.14	9.7	85.5	
Q2364-01	GAV1A	9	1.15	10.10	11.25	9.21	79.8	
Q2364-02	GAV1B	10	1.18	10.78	11.96	10.4	85.5	
Q2364-03	GAV2A	11	1.19	10.06	11.25	9.47	82.3	
Q2364-04	GAV2B	12	1.19	10.53	11.72	9.26	76.6	
Q2365-01	BU-703-COMP-01	13	1.15	10.74	11.89	10.68	88.7	
Q2365-02	BU-703-COMP-02	14	1.14	10.60	11.74	9.59	79.7	
Q2365-03	BU-703-COMP-03	15	1.17	10.22	11.39	9.59	82.4	
Q2365-04	BU-703-COMP-04	16	1.15	10.58	11.73	10.55	88.8	
Q2365-05	BU-703-COMP-05	17	1.13	10.19	11.32	8.67	74.0	
Q2365-06	BU-703-COMP-06	18	1.15	10.59	11.74	10.11	84.6	
Q2365-07	BU-703-COMP-07	19	1.13	10.28	11.41	10.02	86.5	
Q2365-08	BU-703-COMP-08	20	1.13	10.20	11.33	10.28	89.7	
Q2365-09	BU-703-COMP-09	21	1.14	10.54	11.68	9.73	81.5	
Q2367-01	EP-4	22	1.18	10.29	11.47	10.58	91.4	
Q2367-02	EP-4-EPH	23	1.19	10.01	11.2	10.24	90.4	
Q2367-03	EP-4-VOC	24	1.13	9.84	10.97	10.03	90.4	
Q2367-05	EP-5	25	1.17	10.39	11.56	10.44	89.2	
Q2367-06	EP-5-EPH	26	1.18	10.54	11.72	10.65	89.8	
Q2367-07	EP-5-VOV	27	1.15	10.45	11.6	10.56	90.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/20/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 16:50
In Date: 06/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 06/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136203

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

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WM 136203

WorkList Name : %1-061925 **WorkList ID :** 190269 **Department :** Wet-Chemistry **Date :** 06-19-2025 08:09:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2362-01	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-02	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-03	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-04	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-05	EP-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-06	EP-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2362-07	EP-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D52	06/18/2025	Chemtech -SO
Q2363-01	GCAP1	Solid	Percent Solids	Cool 4 deg C	GENV01	D51	06/18/2025	Chemtech -SO
Q2364-01	GAV1A	Solid	Percent Solids	Cool 4 deg C	GENV01	D51	06/18/2025	Chemtech -SO
Q2364-02	GAV1B	Solid	Percent Solids	Cool 4 deg C	GENV01	D51	06/18/2025	Chemtech -SO
Q2364-03	GAV2A	Solid	Percent Solids	Cool 4 deg C	GENV01	D51	06/18/2025	Chemtech -SO
Q2364-04	GAV2B	Solid	Percent Solids	Cool 4 deg C	GENV01	D51	06/18/2025	Chemtech -SO
Q2365-01	BU-703-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-02	BU-703-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-03	BU-703-COMP-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-04	BU-703-COMP-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-05	BU-703-COMP-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-06	BU-703-COMP-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-07	BU-703-COMP-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-08	BU-703-COMP-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO
Q2365-09	BU-703-COMP-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/02/2025	Chemtech -SO

Date/Time 06-19-25 1310C

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06-19-25 1700

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 136203

WorkList Name : %1-061925 **WorkList ID :** 190269 **Department :** Wet-Chemistry **Date :** 06-19-2025 08:09:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2367-01	EP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO
Q2367-02	EP-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO
Q2367-03	EP-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO
Q2367-05	EP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO
Q2367-06	EP-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO
Q2367-07	EP-5-VOV	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	06/19/2025	Chemtech -SO

Date/Time 06.19.25 13:00
Raw Sample Received by: JG WOC
Raw Sample Relinquished by: [signature]

Date/Time 06.19.25 17:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: JG WOC

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 # LB136216

Review By	jaswal	Review On	6/23/2025 11:31:03 PM
Supervise By	Janvi	Supervise On	6/25/2025 8:44:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP836020,MP836021,MP836022,MP836023,MP836024,MP836025
ICV Standard	MP836026
CCV Standard	MP836028
ICSA Standard	
CRI Standard	MP836030
LCS Standard	
Chk Standard	MP836027,MP836029,MP836031,MP836033

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/20/25 13:31		MOHAN	OK
2	S0.2	S0.2	CAL2	06/20/25 13:37		MOHAN	OK
3	S2.5	S2.5	CAL3	06/20/25 13:39		MOHAN	OK
4	S5	S5	CAL4	06/20/25 13:41		MOHAN	OK
5	S7.5	S7.5	CAL5	06/20/25 13:47		MOHAN	OK
6	S10	S10	CAL6	06/20/25 13:49		MOHAN	OK
7	ICV47	ICV47	ICV	06/20/25 13:52		MOHAN	OK
8	ICB47	ICB47	ICB	06/20/25 13:54		MOHAN	OK
9	CCV69	CCV69	CCV	06/20/25 13:56		MOHAN	OK
10	CCB69	CCB69	CCB	06/20/25 13:59		MOHAN	OK
11	CRA	CRA	CRDL	06/20/25 14:01		MOHAN	OK
12	HighStd	HighStd	HIGH STD	06/20/25 14:03		MOHAN	OK
13	ChkStd	ChkStd	SAM	06/20/25 14:06		MOHAN	OK
14	PB168569BL	PB168569BL	MB	06/20/25 14:08		MOHAN	OK
15	PB168569BS	PB168569BS	LCS	06/20/25 14:10		MOHAN	OK
16	Q2362-01	TP-11	SAM	06/20/25 14:13		MOHAN	OK
17	Q2362-05	EP-6	SAM	06/20/25 14:15		MOHAN	OK
18	Q2364-01	GAV1A	SAM	06/20/25 14:17		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 # LB136216

Review By	jaswal	Review On	6/23/2025 11:31:03 PM
Supervise By	Janvi	Supervise On	6/25/2025 8:44:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP836020,MP836021,MP836022,MP836023,MP836024,MP836025
ICV Standard	MP836026
CCV Standard	MP836028
ICSA Standard	
CRI Standard	MP836030
LCS Standard	
Chk Standard	MP836027,MP836029,MP836031,MP836033

19	Q2364-02	GAV1B	SAM	06/20/25 14:20		MOHAN	OK
20	Q2364-03	GAV2A	SAM	06/20/25 14:22		MOHAN	OK
21	CCV70	CCV70	CCV	06/20/25 14:24		MOHAN	OK
22	CCB70	CCB70	CCB	06/20/25 14:27		MOHAN	OK
23	Q2364-04	GAV2B	SAM	06/20/25 14:29	Hg high	MOHAN	Dilution
24	Q2367-01	EP-4	SAM	06/20/25 14:31		MOHAN	OK
25	Q2367-05	EP-5	SAM	06/20/25 14:34		MOHAN	OK
26	Q2367-05DUP	EP-5DUP	DUP	06/20/25 14:36		MOHAN	OK
27	Q2367-05MS	EP-5MS	MS	06/20/25 14:39		MOHAN	OK
28	Q2367-05MSD	EP-5MSD	MSD	06/20/25 14:41		MOHAN	OK
29	Q2367-05L	EP-5L	SD	06/20/25 14:43		MOHAN	OK
30	Q2367-05A	EP-5A	PS	06/20/25 14:46		MOHAN	OK
31	Q2364-04DL	GAV2BDL	SAM	06/20/25 14:48	5X for Hg	MOHAN	Confirms
32	CCV71	CCV71	CCV	06/20/25 14:50		MOHAN	OK
33	CCB71	CCB71	CCB	06/20/25 14:53		MOHAN	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136236

Review By	jaswal	Review On	6/24/2025 4:50:49 AM
Supervise By	Janvi	Supervise On	6/25/2025 8:43:58 AM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/23/25 11:53		admin	OK
2	S1	S1	CAL2	06/23/25 11:58		admin	OK
3	S2	S2	CAL3	06/23/25 12:02		admin	OK
4	S3	S3	CAL4	06/23/25 12:07		admin	OK
5	S4	S4	CAL5	06/23/25 12:11		admin	OK
6	S5	S5	CAL6	06/23/25 12:15		admin	OK
7	ICV01	ICV01	ICV	06/23/25 12:34		admin	OK
8	LLICV01	LLICV01	LLICV	06/23/25 13:09		admin	OK
9	ICB01	ICB01	ICB	06/23/25 13:19		admin	OK
10	CRI01	CRI01	CRDL	06/23/25 13:23		admin	OK
11	ICSA01	ICSA01	ICSA	06/23/25 13:34		admin	OK
12	ICSAB01	ICSAB01	ICSAB	06/23/25 13:43		admin	OK
13	ICSADL	ICSADL	ICSA	06/23/25 13:47		admin	OK
14	ICSABDL	ICSABDL	ICSAB	06/23/25 13:52		admin	OK
15	CCV01	CCV01	CCV	06/23/25 13:56		admin	OK
16	CCB01	CCB01	CCB	06/23/25 14:05		admin	OK
17	Q2347-01	TP-10	SAM	06/23/25 14:09		admin	OK
18	Q2354-01	3321	SAM	06/23/25 14:14		admin	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136236

Review By	jaswal	Review On	6/24/2025 4:50:49 AM
Supervise By	Janvi	Supervise On	6/25/2025 8:43:58 AM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2355-01	3897	SAM	06/23/25 14:18		admin	OK
20	Q2355-03	20071	SAM	06/23/25 14:22		admin	OK
21	PB168553BL	PB168553BL	MB	06/23/25 14:27		admin	OK
22	PB168553BS	PB168553BS	LCS	06/23/25 14:31		admin	OK
23	PB168535BL	PB168535BL	MB	06/23/25 14:36		admin	OK
24	PB168535BS	PB168535BS	LCS	06/23/25 14:40		admin	OK
25	PB168514TB	PB168514TB	MB	06/23/25 14:44		admin	OK
26	PB168544TB	PB168544TB	MB	06/23/25 14:49		admin	OK
27	CCV02	CCV02	CCV	06/23/25 14:54		admin	OK
28	CCB02	CCB02	CCB	06/23/25 14:58		admin	OK
29	PB168565BL	PB168565BL	MB	06/23/25 15:02		admin	OK
30	PB168565BS	PB168565BS	LCS	06/23/25 15:07		admin	OK
31	PB168564BL	PB168564BL	MB	06/23/25 15:11		admin	OK
32	PB168564BS	PB168564BS	LCS	06/23/25 15:16		admin	OK
33	Q2354-02	3321	SAM	06/23/25 15:20		admin	OK
34	Q2355-02	3897	SAM	06/23/25 15:25		admin	OK
35	Q2362-04	TP-11	SAM	06/23/25 15:29	Not required	admin	Not Ok
36	Q2362-08	EP-6	SAM	06/23/25 15:34		admin	OK
37	Q2367-04	EP-4	SAM	06/23/25 15:38	Not Required	admin	Not Ok
38	Q2367-08	EP-5	SAM	06/23/25 15:43		admin	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136236

Review By	jaswal	Review On	6/24/2025 4:50:49 AM
Supervise By	Janvi	Supervise On	6/25/2025 8:43:58 AM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

39	CCV03	CCV03	CCV	06/23/25 15:47		admin	OK
40	CCB03	CCB03	CCB	06/23/25 15:52		admin	OK
41	Q2367-08DUP	EP-5DUP	DUP	06/23/25 15:57		admin	OK
42	Q2367-08L	EP-5L	SD	06/23/25 16:02		admin	OK
43	Q2367-08MS	EP-5MS	MS	06/23/25 16:06		admin	OK
44	Q2367-08MSD	EP-5MSD	MSD	06/23/25 16:11		admin	OK
45	Q2367-08A	EP-5A	PS	06/23/25 16:15		admin	OK
46	Q2362-01	TP-11	SAM	06/23/25 16:20		admin	OK
47	Q2362-05	EP-6	SAM	06/23/25 16:24		admin	OK
48	Q2363-01	GCAP1	SAM	06/23/25 16:28		admin	OK
49	Q2364-01	GAV1A	SAM	06/23/25 16:33		admin	OK
50	Q2364-02	GAV1B	SAM	06/23/25 16:37		admin	OK
51	CCV04	CCV04	CCV	06/23/25 16:51		admin	OK
52	CCB04	CCB04	CCB	06/23/25 16:56		admin	OK
53	Q2364-02DUP	GAV1BDUP	DUP	06/23/25 17:01		admin	OK
54	Q2364-02L	GAV1BL	SD	06/23/25 17:06		admin	OK
55	Q2364-02MS	GAV1BMS	MS	06/23/25 17:10		admin	OK
56	Q2364-02MSD	GAV1BMSD	MSD	06/23/25 17:14		admin	OK
57	Q2364-02A	GAV1BA	PS	06/23/25 17:19		admin	OK
58	Q2364-03	GAV2A	SAM	06/23/25 17:23		admin	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136236

Review By	jaswal	Review On	6/24/2025 4:50:49 AM
Supervise By	Janvi	Supervise On	6/25/2025 8:43:58 AM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

59	Q2364-04	GAV2B	SAM	06/23/25 17:27	Zn high	admin	Dilution
60	Q2367-01	EP-4	SAM	06/23/25 17:32		admin	OK
61	Q2367-05	EP-5	SAM	06/23/25 17:36		admin	OK
62	Q2371-04	RPXY42025	SAM	06/23/25 17:41		admin	OK
63	CCV05	CCV05	CCV	06/23/25 17:45		admin	OK
64	CCB05	CCB05	CCB	06/23/25 17:49		admin	OK
65	Q2371-05	BBX42025	SAM	06/23/25 17:54		admin	OK
66	PB168551BL	PB168551BL	MB	06/23/25 17:58	NOT USE	admin	Not Ok
67	PB168551BS	PB168551BS	LCS	06/23/25 18:03	NOT USE	admin	Not Ok
68	Q2351-01	FAIRLAWN-SUMP	SAM	06/23/25 18:07		admin	OK
69	Q2354-05	3311	SAM	06/23/25 18:12	K oversaturated	admin	Dilution
70	Q2344-01	MW-1	SAM	06/23/25 18:16		admin	OK
71	Q2344-02	MW-1	SAM	06/23/25 18:20		admin	OK
72	Q2344-03	MW-3	SAM	06/23/25 18:25		admin	OK
73	Q2344-04	MW-3	SAM	06/23/25 18:30		admin	OK
74	Q2344-05	MW-4	SAM	06/23/25 18:34		admin	OK
75	CCV06	CCV06	CCV	06/23/25 18:39		admin	OK
76	CCB06	CCB06	CCB	06/23/25 18:43		admin	OK
77	Q2344-06	MW-4	SAM	06/23/25 18:48		admin	OK
78	Q2344-07	MW-2	SAM	06/23/25 18:52		admin	OK

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Instrument ID: P5

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Supervise By	Janvi	Supervise On	6/25/2025 8:43:58 AM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

79	Q2344-07DUP	MW-2DUP	DUP	06/23/25 18:57		admin	OK
80	Q2344-07L	MW-2L	SD	06/23/25 19:02		admin	OK
81	Q2344-07MS	MW-2MS	MS	06/23/25 19:06		admin	OK
82	Q2344-07MSD	MW-2MSD	MSD	06/23/25 19:10		admin	OK
83	Q2344-07A	MW-2A	PS	06/23/25 19:15		admin	OK
84	Q2344-08	MW-2	SAM	06/23/25 19:19		admin	OK
85	CCV07	CCV07	CCV	06/23/25 19:24		admin	OK
86	CCB07	CCB07	CCB	06/23/25 19:28		admin	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136273

