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Cover Page

Order ID : Q2484

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2484-01	TP-58
Q2484-02	TP-57
Q2484-03	TP-64
Q2484-04	TP-107
Q2484-05	TP-106
Q2484-06	TP-104

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: 7/14/2025

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 #: **Q2484**

	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:** **07/14/2025**

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LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/07/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/09/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			Mercury	7471B		07/02/25	07/03/25	
			Metals ICP-TAL	6010D		07/03/25	07/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-58								
Q2484-01	TP-58	SOIL	Aluminum	2830		0.83	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Antimony	0.44	J	0.22	2.46	mg/Kg
Q2484-01	TP-58	SOIL	Arsenic	6.73		0.19	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Barium	12.5		0.72	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Beryllium	0.35		0.025	0.30	mg/Kg
Q2484-01	TP-58	SOIL	Calcium	627		10.9	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Chromium	8.80		0.046	0.49	mg/Kg
Q2484-01	TP-58	SOIL	Cobalt	1.21	J	0.098	1.47	mg/Kg
Q2484-01	TP-58	SOIL	Copper	6.02		0.22	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Iron	21400		3.92	4.92	mg/Kg
Q2484-01	TP-58	SOIL	Lead	32.1		0.13	0.59	mg/Kg
Q2484-01	TP-58	SOIL	Magnesium	270		11.8	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Manganese	21.8		0.14	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Mercury	0.012	J	0.0080	0.015	mg/Kg
Q2484-01	TP-58	SOIL	Nickel	3.12		0.13	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Potassium	297		27.2	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Selenium	0.94	J	0.26	0.98	mg/Kg
Q2484-01	TP-58	SOIL	Sodium	114		17.5	98.3	mg/Kg
Q2484-01	TP-58	SOIL	Thallium	0.76	J	0.23	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Vanadium	18.8		0.25	1.97	mg/Kg
Q2484-01	TP-58	SOIL	Zinc	11.8		0.23	1.97	mg/Kg
Client ID : TP-57								
Q2484-02	TP-57	SOIL	Aluminum	4860		0.86	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Antimony	1.33	J	0.23	2.56	mg/Kg
Q2484-02	TP-57	SOIL	Arsenic	7.38		0.20	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Barium	27.5		0.75	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Beryllium	0.59		0.026	0.31	mg/Kg
Q2484-02	TP-57	SOIL	Calcium	959		11.4	102	mg/Kg
Q2484-02	TP-57	SOIL	Chromium	11.5		0.048	0.51	mg/Kg
Q2484-02	TP-57	SOIL	Cobalt	1.75		0.10	1.54	mg/Kg
Q2484-02	TP-57	SOIL	Copper	6.28		0.23	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Iron	22800		4.09	5.12	mg/Kg
Q2484-02	TP-57	SOIL	Lead	51.5		0.13	0.62	mg/Kg
Q2484-02	TP-57	SOIL	Magnesium	219		12.3	102	mg/Kg
Q2484-02	TP-57	SOIL	Manganese	44.9		0.14	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Mercury	0.071		0.0090	0.015	mg/Kg
Q2484-02	TP-57	SOIL	Nickel	3.33		0.13	2.05	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-02	TP-57	SOIL	Potassium	333		28.4	102	mg/Kg
Q2484-02	TP-57	SOIL	Selenium	5.75		0.27	1.02	mg/Kg
Q2484-02	TP-57	SOIL	Sodium	226		18.2	102	mg/Kg
Q2484-02	TP-57	SOIL	Vanadium	25.0		0.26	2.05	mg/Kg
Q2484-02	TP-57	SOIL	Zinc	30.1		0.11	2.05	mg/Kg
Client ID : TP-64								
Q2484-03	TP-64	SOIL	Aluminum	5760		0.82	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Antimony	1.71	J	0.22	2.44	mg/Kg
Q2484-03	TP-64	SOIL	Arsenic	5.52		0.19	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Barium	19.8		0.71	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Beryllium	0.56		0.024	0.29	mg/Kg
Q2484-03	TP-64	SOIL	Calcium	14000		10.8	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Chromium	12.0		0.046	0.49	mg/Kg
Q2484-03	TP-64	SOIL	Cobalt	4.88		0.098	1.46	mg/Kg
Q2484-03	TP-64	SOIL	Copper	16.7		0.22	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Iron	17300		3.89	4.88	mg/Kg
Q2484-03	TP-64	SOIL	Lead	10.9		0.13	0.59	mg/Kg
Q2484-03	TP-64	SOIL	Magnesium	4120		11.7	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Manganese	70.9		0.14	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Mercury	0.022		0.0090	0.016	mg/Kg
Q2484-03	TP-64	SOIL	Nickel	6.94		0.13	1.95	mg/Kg
Q2484-03	TP-64	SOIL	Potassium	429		27.0	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Selenium	2.59		0.25	0.98	mg/Kg
Q2484-03	TP-64	SOIL	Sodium	354		17.4	97.5	mg/Kg
Q2484-03	TP-64	SOIL	Vanadium	35.8		0.24	1.95	mg/Kg
Q2484-03	TP-64	SOIL	Zinc	20.0		0.11	1.95	mg/Kg
Client ID : TP-107								
Q2484-04	TP-107	SOIL	Aluminum	9270		0.88	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Antimony	1.66	J	0.23	2.63	mg/Kg
Q2484-04	TP-107	SOIL	Arsenic	11.8		0.20	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Barium	28.0		0.77	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Beryllium	0.91		0.026	0.32	mg/Kg
Q2484-04	TP-107	SOIL	Calcium	478		11.7	105	mg/Kg
Q2484-04	TP-107	SOIL	Chromium	26.4		0.049	0.53	mg/Kg
Q2484-04	TP-107	SOIL	Cobalt	4.10		0.11	1.58	mg/Kg
Q2484-04	TP-107	SOIL	Copper	2.95		0.23	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Iron	27700		4.20	5.26	mg/Kg
Q2484-04	TP-107	SOIL	Lead	11.9		0.14	0.63	mg/Kg
Q2484-04	TP-107	SOIL	Magnesium	557		12.6	105	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-04	TP-107	SOIL	Manganese	71.8		0.15	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Mercury	0.053		0.0080	0.015	mg/Kg
Q2484-04	TP-107	SOIL	Nickel	5.87		0.14	2.10	mg/Kg
Q2484-04	TP-107	SOIL	Potassium	303		29.1	105	mg/Kg
Q2484-04	TP-107	SOIL	Selenium	7.40		0.27	1.05	mg/Kg
Q2484-04	TP-107	SOIL	Sodium	142		18.7	105	mg/Kg
Q2484-04	TP-107	SOIL	Vanadium	43.2		0.26	2.10	mg/Kg
Q2484-04	TP-107	SOIL	Zinc	17.6		0.12	2.10	mg/Kg
Client ID :	**TP-106**							
Q2484-05	TP-106	SOIL	Aluminum	8890		0.78	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Antimony	1.73	J	0.20	2.31	mg/Kg
Q2484-05	TP-106	SOIL	Arsenic	9.95		0.18	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Barium	17.9		0.68	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Beryllium	0.99		0.023	0.28	mg/Kg
Q2484-05	TP-106	SOIL	Calcium	365		10.3	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Chromium	36.0		0.043	0.46	mg/Kg
Q2484-05	TP-106	SOIL	Cobalt	4.70		0.092	1.39	mg/Kg
Q2484-05	TP-106	SOIL	Copper	2.51		0.20	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Iron	25500		3.69	4.62	mg/Kg
Q2484-05	TP-106	SOIL	Lead	9.18		0.12	0.56	mg/Kg
Q2484-05	TP-106	SOIL	Magnesium	507		11.1	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Manganese	56.0		0.13	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Mercury	0.031		0.0090	0.016	mg/Kg
Q2484-05	TP-106	SOIL	Nickel	6.34		0.12	1.85	mg/Kg
Q2484-05	TP-106	SOIL	Potassium	392		25.6	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Selenium	6.21		0.24	0.93	mg/Kg
Q2484-05	TP-106	SOIL	Sodium	299		16.5	92.5	mg/Kg
Q2484-05	TP-106	SOIL	Vanadium	36.0		0.23	1.85	mg/Kg
Q2484-05	TP-106	SOIL	Zinc	18.3		0.10	1.85	mg/Kg
Client ID :	**TP-104**							
Q2484-06	TP-104	SOIL	Aluminum	9230		0.80	4.77	mg/Kg
Q2484-06	TP-104	SOIL	Antimony	1.16	J	0.21	2.39	mg/Kg
Q2484-06	TP-104	SOIL	Arsenic	7.48		0.18	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Barium	24.3		0.70	4.77	mg/Kg
Q2484-06	TP-104	SOIL	Beryllium	0.73		0.024	0.29	mg/Kg
Q2484-06	TP-104	SOIL	Calcium	353		10.6	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Chromium	15.8		0.045	0.48	mg/Kg
Q2484-06	TP-104	SOIL	Copper	4.84		0.21	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Iron	19400		3.81	4.77	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484 **Order ID:** Q2484

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2484-06	TP-104	SOIL	Lead	13.1		0.12	0.57	mg/Kg
Q2484-06	TP-104	SOIL	Magnesium	717		11.5	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Manganese	73.8		0.13	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Mercury	0.039		0.0080	0.015	mg/Kg
Q2484-06	TP-104	SOIL	Nickel	7.27		0.12	1.91	mg/Kg
Q2484-06	TP-104	SOIL	Potassium	420		26.4	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Selenium	4.47		0.25	0.96	mg/Kg
Q2484-06	TP-104	SOIL	Sodium	253		17.0	95.5	mg/Kg
Q2484-06	TP-104	SOIL	Vanadium	30.8		0.24	1.91	mg/Kg
Q2484-06	TP-104	SOIL	Zinc	16.3		0.11	1.91	mg/Kg



SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2830		1	0.83	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-36-0	Antimony	0.44	JN	1	0.22	2.46	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-38-2	Arsenic	6.73		1	0.19	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-39-3	Barium	12.5		1	0.72	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.025	0.30	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-70-2	Calcium	627	*	1	10.9	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-47-3	Chromium	8.80		1	0.046	0.49	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-48-4	Cobalt	1.21	J	1	0.098	1.47	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-50-8	Copper	6.02		1	0.22	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-89-6	Iron	21400		1	3.92	4.92	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-92-1	Lead	32.1		1	0.13	0.59	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-95-4	Magnesium	270		1	11.8	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-96-5	Manganese	21.8		1	0.14	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7439-97-6	Mercury	0.012	J	1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 11:55	7471B	
7440-02-0	Nickel	3.12		1	0.13	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-09-7	Potassium	297		1	27.2	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7782-49-2	Selenium	0.94	JN	1	0.26	0.98	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.49	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-23-5	Sodium	114	N	1	17.5	98.3	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-28-0	Thallium	0.76	J	1	0.23	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-62-2	Vanadium	18.8		1	0.25	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	6010D	SW3050
7440-66-6	Zinc	11.8		1	0.23	1.97	mg/Kg	07/03/25 10:30	07/07/25 17:26	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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4860		1	0.86	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-36-0	Antimony	1.33	JN	1	0.23	2.56	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-38-2	Arsenic	7.38		1	0.20	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-39-3	Barium	27.5		1	0.75	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-41-7	Beryllium	0.59		1	0.026	0.31	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-70-2	Calcium	959	*	1	11.4	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-47-3	Chromium	11.5		1	0.048	0.51	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-48-4	Cobalt	1.75		1	0.10	1.54	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-50-8	Copper	6.28		1	0.23	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-89-6	Iron	22800		1	4.09	5.12	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-92-1	Lead	51.5		1	0.13	0.62	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-95-4	Magnesium	219		1	12.3	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-96-5	Manganese	44.9		1	0.14	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7439-97-6	Mercury	0.071		1	0.0090	0.015	mg/Kg	07/02/25 16:25	07/03/25 11:57	7471B	
7440-02-0	Nickel	3.33		1	0.13	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-09-7	Potassium	333		1	28.4	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7782-49-2	Selenium	5.75	N	1	0.27	1.02	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.51	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-23-5	Sodium	226	N	1	18.2	102	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-62-2	Vanadium	25.0		1	0.26	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	6010D	SW3050
7440-66-6	Zinc	30.1		1	0.11	2.05	mg/Kg	07/03/25 10:30	07/09/25 17:19	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,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5760		1	0.82	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-36-0	Antimony	1.71	JN	1	0.22	2.44	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-38-2	Arsenic	5.52		1	0.19	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-39-3	Barium	19.8		1	0.71	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-41-7	Beryllium	0.56		1	0.024	0.29	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-70-2	Calcium	14000	*	1	10.8	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-47-3	Chromium	12.0		1	0.046	0.49	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-48-4	Cobalt	4.88		1	0.098	1.46	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-50-8	Copper	16.7		1	0.22	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-89-6	Iron	17300		1	3.89	4.88	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-92-1	Lead	10.9		1	0.13	0.59	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-95-4	Magnesium	4120		1	11.7	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-96-5	Manganese	70.9		1	0.14	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7439-97-6	Mercury	0.022		1	0.0090	0.016	mg/Kg	07/02/25 16:25	07/03/25 11:59	7471B	
7440-02-0	Nickel	6.94		1	0.13	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-09-7	Potassium	429		1	27.0	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7782-49-2	Selenium	2.59	N	1	0.25	0.98	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.49	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-23-5	Sodium	354	N	1	17.4	97.5	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-62-2	Vanadium	35.8		1	0.24	1.95	mg/Kg	07/03/25 10:30	07/09/25 17:23	6010D	SW3050
7440-66-6	Zinc	20.0		1	0.11	1.95	mg/Kg	07/03/25 10:30	07/09/25 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
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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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9270		1	0.88	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-36-0	Antimony	1.66	JN	1	0.23	2.63	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-38-2	Arsenic	11.8		1	0.20	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-39-3	Barium	28.0		1	0.77	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-41-7	Beryllium	0.91		1	0.026	0.32	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.32	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-70-2	Calcium	478	*	1	11.7	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-47-3	Chromium	26.4		1	0.049	0.53	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-48-4	Cobalt	4.10		1	0.11	1.58	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-50-8	Copper	2.95		1	0.23	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-89-6	Iron	27700		1	4.20	5.26	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-92-1	Lead	11.9		1	0.14	0.63	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-95-4	Magnesium	557		1	12.6	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-96-5	Manganese	71.8		1	0.15	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7439-97-6	Mercury	0.053		1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 12:01	7471B	
7440-02-0	Nickel	5.87		1	0.14	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-09-7	Potassium	303		1	29.1	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7782-49-2	Selenium	7.40	N	1	0.27	1.05	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.53	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-23-5	Sodium	142	N	1	18.7	105	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-62-2	Vanadium	43.2		1	0.26	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	6010D	SW3050
7440-66-6	Zinc	17.6		1	0.12	2.10	mg/Kg	07/03/25 10:30	07/09/25 17:28	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
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8890		1	0.78	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-36-0	Antimony	1.73	JN	1	0.20	2.31	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-38-2	Arsenic	9.95		1	0.18	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-39-3	Barium	17.9		1	0.68	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-41-7	Beryllium	0.99		1	0.023	0.28	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-43-9	Cadmium	0.022	U	1	0.022	0.28	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-70-2	Calcium	365	*	1	10.3	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-47-3	Chromium	36.0		1	0.043	0.46	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-48-4	Cobalt	4.70		1	0.092	1.39	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-50-8	Copper	2.51		1	0.20	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-89-6	Iron	25500		1	3.69	4.62	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-92-1	Lead	9.18		1	0.12	0.56	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-95-4	Magnesium	507		1	11.1	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-96-5	Manganese	56.0		1	0.13	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7439-97-6	Mercury	0.031		1	0.0090	0.016	mg/Kg	07/02/25 16:25	07/03/25 12:04	7471B	
7440-02-0	Nickel	6.34		1	0.12	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-09-7	Potassium	392		1	25.6	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7782-49-2	Selenium	6.21	N	1	0.24	0.93	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-22-4	Silver	0.11	UN	1	0.11	0.46	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-23-5	Sodium	299	N	1	16.5	92.5	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-28-0	Thallium	0.21	U	1	0.21	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-62-2	Vanadium	36.0		1	0.23	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	6010D	SW3050
7440-66-6	Zinc	18.3		1	0.10	1.85	mg/Kg	07/03/25 10:30	07/09/25 17:32	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
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J = Estimated Value
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9230		1	0.80	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.21	2.39	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-38-2	Arsenic	7.48		1	0.18	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-39-3	Barium	24.3		1	0.70	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-41-7	Beryllium	0.73		1	0.024	0.29	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-70-2	Calcium	353	*	1	10.6	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-47-3	Chromium	15.8		1	0.045	0.48	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-48-4	Cobalt	0.095	U	1	0.095	1.43	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-50-8	Copper	4.84		1	0.21	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-89-6	Iron	19400		1	3.81	4.77	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-92-1	Lead	13.1		1	0.12	0.57	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-95-4	Magnesium	717		1	11.5	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-96-5	Manganese	73.8		1	0.13	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7439-97-6	Mercury	0.039		1	0.0080	0.015	mg/Kg	07/02/25 16:25	07/03/25 12:06	7471B	
7440-02-0	Nickel	7.27		1	0.12	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-09-7	Potassium	420		1	26.4	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7782-49-2	Selenium	4.47	N	1	0.25	0.96	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-22-4	Silver	0.12	UN	1	0.12	0.48	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-23-5	Sodium	253	N	1	17.0	95.5	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-62-2	Vanadium	30.8		1	0.24	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	6010D	SW3050
7440-66-6	Zinc	16.3		1	0.11	1.91	mg/Kg	07/03/25 10:30	07/15/25 14:44	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

METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
ICV16	Mercury	4.26	4.0	106	90 - 110	CV	07/03/2025	11:13	LB136369

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
CCV51	Mercury	5.14	5.0	103	90 - 110	CV	07/03/2025	11:20	LB136369
CCV52	Mercury	5.23	5.0	104	90 - 110	CV	07/03/2025	11:48	LB136369
CCV53	Mercury	5.02	5.0	100	90 - 110	CV	07/03/2025	12:15	LB136369
CCV54	Mercury	5.04	5.0	101	90 - 110	CV	07/03/2025	12:30	LB136369

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	7480	8000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Antimony	4050	4000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Arsenic	3880	4000	97	90 - 110	P	07/07/2025	13:22	LB136390
	Barium	7340	8000	92	90 - 110	P	07/07/2025	13:22	LB136390
	Beryllium	189	200	94	90 - 110	P	07/07/2025	13:22	LB136390
	Cadmium	1950	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Calcium	18600	20000	93	90 - 110	P	07/07/2025	13:22	LB136390
	Chromium	804	800	100	90 - 110	P	07/07/2025	13:22	LB136390
	Cobalt	1960	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Copper	993	1000	99	90 - 110	P	07/07/2025	13:22	LB136390
	Iron	4060	4000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Lead	3810	4000	95	90 - 110	P	07/07/2025	13:22	LB136390
	Magnesium	18700	20000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Manganese	1870	2000	93	90 - 110	P	07/07/2025	13:22	LB136390
	Nickel	1960	2000	98	90 - 110	P	07/07/2025	13:22	LB136390
	Potassium	20200	20000	101	90 - 110	P	07/07/2025	13:22	LB136390
	Selenium	3890	4000	97	90 - 110	P	07/07/2025	13:22	LB136390
	Silver	1020	1000	102	90 - 110	P	07/07/2025	13:22	LB136390
	Sodium	20400	20000	102	90 - 110	P	07/07/2025	13:22	LB136390
	Thallium	3670	4000	92	90 - 110	P	07/07/2025	13:22	LB136390
	Vanadium	1870	2000	94	90 - 110	P	07/07/2025	13:22	LB136390
	Zinc	1990	2000	100	90 - 110	P	07/07/2025	13:22	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	102	100	102	80 - 120	P	07/07/2025	13:41	LB136390
	Antimony	50.5	50.0	101	80 - 120	P	07/07/2025	13:41	LB136390
	Arsenic	22.5	20.0	112	80 - 120	P	07/07/2025	13:41	LB136390
	Barium	92.5	100	92	80 - 120	P	07/07/2025	13:41	LB136390
	Beryllium	5.89	6.0	98	80 - 120	P	07/07/2025	13:41	LB136390
	Cadmium	6.03	6.0	100	80 - 120	P	07/07/2025	13:41	LB136390
	Calcium	1960	2000	98	80 - 120	P	07/07/2025	13:41	LB136390
	Chromium	11.0	10.0	110	80 - 120	P	07/07/2025	13:41	LB136390
	Cobalt	29.7	30.0	99	80 - 120	P	07/07/2025	13:41	LB136390
	Copper	21.6	20.0	108	80 - 120	P	07/07/2025	13:41	LB136390
	Iron	96.2	100	96	80 - 120	P	07/07/2025	13:41	LB136390
	Lead	12.3	12.0	103	80 - 120	P	07/07/2025	13:41	LB136390
	Magnesium	2070	2000	104	80 - 120	P	07/07/2025	13:41	LB136390
	Manganese	20.4	20.0	102	80 - 120	P	07/07/2025	13:41	LB136390
	Nickel	41.6	40.0	104	80 - 120	P	07/07/2025	13:41	LB136390
	Potassium	1810	2000	90	80 - 120	P	07/07/2025	13:41	LB136390
	Selenium	20.1	20.0	101	80 - 120	P	07/07/2025	13:41	LB136390
	Silver	9.83	10.0	98	80 - 120	P	07/07/2025	13:41	LB136390
	Sodium	2000	2000	100	80 - 120	P	07/07/2025	13:41	LB136390
	Thallium	38.6	40.0	96	80 - 120	P	07/07/2025	13:41	LB136390
	Vanadium	38.5	40.0	96	80 - 120	P	07/07/2025	13:41	LB136390
	Zinc	42.7	40.0	107	80 - 120	P	07/07/2025	13:41	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	9890	10000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Antimony	5080	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Arsenic	5120	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Barium	9860	10000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Beryllium	247	250	99	90 - 110	P	07/07/2025	14:38	LB136390
	Cadmium	2550	2500	102	90 - 110	P	07/07/2025	14:38	LB136390
	Calcium	24700	25000	99	90 - 110	P	07/07/2025	14:38	LB136390
	Chromium	1010	1000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Cobalt	2530	2500	101	90 - 110	P	07/07/2025	14:38	LB136390
	Copper	1280	1250	102	90 - 110	P	07/07/2025	14:38	LB136390
	Iron	5030	5000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Lead	5050	5000	101	90 - 110	P	07/07/2025	14:38	LB136390
	Magnesium	24400	25000	97	90 - 110	P	07/07/2025	14:38	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/07/2025	14:38	LB136390
	Nickel	2540	2500	102	90 - 110	P	07/07/2025	14:38	LB136390
	Potassium	25500	25000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Selenium	5090	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Silver	1250	1250	100	90 - 110	P	07/07/2025	14:38	LB136390
	Sodium	25700	25000	103	90 - 110	P	07/07/2025	14:38	LB136390
	Thallium	5090	5000	102	90 - 110	P	07/07/2025	14:38	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/07/2025	14:38	LB136390
	Zinc	2530	2500	101	90 - 110	P	07/07/2025	14:38	LB136390
CCV02	Aluminum	9790	10000	98	90 - 110	P	07/07/2025	15:30	LB136390
	Antimony	5040	5000	101	90 - 110	P	07/07/2025	15:30	LB136390
	Arsenic	5030	5000	101	90 - 110	P	07/07/2025	15:30	LB136390
	Barium	9870	10000	99	90 - 110	P	07/07/2025	15:30	LB136390
	Beryllium	239	250	95	90 - 110	P	07/07/2025	15:30	LB136390
	Cadmium	2480	2500	99	90 - 110	P	07/07/2025	15:30	LB136390
	Calcium	24400	25000	98	90 - 110	P	07/07/2025	15:30	LB136390
	Chromium	994	1000	99	90 - 110	P	07/07/2025	15:30	LB136390
	Cobalt	2480	2500	99	90 - 110	P	07/07/2025	15:30	LB136390
	Copper	1260	1250	101	90 - 110	P	07/07/2025	15:30	LB136390
	Iron	5020	5000	100	90 - 110	P	07/07/2025	15:30	LB136390
	Lead	4930	5000	99	90 - 110	P	07/07/2025	15:30	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	24000	25000	96	90 - 110	P	07/07/2025	15:30	LB136390
	Manganese	2420	2500	97	90 - 110	P	07/07/2025	15:30	LB136390
	Nickel	2490	2500	100	90 - 110	P	07/07/2025	15:30	LB136390
	Potassium	24200	25000	97	90 - 110	P	07/07/2025	15:30	LB136390
	Selenium	5010	5000	100	90 - 110	P	07/07/2025	15:30	LB136390
	Silver	1240	1250	99	90 - 110	P	07/07/2025	15:30	LB136390
	Sodium	22700	25000	91	90 - 110	P	07/07/2025	15:30	LB136390
	Thallium	4840	5000	97	90 - 110	P	07/07/2025	15:30	LB136390
	Vanadium	2420	2500	97	90 - 110	P	07/07/2025	15:30	LB136390
	Zinc	2510	2500	101	90 - 110	P	07/07/2025	15:30	LB136390
CCV03	Aluminum	9880	10000	99	90 - 110	P	07/07/2025	16:33	LB136390
	Antimony	5100	5000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Arsenic	5100	5000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Barium	10000	10000	100	90 - 110	P	07/07/2025	16:33	LB136390
	Beryllium	245	250	98	90 - 110	P	07/07/2025	16:33	LB136390
	Cadmium	2520	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Calcium	24600	25000	98	90 - 110	P	07/07/2025	16:33	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/07/2025	16:33	LB136390
	Cobalt	2520	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Copper	1280	1250	102	90 - 110	P	07/07/2025	16:33	LB136390
	Iron	5150	5000	103	90 - 110	P	07/07/2025	16:33	LB136390
	Lead	5010	5000	100	90 - 110	P	07/07/2025	16:33	LB136390
	Magnesium	24100	25000	96	90 - 110	P	07/07/2025	16:33	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/07/2025	16:33	LB136390
	Nickel	2530	2500	101	90 - 110	P	07/07/2025	16:33	LB136390
	Potassium	26000	25000	104	90 - 110	P	07/07/2025	16:33	LB136390
	Selenium	5070	5000	101	90 - 110	P	07/07/2025	16:33	LB136390
	Silver	1270	1250	101	90 - 110	P	07/07/2025	16:33	LB136390
	Sodium	24800	25000	99	90 - 110	P	07/07/2025	16:33	LB136390
	Thallium	4700	5000	94	90 - 110	P	07/07/2025	16:33	LB136390
	Vanadium	2440	2500	98	90 - 110	P	07/07/2025	16:33	LB136390
	Zinc	2580	2500	103	90 - 110	P	07/07/2025	16:33	LB136390
CCV04	Aluminum	9910	10000	99	90 - 110	P	07/07/2025	17:31	LB136390
	Antimony	5060	5000	101	90 - 110	P	07/07/2025	17:31	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	5040	5000	101	90 - 110	P	07/07/2025	17:31	LB136390
	Barium	10200	10000	102	90 - 110	P	07/07/2025	17:31	LB136390
	Beryllium	240	250	96	90 - 110	P	07/07/2025	17:31	LB136390
	Cadmium	2480	2500	99	90 - 110	P	07/07/2025	17:31	LB136390
	Calcium	24600	25000	99	90 - 110	P	07/07/2025	17:31	LB136390
	Chromium	1010	1000	101	90 - 110	P	07/07/2025	17:31	LB136390
	Cobalt	2490	2500	100	90 - 110	P	07/07/2025	17:31	LB136390
	Copper	1260	1250	101	90 - 110	P	07/07/2025	17:31	LB136390
	Iron	5230	5000	104	90 - 110	P	07/07/2025	17:31	LB136390
	Lead	4930	5000	98	90 - 110	P	07/07/2025	17:31	LB136390
	Magnesium	23900	25000	96	90 - 110	P	07/07/2025	17:31	LB136390
	Manganese	2450	2500	98	90 - 110	P	07/07/2025	17:31	LB136390
	Nickel	2500	2500	100	90 - 110	P	07/07/2025	17:31	LB136390
	Potassium	27000	25000	108	90 - 110	P	07/07/2025	17:31	LB136390
	Selenium	5020	5000	100	90 - 110	P	07/07/2025	17:31	LB136390
	Silver	1260	1250	101	90 - 110	P	07/07/2025	17:31	LB136390
	Sodium	26700	25000	107	90 - 110	P	07/07/2025	17:31	LB136390
	Thallium	4540	5000	91	90 - 110	P	07/07/2025	17:31	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/07/2025	17:31	LB136390
	Zinc	2570	2500	103	90 - 110	P	07/07/2025	17:31	LB136390
CCV05	Aluminum	9950	10000	100	90 - 110	P	07/08/2025	01:43	LB136390
	Antimony	5110	5000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Arsenic	5130	5000	103	90 - 110	P	07/08/2025	01:43	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	01:43	LB136390
	Beryllium	252	250	101	90 - 110	P	07/08/2025	01:43	LB136390
	Cadmium	2550	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
	Calcium	24700	25000	99	90 - 110	P	07/08/2025	01:43	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Cobalt	2540	2500	101	90 - 110	P	07/08/2025	01:43	LB136390
	Copper	1290	1250	103	90 - 110	P	07/08/2025	01:43	LB136390
	Iron	5020	5000	100	90 - 110	P	07/08/2025	01:43	LB136390
	Lead	5060	5000	101	90 - 110	P	07/08/2025	01:43	LB136390
	Magnesium	24200	25000	97	90 - 110	P	07/08/2025	01:43	LB136390
	Manganese	2460	2500	98	90 - 110	P	07/08/2025	01:43	LB136390

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2550	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
	Potassium	26200	25000	105	90 - 110	P	07/08/2025	01:43	LB136390
	Selenium	5100	5000	102	90 - 110	P	07/08/2025	01:43	LB136390
	Silver	1260	1250	101	90 - 110	P	07/08/2025	01:43	LB136390
	Sodium	26100	25000	104	90 - 110	P	07/08/2025	01:43	LB136390
	Thallium	4270	5000	85	90 - 110	P	07/08/2025	01:43	LB136390
	Vanadium	2460	2500	98	90 - 110	P	07/08/2025	01:43	LB136390
	Zinc	2540	2500	102	90 - 110	P	07/08/2025	01:43	LB136390
CCV06	Aluminum	9750	10000	98	90 - 110	P	07/08/2025	02:49	LB136390
	Antimony	5020	5000	100	90 - 110	P	07/08/2025	02:49	LB136390
	Arsenic	5030	5000	101	90 - 110	P	07/08/2025	02:49	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	02:49	LB136390
	Beryllium	249	250	100	90 - 110	P	07/08/2025	02:49	LB136390
	Cadmium	2490	2500	99	90 - 110	P	07/08/2025	02:49	LB136390
	Calcium	24500	25000	98	90 - 110	P	07/08/2025	02:49	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	02:49	LB136390
	Cobalt	2480	2500	99	90 - 110	P	07/08/2025	02:49	LB136390
	Copper	1260	1250	101	90 - 110	P	07/08/2025	02:49	LB136390
	Iron	5260	5000	105	90 - 110	P	07/08/2025	02:49	LB136390
	Lead	4940	5000	99	90 - 110	P	07/08/2025	02:49	LB136390
	Magnesium	24000	25000	96	90 - 110	P	07/08/2025	02:49	LB136390
	Manganese	2430	2500	97	90 - 110	P	07/08/2025	02:49	LB136390
	Nickel	2490	2500	100	90 - 110	P	07/08/2025	02:49	LB136390
	Potassium	27900	25000	111	90 - 110	P	07/08/2025	02:49	LB136390
	Selenium	5030	5000	100	90 - 110	P	07/08/2025	02:49	LB136390
	Silver	1270	1250	102	90 - 110	P	07/08/2025	02:49	LB136390
	Sodium	27100	25000	108	90 - 110	P	07/08/2025	02:49	LB136390
	Thallium	4390	5000	88	90 - 110	P	07/08/2025	02:49	LB136390
	Vanadium	2450	2500	98	90 - 110	P	07/08/2025	02:49	LB136390
	Zinc	2450	2500	98	90 - 110	P	07/08/2025	02:49	LB136390
CCV07	Aluminum	9870	10000	99	90 - 110	P	07/08/2025	03:40	LB136390
	Antimony	5060	5000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Arsenic	5040	5000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Barium	10300	10000	103	90 - 110	P	07/08/2025	03:40	LB136390

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	251	250	100	90 - 110	P	07/08/2025	03:40	LB136390
	Cadmium	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Calcium	24800	25000	99	90 - 110	P	07/08/2025	03:40	LB136390
	Chromium	1020	1000	102	90 - 110	P	07/08/2025	03:40	LB136390
	Cobalt	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Copper	1270	1250	102	90 - 110	P	07/08/2025	03:40	LB136390
	Iron	5150	5000	103	90 - 110	P	07/08/2025	03:40	LB136390
	Lead	4980	5000	100	90 - 110	P	07/08/2025	03:40	LB136390
	Magnesium	24300	25000	97	90 - 110	P	07/08/2025	03:40	LB136390
	Manganese	2470	2500	99	90 - 110	P	07/08/2025	03:40	LB136390
	Nickel	2510	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Potassium	27100	25000	108	90 - 110	P	07/08/2025	03:40	LB136390
	Selenium	5020	5000	100	90 - 110	P	07/08/2025	03:40	LB136390
	Silver	1270	1250	101	90 - 110	P	07/08/2025	03:40	LB136390
	Sodium	25100	25000	101	90 - 110	P	07/08/2025	03:40	LB136390
	Thallium	4520	5000	90	90 - 110	P	07/08/2025	03:40	LB136390
	Vanadium	2490	2500	100	90 - 110	P	07/08/2025	03:40	LB136390
	Zinc	2500	2500	100	90 - 110	P	07/08/2025	03:40	LB136390

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	7590	8000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Antimony	3910	4000	98	90 - 110	P	07/09/2025	10:05	LB136407
	Arsenic	3660	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Barium	7770	8000	97	90 - 110	P	07/09/2025	10:05	LB136407
	Beryllium	194	200	97	90 - 110	P	07/09/2025	10:05	LB136407
	Cadmium	1860	2000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Calcium	19100	20000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Chromium	784	800	98	90 - 110	P	07/09/2025	10:05	LB136407
	Cobalt	1910	2000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Copper	1000	1000	100	90 - 110	P	07/09/2025	10:05	LB136407
	Iron	3730	4000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Lead	3700	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Magnesium	19100	20000	95	90 - 110	P	07/09/2025	10:05	LB136407
	Manganese	1920	2000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Nickel	1890	2000	94	90 - 110	P	07/09/2025	10:05	LB136407
	Potassium	18500	20000	93	90 - 110	P	07/09/2025	10:05	LB136407
	Selenium	3760	4000	94	90 - 110	P	07/09/2025	10:05	LB136407
	Silver	1000	1000	100	90 - 110	P	07/09/2025	10:05	LB136407
	Sodium	19300	20000	96	90 - 110	P	07/09/2025	10:05	LB136407
	Thallium	3680	4000	92	90 - 110	P	07/09/2025	10:05	LB136407
	Vanadium	1940	2000	97	90 - 110	P	07/09/2025	10:05	LB136407
	Zinc	1950	2000	97	90 - 110	P	07/09/2025	10:05	LB136407

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	96.1	100	96	80 - 120	P	07/09/2025	10:17	LB136407
	Antimony	49.5	50.0	99	80 - 120	P	07/09/2025	10:17	LB136407
	Arsenic	20.8	20.0	104	80 - 120	P	07/09/2025	10:17	LB136407
	Barium	101	100	101	80 - 120	P	07/09/2025	10:17	LB136407
	Beryllium	6.07	6.0	101	80 - 120	P	07/09/2025	10:17	LB136407
	Cadmium	5.40	6.0	90	80 - 120	P	07/09/2025	10:17	LB136407
	Calcium	1940	2000	97	80 - 120	P	07/09/2025	10:17	LB136407
	Chromium	10.3	10.0	103	80 - 120	P	07/09/2025	10:17	LB136407
	Cobalt	28.4	30.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Copper	22.7	20.0	114	80 - 120	P	07/09/2025	10:17	LB136407
	Iron	117	100	117	80 - 120	P	07/09/2025	10:17	LB136407
	Lead	11.2	12.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Magnesium	2100	2000	105	80 - 120	P	07/09/2025	10:17	LB136407
	Manganese	23.0	20.0	115	80 - 120	P	07/09/2025	10:17	LB136407
	Nickel	37.8	40.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Potassium	1760	2000	88	80 - 120	P	07/09/2025	10:17	LB136407
	Selenium	21.3	20.0	107	80 - 120	P	07/09/2025	10:17	LB136407
	Silver	9.46	10.0	95	80 - 120	P	07/09/2025	10:17	LB136407
	Sodium	1770	2000	88	80 - 120	P	07/09/2025	10:17	LB136407
	Thallium	37.7	40.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Vanadium	37.7	40.0	94	80 - 120	P	07/09/2025	10:17	LB136407
	Zinc	42.1	40.0	105	80 - 120	P	07/09/2025	10:17	LB136407

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	10300	10000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Antimony	5070	5000	101	90 - 110	P	07/09/2025	10:48	LB136407
	Arsenic	4990	5000	100	90 - 110	P	07/09/2025	10:48	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	10:48	LB136407
	Beryllium	259	250	104	90 - 110	P	07/09/2025	10:48	LB136407
	Cadmium	2520	2500	101	90 - 110	P	07/09/2025	10:48	LB136407
	Calcium	25400	25000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Chromium	1030	1000	103	90 - 110	P	07/09/2025	10:48	LB136407
	Cobalt	2480	2500	99	90 - 110	P	07/09/2025	10:48	LB136407
	Copper	1290	1250	104	90 - 110	P	07/09/2025	10:48	LB136407
	Iron	5010	5000	100	90 - 110	P	07/09/2025	10:48	LB136407
	Lead	5040	5000	101	90 - 110	P	07/09/2025	10:48	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	10:48	LB136407
	Manganese	2620	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
	Nickel	2470	2500	99	90 - 110	P	07/09/2025	10:48	LB136407
	Potassium	25800	25000	103	90 - 110	P	07/09/2025	10:48	LB136407
	Selenium	5080	5000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Silver	1260	1250	101	90 - 110	P	07/09/2025	10:48	LB136407
	Sodium	26500	25000	106	90 - 110	P	07/09/2025	10:48	LB136407
	Thallium	5100	5000	102	90 - 110	P	07/09/2025	10:48	LB136407
	Vanadium	2630	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
	Zinc	2630	2500	105	90 - 110	P	07/09/2025	10:48	LB136407
CCV02	Aluminum	9890	10000	99	90 - 110	P	07/09/2025	11:47	LB136407
	Antimony	5010	5000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Arsenic	4800	5000	96	90 - 110	P	07/09/2025	11:47	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	11:47	LB136407
	Beryllium	254	250	102	90 - 110	P	07/09/2025	11:47	LB136407
	Cadmium	2430	2500	97	90 - 110	P	07/09/2025	11:47	LB136407
	Calcium	25200	25000	101	90 - 110	P	07/09/2025	11:47	LB136407
	Chromium	997	1000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Cobalt	2400	2500	96	90 - 110	P	07/09/2025	11:47	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	11:47	LB136407
	Iron	4860	5000	97	90 - 110	P	07/09/2025	11:47	LB136407
	Lead	4860	5000	97	90 - 110	P	07/09/2025	11:47	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	24200	25000	97	90 - 110	P	07/09/2025	11:47	LB136407
	Manganese	2580	2500	103	90 - 110	P	07/09/2025	11:47	LB136407
	Nickel	2400	2500	96	90 - 110	P	07/09/2025	11:47	LB136407
	Potassium	24100	25000	96	90 - 110	P	07/09/2025	11:47	LB136407
	Selenium	4960	5000	99	90 - 110	P	07/09/2025	11:47	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	11:47	LB136407
	Sodium	24500	25000	98	90 - 110	P	07/09/2025	11:47	LB136407
	Thallium	4990	5000	100	90 - 110	P	07/09/2025	11:47	LB136407
	Vanadium	2600	2500	104	90 - 110	P	07/09/2025	11:47	LB136407
	Zinc	2590	2500	104	90 - 110	P	07/09/2025	11:47	LB136407
CCV03	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Antimony	5020	5000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Arsenic	4830	5000	96	90 - 110	P	07/09/2025	12:54	LB136407
	Barium	10800	10000	108	90 - 110	P	07/09/2025	12:54	LB136407
	Beryllium	257	250	103	90 - 110	P	07/09/2025	12:54	LB136407
	Cadmium	2440	2500	98	90 - 110	P	07/09/2025	12:54	LB136407
	Calcium	25500	25000	102	90 - 110	P	07/09/2025	12:54	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Cobalt	2410	2500	97	90 - 110	P	07/09/2025	12:54	LB136407
	Copper	1270	1250	102	90 - 110	P	07/09/2025	12:54	LB136407
	Iron	4930	5000	99	90 - 110	P	07/09/2025	12:54	LB136407
	Lead	4890	5000	98	90 - 110	P	07/09/2025	12:54	LB136407
	Magnesium	24500	25000	98	90 - 110	P	07/09/2025	12:54	LB136407
	Manganese	2590	2500	103	90 - 110	P	07/09/2025	12:54	LB136407
	Nickel	2410	2500	96	90 - 110	P	07/09/2025	12:54	LB136407
	Potassium	24700	25000	99	90 - 110	P	07/09/2025	12:54	LB136407
	Selenium	5010	5000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	12:54	LB136407
	Sodium	25000	25000	100	90 - 110	P	07/09/2025	12:54	LB136407
	Thallium	5030	5000	101	90 - 110	P	07/09/2025	12:54	LB136407
	Vanadium	2590	2500	104	90 - 110	P	07/09/2025	12:54	LB136407
	Zinc	2600	2500	104	90 - 110	P	07/09/2025	12:54	LB136407
CCV04	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Antimony	5010	5000	100	90 - 110	P	07/09/2025	14:05	LB136407

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	4860	5000	97	90 - 110	P	07/09/2025	14:05	LB136407
	Barium	10700	10000	107	90 - 110	P	07/09/2025	14:05	LB136407
	Beryllium	259	250	104	90 - 110	P	07/09/2025	14:05	LB136407
	Cadmium	2460	2500	98	90 - 110	P	07/09/2025	14:05	LB136407
	Calcium	25700	25000	103	90 - 110	P	07/09/2025	14:05	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	14:05	LB136407
	Cobalt	2410	2500	96	90 - 110	P	07/09/2025	14:05	LB136407
	Copper	1280	1250	102	90 - 110	P	07/09/2025	14:05	LB136407
	Iron	5000	5000	100	90 - 110	P	07/09/2025	14:05	LB136407
	Lead	4930	5000	99	90 - 110	P	07/09/2025	14:05	LB136407
	Magnesium	24500	25000	98	90 - 110	P	07/09/2025	14:05	LB136407
	Manganese	2590	2500	104	90 - 110	P	07/09/2025	14:05	LB136407
	Nickel	2420	2500	97	90 - 110	P	07/09/2025	14:05	LB136407
	Potassium	25300	25000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Selenium	5050	5000	101	90 - 110	P	07/09/2025	14:05	LB136407
	Silver	1260	1250	101	90 - 110	P	07/09/2025	14:05	LB136407
	Sodium	25800	25000	103	90 - 110	P	07/09/2025	14:05	LB136407
	Thallium	5080	5000	102	90 - 110	P	07/09/2025	14:05	LB136407
	Vanadium	2580	2500	103	90 - 110	P	07/09/2025	14:05	LB136407
	Zinc	2580	2500	103	90 - 110	P	07/09/2025	14:05	LB136407
CCV05	Aluminum	10200	10000	102	90 - 110	P	07/09/2025	15:27	LB136407
	Antimony	5170	5000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Arsenic	5070	5000	101	90 - 110	P	07/09/2025	15:27	LB136407
	Barium	10800	10000	108	90 - 110	P	07/09/2025	15:27	LB136407
	Beryllium	272	250	109	90 - 110	P	07/09/2025	15:27	LB136407
	Cadmium	2560	2500	103	90 - 110	P	07/09/2025	15:27	LB136407
	Calcium	26100	25000	104	90 - 110	P	07/09/2025	15:27	LB136407
	Chromium	1030	1000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Cobalt	2500	2500	100	90 - 110	P	07/09/2025	15:27	LB136407
	Copper	1340	1250	107	90 - 110	P	07/09/2025	15:27	LB136407
	Iron	5360	5000	107	90 - 110	P	07/09/2025	15:27	LB136407
	Lead	5130	5000	103	90 - 110	P	07/09/2025	15:27	LB136407
	Magnesium	25100	25000	100	90 - 110	P	07/09/2025	15:27	LB136407
	Manganese	2600	2500	104	90 - 110	P	07/09/2025	15:27	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	2510	2500	100	90 - 110	P	07/09/2025	15:27	LB136407
	Potassium	26800	25000	107	90 - 110	P	07/09/2025	15:27	LB136407
	Selenium	5260	5000	105	90 - 110	P	07/09/2025	15:27	LB136407
	Silver	1280	1250	102	90 - 110	P	07/09/2025	15:27	LB136407
	Sodium	27100	25000	108	90 - 110	P	07/09/2025	15:27	LB136407
	Thallium	5270	5000	106	90 - 110	P	07/09/2025	15:27	LB136407
	Vanadium	2600	2500	104	90 - 110	P	07/09/2025	15:27	LB136407
	Zinc	2620	2500	105	90 - 110	P	07/09/2025	15:27	LB136407
CCV06	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Antimony	5040	5000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Arsenic	4880	5000	98	90 - 110	P	07/09/2025	16:39	LB136407
	Barium	10600	10000	106	90 - 110	P	07/09/2025	16:39	LB136407
	Beryllium	260	250	104	90 - 110	P	07/09/2025	16:39	LB136407
	Cadmium	2470	2500	99	90 - 110	P	07/09/2025	16:39	LB136407
	Calcium	25600	25000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Chromium	1000	1000	100	90 - 110	P	07/09/2025	16:39	LB136407
	Cobalt	2430	2500	97	90 - 110	P	07/09/2025	16:39	LB136407
	Copper	1280	1250	103	90 - 110	P	07/09/2025	16:39	LB136407
	Iron	5080	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Lead	4940	5000	99	90 - 110	P	07/09/2025	16:39	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	16:39	LB136407
	Manganese	2580	2500	103	90 - 110	P	07/09/2025	16:39	LB136407
	Nickel	2430	2500	97	90 - 110	P	07/09/2025	16:39	LB136407
	Potassium	25300	25000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Selenium	5090	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Silver	1250	1250	100	90 - 110	P	07/09/2025	16:39	LB136407
	Sodium	25300	25000	101	90 - 110	P	07/09/2025	16:39	LB136407
	Thallium	5110	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
	Vanadium	2570	2500	103	90 - 110	P	07/09/2025	16:39	LB136407
	Zinc	2560	2500	102	90 - 110	P	07/09/2025	16:39	LB136407
CCV07	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Antimony	4980	5000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Arsenic	4770	5000	95	90 - 110	P	07/09/2025	17:50	LB136407
	Barium	10500	10000	105	90 - 110	P	07/09/2025	17:50	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	258	250	103	90 - 110	P	07/09/2025	17:50	LB136407
	Cadmium	2420	2500	97	90 - 110	P	07/09/2025	17:50	LB136407
	Calcium	25500	25000	102	90 - 110	P	07/09/2025	17:50	LB136407
	Chromium	982	1000	98	90 - 110	P	07/09/2025	17:50	LB136407
	Cobalt	2380	2500	95	90 - 110	P	07/09/2025	17:50	LB136407
	Copper	1270	1250	102	90 - 110	P	07/09/2025	17:50	LB136407
	Iron	5070	5000	101	90 - 110	P	07/09/2025	17:50	LB136407
	Lead	4830	5000	97	90 - 110	P	07/09/2025	17:50	LB136407
	Magnesium	24700	25000	99	90 - 110	P	07/09/2025	17:50	LB136407
	Manganese	2570	2500	103	90 - 110	P	07/09/2025	17:50	LB136407
	Nickel	2390	2500	96	90 - 110	P	07/09/2025	17:50	LB136407
	Potassium	23900	25000	96	90 - 110	P	07/09/2025	17:50	LB136407
	Selenium	5010	5000	100	90 - 110	P	07/09/2025	17:50	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	17:50	LB136407
	Sodium	24000	25000	96	90 - 110	P	07/09/2025	17:50	LB136407
	Thallium	5040	5000	101	90 - 110	P	07/09/2025	17:50	LB136407
	Vanadium	2540	2500	102	90 - 110	P	07/09/2025	17:50	LB136407
	Zinc	2520	2500	101	90 - 110	P	07/09/2025	17:50	LB136407
CCV08	Aluminum	9890	10000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Antimony	4930	5000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Arsenic	4700	5000	94	90 - 110	P	07/09/2025	18:54	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	18:54	LB136407
	Beryllium	255	250	102	90 - 110	P	07/09/2025	18:54	LB136407
	Cadmium	2400	2500	96	90 - 110	P	07/09/2025	18:54	LB136407
	Calcium	25100	25000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Chromium	966	1000	97	90 - 110	P	07/09/2025	18:54	LB136407
	Cobalt	2340	2500	94	90 - 110	P	07/09/2025	18:54	LB136407
	Copper	1250	1250	100	90 - 110	P	07/09/2025	18:54	LB136407
	Iron	5020	5000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Lead	4780	5000	96	90 - 110	P	07/09/2025	18:54	LB136407
	Magnesium	24300	25000	97	90 - 110	P	07/09/2025	18:54	LB136407
	Manganese	2520	2500	101	90 - 110	P	07/09/2025	18:54	LB136407
	Nickel	2370	2500	95	90 - 110	P	07/09/2025	18:54	LB136407
	Potassium	23500	25000	94	90 - 110	P	07/09/2025	18:54	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4970	5000	99	90 - 110	P	07/09/2025	18:54	LB136407
	Silver	1220	1250	98	90 - 110	P	07/09/2025	18:54	LB136407
	Sodium	23600	25000	94	90 - 110	P	07/09/2025	18:54	LB136407
	Thallium	5010	5000	100	90 - 110	P	07/09/2025	18:54	LB136407
	Vanadium	2510	2500	101	90 - 110	P	07/09/2025	18:54	LB136407
	Zinc	2490	2500	100	90 - 110	P	07/09/2025	18:54	LB136407
CCV09	Aluminum	9970	10000	100	90 - 110	P	07/09/2025	19:48	LB136407
	Antimony	5030	5000	101	90 - 110	P	07/09/2025	19:48	LB136407
	Arsenic	4800	5000	96	90 - 110	P	07/09/2025	19:48	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	19:48	LB136407
	Beryllium	255	250	102	90 - 110	P	07/09/2025	19:48	LB136407
	Cadmium	2450	2500	98	90 - 110	P	07/09/2025	19:48	LB136407
	Calcium	25400	25000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Chromium	983	1000	98	90 - 110	P	07/09/2025	19:48	LB136407
	Cobalt	2390	2500	96	90 - 110	P	07/09/2025	19:48	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	19:48	LB136407
	Iron	5050	5000	101	90 - 110	P	07/09/2025	19:48	LB136407
	Lead	4870	5000	97	90 - 110	P	07/09/2025	19:48	LB136407
	Magnesium	24400	25000	98	90 - 110	P	07/09/2025	19:48	LB136407
	Manganese	2550	2500	102	90 - 110	P	07/09/2025	19:48	LB136407
	Nickel	2410	2500	97	90 - 110	P	07/09/2025	19:48	LB136407
	Potassium	23800	25000	95	90 - 110	P	07/09/2025	19:48	LB136407
	Selenium	5080	5000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Silver	1250	1250	100	90 - 110	P	07/09/2025	19:48	LB136407
	Sodium	23700	25000	95	90 - 110	P	07/09/2025	19:48	LB136407
	Thallium	5120	5000	102	90 - 110	P	07/09/2025	19:48	LB136407
	Vanadium	2540	2500	102	90 - 110	P	07/09/2025	19:48	LB136407
	Zinc	2540	2500	101	90 - 110	P	07/09/2025	19:48	LB136407
CCV10	Aluminum	10100	10000	101	90 - 110	P	07/09/2025	20:41	LB136407
	Antimony	5140	5000	103	90 - 110	P	07/09/2025	20:41	LB136407
	Arsenic	4910	5000	98	90 - 110	P	07/09/2025	20:41	LB136407
	Barium	10600	10000	106	90 - 110	P	07/09/2025	20:41	LB136407
	Beryllium	260	250	104	90 - 110	P	07/09/2025	20:41	LB136407
	Cadmium	2510	2500	100	90 - 110	P	07/09/2025	20:41	LB136407