Review By	Janvi	Review On	6/26/2025 11:24:19 AM
Supervise By	jaswal	Supervise On	6/26/2025 3:29:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85934
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/25/25 12:23		Jaswal	OK
2	S1	S1	CAL2	06/25/25 12:27		Jaswal	OK
3	S2	S2	CAL3	06/25/25 12:32		Jaswal	OK
4	S3	S3	CAL4	06/25/25 12:36		Jaswal	OK
5	S4	S4	CAL5	06/25/25 12:40		Jaswal	OK
6	S5	S5	CAL6	06/25/25 12:44		Jaswal	OK
7	ICV01	ICV01	ICV	06/25/25 13:08	ICV fail for Sb,Cu (200.7) (95-105)	Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/25/25 13:20		Jaswal	OK
9	ICB01	ICB01	ICB	06/25/25 14:53		Jaswal	OK
10	CRI01	CRI01	CRDL	06/25/25 15:24		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/25/25 15:29		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/25/25 15:51		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/25/25 15:55		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/25/25 15:59		Jaswal	OK
15	CCV01	CCV01	CCV	06/25/25 16:04		Jaswal	OK
16	CCB01	CCB01	CCB	06/25/25 16:09		Jaswal	OK
17	Q2385-01	A5311	SAM	06/25/25 16:13		Jaswal	OK
18	Q2385-01DUP	A5311DUP	DUP	06/25/25 16:17		Jaswal	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136273

Review By	Janvi	Review On	6/26/2025 11:24:19 AM
Supervise By	jaswal	Supervise On	6/26/2025 3:29:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85934
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2385-01L	A5311L	SD	06/25/25 16:22		Jaswal	OK
20	Q2385-01MS	A5311MS	MS	06/25/25 16:26		Jaswal	OK
21	Q2385-01MSD	A5311MSD	MSD	06/25/25 16:31		Jaswal	OK
22	Q2385-01A	A5311A	PS	06/25/25 16:35		Jaswal	OK
23	Q2354-05DL	3311DL	SAM	06/25/25 16:39	5X for K	Jaswal	Confirms
24	Q2355-02	3897	SAM	06/25/25 16:44		Jaswal	OK
25	Q2362-04	TP-11	SAM	06/25/25 16:48		Jaswal	OK
26	Q2364-04DL	GAV2BDL	SAM	06/25/25 16:53	5X for Zn,Still high	Jaswal	Dilution
27	CCV02	CCV02	CCV	06/25/25 16:57		Jaswal	OK
28	CCB02	CCB02	CCB	06/25/25 17:09		Jaswal	OK
29	Q2364-04DL2	GAV2BDL2	SAM	06/25/25 17:15	10X for Zn	Jaswal	Confirms
30	Q2380-03DL	VNJ-211DL	SAM	06/25/25 17:24	5X for Na	Jaswal	Confirms
31	Q2380-05DL	RBR-200059DL	SAM	06/25/25 17:28	5X for Na	Jaswal	Confirms
32	Q2381-01	291431	SAM	06/25/25 17:33		Jaswal	Not Ok
33	Q2381-01DUP	291431DUP	DUP	06/25/25 17:37	Na oversaturated	Jaswal	Not Ok
34	Q2381-01L	291431L	SD	06/25/25 17:41	Bad Injection	Jaswal	Not Ok
35	Q2381-01MS	291431MS	MS	06/25/25 17:46	Bad Injection	Jaswal	Not Ok
36	Q2381-01MSD	291431MSD	MSD	06/25/25 17:50		Jaswal	Not Ok
37	Q2381-01A	291431A	PS	06/25/25 17:55	Bad Injection	Jaswal	Not Ok
38	CCV03	CCV03	CCV	06/25/25 18:00		Jaswal	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136273

Review By	Janvi	Review On	6/26/2025 11:24:19 AM
Supervise By	jaswal	Supervise On	6/26/2025 3:29:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85934
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

39	CCB03	CCB03	CCB	06/25/25 18:07		Jaswal	OK
40	Q2367-04	EP-4	SAM	06/25/25 18:12		Jaswal	OK
41	Q2386-02	SU-1-062025	SAM	06/25/25 18:16		Jaswal	OK
42	Q2392-01	S-1	SAM	06/25/25 18:21		Jaswal	OK
43	Q2381-01DL	291431DL	SAM	06/25/25 18:29	Not use	Jaswal	Not Ok
44	Q2381-01DUPDL	291431DUPDL	DUP	06/25/25 18:34	Not use	Jaswal	Not Ok
45	Q2381-01LDL	291431LDL	SD	06/25/25 18:38	Not use	Jaswal	Not Ok
46	Q2381-01MSDL	291431MSDL	MS	06/25/25 18:42	Not use	Jaswal	Not Ok
47	Q2381-01MSDDL	291431MSDDL	MSD	06/25/25 18:47	Not use	Jaswal	Not Ok
48	Q2381-01ADL	291431ADL	PS	06/25/25 18:51	Not use	Jaswal	Not Ok
49	CCV04	CCV04	CCV	06/25/25 18:55		Jaswal	OK
50	CCB04	CCB04	CCB	06/25/25 18:59		Jaswal	OK
51	Q2426-01	001-WILLETS-PT-BL\	SAM	06/25/25 19:04		Jaswal	OK
52	Q2426-02	002-35th-Ave(May)	SAM	06/25/25 19:09		Jaswal	OK
53	Q2388-04	TP-12	SAM	06/25/25 19:13		Jaswal	OK
54	Q2389-04	MH-J-I	SAM	06/25/25 19:18	Bad Injection	Jaswal	Not Ok
55	Q2391-01	AUD-1623	SAM	06/25/25 19:22		Jaswal	OK
56	Q2394-04	MH-K/L	SAM	06/25/25 19:29	Bad Injection	Jaswal	Not Ok
57	Q2399-04	TP-13	SAM	06/25/25 19:34		Jaswal	OK
58	Q2399-08	EP-13	SAM	06/25/25 19:39		Jaswal	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136273

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Supervise By	jaswal	Supervise On	6/26/2025 3:29:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85934
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

59	Q2405-04	MH-M/N	SAM	06/25/25 19:43		Jaswal	OK
60	PB168571TB	PB168571TB	MB	06/25/25 19:48		Jaswal	OK
61	CCV05	CCV05	CCV	06/25/25 19:52		Jaswal	OK
62	CCB05	CCB05	CCB	06/25/25 19:57		Jaswal	OK
63	PB168613BL	PB168613BL	MB	06/25/25 20:01	CCB fail for Cr	Jaswal	Not Ok
64	PB168613BS	PB168613BS	LCS	06/25/25 20:06	CCB fail for Cr	Jaswal	Not Ok
65	Q2409-02	COP-SOIL-PILE	SAM	06/25/25 20:10	CCB fail for Cr	Jaswal	Not Ok
66	Q2409-02DUP	COP-SOIL-PILEDUP	DUP	06/25/25 20:14	CCB fail for Cr	Jaswal	Not Ok
67	Q2409-02L	COP-SOIL-PILEL	SD	06/25/25 20:19	CCB fail for Cr	Jaswal	Not Ok
68	Q2409-02MS	COP-SOIL-PILEMS	MS	06/25/25 20:23	CCB fail for Cr	Jaswal	Not Ok
69	Q2409-02MSD	COP-SOIL-PILEMSD	MSD	06/25/25 20:28	CCB fail for Cr	Jaswal	Not Ok
70	Q2409-02A	COP-SOIL-PILEA	PS	06/25/25 20:32	CCB fail for Cr	Jaswal	Not Ok
71	Q2381-01DL2	291431DL2	SAM	06/25/25 20:37	CCB fail for Cr	Jaswal	Not Ok
72	Q2381-01DUPDL2	291431DUPDL2	DUP	06/25/25 20:41	CCB fail for Cr	Jaswal	Not Ok
73	CCV06	CCV06	CCV	06/25/25 20:46		Jaswal	Not Ok
74	CCB06	CCB06	CCB	06/25/25 20:50	Fail for Cr	Jaswal	Not Ok
75	Q2381-01LDL2	291431LDL2	SD	06/25/25 20:54	CCB fail for Cr	Jaswal	Not Ok
76	Q2381-01MSDL2	291431MSDL2	MS	06/25/25 20:59	CCB fail for Cr	Jaswal	Not Ok
77	Q2381-01MSDDL2	291431MSDDL2	MSD	06/25/25 21:03	CCB fail for Cr	Jaswal	Not Ok
78	Q2381-01ADL2	291431ADL2	PS	06/25/25 21:07		Jaswal	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136273

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Supervise By	jaswal	Supervise On	6/26/2025 3:29:22 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85934
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

79	CCV07	CCV07	CCV	06/25/25 21:12		Jaswal	Not Ok
80	CCB07	CCB07	CCB	06/25/25 21:16		Jaswal	Not Ok

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Prep Standard - Chemical Standard Summary

Order ID : Q2364

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB168564,PB168569,

Sequence ID/Qc Batch ID: LB136216,LB136236,LB136236,LB136236,LB136273,

Standard ID :

MP836020,MP836021,MP836022,MP836023,MP836024,MP836025,MP836026,MP836027,MP836028,MP836029,MP836030,MP836031,MP836033,MP84041,MP85829,MP85867,MP85868,MP85869,MP85870,MP85871,MP85872,MP85873,MP85874,MP85875,MP85876,MP85877,MP85893,MP85895,MP85896,MP85897,MP86008,MP86019,MP86026,MP86028,MP86030,MP86032,

Chemical ID :

M4371,M4916,M5062,M5466,M5467,M5471,M5581,M5582,M5658,M5697,M5747,M5748,M5798,M5799,M5800,M5801,M5811,M5814,M5820,M5884,M5942,M5962,M5969,M5970,M5984,M5985,M5996,M5997,M6007,M6015,M6021,M6023,M6028,M6030,M6032,M6077,M6126,M6127,M6128,M6137,M6138,M6142,M6144,M6145,M6146,M6150,M6151,M6152,M6155,M6158,M6159,M6162,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
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP85829	05/30/2025	06/20/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6162 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP85867	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP85868	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5471 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5970 + 5.00000ml of M5996 + 5.00000ml of M5997 + 5.00000ml of M6077 + 5.00000ml of M6146 + 455.00000ml of MP85867 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP85869	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 50.00000ml of MP85867 + 50.00000ml of MP85868 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP85870	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 25.00000ml of MP85868 + 75.00000ml of MP85867 = 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
908	ICP AES S2/CRI MINERALS ONLY STD	MP85871	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 8.00000ml of MP85868 + 92.00000ml of MP85867 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP85872	06/02/2025	06/23/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 10.00000ml of M6150 + 90.00000ml of MP85867 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP85873	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP85867 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP85874	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 10.00000ml of M6152 + 10.00000ml of M6155 + 80.00000ml of MP85867 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP85875	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 50.00000ml of MP85867 + 50.00000ml of MP85868 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP85876	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP85877	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP85893	06/05/2025	12/05/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/14/2025

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	MP85895	06/05/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/14/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP85896	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 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 M5697 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5969 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5942 + 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 M6127 + 1.00000ml of M6138 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M6137 + 90.03000ml of MP85867 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP85897	06/02/2025	06/25/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/14/2025

FROM 2.00000ml of MP85896 + 90.03000ml of MP85867 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP86008	06/19/2025	06/20/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 06/19/2025

FROM 1.00000ml of M6162 + 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP86019	06/19/2025	06/20/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 06/19/2025

FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86008 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3133	BE 5PPM	MP86026	06/13/2025	06/20/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/19/2025

FROM 0.05000ml of M5798 + 9.95000ml of MP85829 = Final Quantity: 10.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4165	NA 800PPM	MP86028	06/13/2025	06/20/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/19/2025

FROM 0.80000ml of M6144 + 9.20000ml of MP85829 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3476	MG 700PPM	MP86030	06/13/2025	06/20/2025	Sarabjit Jaswal	None	None	Mohan Bera 06/19/2025

FROM 0.70000ml of M6127 + 9.30000ml of MP85829 = Final Quantity: 10.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3158	MG 1000PPM ICPMS	MP86032	06/13/2025	06/20/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/19/2025

FROM 1.00000ml of M6127 + 9.00000ml of MP85829 = Final Quantity: 10.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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.	57058 / Cerium, 1000PPM, 100ML	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

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	M5471

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CHEMICAL RECEIPT LOG BOOK

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 #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	12/31/2025	06/17/2023 / Al-Terek	06/12/2023 / jaswal	M5582

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.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

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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.	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

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

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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.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	03/31/2026	03/31/2025 / kareem	06/11/2024 / Jaswal	M5969

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

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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	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

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-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	05/07/2024 / JANVI	02/22/2024 / kareem	M5996

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	05/27/2026	05/27/2025 / Janvi	05/14/2024 / Jaswal	M6007

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	03/17/2028	06/19/2025 / MOHAN	05/14/2024 / Jaswal	M6015

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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.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

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	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

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

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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.	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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

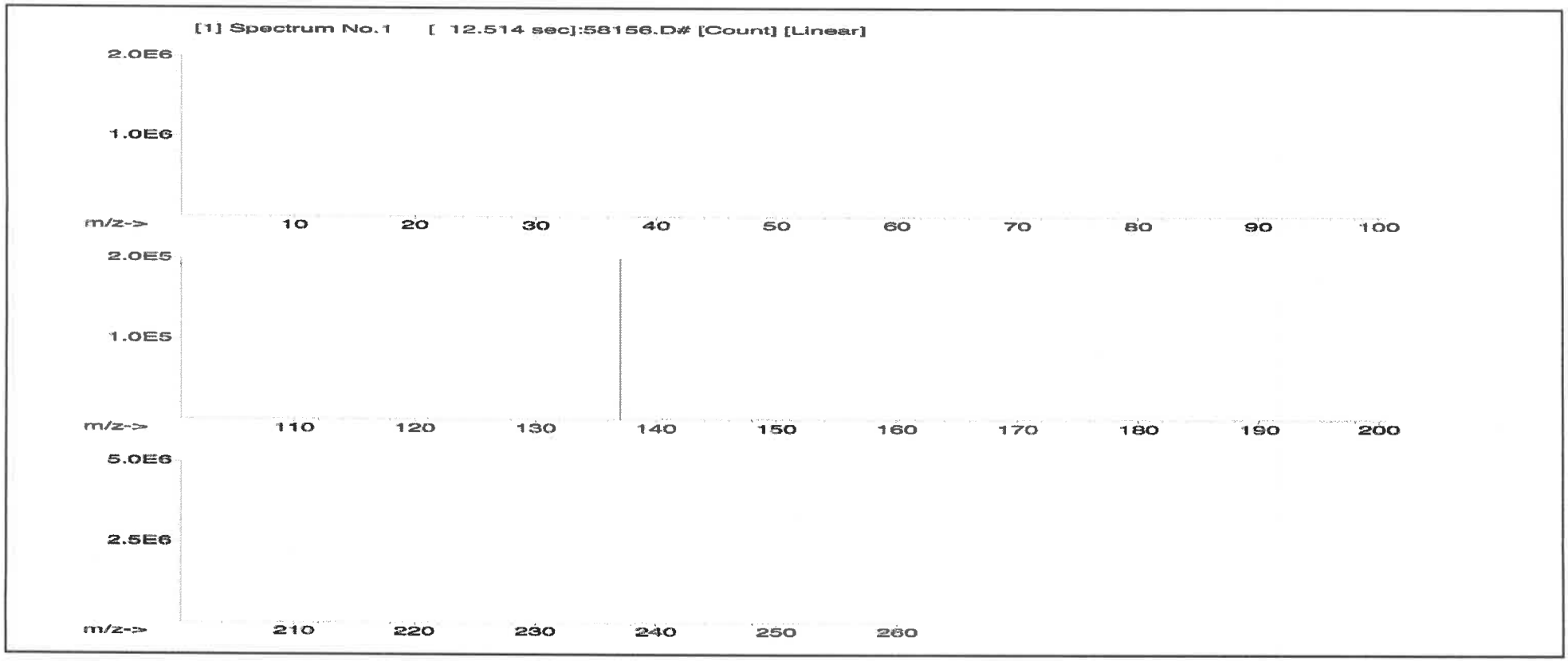
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

R 8/5/24

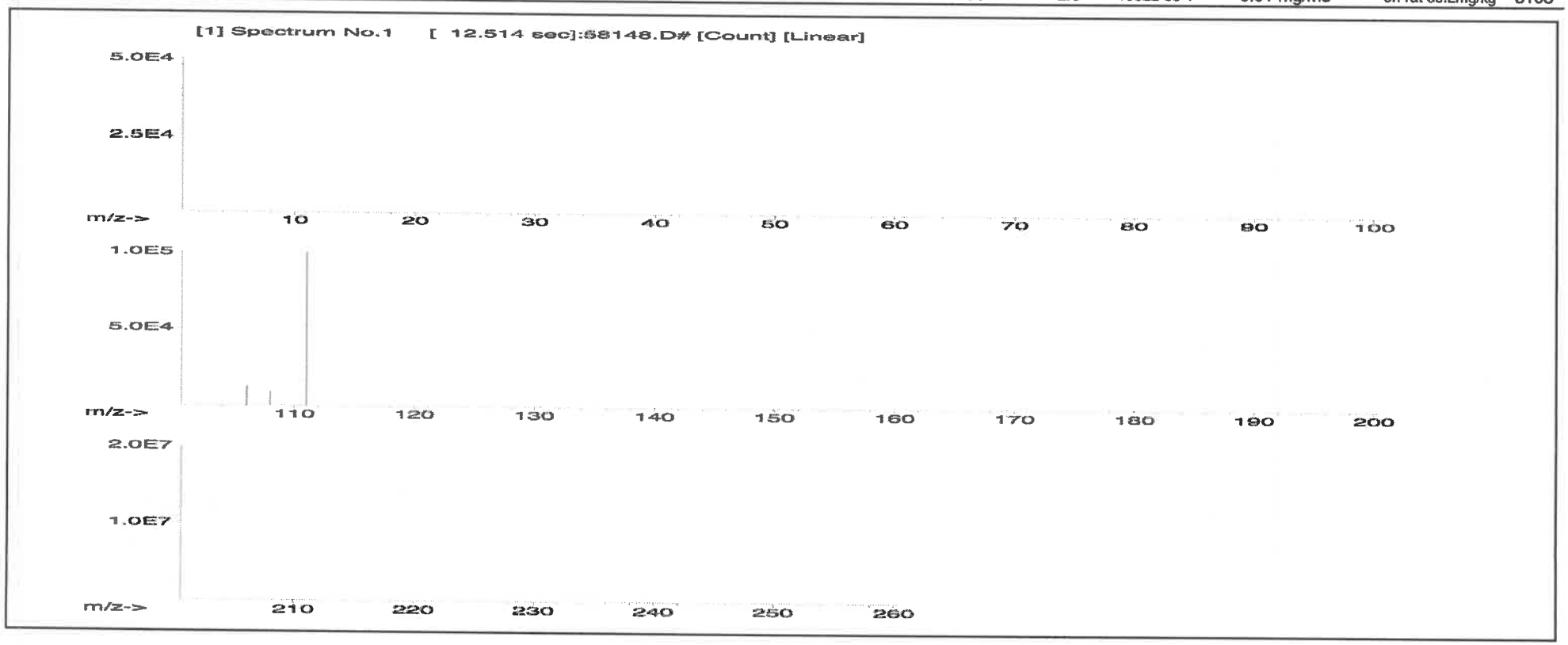
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady		
Formulated By:	Aleah O'Brady	070124
Pedro Rentas		
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.

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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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R : 01/03/24. M5810, M5811

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

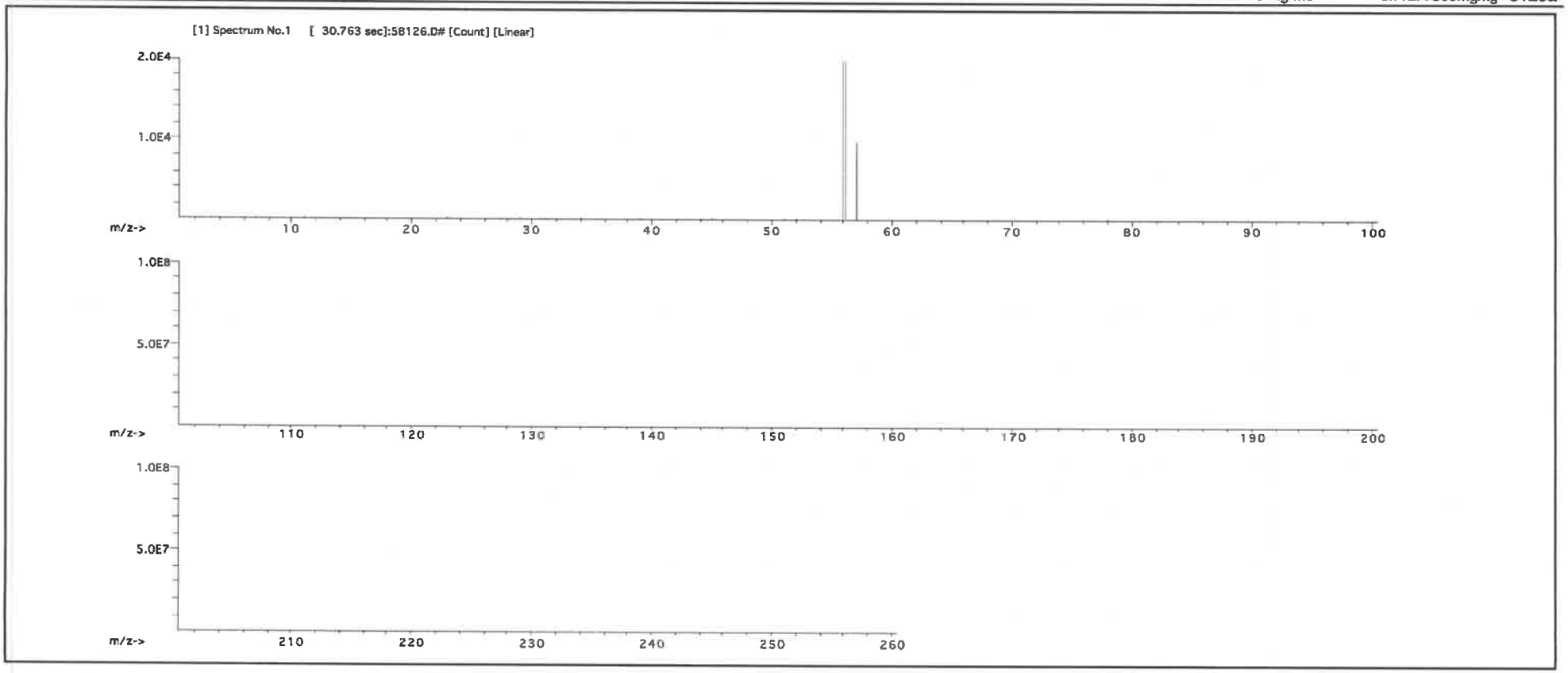
	Lot #		
Solvent:	21110221	Nitric Acid	
5.0%	250.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.12	Flask Uncertainty		

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:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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RD:05/14/2024

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 17, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

N 5466

Certified Reference Material CRM

R: 03/01/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

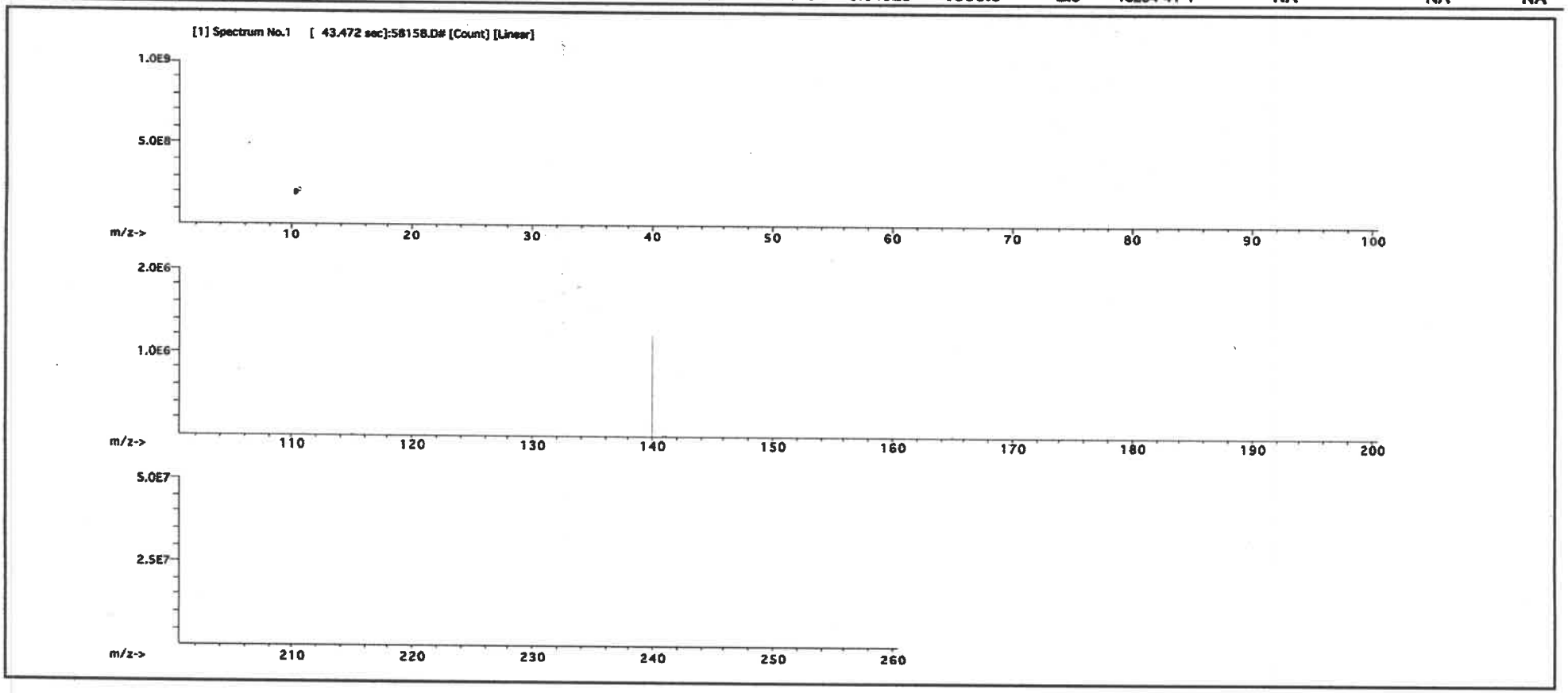
Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

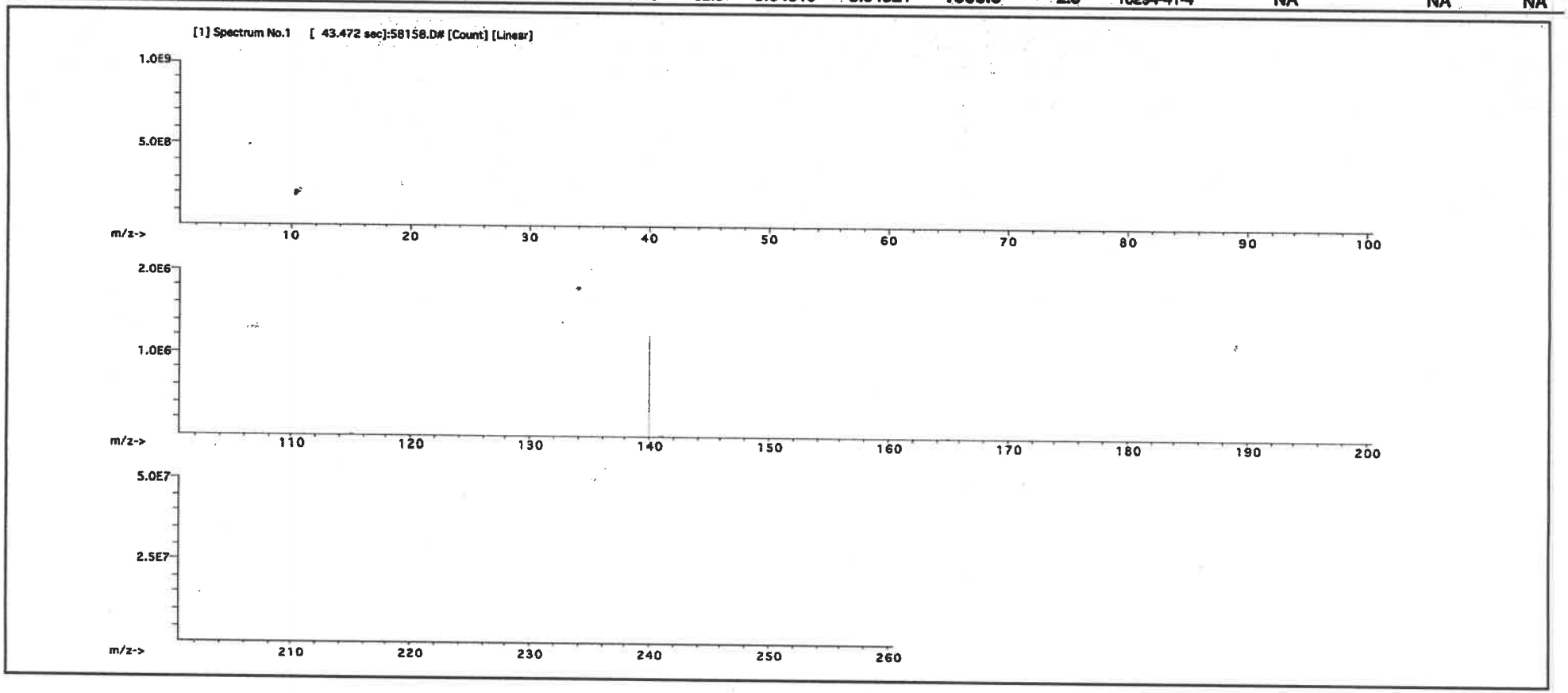
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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.