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	25900	25000	103	90 - 110	P	07/09/2025	20:41	LB136407
	Chromium	1010	1000	101	90 - 110	P	07/09/2025	20:41	LB136407
	Cobalt	2440	2500	98	90 - 110	P	07/09/2025	20:41	LB136407
	Copper	1280	1250	102	90 - 110	P	07/09/2025	20:41	LB136407
	Iron	5110	5000	102	90 - 110	P	07/09/2025	20:41	LB136407
	Lead	4990	5000	100	90 - 110	P	07/09/2025	20:41	LB136407
	Magnesium	24800	25000	99	90 - 110	P	07/09/2025	20:41	LB136407
	Manganese	2610	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
	Nickel	2470	2500	99	90 - 110	P	07/09/2025	20:41	LB136407
	Potassium	24600	25000	98	90 - 110	P	07/09/2025	20:41	LB136407
	Selenium	5200	5000	104	90 - 110	P	07/09/2025	20:41	LB136407
	Silver	1270	1250	102	90 - 110	P	07/09/2025	20:41	LB136407
	Sodium	24200	25000	97	90 - 110	P	07/09/2025	20:41	LB136407
	Thallium	5230	5000	105	90 - 110	P	07/09/2025	20:41	LB136407
	Vanadium	2590	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
	Zinc	2610	2500	104	90 - 110	P	07/09/2025	20:41	LB136407
CCV11	Aluminum	10000	10000	100	90 - 110	P	07/09/2025	21:12	LB136407
	Antimony	4990	5000	100	90 - 110	P	07/09/2025	21:12	LB136407
	Arsenic	4740	5000	95	90 - 110	P	07/09/2025	21:12	LB136407
	Barium	10400	10000	104	90 - 110	P	07/09/2025	21:12	LB136407
	Beryllium	257	250	103	90 - 110	P	07/09/2025	21:12	LB136407
	Cadmium	2420	2500	97	90 - 110	P	07/09/2025	21:12	LB136407
	Calcium	25300	25000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Chromium	975	1000	98	90 - 110	P	07/09/2025	21:12	LB136407
	Cobalt	2360	2500	95	90 - 110	P	07/09/2025	21:12	LB136407
	Copper	1260	1250	101	90 - 110	P	07/09/2025	21:12	LB136407
	Iron	5070	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Lead	4820	5000	96	90 - 110	P	07/09/2025	21:12	LB136407
	Magnesium	24400	25000	98	90 - 110	P	07/09/2025	21:12	LB136407
	Manganese	2560	2500	102	90 - 110	P	07/09/2025	21:12	LB136407
	Nickel	2390	2500	96	90 - 110	P	07/09/2025	21:12	LB136407
	Potassium	23900	25000	96	90 - 110	P	07/09/2025	21:12	LB136407
	Selenium	5050	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Silver	1240	1250	99	90 - 110	P	07/09/2025	21:12	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	23800	25000	95	90 - 110	P	07/09/2025	21:12	LB136407
	Thallium	5060	5000	101	90 - 110	P	07/09/2025	21:12	LB136407
	Vanadium	2550	2500	102	90 - 110	P	07/09/2025	21:12	LB136407
	Zinc	2540	2500	102	90 - 110	P	07/09/2025	21:12	LB136407

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	7840	8000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Antimony	4070	4000	102	90 - 110	P	07/15/2025	13:39	LB136486
	Arsenic	3770	4000	94	90 - 110	P	07/15/2025	13:39	LB136486
	Barium	7830	8000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Beryllium	205	200	102	90 - 110	P	07/15/2025	13:39	LB136486
	Cadmium	1920	2000	96	90 - 110	P	07/15/2025	13:39	LB136486
	Calcium	19500	20000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Chromium	797	800	100	90 - 110	P	07/15/2025	13:39	LB136486
	Cobalt	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Copper	1040	1000	104	90 - 110	P	07/15/2025	13:39	LB136486
	Iron	4000	4000	100	90 - 110	P	07/15/2025	13:39	LB136486
	Lead	3810	4000	95	90 - 110	P	07/15/2025	13:39	LB136486
	Magnesium	19700	20000	99	90 - 110	P	07/15/2025	13:39	LB136486
	Manganese	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Nickel	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Potassium	18400	20000	92	90 - 110	P	07/15/2025	13:39	LB136486
	Selenium	3910	4000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Silver	1070	1000	107	90 - 110	P	07/15/2025	13:39	LB136486
	Sodium	19600	20000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Thallium	3800	4000	95	90 - 110	P	07/15/2025	13:39	LB136486
	Vanadium	1960	2000	98	90 - 110	P	07/15/2025	13:39	LB136486
	Zinc	1980	2000	99	90 - 110	P	07/15/2025	13:39	LB136486

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
LLICV1	Aluminum	113	100	113	80 - 120	P	07/15/2025	13:50	LB136486
	Antimony	54.5	50.0	109	80 - 120	P	07/15/2025	13:50	LB136486
	Arsenic	17.4	20.0	87	80 - 120	P	07/15/2025	13:50	LB136486
	Barium	101	100	101	80 - 120	P	07/15/2025	13:50	LB136486
	Beryllium	6.45	6.0	108	80 - 120	P	07/15/2025	13:50	LB136486
	Cadmium	5.65	6.0	94	80 - 120	P	07/15/2025	13:50	LB136486
	Calcium	2090	2000	105	80 - 120	P	07/15/2025	13:50	LB136486
	Chromium	9.89	10.0	99	80 - 120	P	07/15/2025	13:50	LB136486
	Cobalt	30.8	30.0	103	80 - 120	P	07/15/2025	13:50	LB136486
	Copper	22.8	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Iron	116	100	116	80 - 120	P	07/15/2025	13:50	LB136486
	Lead	12.7	12.0	106	80 - 120	P	07/15/2025	13:50	LB136486
	Magnesium	2300	2000	115	80 - 120	P	07/15/2025	13:50	LB136486
	Manganese	22.7	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Nickel	39.9	40.0	100	80 - 120	P	07/15/2025	13:50	LB136486
	Potassium	1830	2000	92	80 - 120	P	07/15/2025	13:50	LB136486
	Selenium	22.8	20.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Silver	11.4	10.0	114	80 - 120	P	07/15/2025	13:50	LB136486
	Sodium	1860	2000	93	80 - 120	P	07/15/2025	13:50	LB136486
	Thallium	42.1	40.0	105	80 - 120	P	07/15/2025	13:50	LB136486
	Vanadium	37.5	40.0	94	80 - 120	P	07/15/2025	13:50	LB136486
	Zinc	42.1	40.0	105	80 - 120	P	07/15/2025	13:50	LB136486

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Antimony	4960	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Arsenic	4900	5000	98	90 - 110	P	07/15/2025	14:34	LB136486
	Barium	9990	10000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Beryllium	254	250	101	90 - 110	P	07/15/2025	14:34	LB136486
	Cadmium	2470	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Calcium	25000	25000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Chromium	1010	1000	101	90 - 110	P	07/15/2025	14:34	LB136486
	Cobalt	2470	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Copper	1260	1250	101	90 - 110	P	07/15/2025	14:34	LB136486
	Iron	5120	5000	102	90 - 110	P	07/15/2025	14:34	LB136486
	Lead	4930	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Magnesium	24600	25000	98	90 - 110	P	07/15/2025	14:34	LB136486
	Manganese	2500	2500	100	90 - 110	P	07/15/2025	14:34	LB136486
	Nickel	2480	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
	Potassium	24900	25000	100	90 - 110	P	07/15/2025	14:34	LB136486
	Selenium	4960	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Silver	1250	1250	100	90 - 110	P	07/15/2025	14:34	LB136486
	Sodium	24800	25000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Thallium	4970	5000	99	90 - 110	P	07/15/2025	14:34	LB136486
	Vanadium	2500	2500	100	90 - 110	P	07/15/2025	14:34	LB136486
	Zinc	2480	2500	99	90 - 110	P	07/15/2025	14:34	LB136486
CCV02	Aluminum	10100	10000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Antimony	4990	5000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Arsenic	4890	5000	98	90 - 110	P	07/15/2025	15:11	LB136486
	Barium	10100	10000	101	90 - 110	P	07/15/2025	15:11	LB136486
	Beryllium	254	250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Cadmium	2460	2500	98	90 - 110	P	07/15/2025	15:11	LB136486
	Calcium	25100	25000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Chromium	1010	1000	101	90 - 110	P	07/15/2025	15:11	LB136486
	Cobalt	2470	2500	99	90 - 110	P	07/15/2025	15:11	LB136486
	Copper	1260	1250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Iron	5140	5000	103	90 - 110	P	07/15/2025	15:11	LB136486
	Lead	4910	5000	98	90 - 110	P	07/15/2025	15:11	LB136486

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24800	25000	99	90 - 110	P	07/15/2025	15:11	LB136486
	Manganese	2510	2500	100	90 - 110	P	07/15/2025	15:11	LB136486
	Nickel	2480	2500	99	90 - 110	P	07/15/2025	15:11	LB136486
	Potassium	23500	25000	94	90 - 110	P	07/15/2025	15:11	LB136486
	Selenium	4970	5000	99	90 - 110	P	07/15/2025	15:11	LB136486
	Silver	1260	1250	101	90 - 110	P	07/15/2025	15:11	LB136486
	Sodium	23900	25000	96	90 - 110	P	07/15/2025	15:11	LB136486
	Thallium	4980	5000	100	90 - 110	P	07/15/2025	15:11	LB136486
	Vanadium	2500	2500	100	90 - 110	P	07/15/2025	15:11	LB136486
	Zinc	2460	2500	99	90 - 110	P	07/15/2025	15:11	LB136486

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	0.19	0.2	95	70 - 130	CV	07/03/2025	11:24	LB136369
CRI01	Aluminum	109	100	109	65 - 135	P	07/07/2025	13:49	LB136390
	Antimony	52.7	50.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Arsenic	23.0	20.0	115	65 - 135	P	07/07/2025	13:49	LB136390
	Barium	97.5	100	98	65 - 135	P	07/07/2025	13:49	LB136390
	Beryllium	6.07	6.0	101	65 - 135	P	07/07/2025	13:49	LB136390
	Cadmium	7.08	6.0	118	65 - 135	P	07/07/2025	13:49	LB136390
	Calcium	2020	2000	101	65 - 135	P	07/07/2025	13:49	LB136390
	Chromium	11.8	10.0	118	65 - 135	P	07/07/2025	13:49	LB136390
	Cobalt	30.6	30.0	102	65 - 135	P	07/07/2025	13:49	LB136390
	Copper	22.1	20.0	111	65 - 135	P	07/07/2025	13:49	LB136390
	Iron	117	100	117	65 - 135	P	07/07/2025	13:49	LB136390
	Lead	13.7	12.0	114	65 - 135	P	07/07/2025	13:49	LB136390
	Magnesium	2100	2000	105	65 - 135	P	07/07/2025	13:49	LB136390
	Manganese	21.9	20.0	110	65 - 135	P	07/07/2025	13:49	LB136390
	Nickel	42.1	40.0	105	65 - 135	P	07/07/2025	13:49	LB136390
	Potassium	1880	2000	94	65 - 135	P	07/07/2025	13:49	LB136390
	Selenium	19.2	20.0	96	65 - 135	P	07/07/2025	13:49	LB136390
	Silver	10.6	10.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Sodium	2070	2000	104	65 - 135	P	07/07/2025	13:49	LB136390
	Thallium	42.1	40.0	105	65 - 135	P	07/07/2025	13:49	LB136390
	Vanadium	42.5	40.0	106	65 - 135	P	07/07/2025	13:49	LB136390
	Zinc	46.7	40.0	117	65 - 135	P	07/07/2025	13:49	LB136390
CRI01	Aluminum	114	100	114	65 - 135	P	07/09/2025	10:26	LB136407
	Antimony	53.6	50.0	107	65 - 135	P	07/09/2025	10:26	LB136407
	Arsenic	14.2	20.0	71	65 - 135	P	07/09/2025	10:26	LB136407
	Barium	104	100	104	65 - 135	P	07/09/2025	10:26	LB136407
	Beryllium	6.33	6.0	105	65 - 135	P	07/09/2025	10:26	LB136407
	Cadmium	5.51	6.0	92	65 - 135	P	07/09/2025	10:26	LB136407
	Calcium	1930	2000	96	65 - 135	P	07/09/2025	10:26	LB136407
	Chromium	10.7	10.0	107	65 - 135	P	07/09/2025	10:26	LB136407
	Cobalt	29.1	30.0	97	65 - 135	P	07/09/2025	10:26	LB136407
	Copper	24.1	20.0	120	65 - 135	P	07/09/2025	10:26	LB136407
	Iron	119	100	119	65 - 135	P	07/09/2025	10:26	LB136407
	Lead	11.5	12.0	96	65 - 135	P	07/09/2025	10:26	LB136407

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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	2060	2000	103	65 - 135	P	07/09/2025	10:26	LB136407
	Manganese	22.6	20.0	113	65 - 135	P	07/09/2025	10:26	LB136407
	Nickel	38.2	40.0	96	65 - 135	P	07/09/2025	10:26	LB136407
	Potassium	1710	2000	86	65 - 135	P	07/09/2025	10:26	LB136407
	Selenium	22.8	20.0	114	65 - 135	P	07/09/2025	10:26	LB136407
	Silver	11.6	10.0	116	65 - 135	P	07/09/2025	10:26	LB136407
	Sodium	1830	2000	92	65 - 135	P	07/09/2025	10:26	LB136407
	Thallium	38.4	40.0	96	65 - 135	P	07/09/2025	10:26	LB136407
	Vanadium	32.0	40.0	80	65 - 135	P	07/09/2025	10:26	LB136407
	Zinc	43.1	40.0	108	65 - 135	P	07/09/2025	10:26	LB136407
CRI01	Aluminum	98.0	100	98	65 - 135	P	07/15/2025	14:05	LB136486
	Antimony	52.4	50.0	105	65 - 135	P	07/15/2025	14:05	LB136486
	Arsenic	16.4	20.0	82	65 - 135	P	07/15/2025	14:05	LB136486
	Barium	101	100	101	65 - 135	P	07/15/2025	14:05	LB136486
	Beryllium	6.27	6.0	104	65 - 135	P	07/15/2025	14:05	LB136486
	Cadmium	5.56	6.0	93	65 - 135	P	07/15/2025	14:05	LB136486
	Calcium	2020	2000	101	65 - 135	P	07/15/2025	14:05	LB136486
	Chromium	10.0	10.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Cobalt	29.9	30.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Copper	22.0	20.0	110	65 - 135	P	07/15/2025	14:05	LB136486
	Iron	113	100	113	65 - 135	P	07/15/2025	14:05	LB136486
	Lead	13.4	12.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Magnesium	2190	2000	110	65 - 135	P	07/15/2025	14:05	LB136486
	Manganese	22.2	20.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Nickel	39.2	40.0	98	65 - 135	P	07/15/2025	14:05	LB136486
	Potassium	1790	2000	90	65 - 135	P	07/15/2025	14:05	LB136486
	Selenium	22.3	20.0	111	65 - 135	P	07/15/2025	14:05	LB136486
	Silver	11.2	10.0	112	65 - 135	P	07/15/2025	14:05	LB136486
	Sodium	1810	2000	90	65 - 135	P	07/15/2025	14:05	LB136486
	Thallium	40.0	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Vanadium	40.1	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486
	Zinc	40.0	40.0	100	65 - 135	P	07/15/2025	14:05	LB136486

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB16	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:17	LB136369

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:22	LB136369
CCB52	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	11:50	LB136369
CCB53	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	12:18	LB136369
CCB54	Mercury	0.076	+/-0.2	U	0.20	CV	07/03/2025	12:33	LB136369

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	29.5	+/-50	J	100	P	07/07/2025	13:45	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	13:45	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	13:45	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	13:45	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	13:45	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	13:45	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	13:45	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	13:45	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	13:45	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	13:45	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	13:45	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	13:45	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	13:45	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	13:45	LB136390

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/07/2025	14:42	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	14:42	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	14:42	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	14:42	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	14:42	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	14:42	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	14:42	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	14:42	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	14:42	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	14:42	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	14:42	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	14:42	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	14:42	LB136390
CCB02	Aluminum	11.3	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	15:34	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	15:34	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	15:34	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	15:34	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	15:34	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	15:34	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	15:34	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	15:34	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	15:34	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/07/2025	15:34	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	15:34	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	15:34	LB136390
CCB03	Aluminum	11.3	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	16:37	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	16:37	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	16:37	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	16:37	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	16:37	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	16:37	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	16:37	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	16:37	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	16:37	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	16:37	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	16:37	LB136390
CCB04	Aluminum	11.3	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/07/2025	17:35	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Barium	14.6	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/07/2025	17:35	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/07/2025	17:35	LB136390
	Calcium	234	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/07/2025	17:35	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/07/2025	17:35	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Iron	23.4	+/-50	U	100	P	07/07/2025	17:35	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/07/2025	17:35	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/07/2025	17:35	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Potassium	918	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/07/2025	17:35	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/07/2025	17:35	LB136390
	Sodium	868	+/-1000	U	2000	P	07/07/2025	17:35	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/07/2025	17:35	LB136390
CCB05	Aluminum	12.2	+/-50	J	100	P	07/08/2025	01:47	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	01:47	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	01:47	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	01:47	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	01:47	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/08/2025	01:47	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	01:47	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	01:47	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	01:47	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	01:47	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	01:47	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	01:47	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	01:47	LB136390
CCB06	Aluminum	11.3	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	02:53	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	02:53	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	02:53	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	02:53	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/08/2025	02:53	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	02:53	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	02:53	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	02:53	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	02:53	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	02:53	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	02:53	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	02:53	LB136390
CCB07	Aluminum	11.3	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Antimony	6.76	+/-25	U	50.0	P	07/08/2025	03:44	LB136390
	Arsenic	5.12	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Barium	14.6	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Beryllium	0.56	+/-3	U	6.00	P	07/08/2025	03:44	LB136390
	Cadmium	0.50	+/-3	U	6.00	P	07/08/2025	03:44	LB136390
	Calcium	234	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Chromium	2.12	+/-5	U	10.0	P	07/08/2025	03:44	LB136390
	Cobalt	2.26	+/-15	U	30.0	P	07/08/2025	03:44	LB136390
	Copper	4.60	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Iron	23.4	+/-50	U	100	P	07/08/2025	03:44	LB136390
	Lead	2.30	+/-6	U	12.0	P	07/08/2025	03:44	LB136390
	Magnesium	244	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Manganese	5.94	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Nickel	3.06	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Potassium	918	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Selenium	9.64	+/-10	U	20.0	P	07/08/2025	03:44	LB136390
	Silver	1.62	+/-5	U	10.0	P	07/08/2025	03:44	LB136390
	Sodium	868	+/-1000	U	2000	P	07/08/2025	03:44	LB136390
	Thallium	4.38	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Vanadium	6.26	+/-20	U	40.0	P	07/08/2025	03:44	LB136390
	Zinc	16.7	+/-20	U	40.0	P	07/08/2025	03:44	LB136390

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	31.1	+/-50	J	100	P	07/09/2025	10:22	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	10:22	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	10:22	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	10:22	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	10:22	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	10:22	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	10:22	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Iron	25.4	+/-50	J	100	P	07/09/2025	10:22	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	10:22	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Manganese	7.46	+/-10	J	20.0	P	07/09/2025	10:22	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	10:22	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	10:22	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	10:22	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	10:22	LB136407
	Zinc	4.21	+/-20	J	40.0	P	07/09/2025	10:22	LB136407

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/09/2025	10:57	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	10:57	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	10:57	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	10:57	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	10:57	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	10:57	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	10:57	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	10:57	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	10:57	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	10:57	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	10:57	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	10:57	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	10:57	LB136407
CCB02	Aluminum	27.5	+/-50	J	100	P	07/09/2025	11:56	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	11:56	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	11:56	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	11:56	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	11:56	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	11:56	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	11:56	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	11:56	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	11:56	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	11:56	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	11:56	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/09/2025	11:56	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	11:56	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	11:56	LB136407
CCB03	Aluminum	65.9	+/-50	J*	100	P	07/09/2025	12:58	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	12:58	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	12:58	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	12:58	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	12:58	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	12:58	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	12:58	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	12:58	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	12:58	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	12:58	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	12:58	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	12:58	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	12:58	LB136407
CCB04	Aluminum	47.3	+/-50	J	100	P	07/09/2025	14:28	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	14:28	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	14:28	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	14:28	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	14:28	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	14:28	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	14:28	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	14:28	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	14:28	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/09/2025	14:28	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	14:28	LB136407
	Silver	7.86	+/-5	J*	10.0	P	07/09/2025	14:28	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	14:28	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	14:28	LB136407
CCB05	Aluminum	26.6	+/-50	J	100	P	07/09/2025	15:33	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	15:33	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	15:33	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	15:33	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	15:33	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	15:33	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	15:33	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	15:33	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	15:33	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	15:33	LB136407
	Silver	6.92	+/-5	J*	10.0	P	07/09/2025	15:33	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	15:33	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	15:33	LB136407
CCB06	Aluminum	18.8	+/-50	J	100	P	07/09/2025	16:43	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	16:43	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	16:43	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	16:43	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	16:43	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	16:43	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/09/2025	16:43	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	16:43	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	16:43	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	16:43	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	16:43	LB136407
	Silver	3.51	+/-5	J	10.0	P	07/09/2025	16:43	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	16:43	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	16:43	LB136407
CCB07	Aluminum	11.3	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	17:54	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	17:54	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	17:54	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	17:54	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	17:54	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	17:54	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	17:54	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	17:54	LB136407
	Silver	2.23	+/-5	J	10.0	P	07/09/2025	17:54	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	17:54	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	17:54	LB136407
CCB08	Aluminum	44.5	+/-50	J	100	P	07/09/2025	18:58	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	18:58	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	18:58	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	18:58	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	18:58	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	18:58	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	18:58	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	18:58	LB136407
	Lead	3.36	+/-6	J	12.0	P	07/09/2025	18:58	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	18:58	LB136407
	Silver	2.96	+/-5	J	10.0	P	07/09/2025	18:58	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	18:58	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	18:58	LB136407
CCB09	Aluminum	11.3	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	19:52	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	19:52	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	19:52	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	19:52	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	19:52	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	19:52	LB136407
	Lead	2.75	+/-6	J	12.0	P	07/09/2025	19:52	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	19:52	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	19:52	LB136407
	Silver	2.59	+/-5	J	10.0	P	07/09/2025	19:52	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	19:52	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	19:52	LB136407
CCB10	Aluminum	11.3	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	20:45	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	20:45	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	20:45	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	20:45	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	20:45	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	20:45	LB136407
	Lead	2.30	+/-6	U	12.0	P	07/09/2025	20:45	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	20:45	LB136407
	Silver	1.92	+/-5	J	10.0	P	07/09/2025	20:45	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	20:45	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	20:45	LB136407
CCB11	Aluminum	23.1	+/-50	J	100	P	07/09/2025	21:16	LB136407
	Antimony	6.76	+/-25	U	50.0	P	07/09/2025	21:16	LB136407
	Arsenic	5.12	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Barium	14.6	+/-50	U	100	P	07/09/2025	21:16	LB136407
	Beryllium	0.56	+/-3	U	6.00	P	07/09/2025	21:16	LB136407
	Cadmium	0.50	+/-3	U	6.00	P	07/09/2025	21:16	LB136407
	Calcium	234	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Chromium	2.12	+/-5	U	10.0	P	07/09/2025	21:16	LB136407
	Cobalt	2.26	+/-15	U	30.0	P	07/09/2025	21:16	LB136407
	Copper	4.60	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Iron	23.4	+/-50	U	100	P	07/09/2025	21:16	LB136407
	Lead	4.79	+/-6	J	12.0	P	07/09/2025	21:16	LB136407
	Magnesium	244	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Manganese	5.94	+/-10	U	20.0	P	07/09/2025	21:16	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	3.06	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Potassium	918	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Selenium	9.64	+/-10	U	20.0	P	07/09/2025	21:16	LB136407
	Silver	1.62	+/-5	U	10.0	P	07/09/2025	21:16	LB136407
	Sodium	868	+/-1000	U	2000	P	07/09/2025	21:16	LB136407
	Thallium	4.38	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Vanadium	6.26	+/-20	U	40.0	P	07/09/2025	21:16	LB136407
	Zinc	3.50	+/-20	U	40.0	P	07/09/2025	21:16	LB136407

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	35.6	+/-50	J	100	P	07/15/2025	14:01	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	14:01	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	14:01	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	14:01	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	14:01	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	14:01	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	14:01	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	14:01	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	14:01	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	14:01	LB136486
	Silver	1.62	+/-5	U	10.0	P	07/15/2025	14:01	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	14:01	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	14:01	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	14:01	LB136486