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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

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

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M5658 R! 8/25/23

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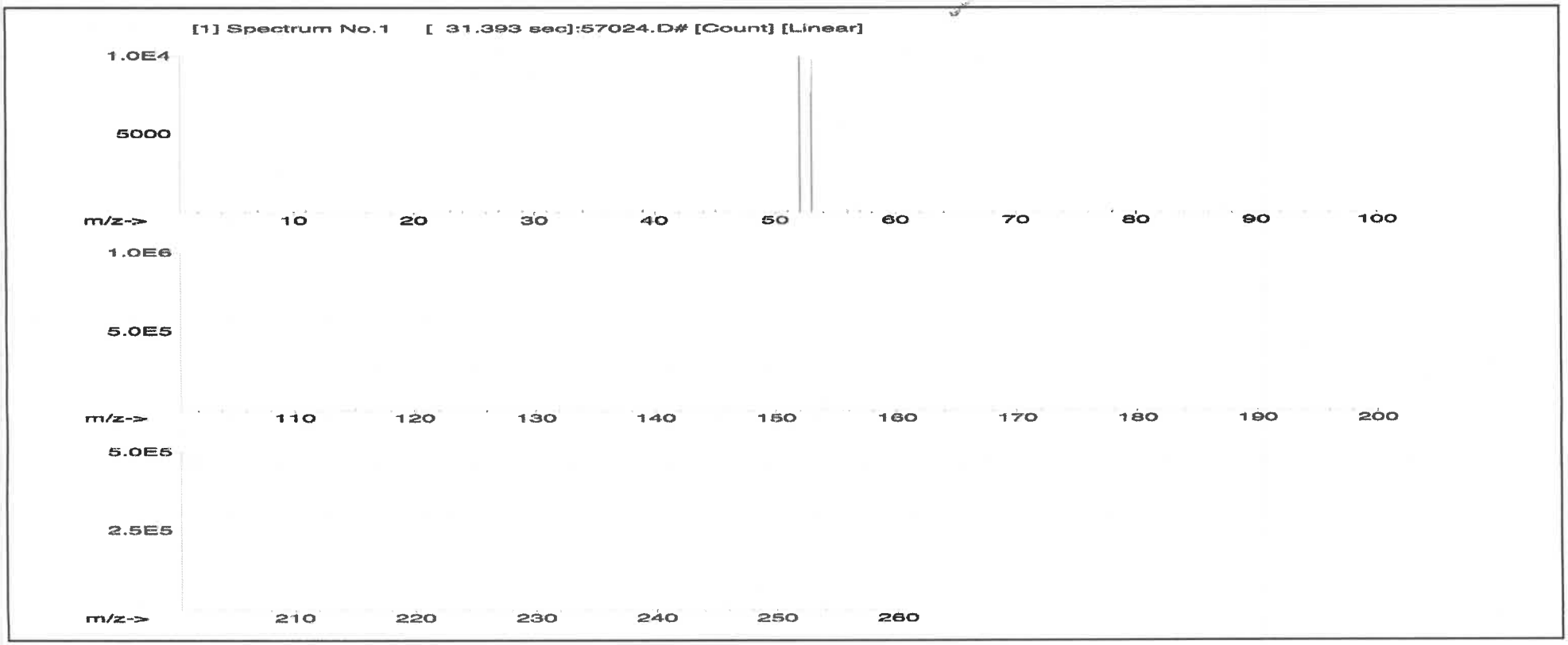
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5697 R: 10/27/23

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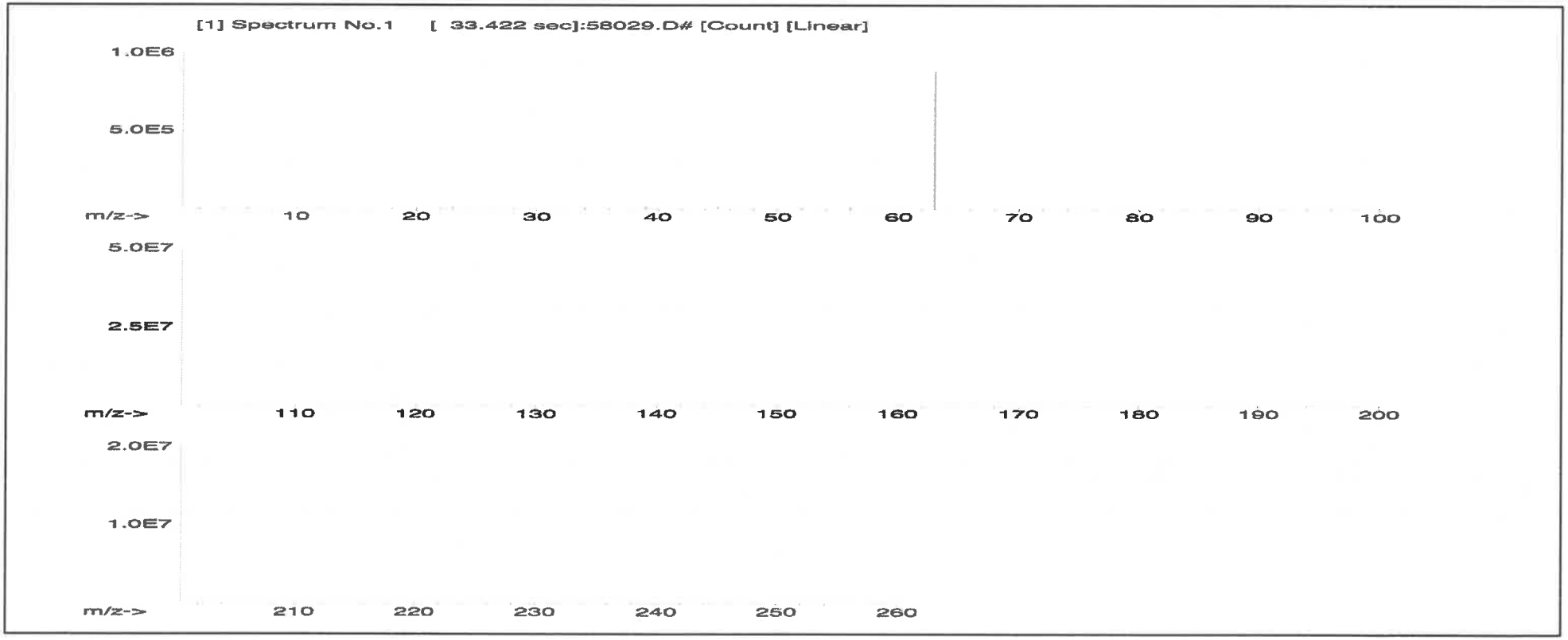
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

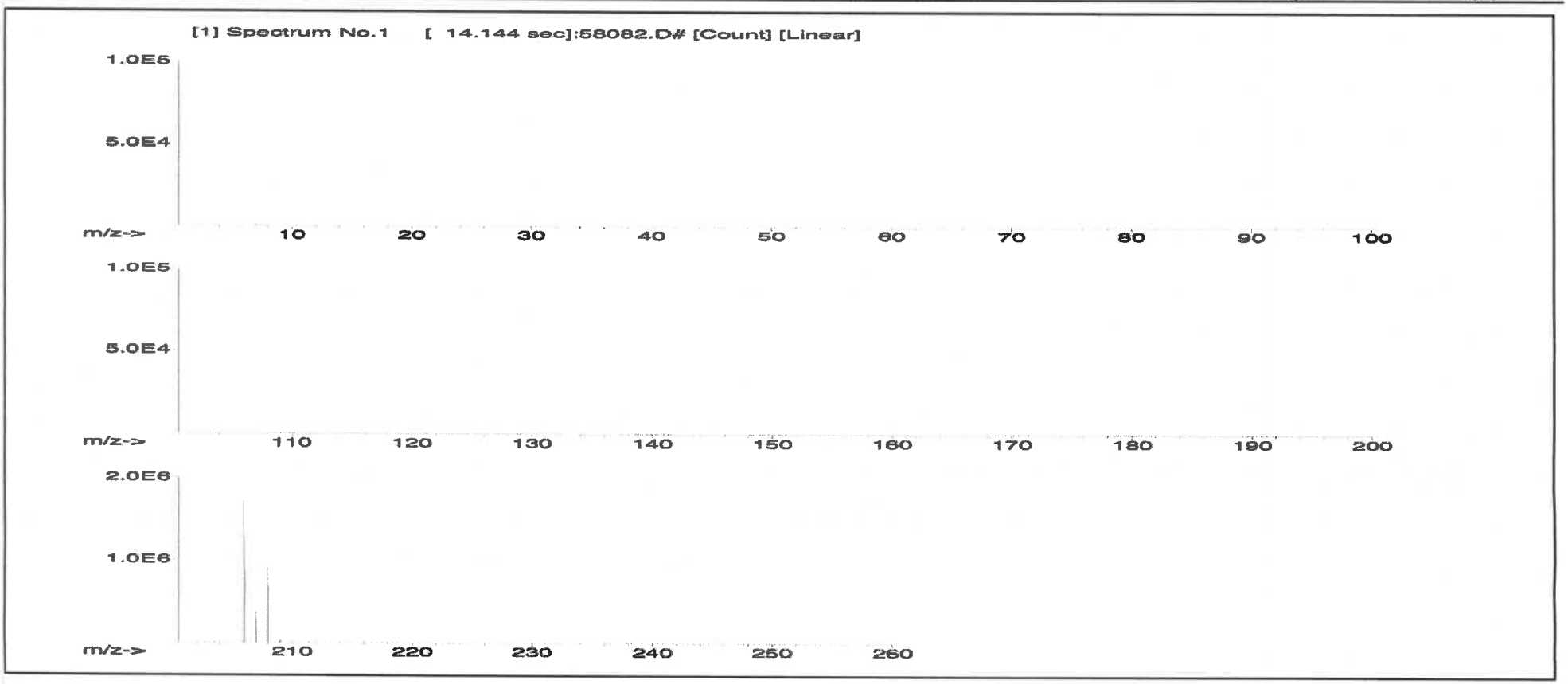
Weight shown below was diluted to (mL): 3000.41 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 12/20/23 M5748

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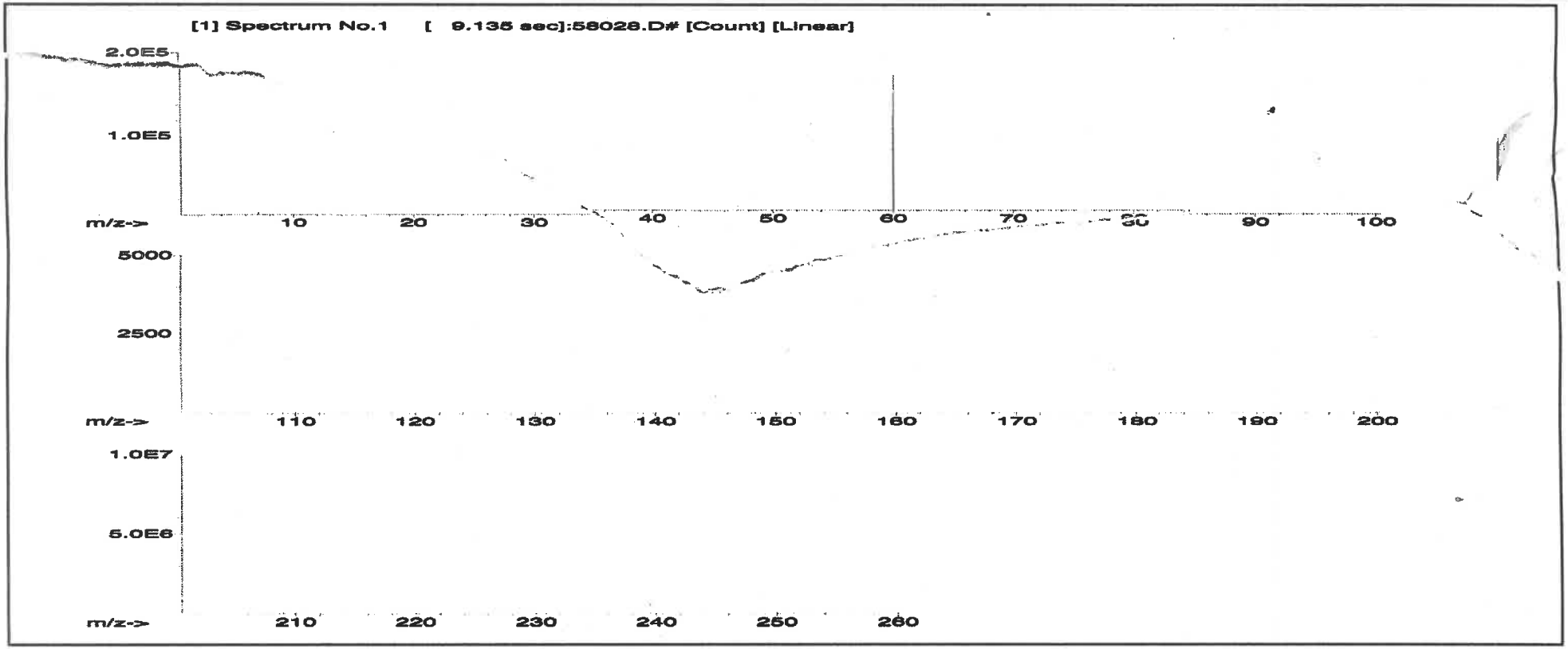
CERTIFIED WEIGHT REPORT:

		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:

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R: 02/09/24 M5798

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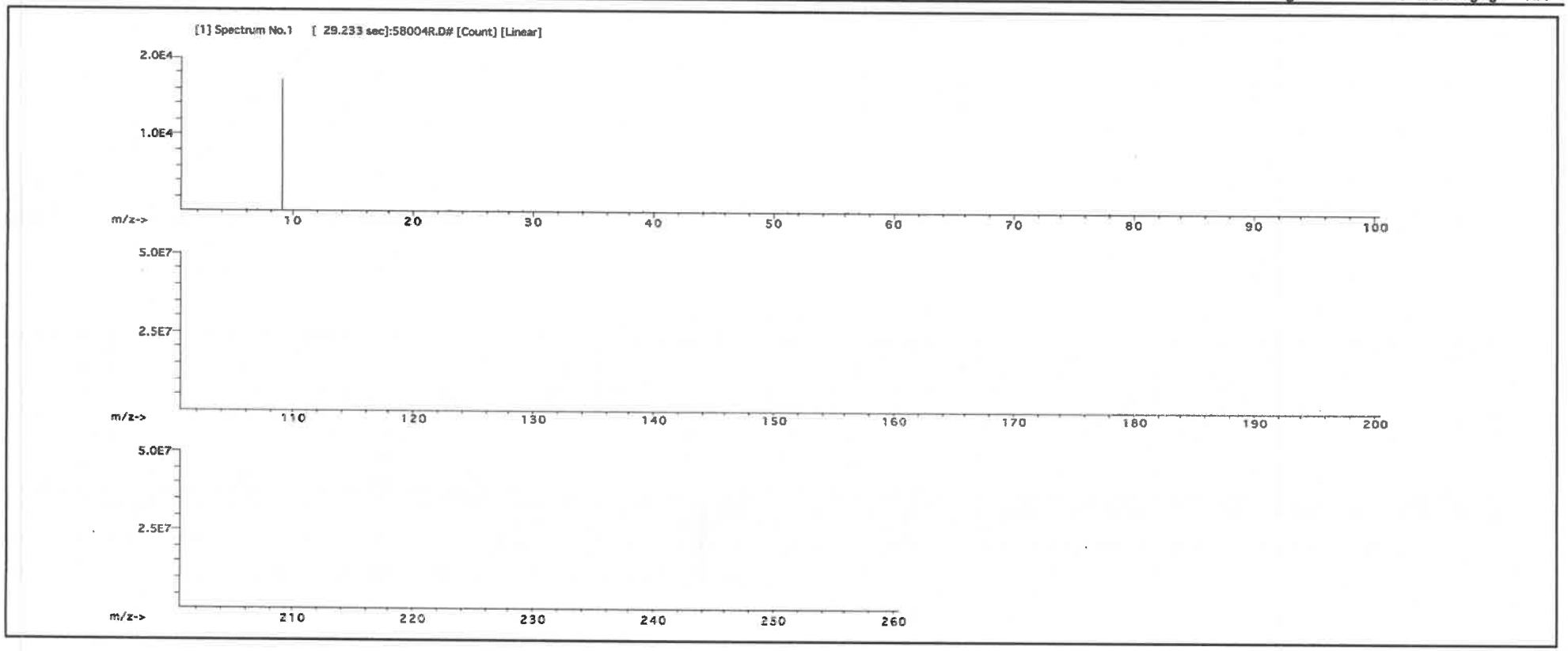
CERTIFIED WEIGHT REPORT:

		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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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

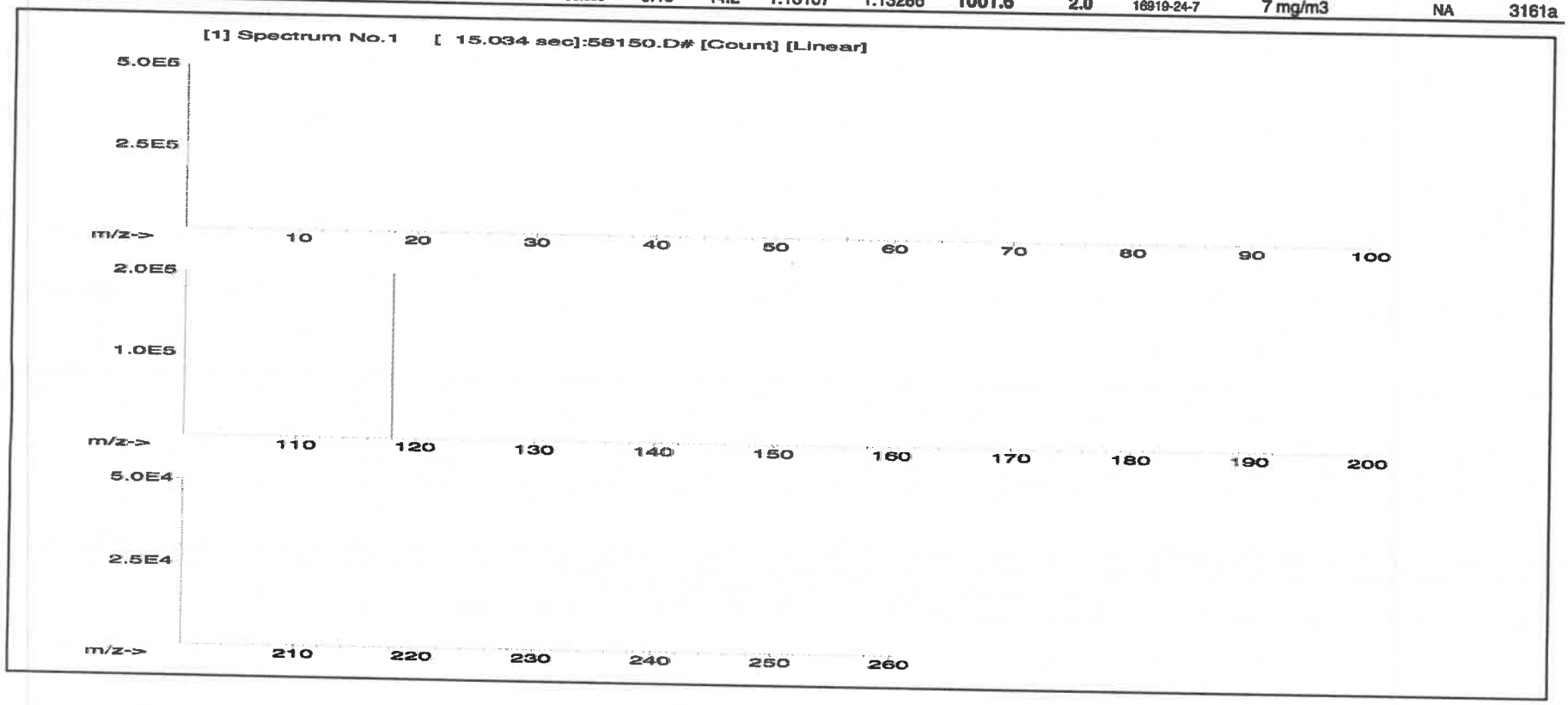
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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:

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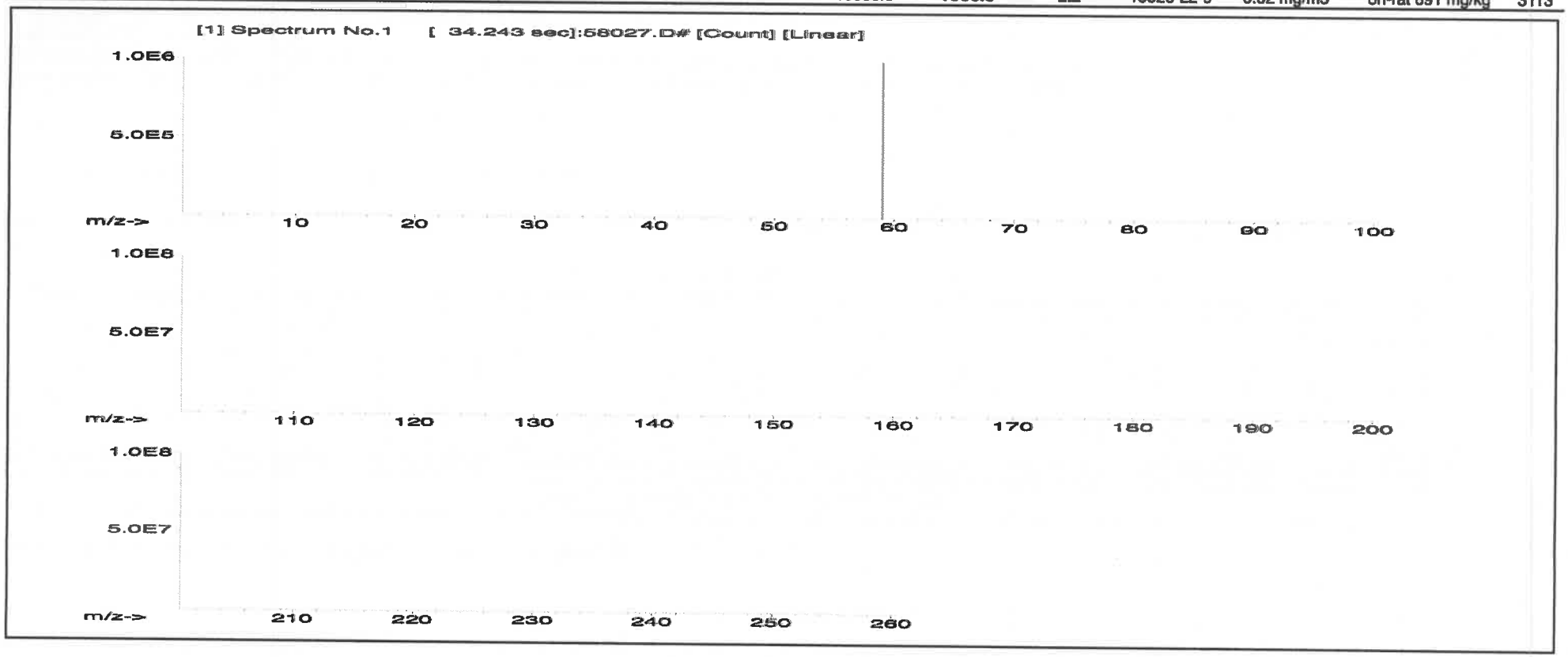
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

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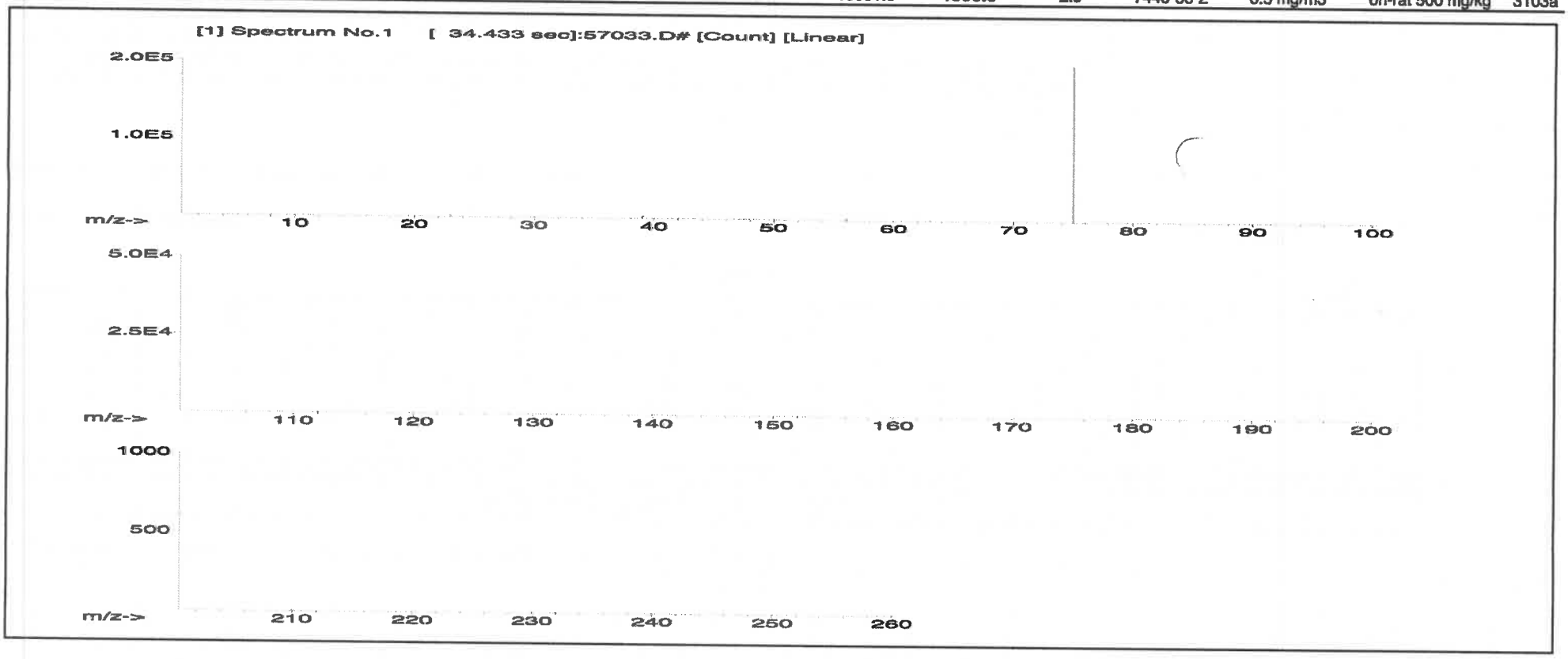
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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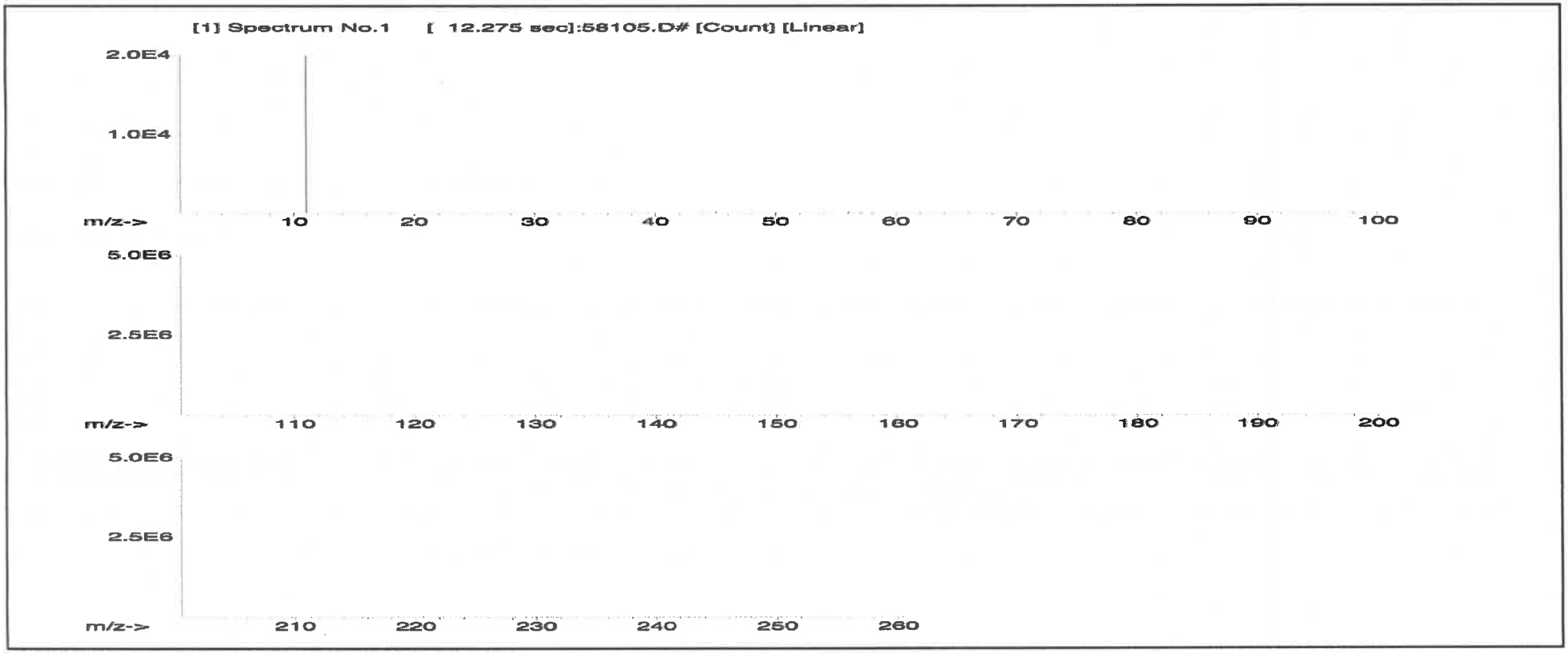
CERTIFIED WEIGHT REPORT:

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

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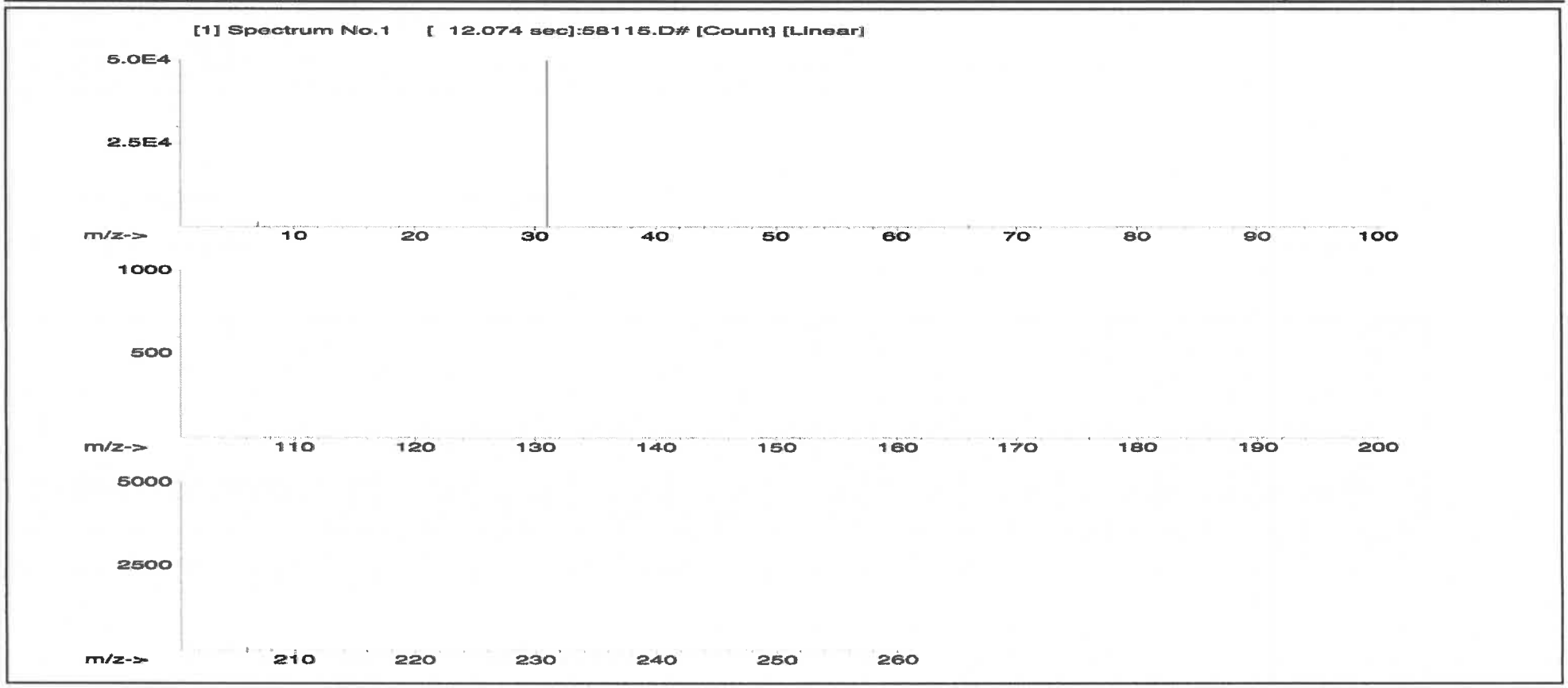
CERTIFIED WEIGHT REPORT:

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)																	
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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:

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Sodium Chloride, Crystal
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MT884
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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
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

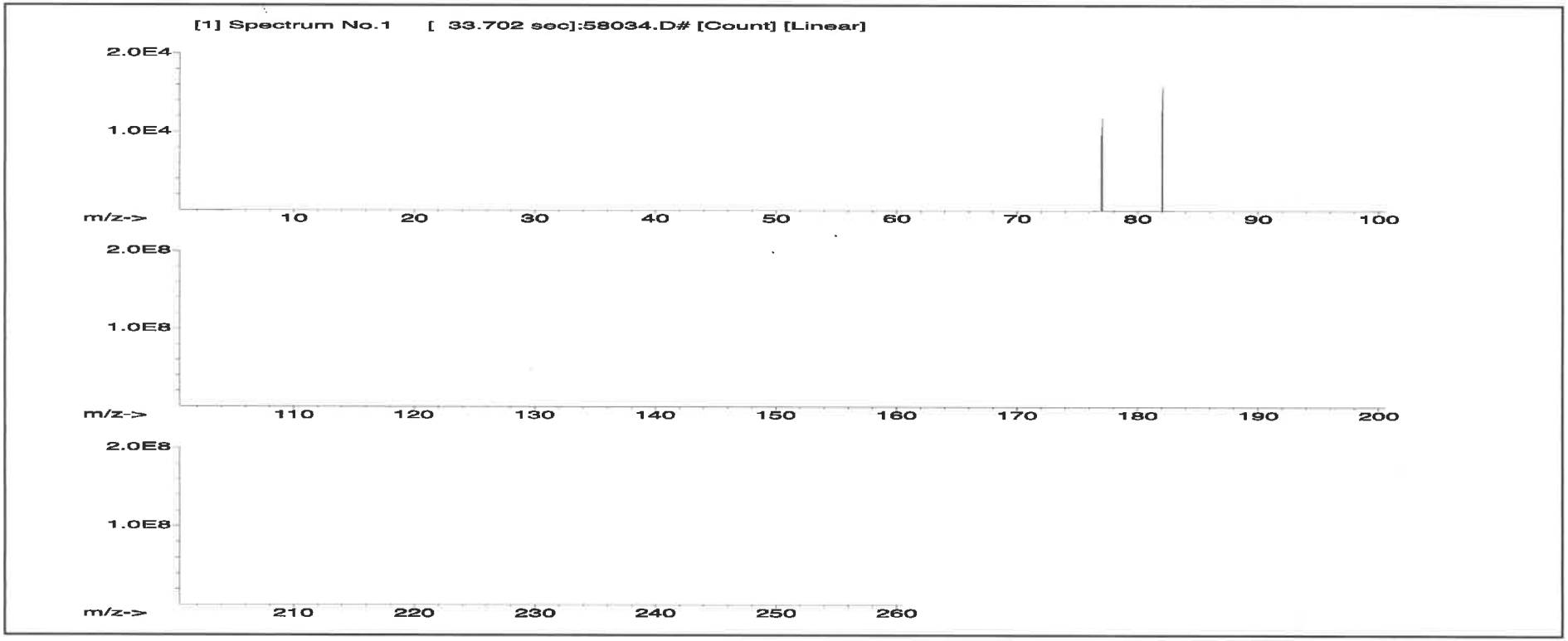
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

M5969 R: 06/11/24

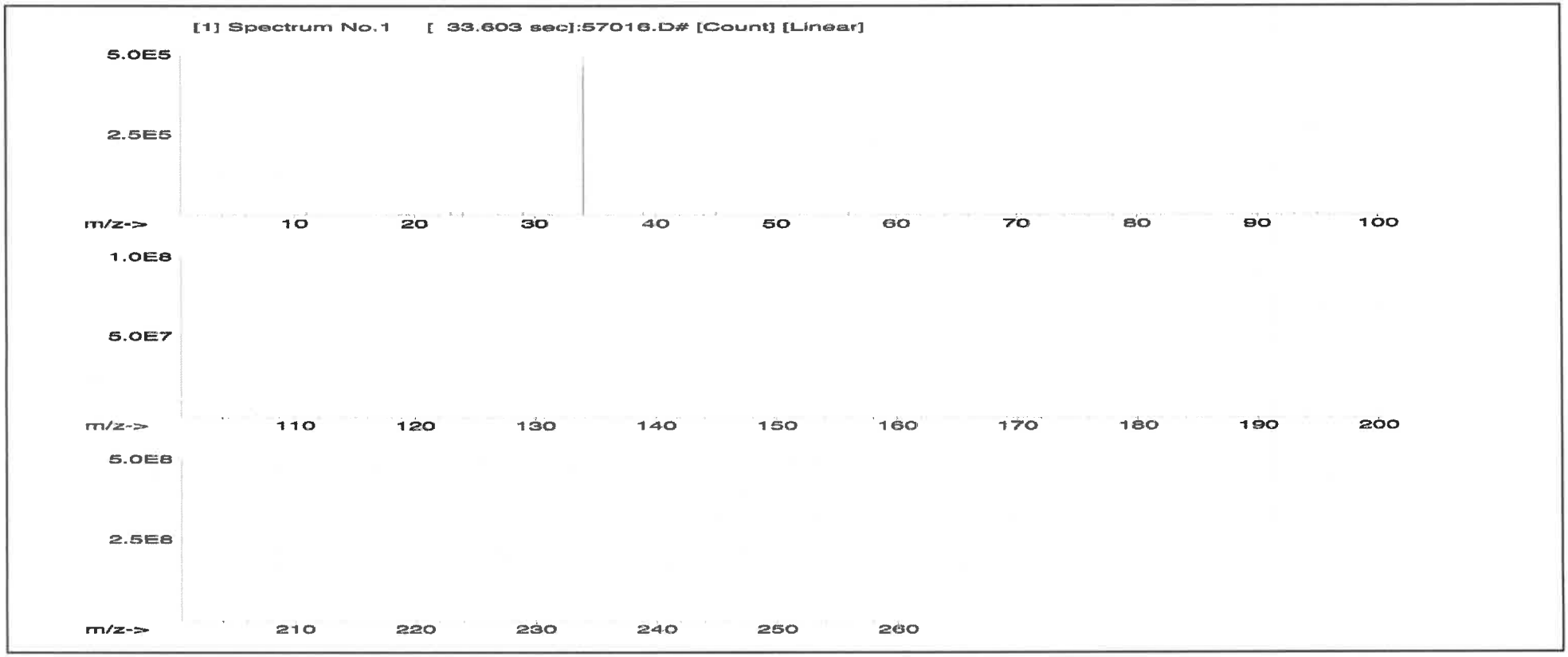
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

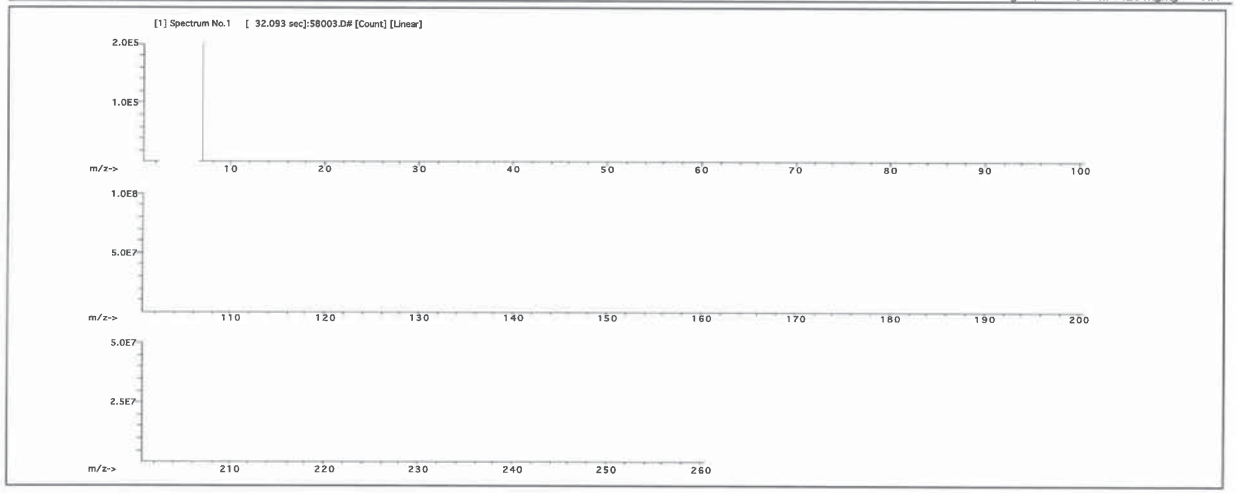
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

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:

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

MS984
R:6/14/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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:	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 (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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	<	0.004600	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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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

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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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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-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 °C)

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

- 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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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24
MS-997

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-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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M6074
M6075
M6076
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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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