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/15/2025	14:39	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	14:39	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	14:39	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	14:39	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	14:39	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	14:39	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	14:39	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	14:39	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	14:39	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	14:39	LB136486
	Silver	1.62	+/-5	U	10.0	P	07/15/2025	14:39	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	14:39	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	14:39	LB136486
CCB02	Aluminum	11.3	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Antimony	6.76	+/-25	U	50.0	P	07/15/2025	15:15	LB136486
	Arsenic	5.12	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Barium	14.6	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Beryllium	0.56	+/-3	U	6.00	P	07/15/2025	15:15	LB136486
	Cadmium	0.50	+/-3	U	6.00	P	07/15/2025	15:15	LB136486
	Calcium	234	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Chromium	2.12	+/-5	U	10.0	P	07/15/2025	15:15	LB136486
	Cobalt	2.26	+/-15	U	30.0	P	07/15/2025	15:15	LB136486
	Copper	4.60	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Iron	23.4	+/-50	U	100	P	07/15/2025	15:15	LB136486
	Lead	2.30	+/-6	U	12.0	P	07/15/2025	15:15	LB136486
	Magnesium	244	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Manganese	5.94	+/-10	U	20.0	P	07/15/2025	15:15	LB136486
	Nickel	3.06	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Potassium	918	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Selenium	9.64	+/-10	U	20.0	P	07/15/2025	15:15	LB136486

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	07/15/2025	15:15	LB136486
	Sodium	868	+/-1000	U	2000	P	07/15/2025	15:15	LB136486
	Thallium	4.38	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Vanadium	6.26	+/-20	U	40.0	P	07/15/2025	15:15	LB136486
	Zinc	3.50	+/-20	U	40.0	P	07/15/2025	15:15	LB136486

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168719BL		**SOLID**		**Batch Number:**	**PB168719**		**Prep Date:**	**07/02/2025**	
	Mercury	0.0080	<0.013	U	0.013	CV	07/03/2025	12:20	LB136369

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168713BL		**SOLID**		**Batch Number:**	**PB168713**		**Prep Date:**	**07/03/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Antimony	0.22	<1.25	U	2.50	P	07/07/2025	16:45	LB136390
	Arsenic	0.19	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Barium	0.73	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Beryllium	0.025	<0.15	U	0.30	P	07/07/2025	16:45	LB136390
	Cadmium	0.024	<0.15	U	0.30	P	07/07/2025	16:45	LB136390
	Calcium	11.1	<50	U	100	P	07/07/2025	16:45	LB136390
	Chromium	0.047	<0.25	U	0.50	P	07/07/2025	16:45	LB136390
	Cobalt	0.10	<0.75	U	1.50	P	07/07/2025	16:45	LB136390
	Copper	0.22	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Iron	3.99	<2.5	U	5.00	P	07/07/2025	16:45	LB136390
	Lead	0.13	<0.3	U	0.60	P	07/07/2025	16:45	LB136390
	Magnesium	12.0	<50	U	100	P	07/07/2025	16:45	LB136390
	Manganese	0.14	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Nickel	0.13	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Potassium	27.7	<50	U	100	P	07/07/2025	16:45	LB136390
	Selenium	0.26	<0.5	U	1.00	P	07/07/2025	16:45	LB136390
	Silver	0.12	<0.25	U	0.50	P	07/07/2025	16:45	LB136390
	Sodium	17.8	<50	U	100	P	07/07/2025	16:45	LB136390
	Thallium	0.23	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Vanadium	0.25	<1	U	2.00	P	07/07/2025	16:45	LB136390
	Zinc	0.23	<1	U	2.00	P	07/07/2025	16:45	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	241000	255000	94	216000	294000	07/07/2025	13:53	LB136390
	Antimony	5.00			-50	50	07/07/2025	13:53	LB136390
	Arsenic	-4.19			-20	20	07/07/2025	13:53	LB136390
	Barium	-3.69	6.0	62	-94	106	07/07/2025	13:53	LB136390
	Beryllium	0.58			-6	6	07/07/2025	13:53	LB136390
	Cadmium	-0.042	1.0	4	-5	7	07/07/2025	13:53	LB136390
	Calcium	231000	245000	94	208000	282000	07/07/2025	13:53	LB136390
	Chromium	53.6	52.0	103	42	62	07/07/2025	13:53	LB136390
	Cobalt	0.58			-30	30	07/07/2025	13:53	LB136390
	Copper	10.9	2.0	544	-18	22	07/07/2025	13:53	LB136390
	Iron	101000	101000	100	85600	116500	07/07/2025	13:53	LB136390
	Lead	-5.45			-12	12	07/07/2025	13:53	LB136390
	Magnesium	244000	255000	96	216000	294000	07/07/2025	13:53	LB136390
	Manganese	6.77	7.0	97	-13	27	07/07/2025	13:53	LB136390
	Nickel	15.9	2.0	795	-38	42	07/07/2025	13:53	LB136390
	Potassium	133			0	0	07/07/2025	13:53	LB136390
	Selenium	8.20			-20	20	07/07/2025	13:53	LB136390
	Silver	-6.96			-10	10	07/07/2025	13:53	LB136390
	Sodium	101			0	0	07/07/2025	13:53	LB136390
	Thallium	-0.81			-40	40	07/07/2025	13:53	LB136390
	Vanadium	4.26			-40	40	07/07/2025	13:53	LB136390
	Zinc	3.42			-40	40	07/07/2025	13:53	LB136390
ICSAB01	Aluminum	238000	247000	96	209000	285000	07/07/2025	14:10	LB136390
	Antimony	622	618	101	525	711	07/07/2025	14:10	LB136390
	Arsenic	99.1	104	95	88.4	120	07/07/2025	14:10	LB136390
	Barium	455	537	85	437	637	07/07/2025	14:10	LB136390
	Beryllium	472	495	95	420	570	07/07/2025	14:10	LB136390
	Cadmium	992	972	102	826	1120	07/07/2025	14:10	LB136390
	Calcium	227000	235000	97	199000	271000	07/07/2025	14:10	LB136390
	Chromium	558	542	103	460	624	07/07/2025	14:10	LB136390
	Cobalt	501	476	105	404	548	07/07/2025	14:10	LB136390
	Copper	495	511	97	434	588	07/07/2025	14:10	LB136390
	Iron	103000	99300	104	84400	114500	07/07/2025	14:10	LB136390
	Lead	41.5	49.0	85	37	61	07/07/2025	14:10	LB136390
	Magnesium	238000	248000	96	210000	286000	07/07/2025	14:10	LB136390
	Manganese	473	507	93	430	584	07/07/2025	14:10	LB136390
	Nickel	1010	954	106	810	1100	07/07/2025	14:10	LB136390
	Potassium	-260			0	0	07/07/2025	14:10	LB136390
	Selenium	53.0	46.0	115	26	66	07/07/2025	14:10	LB136390
	Silver	208	201	104	170	232	07/07/2025	14:10	LB136390
	Sodium	16.7			0	0	07/07/2025	14:10	LB136390
	Thallium	78.7	108	73	68	148	07/07/2025	14:10	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	459	491	94	417	565	07/07/2025	14:10	LB136390
	Zinc	1050	952	110	809	1095	07/07/2025	14:10	LB136390
ICSA	Aluminum	240000	255000	94	216000	294000	07/07/2025	14:15	LB136390
	Antimony	9.95			-50	50	07/07/2025	14:15	LB136390
	Arsenic	-16.2			-20	20	07/07/2025	14:15	LB136390
	Barium	-48.6	6.0	810	-94	106	07/07/2025	14:15	LB136390
	Beryllium	-0.36			-6	6	07/07/2025	14:15	LB136390
	Cadmium	-2.96	1.0	296	-5	7	07/07/2025	14:15	LB136390
	Calcium	236000	245000	96	208000	282000	07/07/2025	14:15	LB136390
	Chromium	153	52.0	294	42	62	07/07/2025	14:15	LB136390
	Cobalt	1.25			-30	30	07/07/2025	14:15	LB136390
	Copper	24.1	2.0	1205	-18	22	07/07/2025	14:15	LB136390
	Iron	99500	101000	98	85600	116500	07/07/2025	14:15	LB136390
	Lead	0.64			-12	12	07/07/2025	14:15	LB136390
	Magnesium	244000	255000	96	216000	294000	07/07/2025	14:15	LB136390
	Manganese	11.2	7.0	160	-13	27	07/07/2025	14:15	LB136390
	Nickel	70.7	2.0	3535	-38	42	07/07/2025	14:15	LB136390
	Potassium	-7370			0	0	07/07/2025	14:15	LB136390
	Selenium	-53.4			-20	20	07/07/2025	14:15	LB136390
	Silver	-8.88			-10	10	07/07/2025	14:15	LB136390
	Sodium	-118			0	0	07/07/2025	14:15	LB136390
	Thallium	-40.5			-40	40	07/07/2025	14:15	LB136390
	Vanadium	8.77			-40	40	07/07/2025	14:15	LB136390
	Zinc	12.7			-40	40	07/07/2025	14:15	LB136390
ICSAB	Aluminum	244000	247000	99	209000	285000	07/07/2025	14:19	LB136390
	Antimony	588	618	95	525	711	07/07/2025	14:19	LB136390
	Arsenic	94.5	104	91	88.4	120	07/07/2025	14:19	LB136390
	Barium	474	537	88	437	637	07/07/2025	14:19	LB136390
	Beryllium	493	495	100	420	570	07/07/2025	14:19	LB136390
	Cadmium	970	972	100	826	1120	07/07/2025	14:19	LB136390
	Calcium	242000	235000	103	199000	271000	07/07/2025	14:19	LB136390
	Chromium	587	542	108	460	624	07/07/2025	14:19	LB136390
	Cobalt	489	476	103	404	548	07/07/2025	14:19	LB136390
	Copper	515	511	101	434	588	07/07/2025	14:19	LB136390
	Iron	102000	99300	103	84400	114500	07/07/2025	14:19	LB136390
	Lead	47.0	49.0	96	37	61	07/07/2025	14:19	LB136390
	Magnesium	250000	248000	101	210000	286000	07/07/2025	14:19	LB136390
	Manganese	490	507	97	430	584	07/07/2025	14:19	LB136390
	Nickel	1000	954	105	810	1100	07/07/2025	14:19	LB136390
	Potassium	-8010			0	0	07/07/2025	14:19	LB136390
	Selenium	19.1	46.0	42	26	66	07/07/2025	14:19	LB136390
	Silver	227	201	113	170	232	07/07/2025	14:19	LB136390

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Sodium	-111			0	0	07/07/2025	14:19	LB136390
	Thallium	48.2	108	45	68	148	07/07/2025	14:19	LB136390
	Vanadium	527	491	107	417	565	07/07/2025	14:19	LB136390
	Zinc	1030	952	108	809	1095	07/07/2025	14:19	LB136390
ICSA01	Aluminum	245000	250000	98	216000	294000	07/09/2025	10:31	LB136407
	Antimony	23.3			-50	50	07/09/2025	10:31	LB136407
	Arsenic	5.46			-20	20	07/09/2025	10:31	LB136407
	Barium	8.02	6.0	134	-94	106	07/09/2025	10:31	LB136407
	Beryllium	1.50			-6	6	07/09/2025	10:31	LB136407
	Cadmium	-0.43	1.0	43	-5	7	07/09/2025	10:31	LB136407
	Calcium	242000	240000	101	208000	282000	07/09/2025	10:31	LB136407
	Chromium	52.2	52.0	100	42	62	07/09/2025	10:31	LB136407
	Cobalt	27.0			-30	30	07/09/2025	10:31	LB136407
	Copper	-4.74	2.0	237	-18	22	07/09/2025	10:31	LB136407
	Iron	96800	100000	97	85600	116500	07/09/2025	10:31	LB136407
	Lead	-5.64			-12	12	07/09/2025	10:31	LB136407
	Magnesium	242000	260000	93	216000	294000	07/09/2025	10:31	LB136407
	Manganese	3.37	7.0	48	-13	27	07/09/2025	10:31	LB136407
	Nickel	13.5	2.0	675	-38	42	07/09/2025	10:31	LB136407
	Potassium	10.6			0	0	07/09/2025	10:31	LB136407
	Selenium	-11.2			-20	20	07/09/2025	10:31	LB136407
	Silver	-2.41			-10	10	07/09/2025	10:31	LB136407
	Sodium	119			0	0	07/09/2025	10:31	LB136407
	Thallium	16.7			-40	40	07/09/2025	10:31	LB136407
	Vanadium	1.75			-40	40	07/09/2025	10:31	LB136407
	Zinc	10.9			-40	40	07/09/2025	10:31	LB136407
ICSAB01	Aluminum	245000	250000	98	209000	285000	07/09/2025	10:35	LB136407
	Antimony	621	620	100	525	711	07/09/2025	10:35	LB136407
	Arsenic	98.6	100	99	88.4	120	07/09/2025	10:35	LB136407
	Barium	529	540	98	437	637	07/09/2025	10:35	LB136407
	Beryllium	514	500	103	420	570	07/09/2025	10:35	LB136407
	Cadmium	984	970	101	826	1120	07/09/2025	10:35	LB136407
	Calcium	241000	230000	105	199000	271000	07/09/2025	10:35	LB136407
	Chromium	555	540	103	460	624	07/09/2025	10:35	LB136407
	Cobalt	506	480	105	404	548	07/09/2025	10:35	LB136407
	Copper	479	510	94	434	588	07/09/2025	10:35	LB136407
	Iron	98200	99000	99	84400	114500	07/09/2025	10:35	LB136407
	Lead	38.6	49.0	79	37	61	07/09/2025	10:35	LB136407
	Magnesium	243000	250000	97	210000	286000	07/09/2025	10:35	LB136407
	Manganese	498	510	98	430	584	07/09/2025	10:35	LB136407
	Nickel	966	950	102	810	1100	07/09/2025	10:35	LB136407
	Potassium	9.40			0	0	07/09/2025	10:35	LB136407

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	Selenium	40.2	46.0	87	26	66	07/09/2025	10:35	LB136407
	Silver	209	200	104	170	232	07/09/2025	10:35	LB136407
	Sodium	100			0	0	07/09/2025	10:35	LB136407
	Thallium	101	110	92	68	148	07/09/2025	10:35	LB136407
	Vanadium	489	490	100	417	565	07/09/2025	10:35	LB136407
	Zinc	1030	950	108	809	1095	07/09/2025	10:35	LB136407
ICSA	Aluminum	256000	250000	102	216000	294000	07/09/2025	10:39	LB136407
	Antimony	56.4			-50	50	07/09/2025	10:39	LB136407
	Arsenic	-38.5			-20	20	07/09/2025	10:39	LB136407
	Barium	3.35	6.0	56	-94	106	07/09/2025	10:39	LB136407
	Beryllium	3.59			-6	6	07/09/2025	10:39	LB136407
	Cadmium	-4.72	1.0	472	-5	7	07/09/2025	10:39	LB136407
	Calcium	253000	240000	105	208000	282000	07/09/2025	10:39	LB136407
	Chromium	30.5	52.0	59	42	62	07/09/2025	10:39	LB136407
	Cobalt	120			-30	30	07/09/2025	10:39	LB136407
	Copper	39.8	2.0	1990	-18	22	07/09/2025	10:39	LB136407
	Iron	108000	100000	108	85600	116500	07/09/2025	10:39	LB136407
	Lead	24.1			-12	12	07/09/2025	10:39	LB136407
	Magnesium	259000	260000	100	216000	294000	07/09/2025	10:39	LB136407
	Manganese	25.6	7.0	366	-13	27	07/09/2025	10:39	LB136407
	Nickel	-4.00	2.0	200	-38	42	07/09/2025	10:39	LB136407
	Potassium	59.1			0	0	07/09/2025	10:39	LB136407
	Selenium	91.3			-20	20	07/09/2025	10:39	LB136407
	Silver	-6.28			-10	10	07/09/2025	10:39	LB136407
	Sodium	-123			0	0	07/09/2025	10:39	LB136407
	Thallium	-21.0			-40	40	07/09/2025	10:39	LB136407
	Vanadium	-159			-40	40	07/09/2025	10:39	LB136407
	Zinc	21.5			-40	40	07/09/2025	10:39	LB136407
ICSAB	Aluminum	239000	250000	96	209000	285000	07/09/2025	10:44	LB136407
	Antimony	588	620	95	525	711	07/09/2025	10:44	LB136407
	Arsenic	95.9	100	96	88.4	120	07/09/2025	10:44	LB136407
	Barium	555	540	103	437	637	07/09/2025	10:44	LB136407
	Beryllium	497	500	99	420	570	07/09/2025	10:44	LB136407
	Cadmium	885	970	91	826	1120	07/09/2025	10:44	LB136407
	Calcium	236000	230000	103	199000	271000	07/09/2025	10:44	LB136407
	Chromium	527	540	98	460	624	07/09/2025	10:44	LB136407
	Cobalt	563	480	117	404	548	07/09/2025	10:44	LB136407
	Copper	517	510	101	434	588	07/09/2025	10:44	LB136407
	Iron	101000	99000	102	84400	114500	07/09/2025	10:44	LB136407
	Lead	15.6	49.0	32	37	61	07/09/2025	10:44	LB136407
	Magnesium	245000	250000	98	210000	286000	07/09/2025	10:44	LB136407
	Manganese	558	510	109	430	584	07/09/2025	10:44	LB136407

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
ICSAB	Nickel	883	950	93	810	1100	07/09/2025	10:44	LB136407
	Potassium	-58.8			0	0	07/09/2025	10:44	LB136407
	Selenium	-15.1	46.0	33	26	66	07/09/2025	10:44	LB136407
	Silver	181	200	90	170	232	07/09/2025	10:44	LB136407
	Sodium	-8.12			0	0	07/09/2025	10:44	LB136407
	Thallium	109	110	99	68	148	07/09/2025	10:44	LB136407
	Vanadium	305	490	62	417	565	07/09/2025	10:44	LB136407
	Zinc	991	950	104	809	1095	07/09/2025	10:44	LB136407
ICSA01	Aluminum	247000	250000	99	216000	294000	07/15/2025	14:10	LB136486
	Antimony	21.6			-50	50	07/15/2025	14:10	LB136486
	Arsenic	-2.03			-20	20	07/15/2025	14:10	LB136486
	Barium	6.35	6.0	106	-94	106	07/15/2025	14:10	LB136486
	Beryllium	1.09			-6	6	07/15/2025	14:10	LB136486
	Cadmium	-1.17	1.0	117	-5	7	07/15/2025	14:10	LB136486
	Calcium	236000	240000	98	208000	282000	07/15/2025	14:10	LB136486
	Chromium	52.5	52.0	101	42	62	07/15/2025	14:10	LB136486
	Cobalt	3.22			-30	30	07/15/2025	14:10	LB136486
	Copper	-6.71	2.0	336	-18	22	07/15/2025	14:10	LB136486
	Iron	97400	100000	97	85600	116500	07/15/2025	14:10	LB136486
	Lead	-0.60			-12	12	07/15/2025	14:10	LB136486
	Magnesium	242000	260000	93	216000	294000	07/15/2025	14:10	LB136486
	Manganese	6.23	7.0	89	-13	27	07/15/2025	14:10	LB136486
	Nickel	3.30	2.0	165	-38	42	07/15/2025	14:10	LB136486
	Potassium	5.78			0	0	07/15/2025	14:10	LB136486
	Selenium	-7.22			-20	20	07/15/2025	14:10	LB136486
	Silver	-0.55			-10	10	07/15/2025	14:10	LB136486
	Sodium	113			0	0	07/15/2025	14:10	LB136486
	Thallium	22.2			-40	40	07/15/2025	14:10	LB136486
	Vanadium	3.62			-40	40	07/15/2025	14:10	LB136486
	Zinc	10.5			-40	40	07/15/2025	14:10	LB136486
ICSAB01	Aluminum	245000	250000	98	209000	285000	07/15/2025	14:21	LB136486
	Antimony	611	620	98	525	711	07/15/2025	14:21	LB136486
	Arsenic	92.3	100	92	88.4	120	07/15/2025	14:21	LB136486
	Barium	490	540	91	437	637	07/15/2025	14:21	LB136486
	Beryllium	488	500	98	420	570	07/15/2025	14:21	LB136486
	Cadmium	959	970	99	826	1120	07/15/2025	14:21	LB136486
	Calcium	234000	230000	102	199000	271000	07/15/2025	14:21	LB136486
	Chromium	529	540	98	460	624	07/15/2025	14:21	LB136486
	Cobalt	478	480	100	404	548	07/15/2025	14:21	LB136486
	Copper	462	510	91	434	588	07/15/2025	14:21	LB136486
	Iron	95400	99000	96	84400	114500	07/15/2025	14:21	LB136486
	Lead	48.6	49.0	99	37	61	07/15/2025	14:21	LB136486

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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	Magnesium	240000	250000	96	210000	286000	07/15/2025	14:21	LB136486
	Manganese	477	510	94	430	584	07/15/2025	14:21	LB136486
	Nickel	952	950	100	810	1100	07/15/2025	14:21	LB136486
	Potassium	-2.22			0	0	07/15/2025	14:21	LB136486
	Selenium	38.5	46.0	84	26	66	07/15/2025	14:21	LB136486
	Silver	208	200	104	170	232	07/15/2025	14:21	LB136486
	Sodium	99.8			0	0	07/15/2025	14:21	LB136486
	Thallium	101	110	92	68	148	07/15/2025	14:21	LB136486
	Vanadium	467	490	95	417	565	07/15/2025	14:21	LB136486
	Zinc	977	950	103	809	1095	07/15/2025	14:21	LB136486
ICSA	Aluminum	246000	250000	98	216000	294000	07/15/2025	14:26	LB136486
	Antimony	38.5			-50	50	07/15/2025	14:26	LB136486
	Arsenic	-116			-20	20	07/15/2025	14:26	LB136486
	Barium	2.83	6.0	47	-94	106	07/15/2025	14:26	LB136486
	Beryllium	-0.20			-6	6	07/15/2025	14:26	LB136486
	Cadmium	-2.62	1.0	262	-5	7	07/15/2025	14:26	LB136486
	Calcium	238000	240000	99	208000	282000	07/15/2025	14:26	LB136486
	Chromium	46.1	52.0	89	42	62	07/15/2025	14:26	LB136486
	Cobalt	113			-30	30	07/15/2025	14:26	LB136486
	Copper	2.79	2.0	140	-18	22	07/15/2025	14:26	LB136486
	Iron	107000	100000	107	85600	116500	07/15/2025	14:26	LB136486
	Lead	20.6			-12	12	07/15/2025	14:26	LB136486
	Magnesium	247000	260000	95	216000	294000	07/15/2025	14:26	LB136486
	Manganese	59.8	7.0	854	-13	27	07/15/2025	14:26	LB136486
	Nickel	-0.74	2.0	37	-38	42	07/15/2025	14:26	LB136486
	Potassium	-695			0	0	07/15/2025	14:26	LB136486
	Selenium	21.5			-20	20	07/15/2025	14:26	LB136486
	Silver	-13.2			-10	10	07/15/2025	14:26	LB136486
	Sodium	-321			0	0	07/15/2025	14:26	LB136486
	Thallium	98.2			-40	40	07/15/2025	14:26	LB136486
	Vanadium	92.6			-40	40	07/15/2025	14:26	LB136486
	Zinc	8.05			-40	40	07/15/2025	14:26	LB136486
ICSAB	Aluminum	258000	250000	103	209000	285000	07/15/2025	14:30	LB136486
	Antimony	670	620	108	525	711	07/15/2025	14:30	LB136486
	Arsenic	-16.0	100	16	88.4	120	07/15/2025	14:30	LB136486
	Barium	558	540	103	437	637	07/15/2025	14:30	LB136486
	Beryllium	554	500	111	420	570	07/15/2025	14:30	LB136486
	Cadmium	989	970	102	826	1120	07/15/2025	14:30	LB136486
	Calcium	249000	230000	108	199000	271000	07/15/2025	14:30	LB136486
	Chromium	617	540	114	460	624	07/15/2025	14:30	LB136486
	Cobalt	627	480	131	404	548	07/15/2025	14:30	LB136486
	Copper	581	510	114	434	588	07/15/2025	14:30	LB136486

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
ICSAB	Iron	112000	99000	113	84400	114500	07/15/2025	14:30	LB136486
	Lead	72.1	49.0	147	37	61	07/15/2025	14:30	LB136486
	Magnesium	259000	250000	104	210000	286000	07/15/2025	14:30	LB136486
	Manganese	622	510	122	430	584	07/15/2025	14:30	LB136486
	Nickel	1010	950	106	810	1100	07/15/2025	14:30	LB136486
	Potassium	-673			0	0	07/15/2025	14:30	LB136486
	Selenium	-40.1	46.0	87	26	66	07/15/2025	14:30	LB136486
	Silver	79.4	200	40	170	232	07/15/2025	14:30	LB136486
	Sodium	-616			0	0	07/15/2025	14:30	LB136486
	Thallium	175	110	159	68	148	07/15/2025	14:30	LB136486
	Vanadium	414	490	84	417	565	07/15/2025	14:30	LB136486
	Zinc	1070	950	113	809	1095	07/15/2025	14:30	LB136486

METAL
QC
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2484

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2484-06 **client id:** TP-104MS

Percent Solids for Sample: 87.3 **Spiked ID:** Q2484-06MS **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11500		9230		95.5	2372		P
Antimony	mg/Kg	75 - 125	9.41		1.16	J	38.2	22	N	P
Arsenic	mg/Kg	75 - 125	43.0		7.48		38.2	93		P
Barium	mg/Kg	75 - 125	33.9		24.3		9.5	101		P
Beryllium	mg/Kg	75 - 125	8.26		0.73		9.5	79		P
Cadmium	mg/Kg	75 - 125	8.89		0.29	U	9.5	93		P
Calcium	mg/Kg	75 - 125	569		353		47.7	452		P
Chromium	mg/Kg	75 - 125	31.4		15.8		19.1	81		P
Cobalt	mg/Kg	75 - 125	8.21		1.43	U	9.5	86		P
Copper	mg/Kg	75 - 125	18.5		4.84		14.3	95		P
Iron	mg/Kg	75 - 125	20000		19400		140	365		P
Lead	mg/Kg	75 - 125	57.7		13.1		47.7	93		P
Magnesium	mg/Kg	75 - 125	858		717		95.5	148		P
Manganese	mg/Kg	75 - 125	73.7		73.8		9.5	-1		P
Mercury	mg/Kg	80 - 120	0.36		0.039		0.29	110		CV
Nickel	mg/Kg	75 - 125	31.3		7.27		23.9	101		P
Potassium	mg/Kg	75 - 125	857		420		480	91		P
Selenium	mg/Kg	75 - 125	70.7		4.47		95.5	69	N	P
Silver	mg/Kg	75 - 125	2.34		0.48	U	3.6	65	N	P
Sodium	mg/Kg	75 - 125	351		253		140	69	N	P
Thallium	mg/Kg	75 - 125	86.4		1.91	U	95.5	90		P
Vanadium	mg/Kg	75 - 125	41.6		30.8		14.3	76		P
Zinc	mg/Kg	75 - 125	24.4		16.3		9.5	85		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2484