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

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	

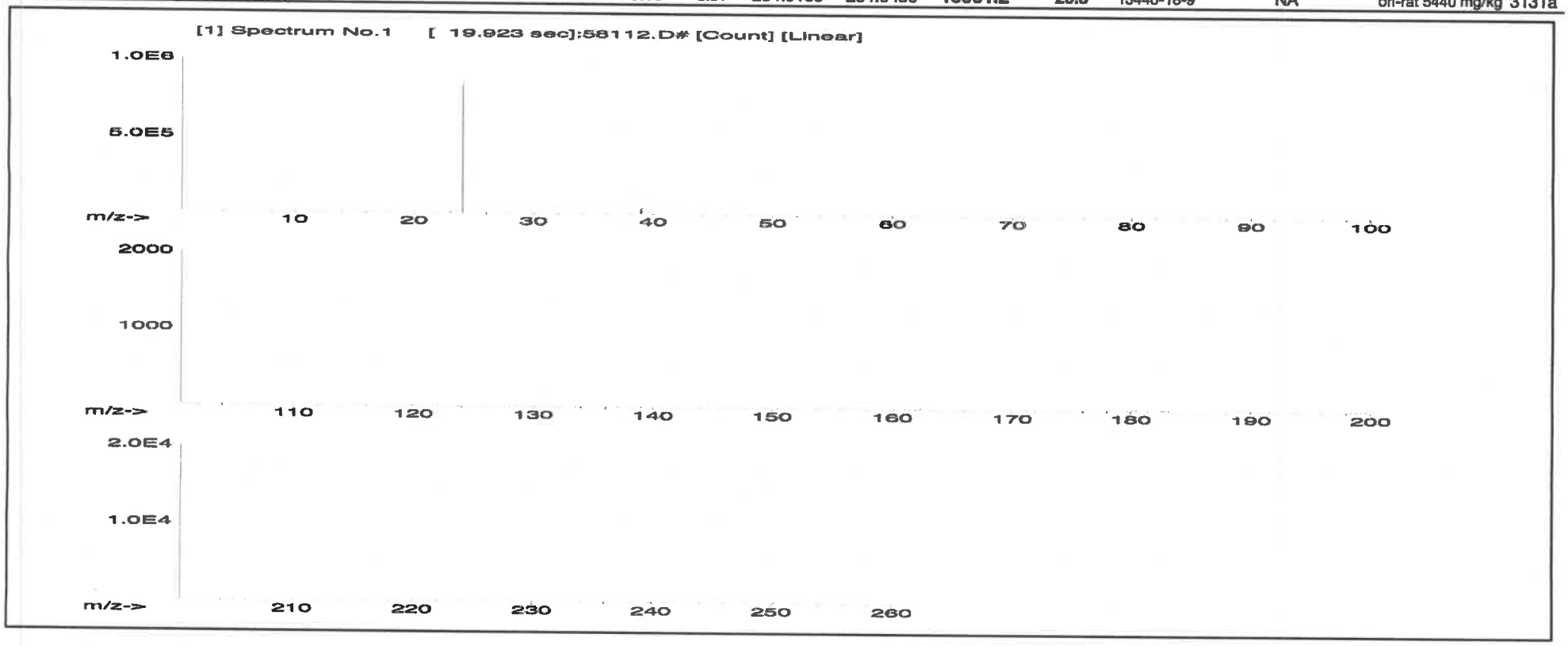
Giovanni Esposito

Formulated By:	Giovanni Esposito	112124

Pedro Rentas

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	

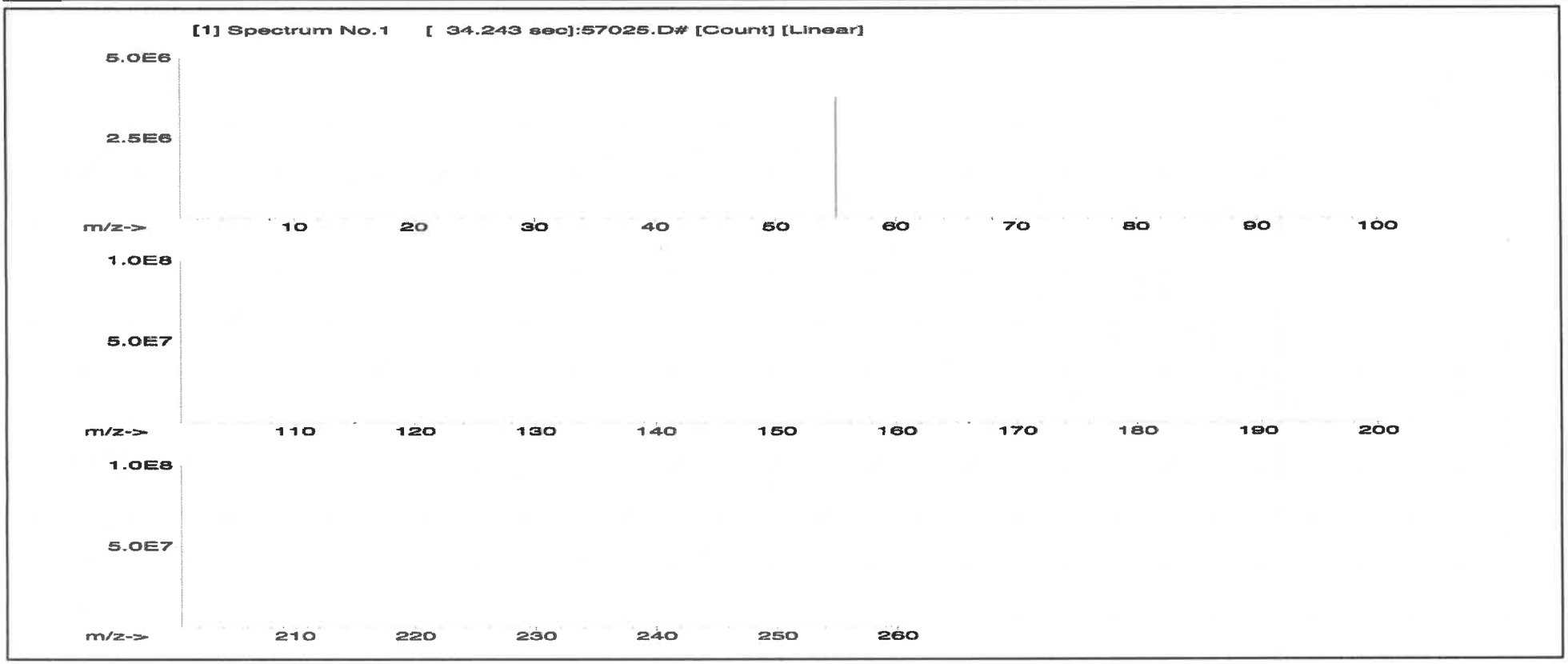
Giovanni Esposito

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).

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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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

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www.absolutestandards.com

Certified Reference Material CRM

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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

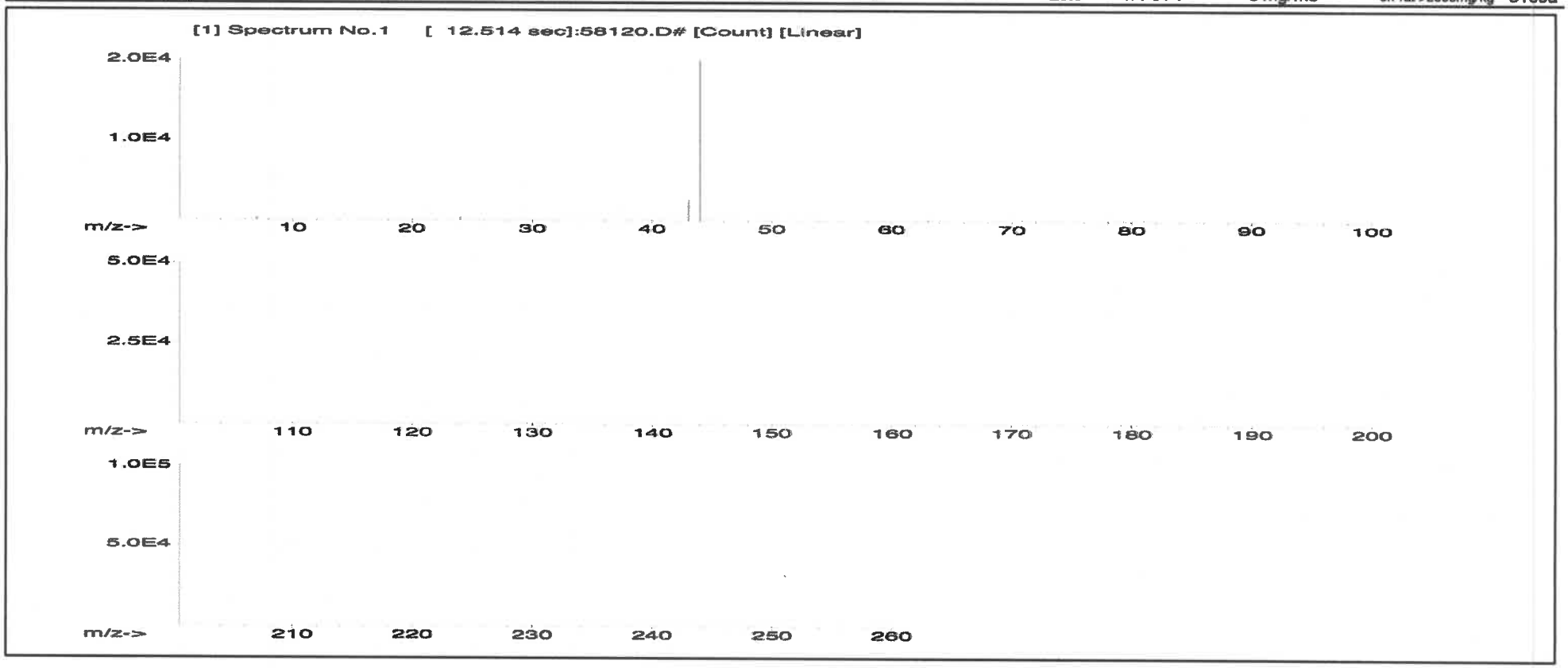
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 121824

Pedro Rentas
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.
* 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

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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

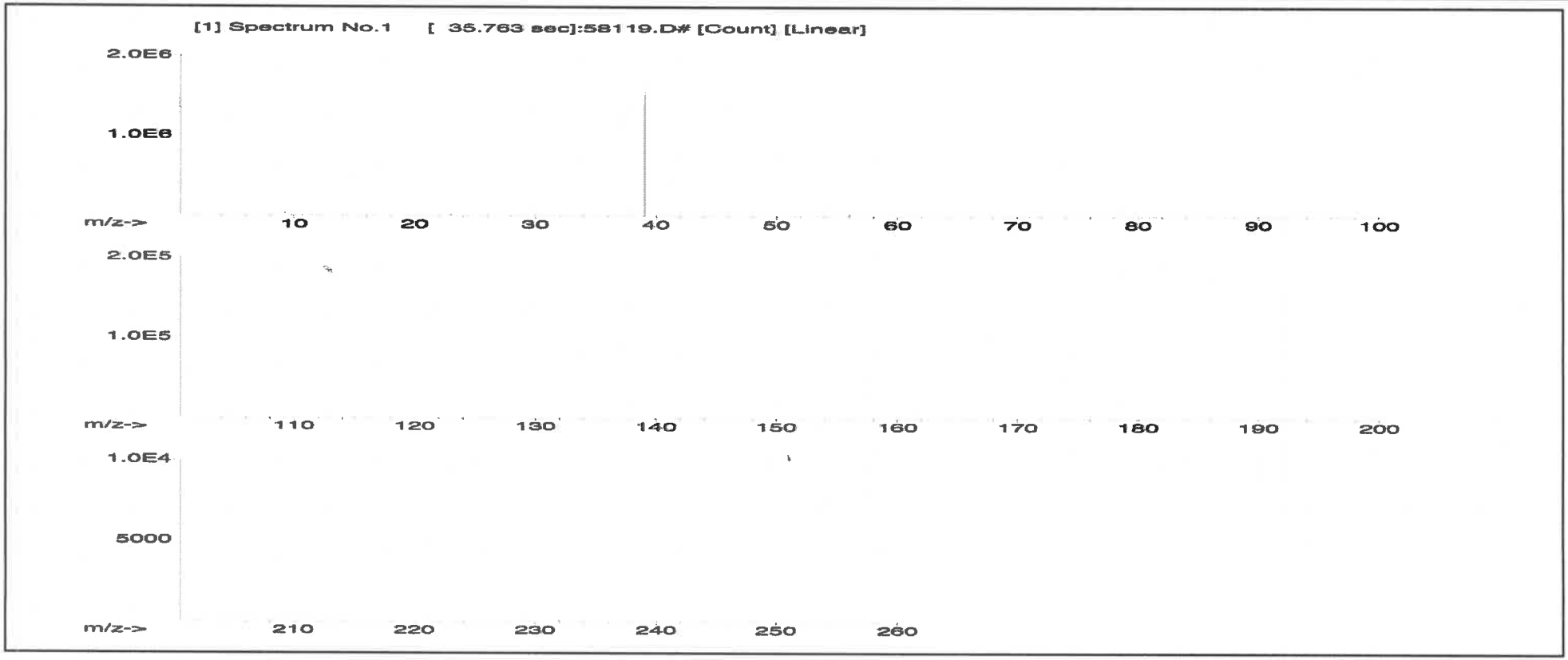
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

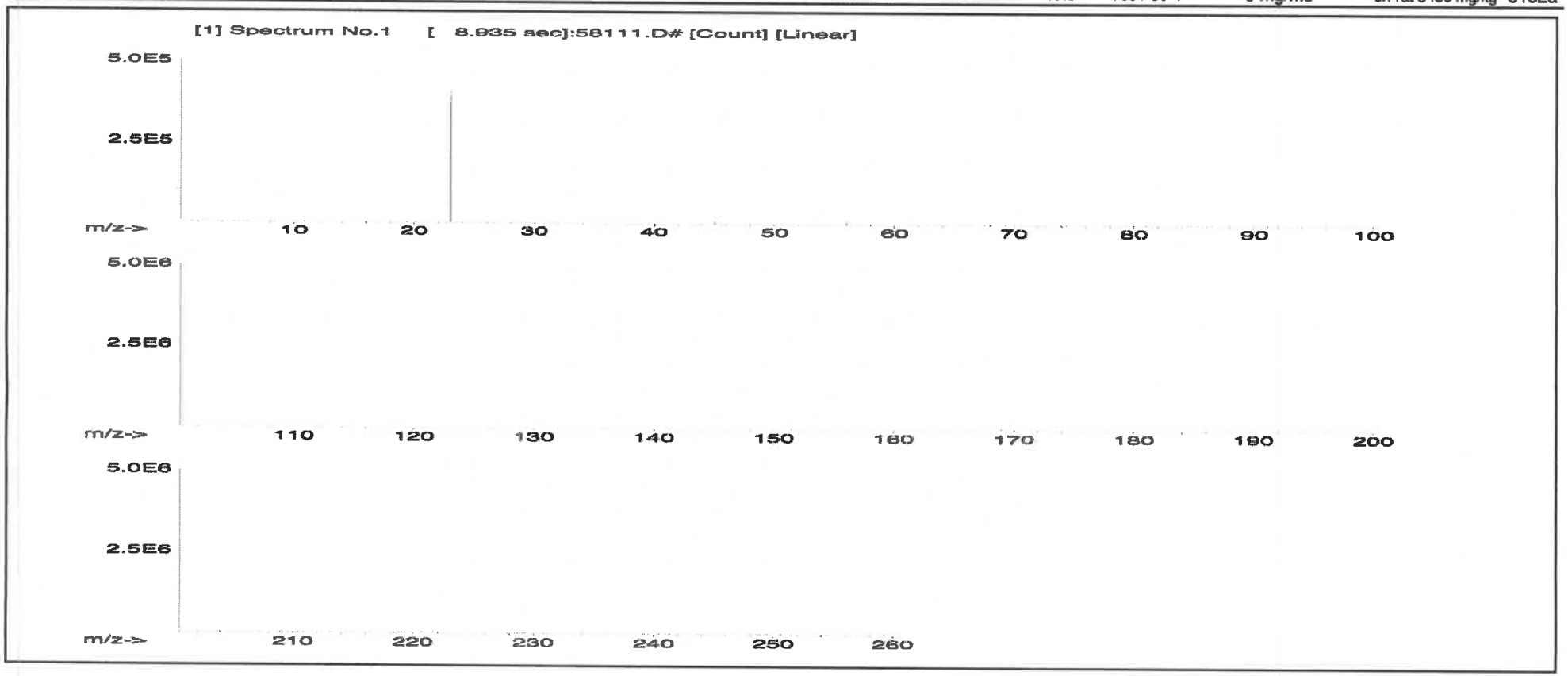
R->1/13/25

M6144

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**072424**			
Description:	**Sodium (Na)**	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.

* 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:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

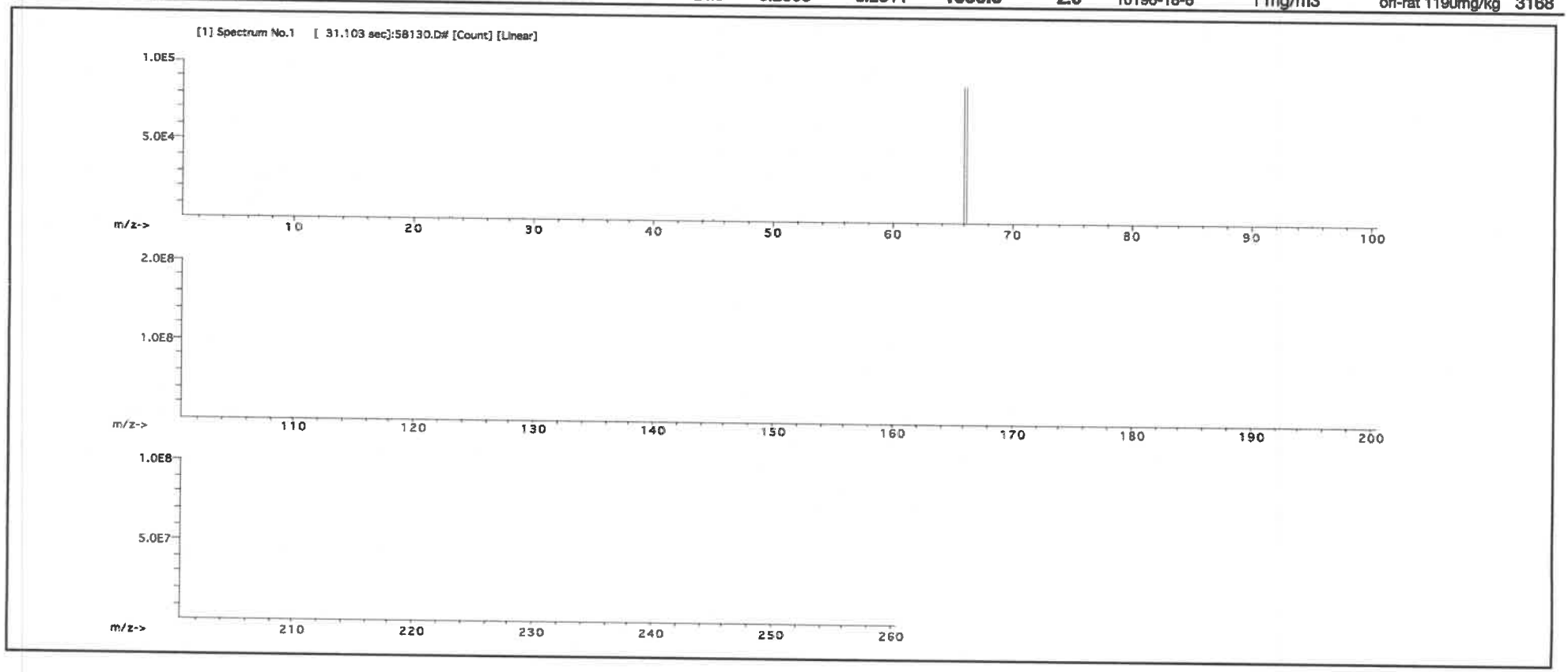
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

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	ori-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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).