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2484-06 **client id:** TP-104MSD

Percent Solids for Sample: 87.3 **Spiked ID:** Q2484-06MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11800		9230		100	2492		P
Antimony	mg/Kg	75 - 125	10.8		1.16	J	41.1	23	N	P
Arsenic	mg/Kg	75 - 125	46.1		7.48		41.1	94		P
Barium	mg/Kg	75 - 125	32.4		24.3		10.3	78		P
Beryllium	mg/Kg	75 - 125	8.98		0.73		10.3	80		P
Cadmium	mg/Kg	75 - 125	9.81		0.29	U	10.3	96		P
Calcium	mg/Kg	75 - 125	445		353		51.4	179		P
Chromium	mg/Kg	75 - 125	32.6		15.8		20.5	81		P
Cobalt	mg/Kg	75 - 125	8.78		1.43	U	10.3	86		P
Copper	mg/Kg	75 - 125	19.0		4.84		15.4	92		P
Iron	mg/Kg	75 - 125	19900		19400		150	285		P
Lead	mg/Kg	75 - 125	60.7		13.1		51.4	93		P
Magnesium	mg/Kg	75 - 125	869		717		100	148		P
Manganese	mg/Kg	75 - 125	71.4		73.8		10.3	-23		P
Mercury	mg/Kg	80 - 120	0.38		0.039		0.31	111		CV
Nickel	mg/Kg	75 - 125	33.2		7.27		25.7	101		P
Potassium	mg/Kg	75 - 125	1050		420		510	122		P
Selenium	mg/Kg	75 - 125	79.1		4.47		100	73	N	P
Silver	mg/Kg	75 - 125	2.61		0.48	U	3.9	68	N	P
Sodium	mg/Kg	75 - 125	364		253		150	72	N	P
Thallium	mg/Kg	75 - 125	94.9		1.91	U	100	92		P
Vanadium	mg/Kg	75 - 125	43.5		30.8		15.4	83		P
Zinc	mg/Kg	75 - 125	24.6		16.3		10.3	81		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** TP-104A

Sample ID: Q2484-06 **Spiked ID:** Q2484-06A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	30.9		1.16	J	38.2	78		P
Selenium	mg/Kg	75 - 125	76.7		4.47		95.5	76		P
Silver	mg/Kg	75 - 125	2.57		0.48	U	3.60	71	N	P
Sodium	mg/Kg	75 - 125	365		253		140	80		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2484-06 **Client ID:** TP-104DUP

Percent Solids for Sample: 87.3 **Duplicate ID** Q2484-06DUP **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9230		9580		4		P
Antimony	mg/Kg	20	1.16	J	1.19	J	3		P
Arsenic	mg/Kg	20	7.48		7.54		1		P
Barium	mg/Kg	20	24.3		25.4		4		P
Beryllium	mg/Kg	20	0.73		0.76		4		P
Cadmium	mg/Kg	20	0.29	U	0.30	U			P
Calcium	mg/Kg	20	353		363		3		P
Chromium	mg/Kg	20	15.8		16.2		2		P
Cobalt	mg/Kg	20	1.43	U	1.47	U			P
Copper	mg/Kg	20	4.84		5.16		6		P
Iron	mg/Kg	20	19400		20400		5		P
Lead	mg/Kg	20	13.1		13.1		0		P
Magnesium	mg/Kg	20	717		762		6		P
Manganese	mg/Kg	20	73.8		72.4		2		P
Mercury	mg/Kg	20	0.039		0.035		11		CV
Nickel	mg/Kg	20	7.27		7.55		4		P
Potassium	mg/Kg	20	420		431		3		P
Selenium	mg/Kg	20	4.47		4.70		5		P
Silver	mg/Kg	20	0.48	U	0.49	U			P
Sodium	mg/Kg	20	253		264		4		P
Thallium	mg/Kg	20	1.91	U	1.97	U			P
Vanadium	mg/Kg	20	30.8		31.6		3		P
Zinc	mg/Kg	20	16.3		17.1		5		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2484-06MS **Client ID:** TP-104MSD

Percent Solids for Sample: 87.3 **Duplicate ID** Q2484-06MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11500		11800		3		P
Antimony	mg/Kg	20	9.41		10.8		13		P
Arsenic	mg/Kg	20	43.0		46.1		7		P
Barium	mg/Kg	20	33.9		32.4		5		P
Beryllium	mg/Kg	20	8.26		8.98		8		P
Cadmium	mg/Kg	20	8.89		9.81		10		P
Calcium	mg/Kg	20	569		445		24	*	P
Chromium	mg/Kg	20	31.4		32.6		4		P
Cobalt	mg/Kg	20	8.21		8.78		7		P
Copper	mg/Kg	20	18.5		19.0		3		P
Iron	mg/Kg	20	20000		19900		1		P
Lead	mg/Kg	20	57.7		60.7		5		P
Magnesium	mg/Kg	20	858		869		1		P
Manganese	mg/Kg	20	73.7		71.4		3		P
Mercury	mg/Kg	20	0.36		0.38		7		CV
Nickel	mg/Kg	20	31.3		33.2		6		P
Potassium	mg/Kg	20	857		1050		20		P
Selenium	mg/Kg	20	70.7		79.1		11		P
Silver	mg/Kg	20	2.34		2.61		11		P
Sodium	mg/Kg	20	351		364		4		P
Thallium	mg/Kg	20	86.4		94.9		9		P
Vanadium	mg/Kg	20	41.6		43.5		4		P
Zinc	mg/Kg	20	24.4		24.6		1		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168713BS							
Aluminum	mg/Kg	100	96.5		96	80 - 120	P
Antimony	mg/Kg	40.0	39.2		98	80 - 120	P
Arsenic	mg/Kg	40.0	38.3		96	80 - 120	P
Barium	mg/Kg	10.0	10.2		102	80 - 120	P
Beryllium	mg/Kg	10.0	9.58		96	80 - 120	P
Cadmium	mg/Kg	10.0	9.63		96	80 - 120	P
Calcium	mg/Kg	50.0	50.6	J	101	80 - 120	P
Chromium	mg/Kg	20.0	20.9		104	80 - 120	P
Cobalt	mg/Kg	10.0	9.78		98	80 - 120	P
Copper	mg/Kg	15.0	15.1		101	80 - 120	P
Iron	mg/Kg	150	151		101	80 - 120	P
Lead	mg/Kg	50.0	47.3		95	80 - 120	P
Magnesium	mg/Kg	100	96.0	J	96	80 - 120	P
Manganese	mg/Kg	10.0	9.86		99	80 - 120	P
Nickel	mg/Kg	25.0	25.2		101	80 - 120	P
Potassium	mg/Kg	500	484		97	80 - 120	P
Selenium	mg/Kg	100	94.9		95	80 - 120	P
Silver	mg/Kg	3.8	3.56		94	80 - 120	P
Sodium	mg/Kg	150	154		103	80 - 120	P
Thallium	mg/Kg	100	81.4		81	80 - 120	P
Vanadium	mg/Kg	15.0	14.2		95	80 - 120	P
Zinc	mg/Kg	10.0	10.3		103	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168719BS							
Mercury	mg/Kg	0.25	0.27		107	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-104L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136486 **Lab Sample ID :** Q2484-06L **SDG No.:** Q2484

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	9230		11000		19		P
Antimony	1.16	J	11.9	U	100.0		P
Arsenic	7.48		8.85		18		P
Barium	24.3		28.9		19		P
Beryllium	0.73		0.86	J	18		P
Cadmium	0.29	U	1.43	U			P
Calcium	353		428	J	21		P
Chromium	15.8		17.9		13		P
Cobalt	1.43	U	7.16	U			P
Copper	4.84		6.36		31		P
Iron	19400		25900		33		P
Lead	13.1		14.1		8		P
Magnesium	717		890		24		P
Manganese	73.8		89.4		21		P
Mercury	0.039		0.076	U	100.0		CV
Nickel	7.27		6.99	J	4		P
Potassium	420		380	J	10		P
Selenium	4.47		6.71		50		P
Silver	0.48	U	2.39	U			P
Sodium	253		292	J	15		P
Thallium	1.91	U	9.55	U			P
Vanadium	30.8		35.7		16		P
Zinc	16.3		19.3		18		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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LINEAR RANGES

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Case No.:** Q2484 **SAS No.:** Q2484

Instrument ID: P4 **Date:** 01/04/2018

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10	1980000
Antimony	10	90000
Arsenic	10	81000
Barium	10	90000
Beryllium	10	9000
Cadmium	10	9000
Calcium	10	2520000
Chromium	10	90000
Cobalt	10	81000
Copper	10	333000
Iron	10	900000
Lead	10	225000
Magnesium	10	3600000
Manganese	10	58500
Nickel	10	90000
Potassium	10	1800000
Selenium	10	90000
Silver	10	9000
Sodium	10	2520000
Thallium	10	90000
Vanadium	10	90000
Zinc	10	45000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168713**						
PB168713BL	PB168713BL	MB	SOLID	07/03/2025	2.00	100.0	100.00
PB168713BS	PB168713BS	LCS	SOLID	07/03/2025	2.00	100.0	100.00
Q2484-01	TP-58	SAM	SOLID	07/03/2025	2.36	100.0	86.20
Q2484-02	TP-57	SAM	SOLID	07/03/2025	2.27	100.0	86.00
Q2484-03	TP-64	SAM	SOLID	07/03/2025	2.32	100.0	88.40
Q2484-04	TP-107	SAM	SOLID	07/03/2025	2.27	100.0	83.80
Q2484-05	TP-106	SAM	SOLID	07/03/2025	2.46	100.0	87.90
Q2484-06	TP-104	SAM	SOLID	07/03/2025	2.40	100.0	87.30
Q2484-06DUP	TP-104DUP	DUP	SOLID	07/03/2025	2.33	100.0	87.30
Q2484-06MS	TP-104MS	MS	SOLID	07/03/2025	2.40	100.0	87.30
Q2484-06MSD	TP-104MSD	MSD	SOLID	07/03/2025	2.23	100.0	87.30

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2484

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168719**						
PB168719BL	PB168719BL	MB	SOLID	07/02/2025	0.52	35.0	100.00
PB168719BS	PB168719BS	LCS	SOLID	07/02/2025	0.55	35.0	100.00
Q2484-01	TP-58	SAM	SOLID	07/02/2025	0.56	35.0	86.20
Q2484-02	TP-57	SAM	SOLID	07/02/2025	0.53	35.0	86.00
Q2484-03	TP-64	SAM	SOLID	07/02/2025	0.51	35.0	88.40
Q2484-04	TP-107	SAM	SOLID	07/02/2025	0.56	35.0	83.80
Q2484-05	TP-106	SAM	SOLID	07/02/2025	0.50	35.0	87.90
Q2484-06	TP-104	SAM	SOLID	07/02/2025	0.53	35.0	87.30
Q2484-06DUP	TP-104DUP	DUP	SOLID	07/02/2025	0.53	35.0	87.30
Q2484-06MS	TP-104MS	MS	SOLID	07/02/2025	0.55	35.0	87.30
Q2484-06MSD	TP-104MSD	MSD	SOLID	07/02/2025	0.52	35.0	87.30

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136369

Start date: 07/03/2025 **End date:** 07/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	HG
S0.2	S0.2	1	1058	HG
S2.5	S2.5	1	1100	HG
S5	S5	1	1102	HG
S7.5	S7.5	1	1104	HG
S10	S10	1	1110	HG
ICV16	ICV16	1	1113	HG
ICB16	ICB16	1	1117	HG
CCV51	CCV51	1	1120	HG
CCB51	CCB51	1	1122	HG
CRA	CRA	1	1124	HG
PB168719BS	PB168719BS	1	1134	HG
CCV52	CCV52	1	1148	HG
CCB52	CCB52	1	1150	HG
Q2484-01	TP-58	1	1155	HG
Q2484-02	TP-57	1	1157	HG
Q2484-03	TP-64	1	1159	HG
Q2484-04	TP-107	1	1201	HG
Q2484-05	TP-106	1	1204	HG
Q2484-06	TP-104	1	1206	HG
Q2484-06DUP	TP-104DUP	1	1208	HG
Q2484-06MS	TP-104MS	1	1211	HG
Q2484-06MSD	TP-104MSD	1	1213	HG
CCV53	CCV53	1	1215	HG
CCB53	CCB53	1	1218	HG
PB168719BL	PB168719BL	1	1220	HG
Q2484-06L	TP-104L	5	1226	HG
CCV54	CCV54	1	1230	HG
CCB54	CCB54	1	1233	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136390

Start date: 07/07/2025 **End date:** 07/08/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1225	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	1230	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	1234	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	1238	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	1242	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	1247	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	1322	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	1341	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	1345	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	1349	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	1353	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	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1419	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	1438	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	1442	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	1530	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	1534	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	1633	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	1637	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168713BL	PB168713BL	1	1645	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168713BS	PB168713BS	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-01	TP-58	1	1726	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	1731	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	1735	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	0143	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	0147	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	0249	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	0253	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	0340	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	0344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

Instrument id number: **Method:** **Run number:** LB136407

Start date: 07/09/2025 **End date:** 07/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0939	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	0944	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	0948	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	0952	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	0957	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	1001	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	1005	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	1017	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	1022	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	1026	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	1031	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	1035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1044	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	1048	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	1057	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	1147	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	1156	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	1254	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	1258	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	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1428	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1527	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	1533	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	1639	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	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-02	TP-57	1	1719	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-03	TP-64	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-04	TP-107	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-05	TP-106	1	1732	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	1750	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	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1854	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1858	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1948	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	1952	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2045	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2112	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2484

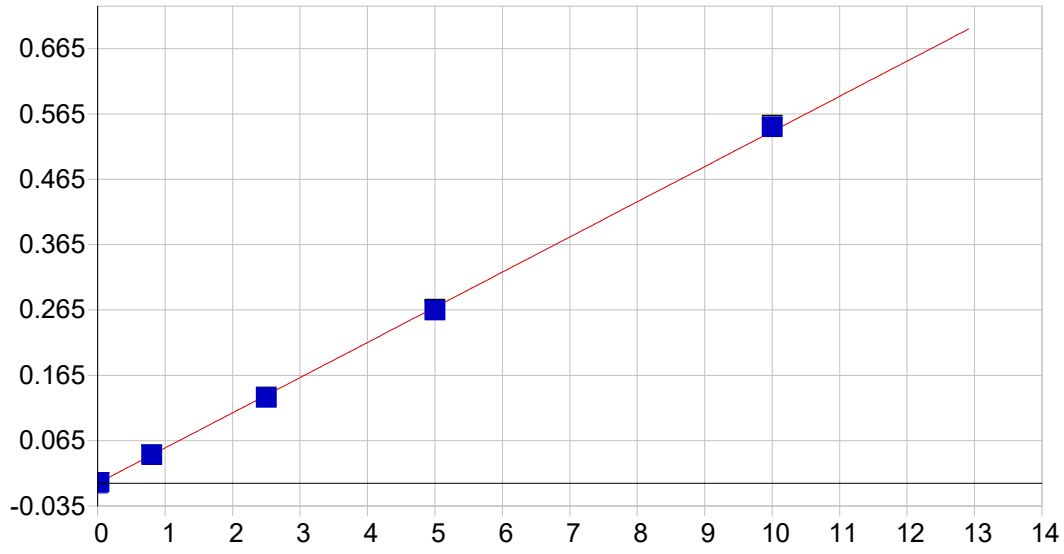
Instrument id number: **Method:** **Run number:** LB136486

Start date: 07/15/2025 **End date:** 07/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1259	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	1304	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	1308	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	1313	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	1317	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	1322	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	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV1	LLICV1	1	1350	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	1401	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	1405	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	1410	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	1421	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1430	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	1434	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	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06	TP-104	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06DUP	TP-104DUP	1	1448	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06MS	TP-104MS	1	1458	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06MSD	TP-104MSD	1	1502	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2484-06A	TP-104A	1	1506	Ag,Na,Sb,Se
CCV02	CCV02	1	1511	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	1515	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



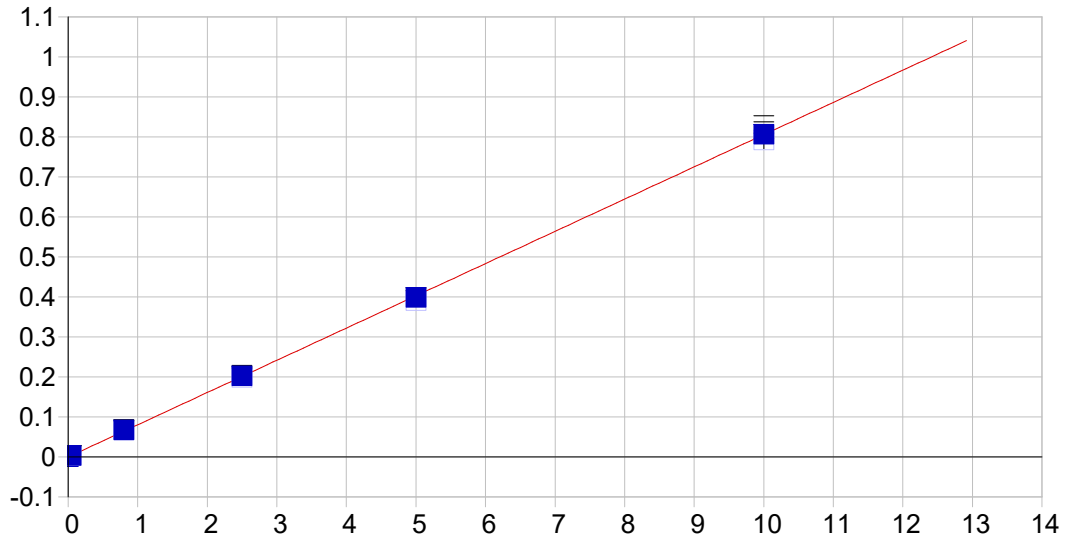
As 189.042 {479}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000107	Re-Slope:	1.000000
A1 (Gain):	0.053831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999863	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001944		
Predicted MQL:	0.006481		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00011	.000	1
S1	.02000	.02189	.002	9.45	.00107	.000	1
S3	2.5000	2.4359	-.064	-2.56	.13088	.001	1
S4	5.0000	4.9204	-.080	-1.59	.26447	.001	1
S5	10.000	10.137	.137	1.37	.54499	.002	1
S2	.80000	.80488	.005	.610	.04317	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



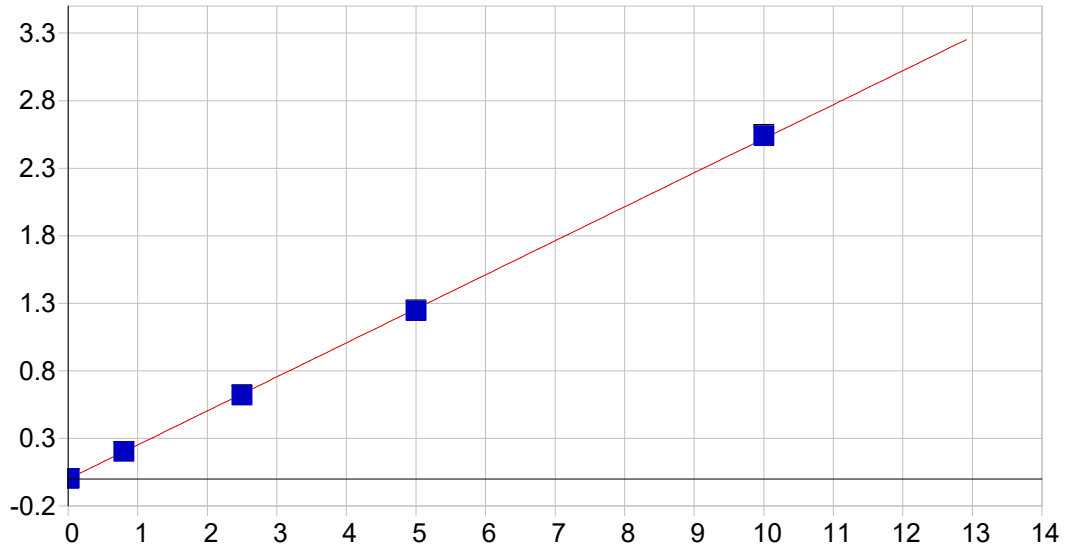
Tl 190.856 {477}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000241	Re-Slope:	1.000000
A1 (Gain):	0.080590	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.001750		
Predicted MQL:	0.005833		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.000	1
S1	.04000	.03947	-.001	-1.32	.00273	.000	1
S3	2.5000	2.5111	.011	.444	.19843	.002	1
S4	5.0000	4.9430	-.057	-1.14	.39071	.000	1
S5	10.000	10.010	.010	.096	.79163	.021	1
S2	.80000	.83679	.037	4.60	.06601	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



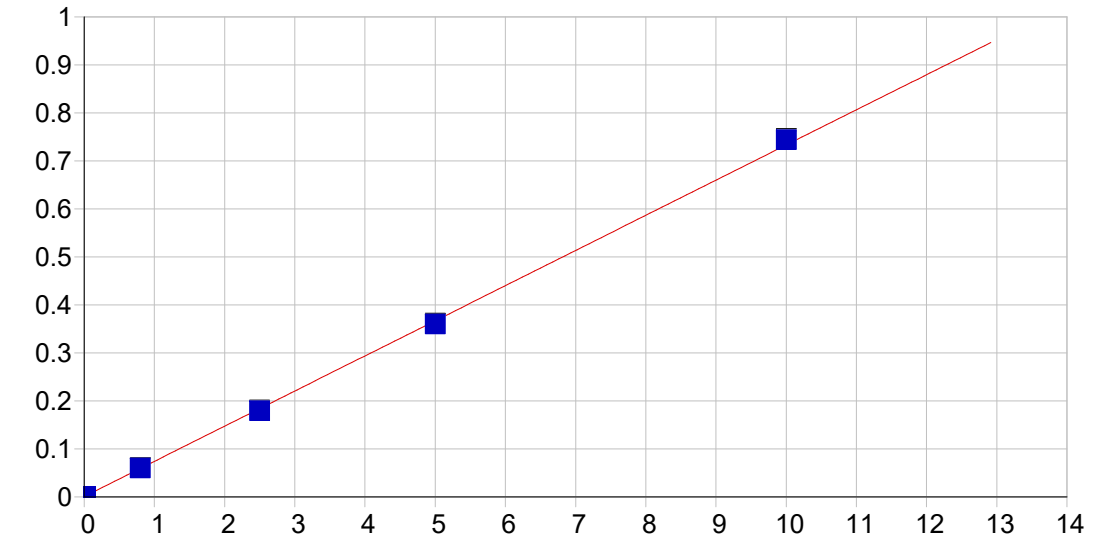
Pb 220.353 {453}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000404	Re-Slope:	1.000000
A1 (Gain):	0.251836	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.001123		
Predicted MQL:	0.003743		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00040	.000	1
S1	.01200	.01207	.000	.565	.00258	.000	1
S3	2.5000	2.4585	-.042	-1.66	.61808	.002	1
S4	5.0000	4.9484	-.052	-1.03	1.2445	.005	1
S5	10.000	10.090	.090	.896	2.5379	.009	1
S2	.80000	.80342	.003	.427	.20172	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



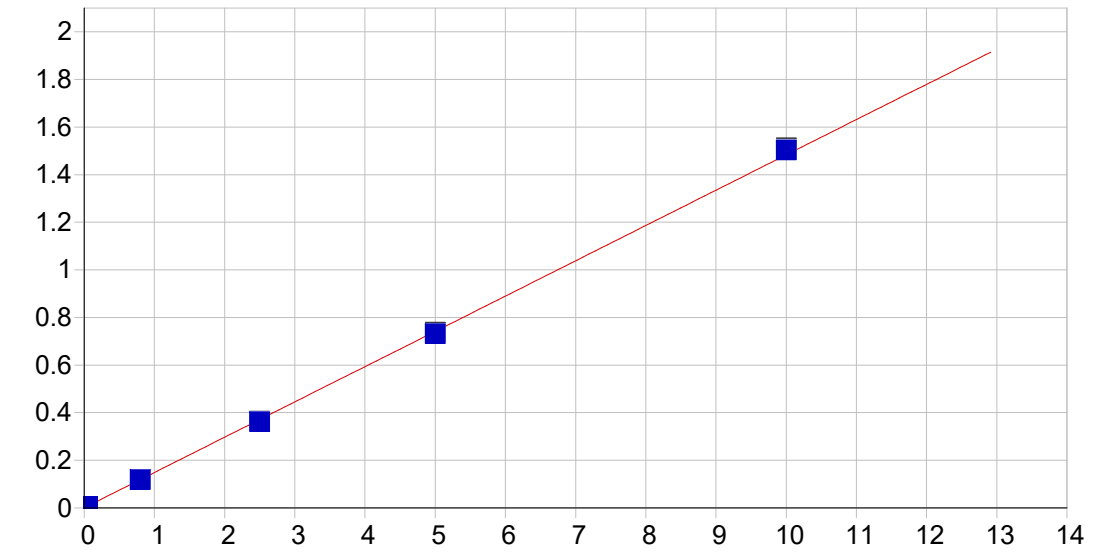
Se 196.090 {472}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000836	Re-Slope:	1.000000
A1 (Gain):	0.073230	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.002946		
Predicted MQL:	0.009820		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00084	.000	1
S1	.02000	.01653	-.003	-17.4	.00205	.000	1
S3	2.5000	2.4387	-.061	-2.45	.17935	.001	1
S4	5.0000	4.9072	-.093	-1.86	.36005	.002	1
S5	10.000	10.149	.149	1.49	.74376	.002	1
S2	.80000	.80878	.009	1.10	.06004	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