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

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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

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-6162

R. Date :- 04/27/2025

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
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	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 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	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 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	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 1.0 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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

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

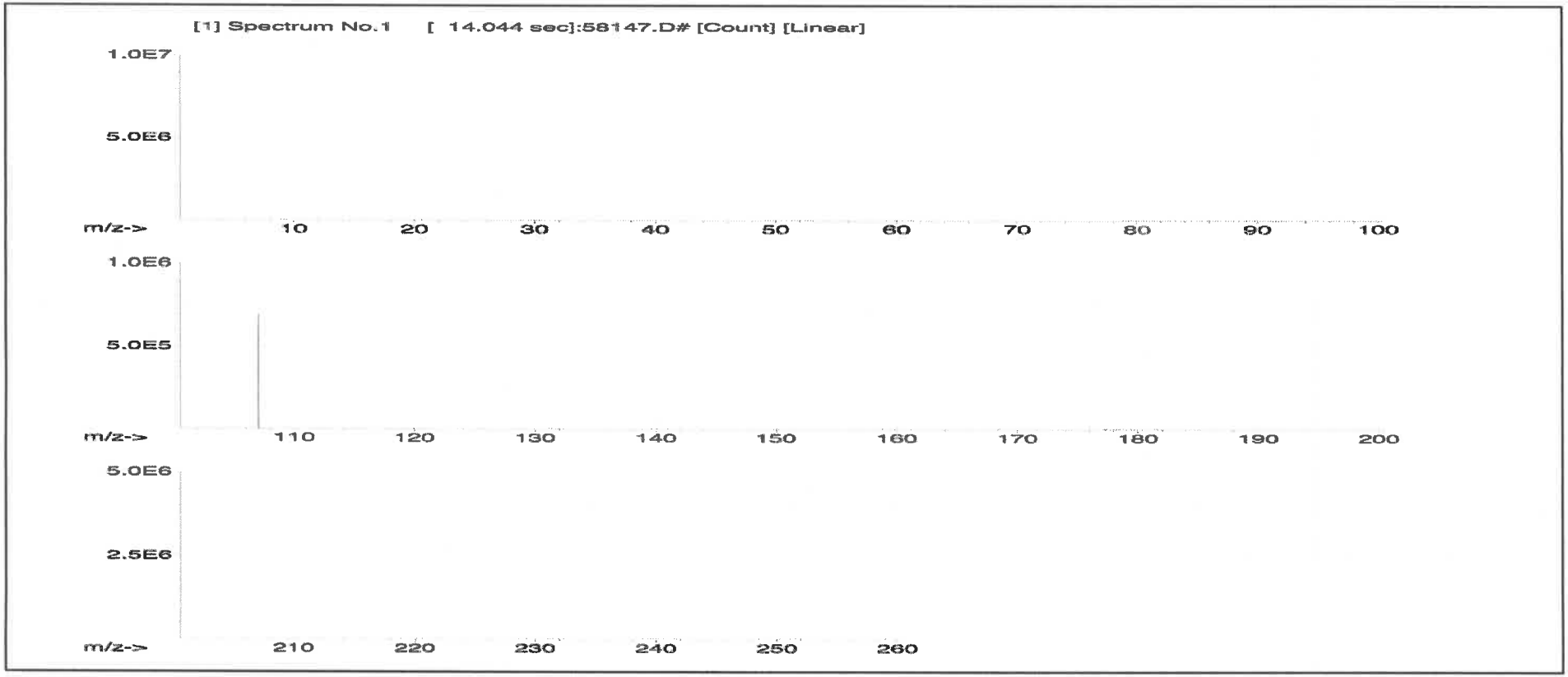
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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		

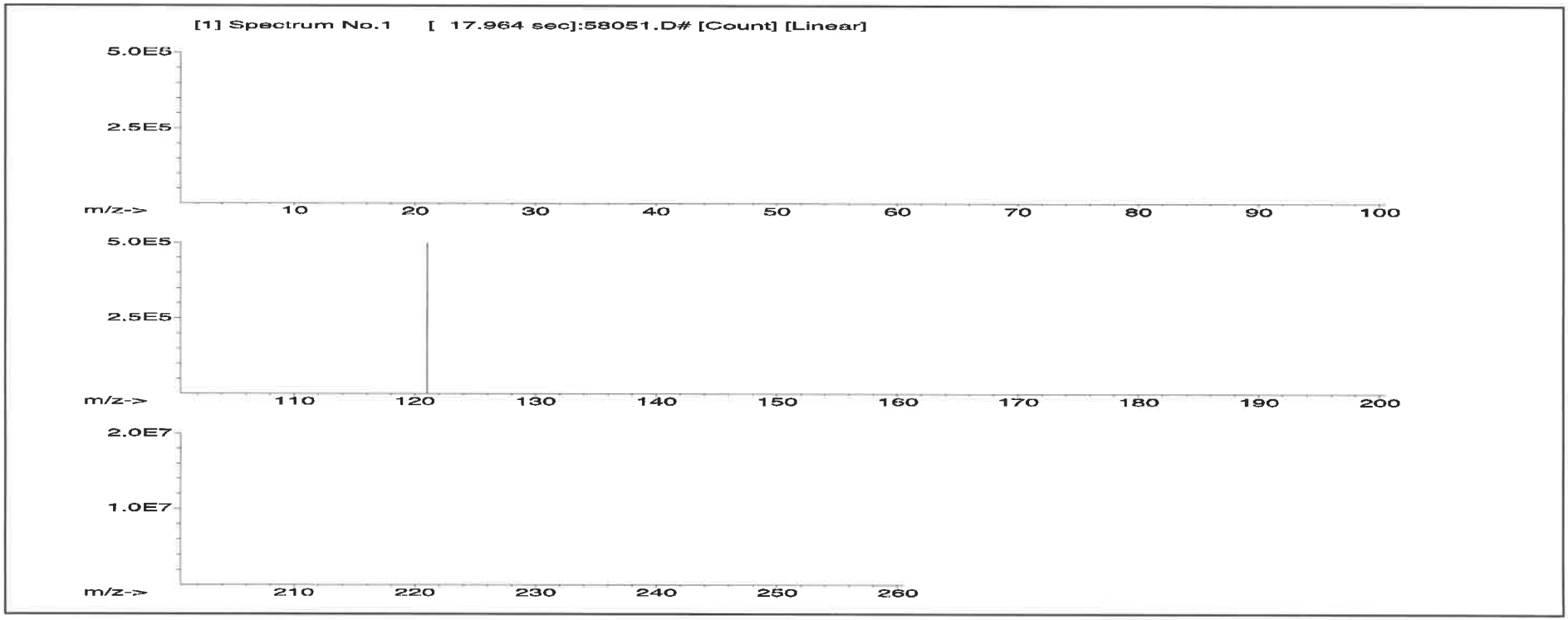
Giovanni Esposito

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.
* 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).

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
"An ISO 9001:2015 Certified Program"

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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.

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.

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

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		

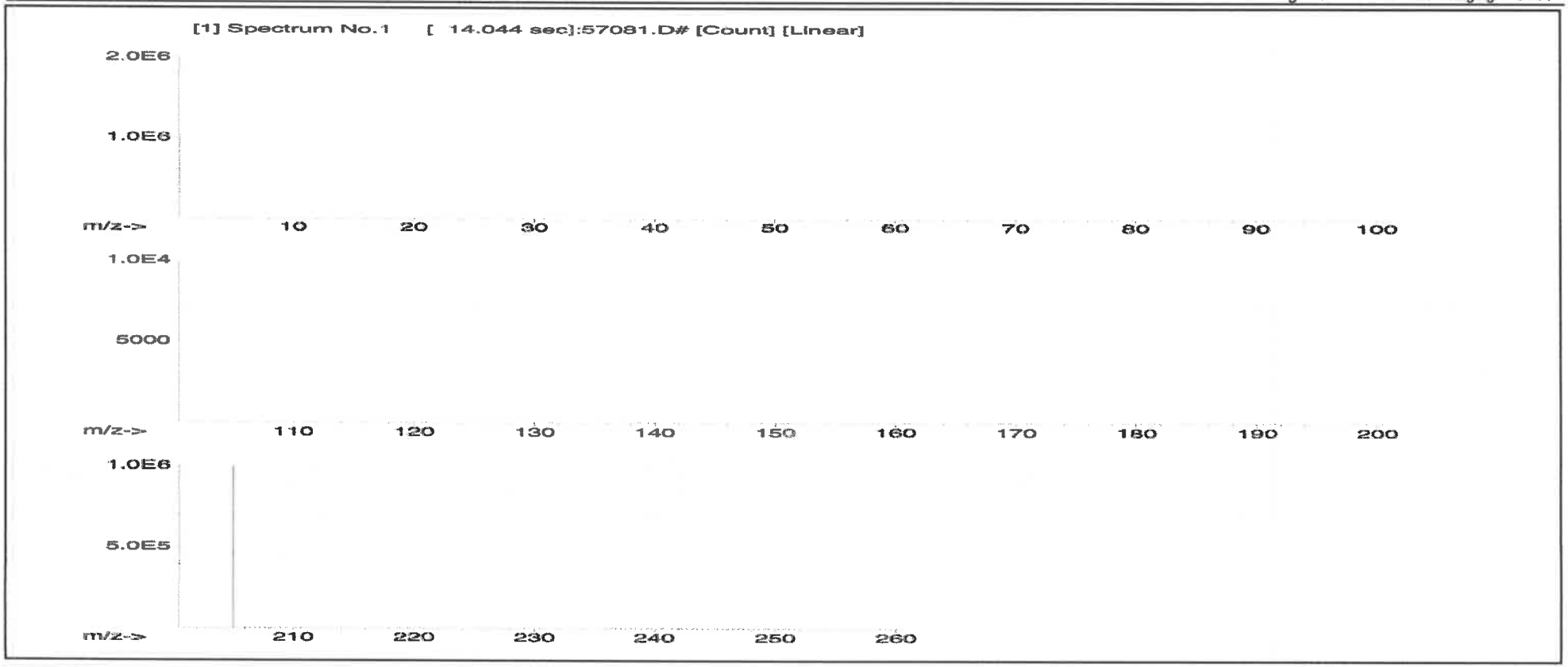
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

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

Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		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	

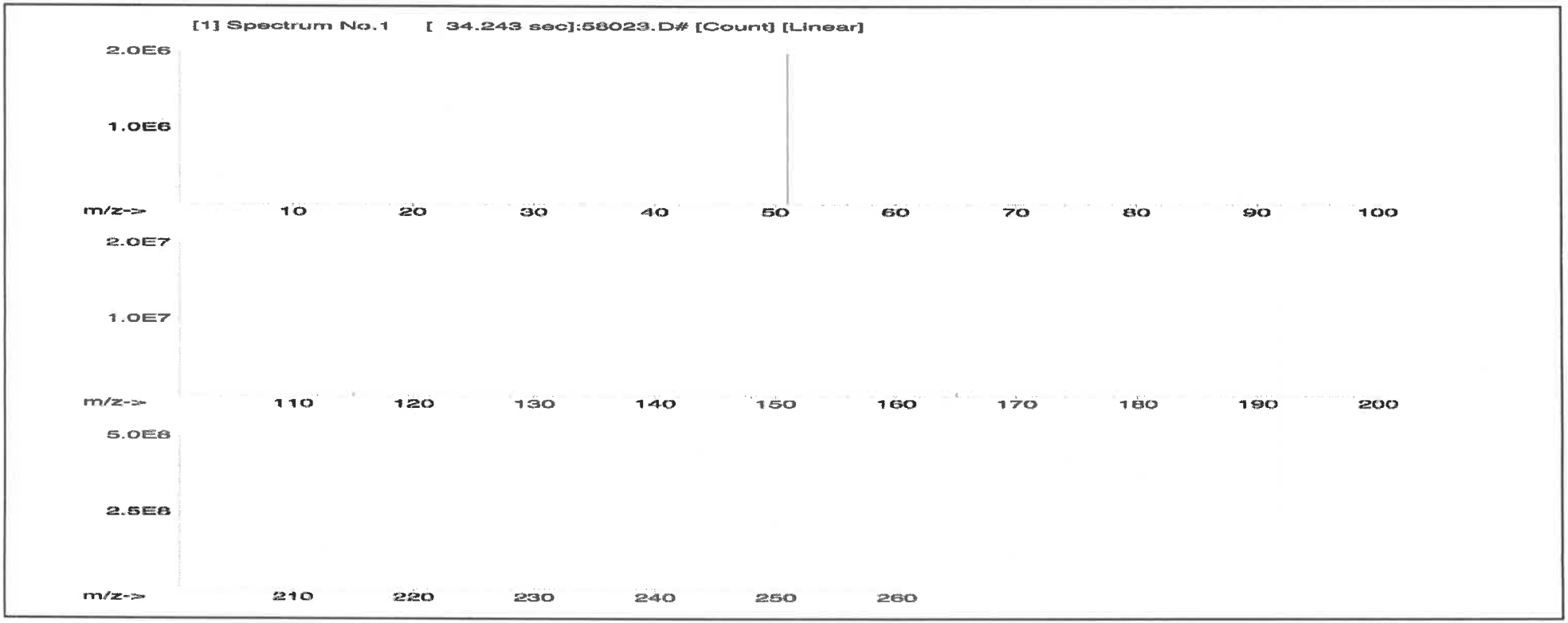
Aleah O'Brady

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:

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).

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. Q23604
COC Number 2047504

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: G Environmental
ADDRESS: 8 Carriage
CITY Succasunna STATE NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ave B
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#:
ADDRESS: 8 Carriage
CITY Succasunna STATE NJ ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard 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 excel pdf
- ☒ EDD FORMAT Master NJDEP

ANALYSIS

1: TAL Metals 2: PCBs 3: TCL VOCs 4 5 6 7 8 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 (Ice)	2 (Ice)	3 (Ferm)	4	5	6	7	8	9	COMMENTS
1.	GAV1A	Soil		X	6/18/25	1145	1	X	X								
2.	GAV1B	"		"		1155	4 5	X	X	X							
3.	GAV2A	"		"		1230	1	X	X								
4.	GAV2B	Soil		X	6/18/25	1240	4 5	X	X	X							
5.																	
6.																	
7.																	
8.																	
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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	6/18/25 1540	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 26.5 °C
Comments: 1 Hour #1

Page ___ of

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

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2364 GENV01
Client Name : G Environmental
Client Contact : Gary Landis
Invoice Name : G Environmental
Invoice Contact : Gary Landis

Order Date : 6/18/2025 4:07:57 PM
Project Name : Ave B
Receive DateTime : 6/18/2025 3:40:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level I~~ NJ Reduced
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
Q2364-02	GAV1B	Solid	06/18/2025	11:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2364-04	GAV1B 2	Solid	06/18/2025	12:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 6/19/25 0740

Received By :
Date / Time : 06/19/25 7:40
Storage Area : VOA Refridgerator Room

Page 1 of 1