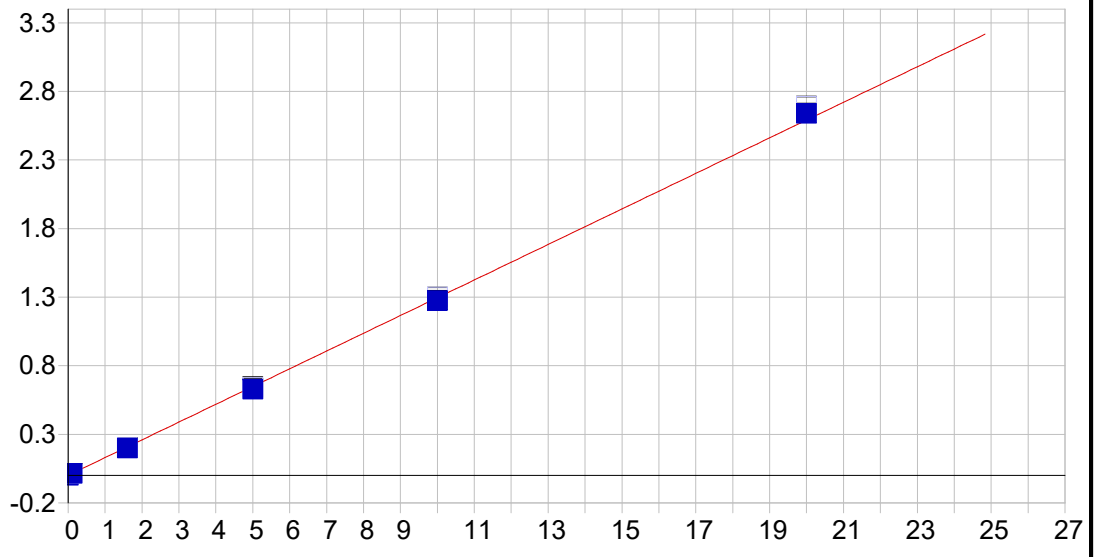
Sb 206.833 {463}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000451	Re-Slope:	1.000000
A1 (Gain):	0.148255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.001518		
Predicted MQL:	0.005059		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00045	.000	1
S1	.05000	.04914	-.001	-1.73	.00775	.000	1
S3	2.5000	2.4353	-.065	-2.59	.36250	.002	1
S4	5.0000	4.9321	-.068	-1.36	.73368	.004	1
S5	10.000	10.135	.135	1.35	1.5071	.006	1
S2	.80000	.79818	-.002	-.228	.11911	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



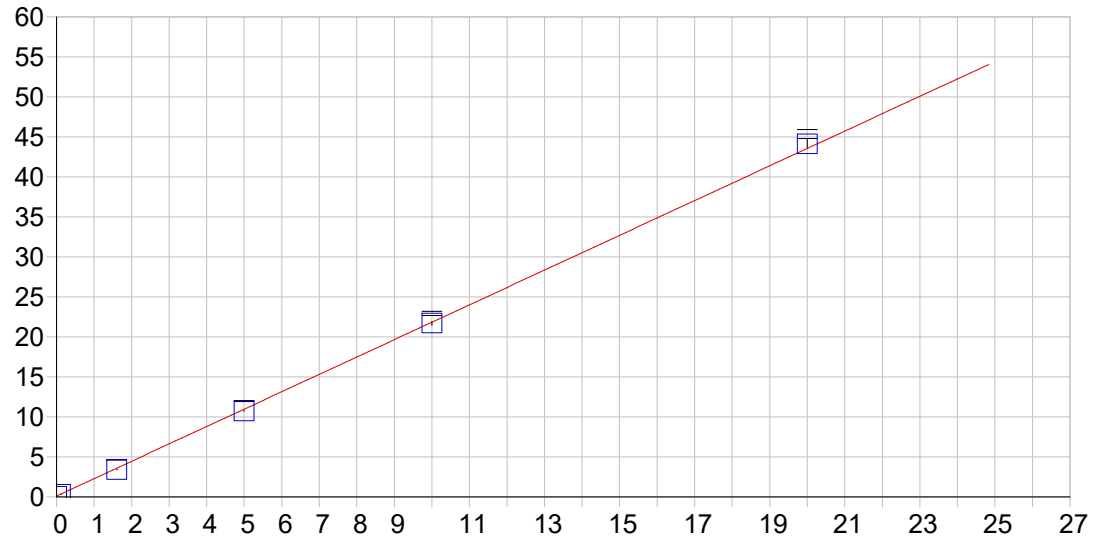
Al 396.152 { 85}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000646	Re-Slope:	1.000000
A1 (Gain):	0.129522	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999777	Status:	OK.
Std Error of Est:	0.000207		
Predicted MDL:	0.007637		
Predicted MQL:	0.025455		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00065	.001	1
S1	.10000	.10056	.001	.559	.01468	.000	1
S3	5.0000	4.8476	-.152	-3.05	.64108	.006	1
S4	10.000	9.8377	-.162	-1.62	1.3000	.001	1
S5	20.000	20.378	.378	1.89	2.6903	.003	1
S2	1.6000	1.5360	-.064	-4.00	.20362	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



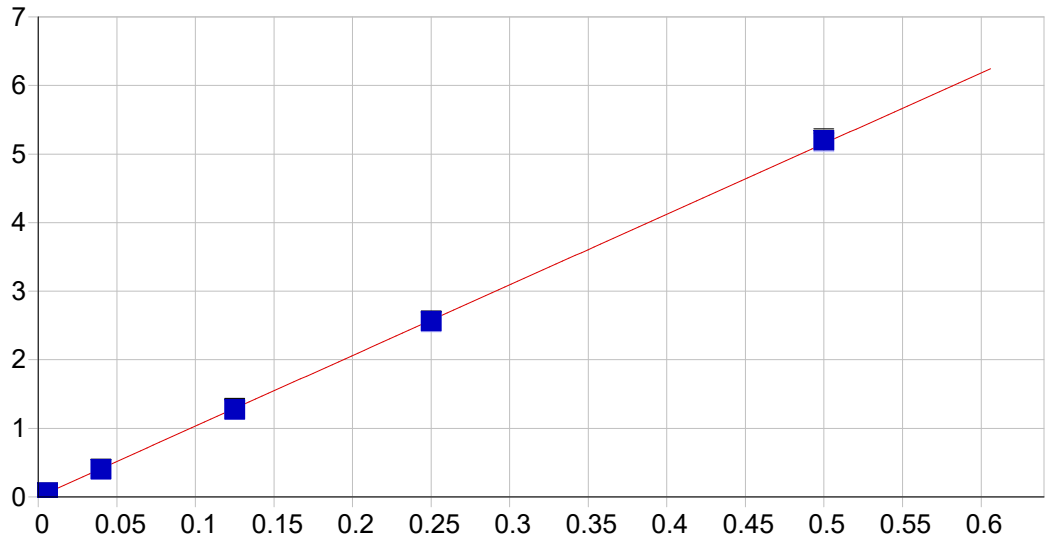
Ba 493.409 { 68}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.110189	Re-Slope:	1.000000
A1 (Gain):	2.172359	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999839	Status:	OK.
Std Error of Est:	0.002890		
Predicted MDL:	0.001560		
Predicted MQL:	0.005199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.11023	.001	1
S1	.10000	.09007	-.010	-9.93	.30586	.003	1
S3	5.0000	4.8898	-.110	-2.20	10.732	.068	1
S4	10.000	9.9408	-.059	-.592	21.705	.256	1
S5	20.000	20.265	.265	1.32	44.132	.553	1
S2	1.6000	1.5147	-.085	-5.33	3.4007	.011	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



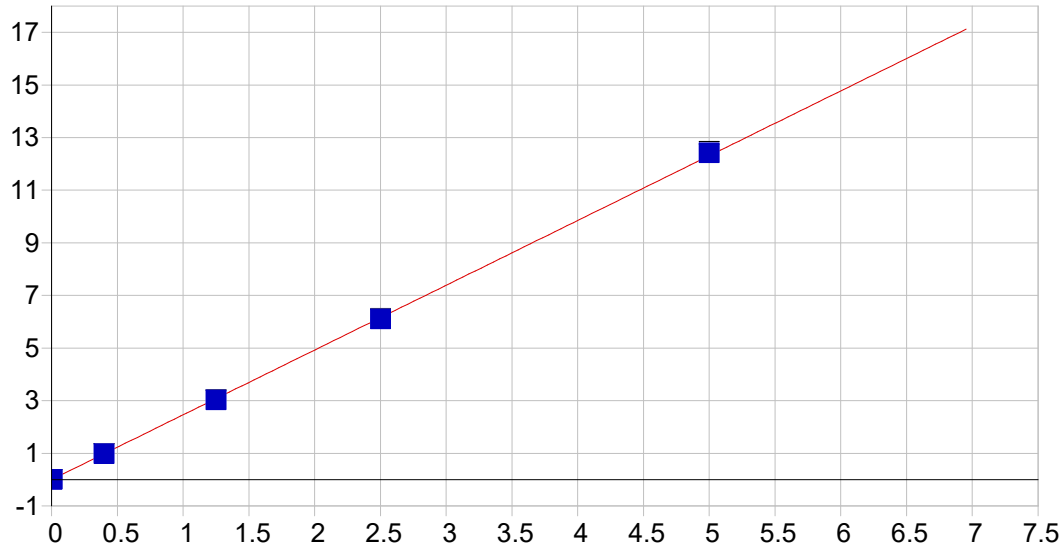
Be 234.861 {144}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002254	Re-Slope:	1.000000
A1 (Gain):	10.300932	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000318		
Predicted MDL:	0.000050		
Predicted MQL:	0.000167		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00226	.000	1
S1	.00600	.00588	-.000	-1.94	.06240	.001	1
S3	.12500	.12363	-.001	-1.10	1.2700	.015	1
S4	.25000	.24830	-.002	-.678	2.5485	.006	1
S5	.50000	.50442	.004	.883	5.1751	.024	1
S2	.04000	.03877	-.001	-3.08	.39974	.003	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



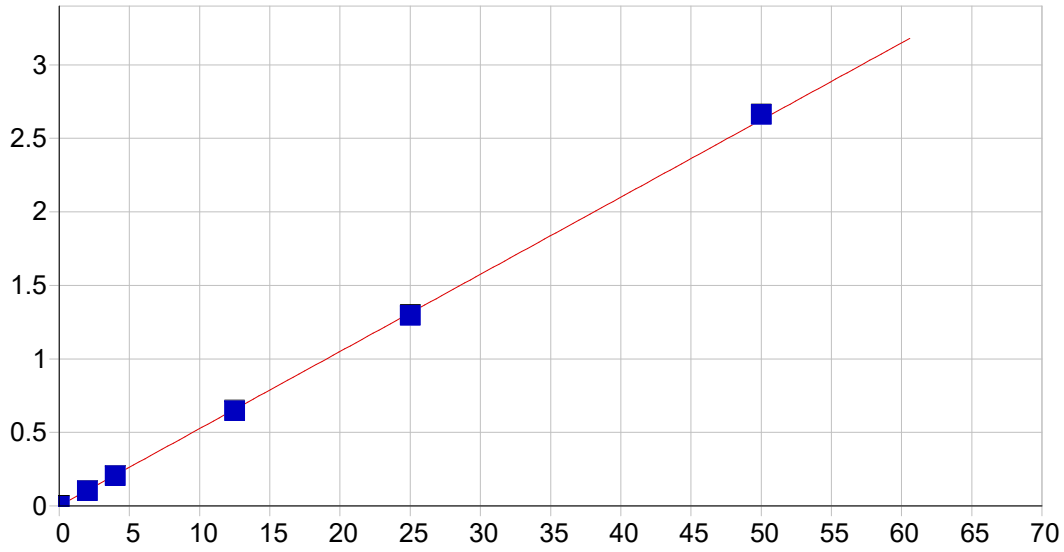
Cd 226.502 {449}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000419	Re-Slope:	1.000000
A1 (Gain):	2.462522	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	0.000089		
Predicted MQL:	0.000295		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00042	.000	1
S1	.00600	.00577	-.000	-3.90	.01383	.000	1
S3	1.2500	1.2280	-.022	-1.76	3.0256	.011	1
S4	2.5000	2.4779	-.022	-.884	6.1058	.026	1
S5	5.0000	5.0434	.043	.869	12.428	.045	1
S2	.40000	.40093	.001	.233	.98757	.003	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



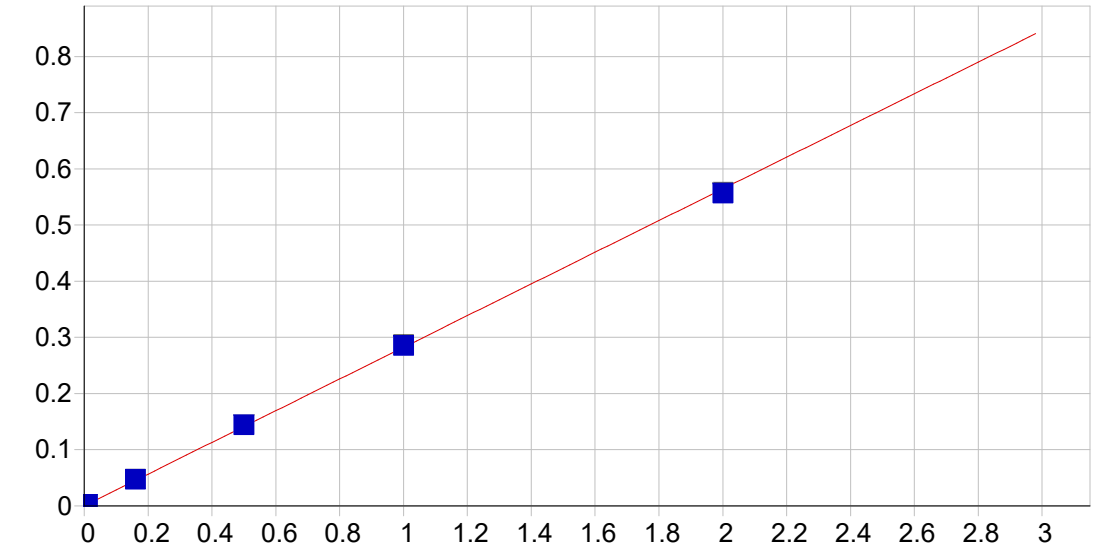
Ca 373.690 { 90}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000854	Re-Slope:	1.000000
A1 (Gain):	0.052478	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000440		
Predicted MDL:	0.012310		
Predicted MQL:	0.041033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00015	.000	.000	.00086	.000	1
S2	4.0000	3.8784	-.122	-3.04	.20439	.000	1
S3	12.500	12.284	-.216	-1.73	.64550	.005	1
S4	25.000	24.677	-.323	-1.29	1.2959	.003	1
S5	50.000	50.717	.717	1.43	2.6624	.001	1
S1	2.0000	1.9433	-.057	-2.84	.10283	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



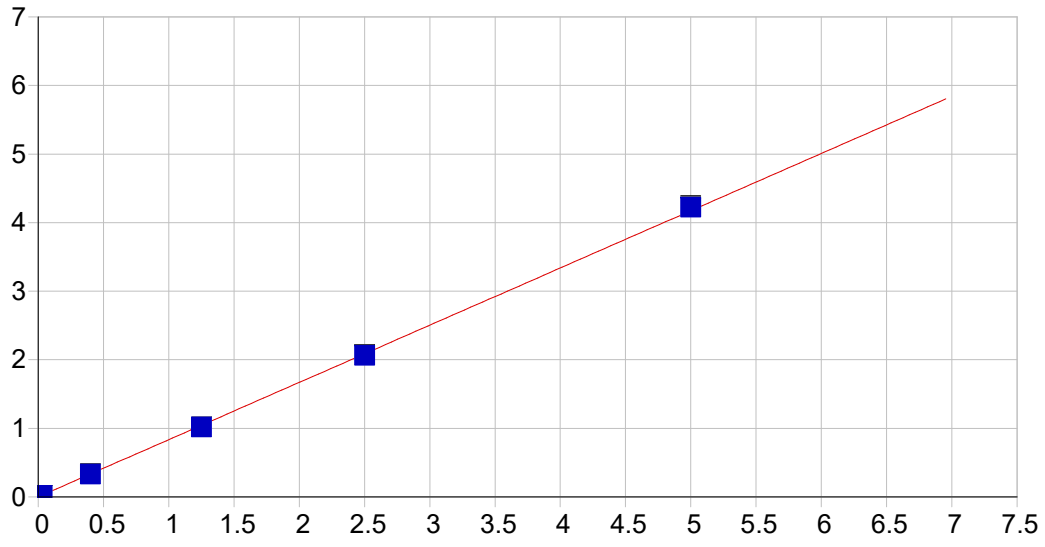
Cr 267.716 {126}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000248	Re-Slope:	1.000000
A1 (Gain):	0.282127	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.000362		
Predicted MQL:	0.001207		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00025	.000	1
S1	.01000	.01121	.001	12.1	.00342	.000	1
S3	.50000	.51090	.011	2.18	.14458	.000	1
S4	1.0000	1.0102	.010	1.02	.28566	.001	1
S5	2.0000	1.9718	-.028	-1.41	.55734	.001	1
S2	.16000	.16585	.006	3.65	.04710	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



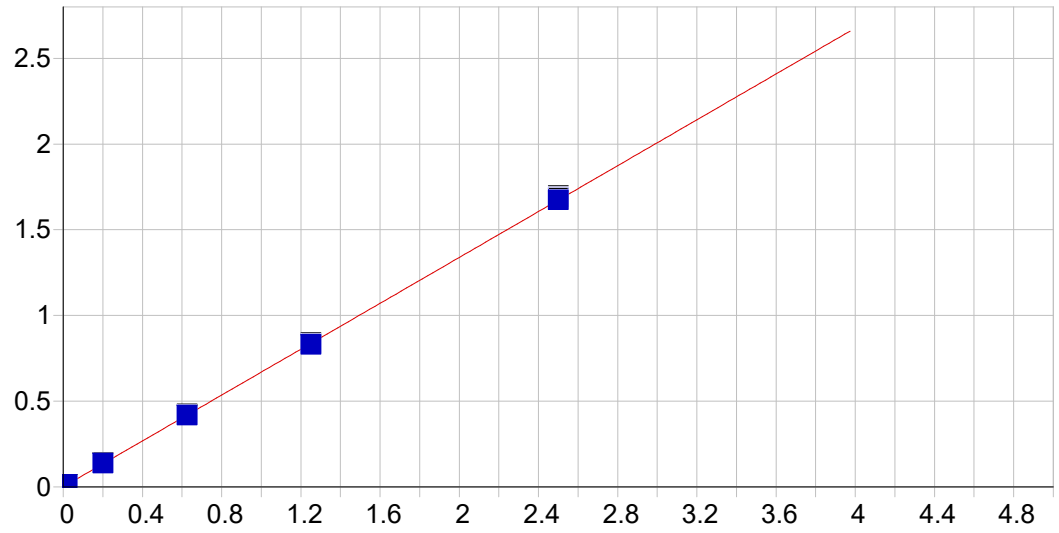
Co 228.616 {448}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	0.834650	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.000229		
Predicted MDL:	0.000230		
Predicted MQL:	0.000767		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00035	.000	1
S1	.03000	.02938	-.001	-2.06	.02477	.000	1
S3	1.2500	1.2207	-.029	-2.34	1.0210	.003	1
S4	2.5000	2.4736	-.026	-1.06	2.0685	.010	1
S5	5.0000	5.0583	.058	1.17	4.2294	.015	1
S2	.40000	.39800	-.002	-.500	.33311	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



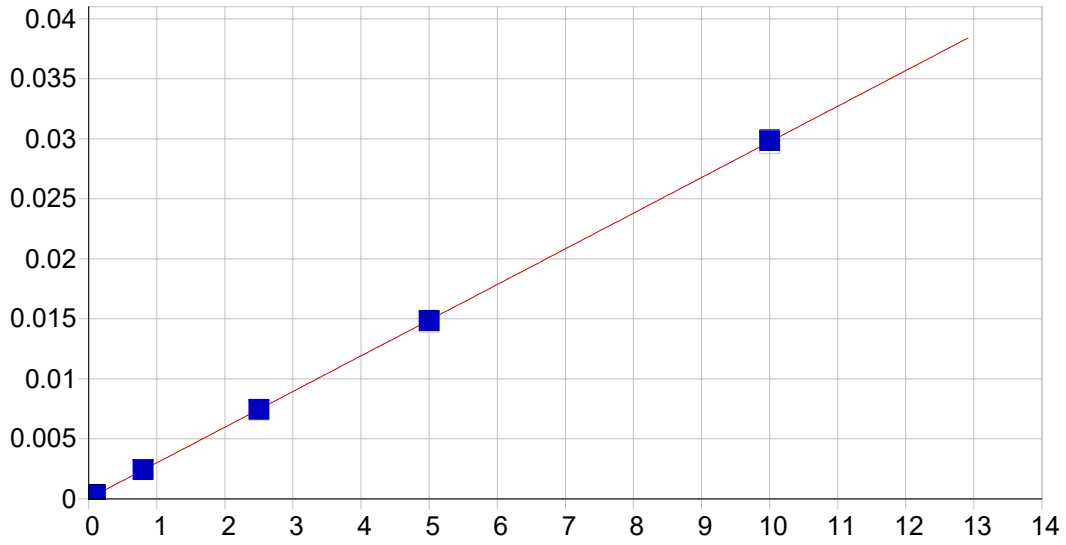
Cu 224.700 {450}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000731	Re-Slope:	1.000000
A1 (Gain):	0.668994	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	0.000453		
Predicted MQL:	0.001511		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00073	.000	1
S1	.02000	.02094	.001	4.71	.01491	.000	1
S3	.62500	.62484	-.000	-.025	.42274	.002	1
S4	1.2500	1.2395	-.010	-.838	.83794	.005	1
S5	2.5000	2.5032	.003	.126	1.6913	.008	1
S2	.20000	.20654	.007	3.27	.14018	.001	1

Reviewed By:jaswal
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LB :LB136390



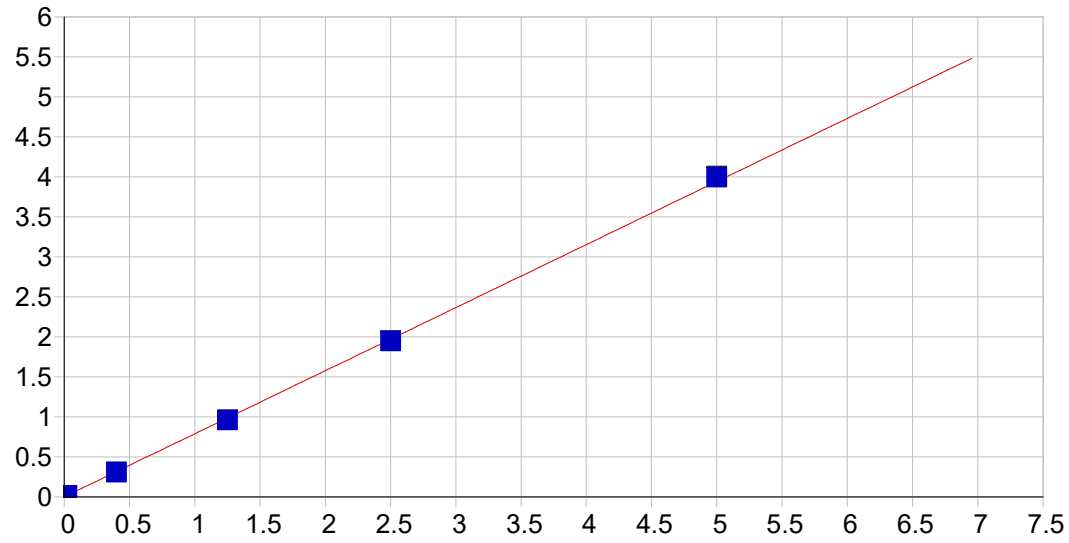
Fe 240.488 {140}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000034	Re-Slope:	1.000000
A1 (Gain):	0.002971	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.009373		
Predicted MQL:	0.031243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.10000	.10054	.001	.543	.00033	.000	1
S3	2.5000	2.4893	-.011	-.429	.00737	.000	1
S4	5.0000	4.9793	-.021	-.413	.01470	.000	1
S5	10.000	10.026	.026	.257	.02956	.000	1
S2	.80000	.80516	.005	.646	.00241	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



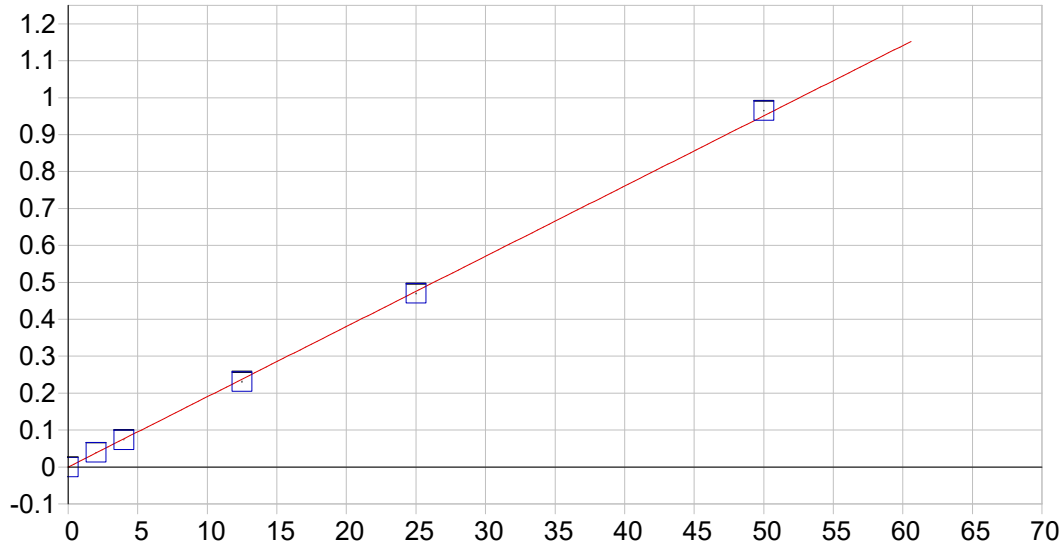
Mn 257.610 {131}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000790	Re-Slope:	1.000000
A1 (Gain):	0.788280	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999872	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.000369		
Predicted MQL:	0.001230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00079	.000	1
S1	.02000	.02079	.001	3.95	.01718	.000	1
S3	1.2500	1.2192	-.031	-2.46	.96209	.005	1
S4	2.5000	2.4710	-.029	-1.16	1.9491	.002	1
S5	5.0000	5.0692	.069	1.38	3.9976	.009	1
S2	.40000	.38970	-.010	-2.57	.30805	.002	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



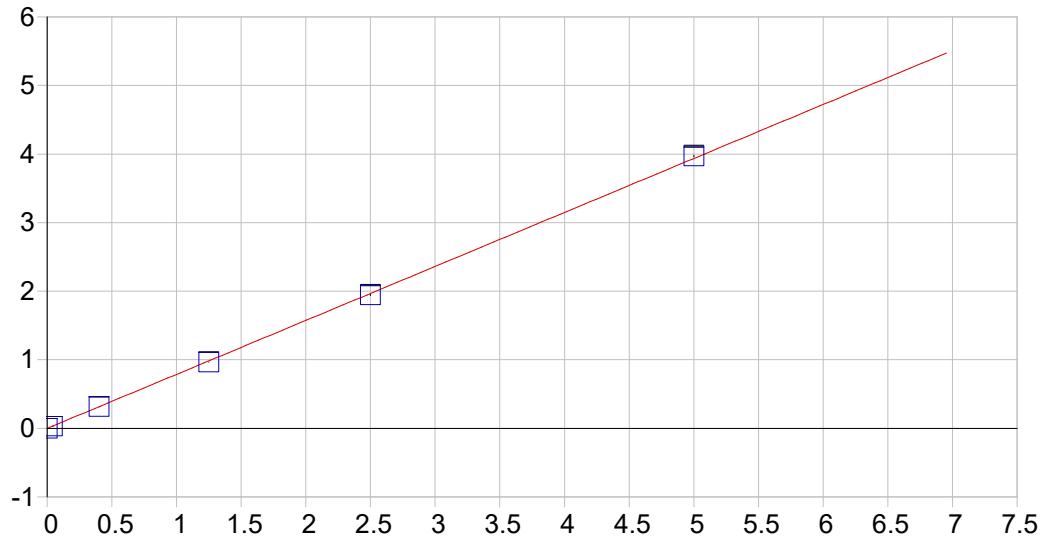
Mg 279.079 {121}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.019018	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000184		
Predicted MDL:	0.018854		
Predicted MQL:	0.062846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	.00001	.000	1
S2	4.0000	3.8663	-.134	-3.34	.07354	.000	1
S3	12.500	12.138	-.362	-2.89	.23085	.002	1
S4	25.000	24.702	-.298	-1.19	.46978	.001	1
S5	50.000	50.725	.725	1.45	.96468	.001	1
S1	2.0000	2.0691	.069	3.45	.03936	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



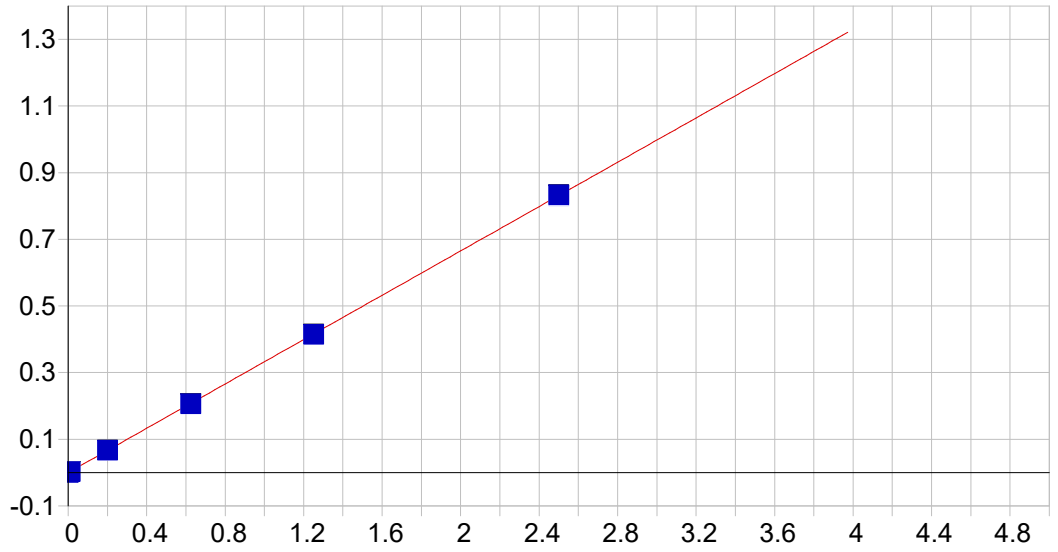
Ni 231.604 {446}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000539	Re-Slope:	1.000000
A1 (Gain):	0.787167	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.000289		
Predicted MQL:	0.000963		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00054	.000	1
S1	.04000	.04026	.000	.642	.03115	.000	1
S3	1.2500	1.2273	-.023	-1.81	.96559	.003	1
S4	2.5000	2.4735	-.027	-1.06	1.9465	.009	1
S5	5.0000	5.0452	.045	.905	3.9709	.015	1
S2	.40000	.40370	.004	.925	.31724	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



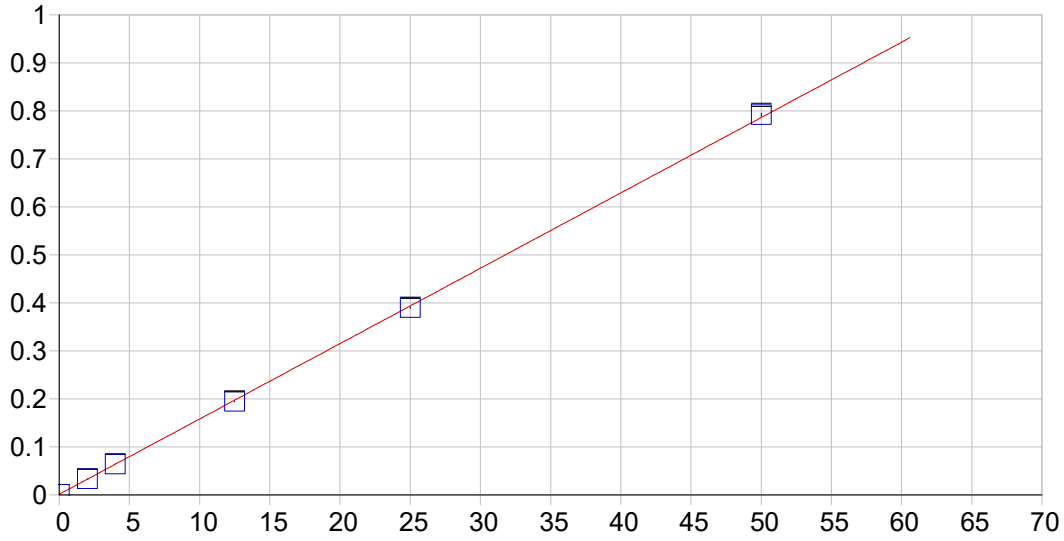
Ag 328.068 {103}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000086	Re-Slope:	1.000000
A1 (Gain):	0.332626	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.000469		
Predicted MQL:	0.001565		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.01000	.00988	-.000	-1.19	.00318	.000	1
S3	.62500	.62145	-.004	-.569	.20578	.000	1
S4	1.2500	1.2478	-.002	-.173	.41329	.001	1
S5	2.5000	2.5048	.005	.194	.82972	.000	1
S2	.20000	.20099	.001	.497	.06650	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



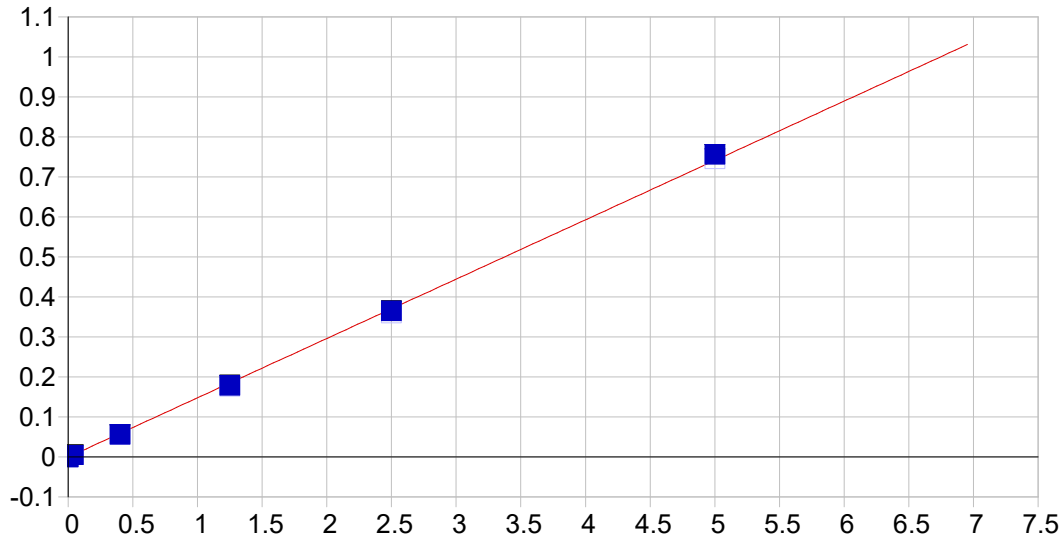
Na 589.592 { 57}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001305	Re-Slope:	1.000000
A1 (Gain):	0.015700	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.013280		
Predicted MQL:	0.044268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00130	.000	1
S2	4.0000	4.0040	.004	.100	.06417	.000	1
S3	12.500	12.328	-.172	-1.37	.19486	.001	1
S4	25.000	24.746	-.254	-1.02	.38981	.001	1
S5	50.000	50.372	.372	.744	.79214	.003	1
S1	2.0000	2.0501	.050	2.51	.03349	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



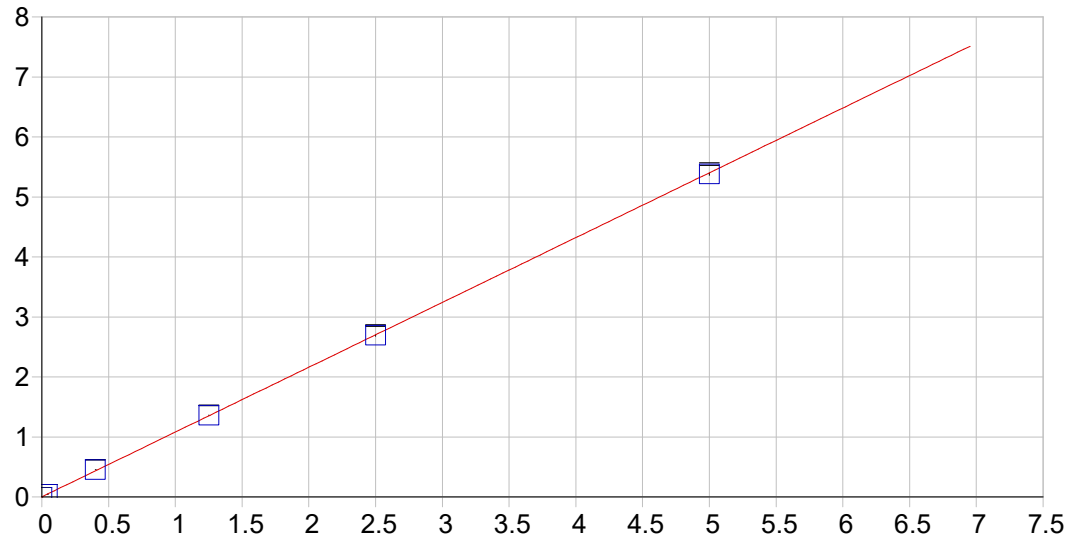
V 292.402 {115}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000554	Re-Slope:	1.000000
A1 (Gain):	0.148333	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999717	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.002601		
Predicted MQL:	0.008671		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00055	.000	1
S1	.04000	.03819	-.002	-4.53	.00489	.000	1
S3	1.2500	1.2072	-.043	-3.42	.17581	.001	1
S4	2.5000	2.4642	-.036	-1.43	.35957	.001	1
S5	5.0000	5.1002	.100	2.00	.74516	.000	1
S2	.40000	.38011	-.020	-4.97	.05496	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



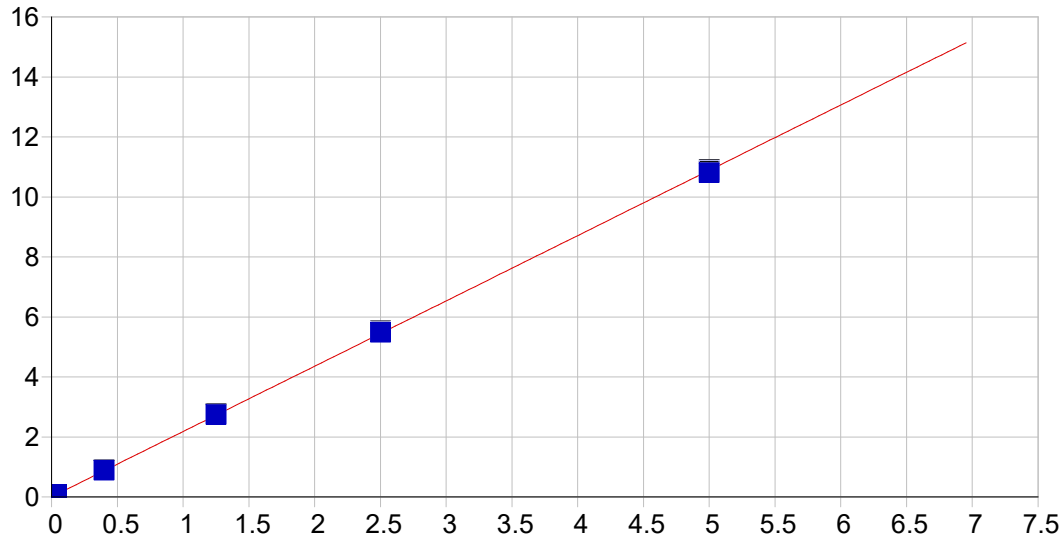
Zn 206.200 {464}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000780	Re-Slope:	1.000000
A1 (Gain):	1.080186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000271		
Predicted MDL:	0.000169		
Predicted MQL:	0.000563		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00078	.000	1
S1	.04000	.04083	.001	2.08	.04489	.000	1
S3	1.2500	1.2593	.009	.743	1.3610	.005	1
S4	2.5000	2.4902	-.010	-.391	2.6907	.011	1
S5	5.0000	4.9812	-.019	-.376	5.3814	.020	1
S2	.40000	.41847	.018	4.62	.45280	.002	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



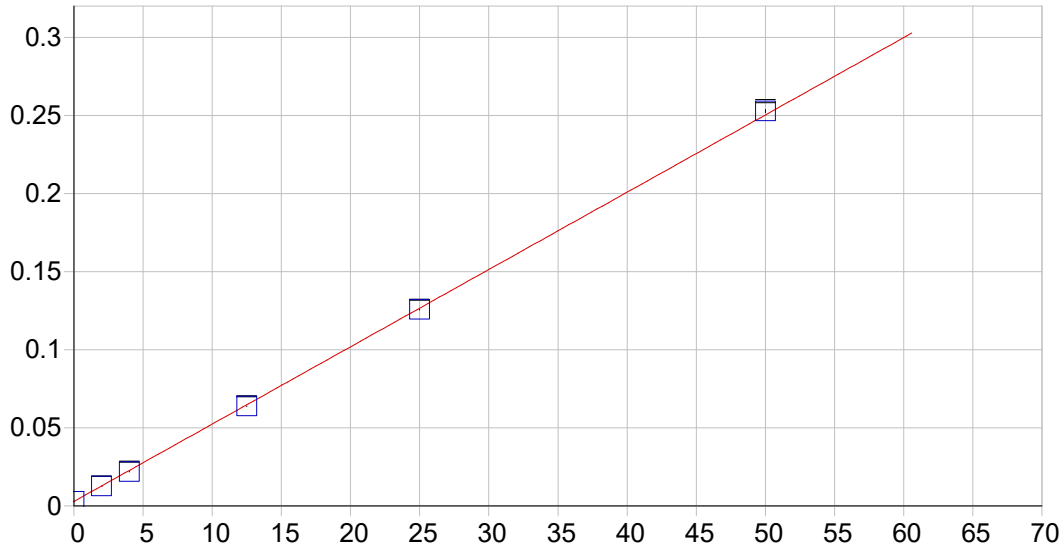
Zn 213.856 {158}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002596	Re-Slope:	1.000000
A1 (Gain):	2.177047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000418		
Predicted MDL:	0.000277		
Predicted MQL:	0.000924		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00259	.000	1
S1	.04000	.04145	.001	3.62	.09344	.001	1
S3	1.2500	1.2600	.010	.799	2.7646	.005	1
S4	2.5000	2.5176	.018	.706	5.5215	.013	1
S5	5.0000	4.9644	-.036	-.711	10.886	.030	1
S2	.40000	.40649	.006	1.62	.89359	.005	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



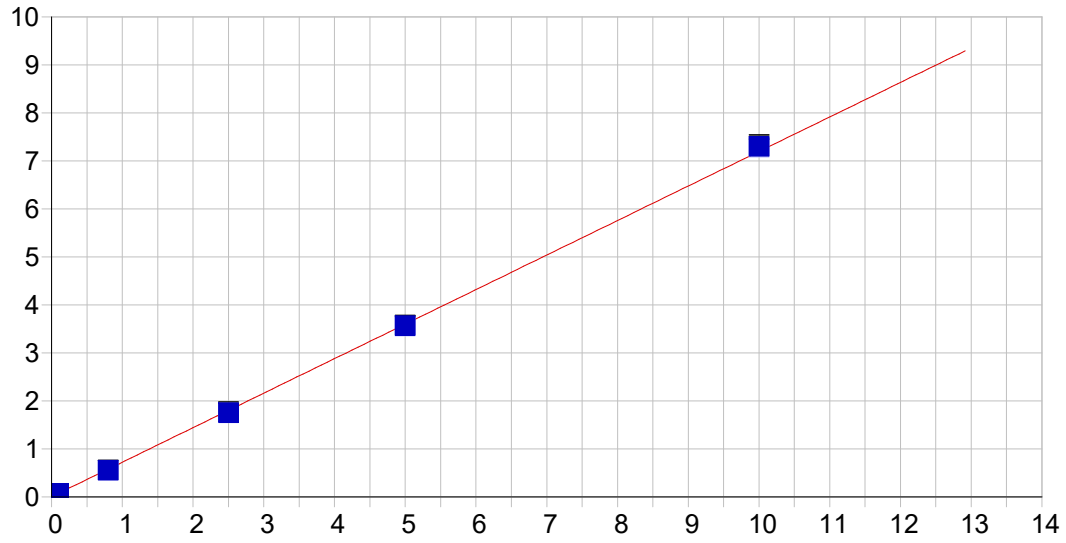
K 766.490 { 44}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002908	Re-Slope:	1.000000
A1 (Gain):	0.004948	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.052794		
Predicted MQL:	0.175980		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00291	.000	1
S2	4.0000	3.8618	-.138	-3.46	.02202	.000	1
S3	12.500	12.327	-.173	-1.38	.06390	.000	1
S4	25.000	24.816	-.184	-.735	.12569	.000	1
S5	50.000	50.512	.512	1.02	.25283	.001	1
S1	2.0000	1.9825	-.017	-.875	.01272	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



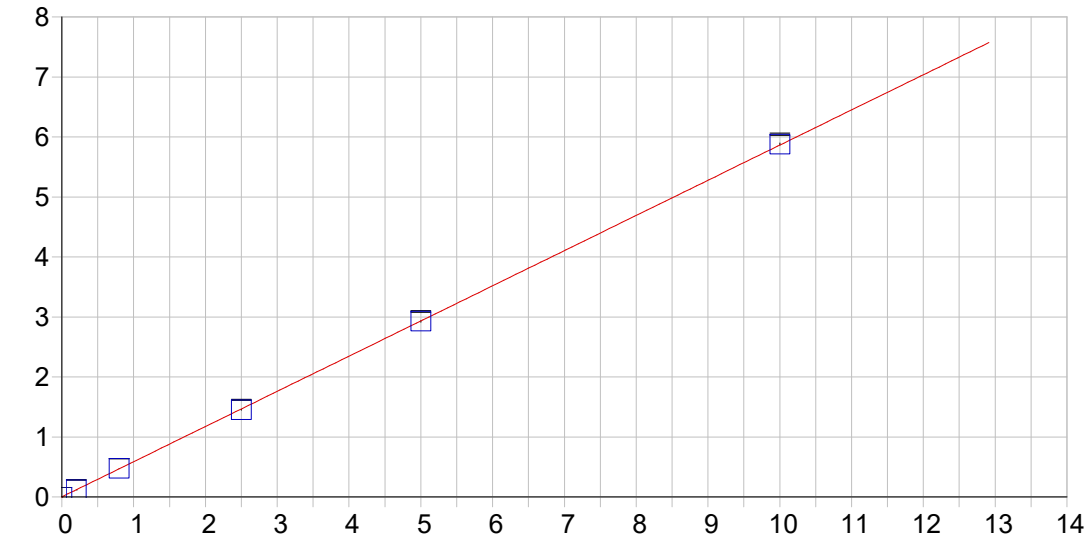
B 249.678 {135}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003917	Re-Slope:	1.000000
A1 (Gain):	0.719229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999831	Status:	OK.
Std Error of Est:	0.000693		
Predicted MDL:	0.000747		
Predicted MQL:	0.002489		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00393	.001	1
S1	.10000	.09476	-.005	-5.24	.07165	.000	1
S3	2.5000	2.4367	-.063	-2.53	1.7500	.018	1
S4	5.0000	4.9576	-.042	-.848	3.5566	.011	1
S5	10.000	10.148	.148	1.48	7.2770	.036	1
S2	.80000	.76258	-.037	-4.68	.55031	.006	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



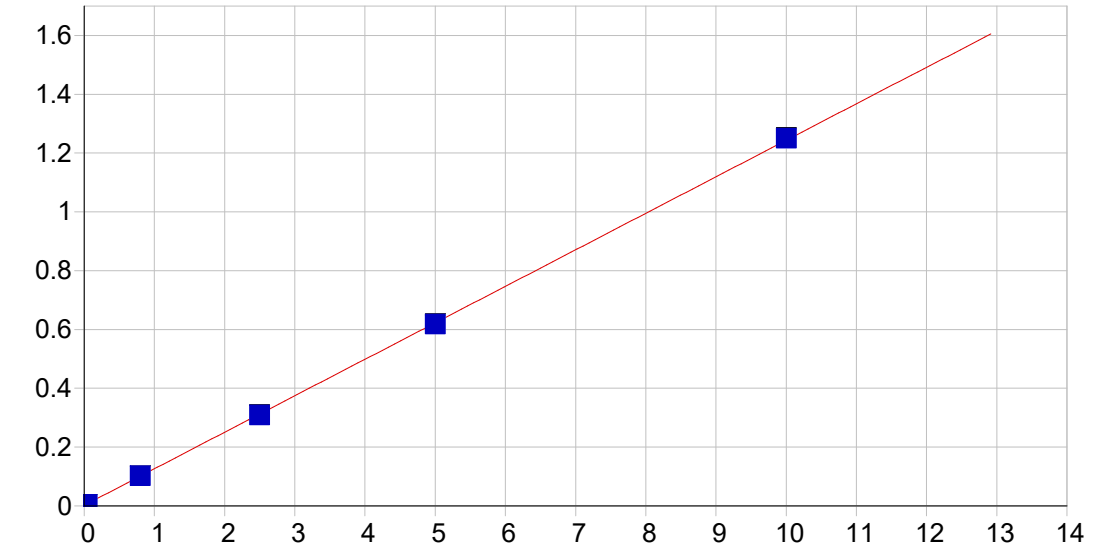
Mo 202.030 {467}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000498	Re-Slope:	1.000000
A1 (Gain):	0.586319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000195		
Predicted MDL:	0.000319		
Predicted MQL:	0.001065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.20000	.19990	-.000	-.052	.11770	.000	1
S3	2.5000	2.4767	-.023	-.933	1.4526	.008	1
S4	5.0000	4.9894	-.011	-.212	2.9259	.013	1
S5	10.000	10.028	.028	.277	5.8799	.020	1
S2	.80000	.80634	.006	.793	.47327	.002	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



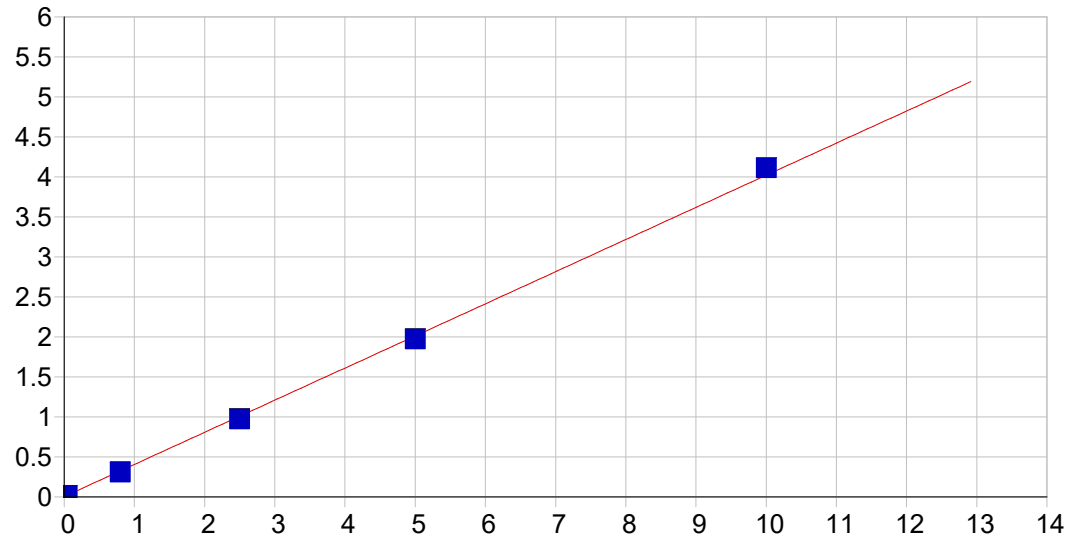
Sn 189.989 {478}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002129	Re-Slope:	1.000000
A1 (Gain):	0.124121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000764		
Predicted MQL:	0.002548		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00213	.000	1
S1	.04000	.03806	-.002	-4.85	.00685	.000	1
S3	2.5000	2.4709	-.029	-1.16	.30850	.001	1
S4	5.0000	4.9642	-.036	-.716	.61766	.003	1
S5	10.000	10.060	.060	.599	1.2495	.002	1
S2	.80000	.80692	.007	.865	.10218	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



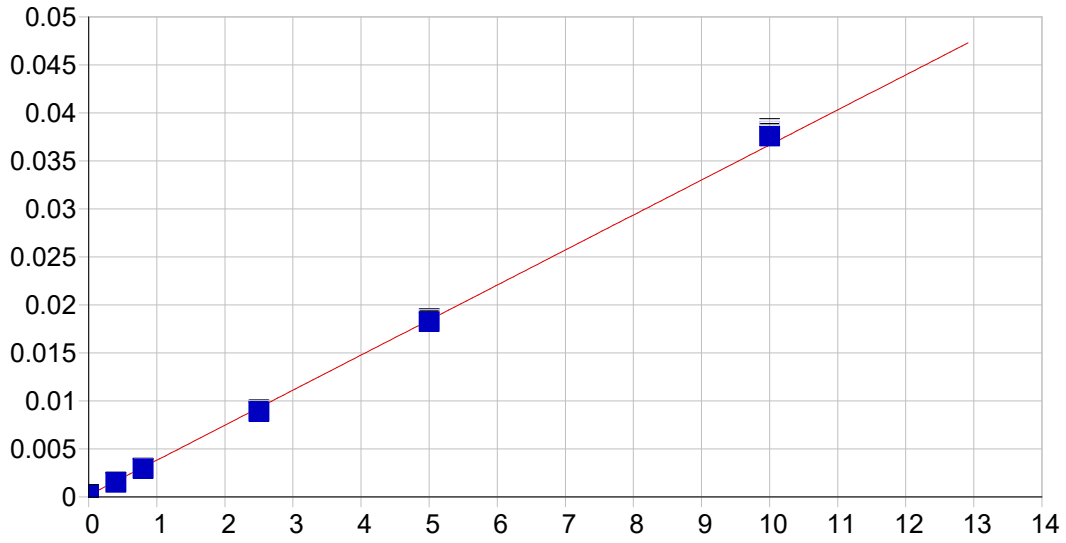
Ti 336.121 {100}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004135	Re-Slope:	1.000000
A1 (Gain):	0.401628	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999656	Status:	OK.
Std Error of Est:	0.000349		
Predicted MDL:	0.001247		
Predicted MQL:	0.004156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00414	.000	1
S1	.04000	.03631	-.004	-9.23	.01871	.000	1
S3	2.5000	2.4130	-.087	-3.48	.97292	.006	1
S4	5.0000	4.8988	-.101	-2.02	1.9709	.004	1
S5	10.000	10.231	.231	2.31	4.1116	.003	1
S2	.80000	.76114	-.039	-4.86	.30972	.001	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



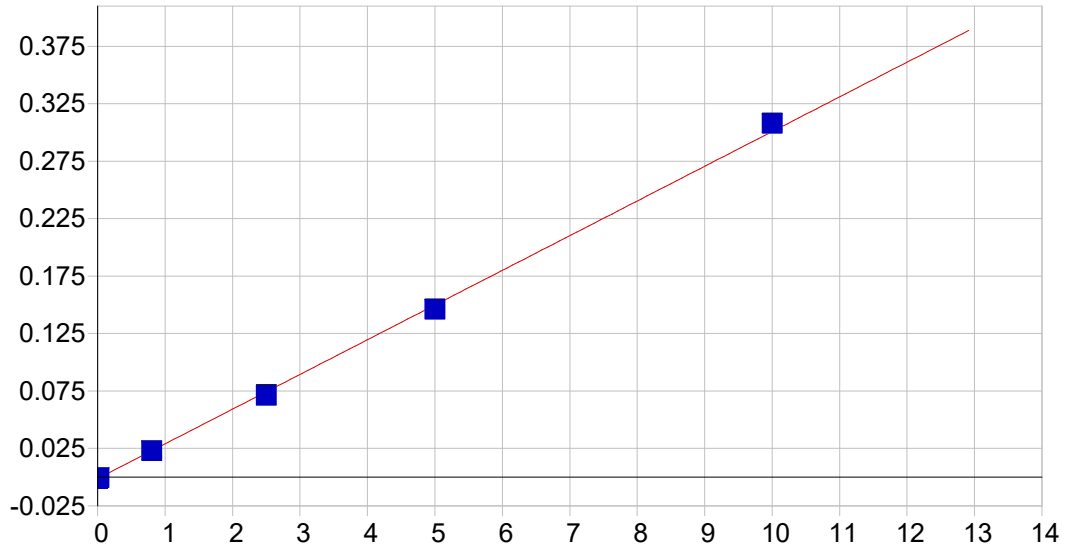
Si 288.158 {117}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000171	Re-Slope:	1.000000
A1 (Gain):	0.003649	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999533	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.014962		
Predicted MQL:	0.049874		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00017	.000	1
S1	.40000	.36166	-.038	-9.58	.00149	.000	1
S3	2.5000	2.3855	-.115	-4.58	.00901	.000	1
S4	5.0000	4.9485	-.052	-1.03	.01850	.000	1
S5	10.000	10.248	.248	2.48	.03811	.000	1
S2	.80000	.75637	-.044	-5.45	.00298	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



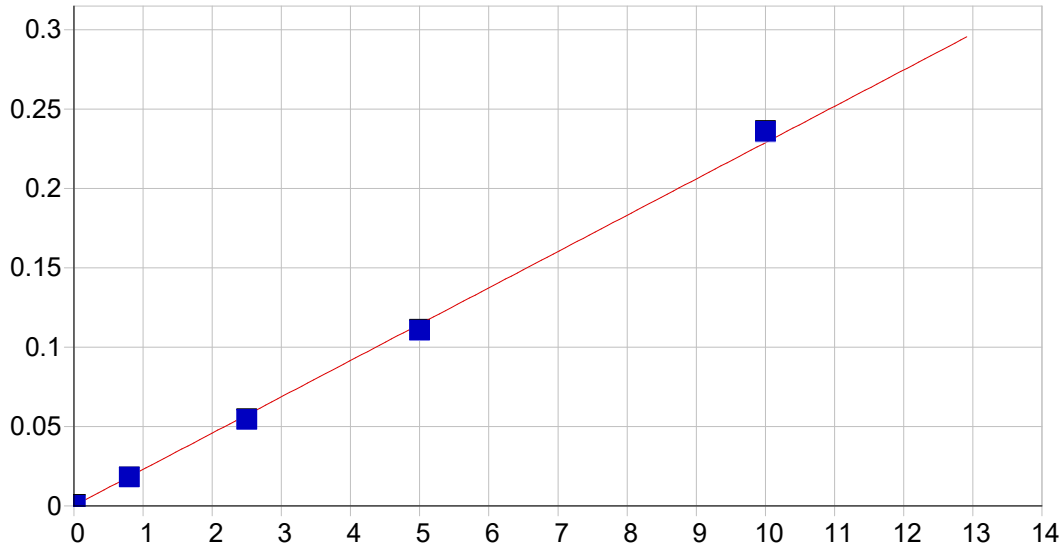
P 177.495 {490}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001197	Re-Slope:	1.000000
A1 (Gain):	0.030197	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999647	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.002525		
Predicted MQL:	0.008416		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00120	.000	1
S1	.02000	.02147	.001	7.37	-.00055	.000	1
S3	2.5000	2.3964	-.104	-4.14	.07116	.000	1
S4	5.0000	4.8739	-.126	-2.52	.14595	.000	1
S5	10.000	10.232	.232	2.32	.30771	.000	1
S2	.80000	.79673	-.003	-.409	.02286	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



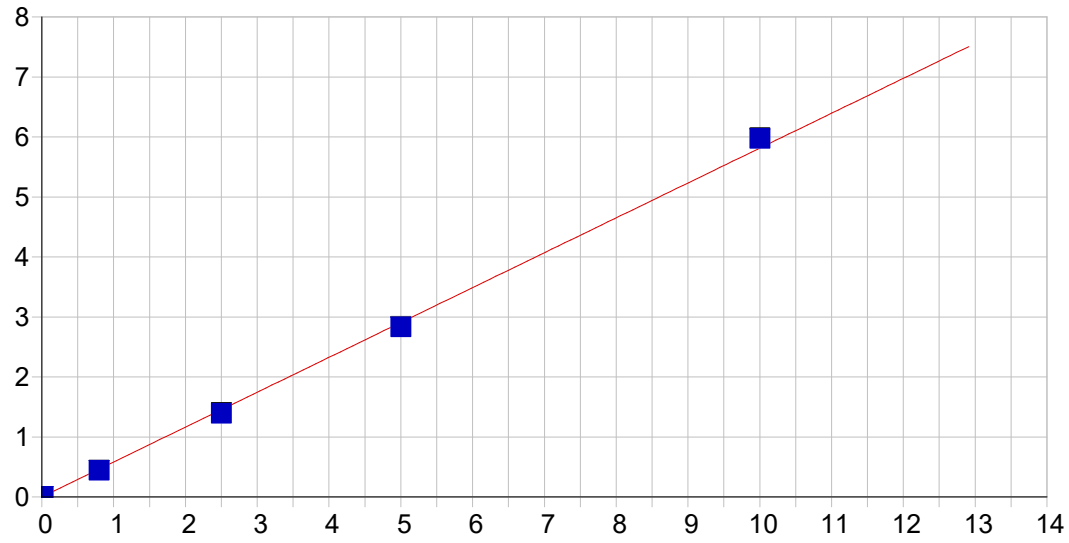
S 182.034 {485}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.022880	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999399	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.003606		
Predicted MQL:	0.012021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.02000	.02368	.004	18.4	.00066	.000	1
S3	2.5000	2.3758	-.124	-4.97	.05434	.000	1
S4	5.0000	4.8313	-.169	-3.37	.11038	.001	1
S5	10.000	10.303	.303	3.03	.23527	.001	1
S2	.80000	.78645	-.014	-1.69	.01808	.000	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



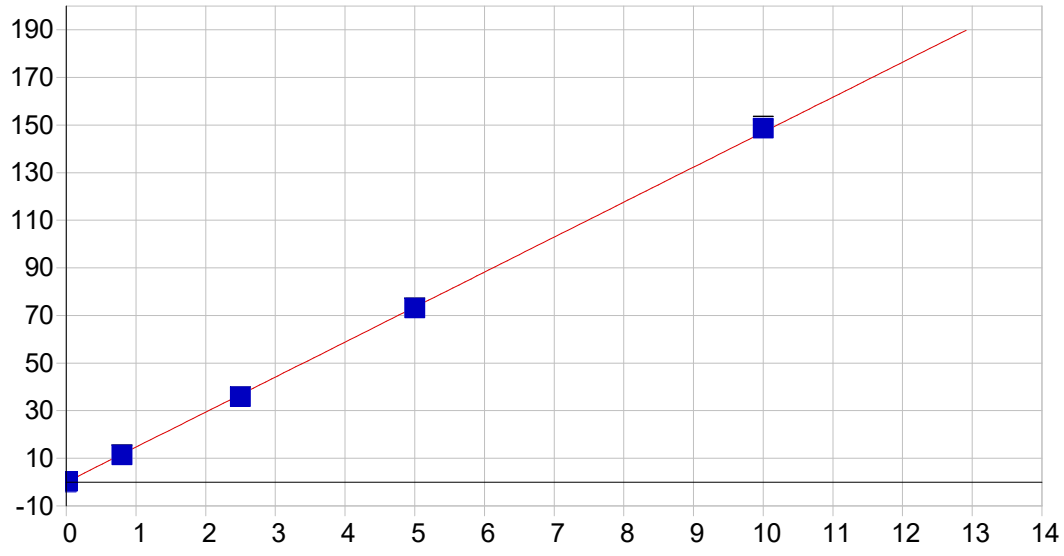
Li 670.784 { 50}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000746	Re-Slope:	1.000000
A1 (Gain):	0.581219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999534	Status:	OK.
Std Error of Est:	0.000416		
Predicted MDL:	0.002672		
Predicted MQL:	0.008908		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00075	.001	1
S5	10.000	10.273	.273	2.73	5.9744	.008	1
S4	5.0000	4.8721	-.128	-2.56	2.8340	.007	1
S3	2.5000	2.3966	-.103	-4.14	1.3944	.009	1
S1	.02000	.01871	-.001	-6.46	.01181	.001	1
S2	.80000	.75973	-.040	-5.03	.44255	.002	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



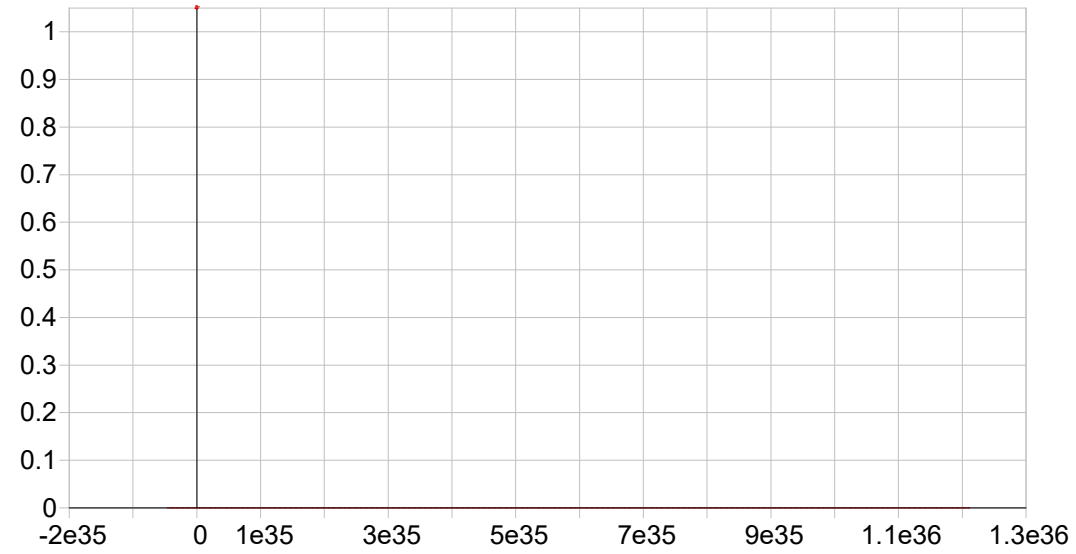
Sr 407.771 { 83}

Date of Fit:	7/7/2025 16:48:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000163	Re-Slope:	1.000000
A1 (Gain):	14.701511	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.004905		
Predicted MDL:	0.000065		
Predicted MQL:	0.000217		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00014	.001	1
S1	.02000	.01962	-.000	-1.89	.28973	.002	1
S3	2.5000	2.4363	-.064	-2.55	35.852	.184	1
S4	5.0000	4.9748	-.025	-.504	73.208	.207	1
S5	10.000	10.113	.113	1.13	148.81	.734	1
S2	.80000	.77656	-.023	-2.93	11.428	.026	1

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

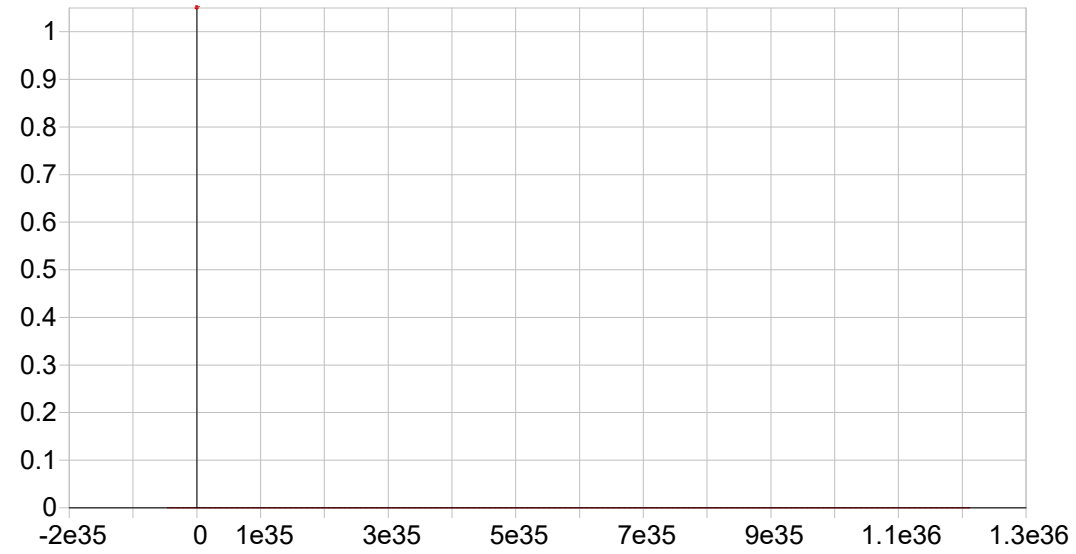


Y 224.306 {450}*

Date of Fit:	7/7/2025 16:48:48	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}*

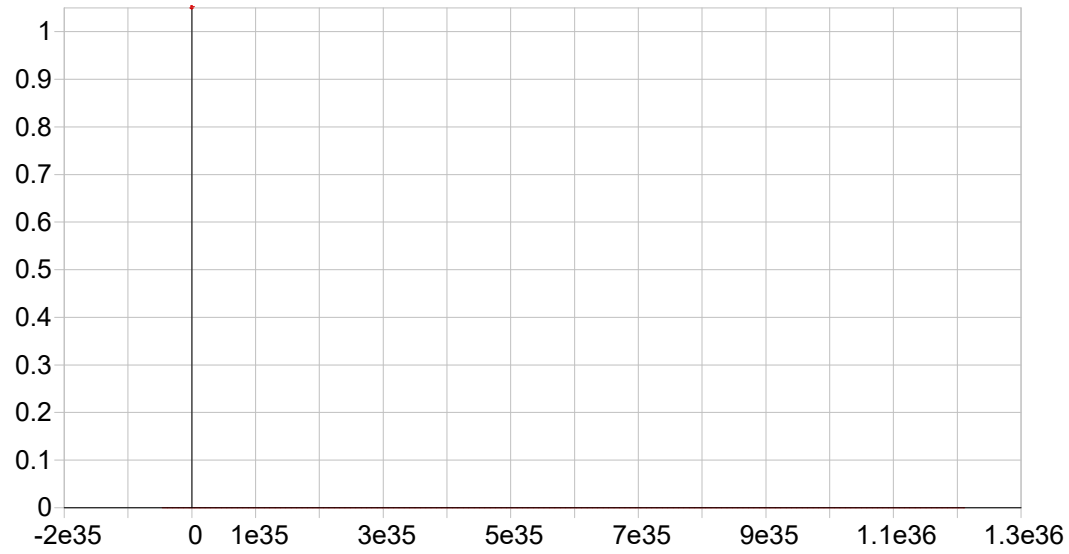
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

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



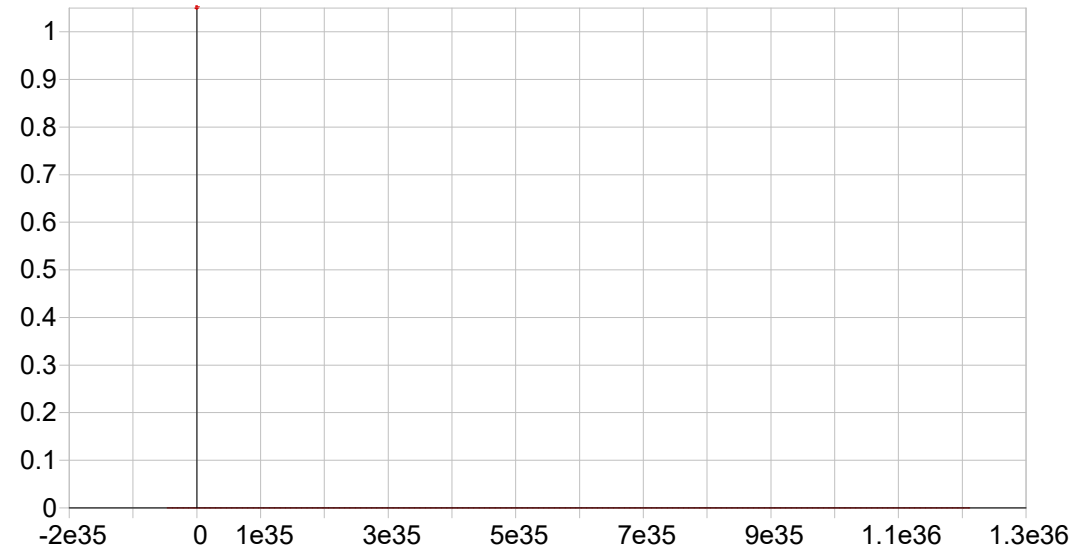
Y 371.030 { 91}*

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

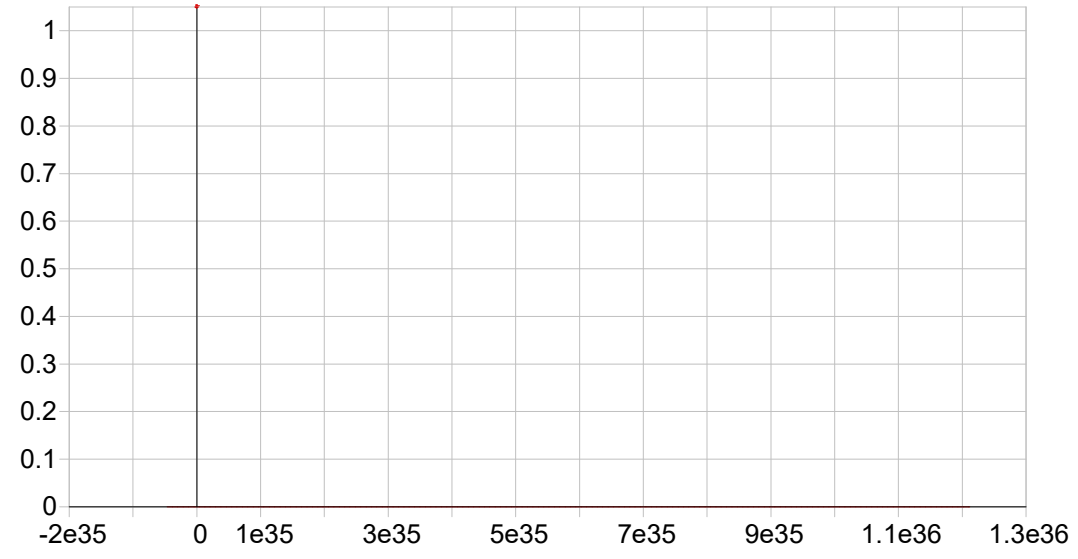
Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390



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:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

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:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S0 Acquired: 7/7/2025 12:25:55 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**-.00011**	**-.00024**	**-.00040**	**.00084**	**.00045**	**.00065**	**.11023**	**.00226**
Stddev	.00008	.00002	.00005	.00008	.00015	.00078	.00069	.00006
%RSD	72.436	9.5737	13.444	9.8431	33.185	119.90	.62931	2.6394
#1	-.00004	-.00027	-.00037	.00075	.00036	.00148	.11047	.00232
#2	-.00008	-.00023	-.00047	.00085	.00062	.00051	.10944	.00226
#3	-.00019	-.00022	-.00037	.00091	.00037	-.00005	.11077	.00220

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00042**	**.00086**	**.00025**	**.00035**	**.00073**	**.00003**	**.00079**	**.00001**
Stddev	.00013	.00042	.00014	.00011	.00022	.00001	.00015	.00014
%RSD	30.199	48.951	56.317	31.454	29.813	29.443	18.418	1199.0
#1	-.00047	.00110	.00020	.00036	.00068	.00003	.00064	.00013
#2	-.00027	.00037	.00014	.00024	.00097	.00004	.00093	.00005
#3	-.00051	.00111	.00041	.00046	.00054	.00002	.00080	-.00014

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00054**	**-.00009**	**.00130**	**-.00055**	**.00259**	**.00291**	**.00393**	**.00050**
Stddev	.00014	.00004	.00024	.00019	.00020	.00007	.00052	.00020
%RSD	26.379	46.347	18.568	33.845	7.5974	2.4331	13.163	40.939
#1	-.00044	-.00007	.00108	-.00034	.00237	.00289	.00424	.00068
#2	-.00070	-.00006	.00127	-.00069	.00275	.00285	.00421	.00028
#3	-.00047	-.00013	.00156	-.00064	.00265	.00299	.00333	.00054

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00213**	**.00414**	**.00017**	**-.00120**	**.00013**	**.00075**	**-.00014**
Stddev	.00006	.00020	.00005	.00006	.00008	.00074	.00088
%RSD	2.8811	4.7428	30.218	5.2616	61.920	99.614	614.16
#1	.00219	.00410	.00016	-.00125	.00022	.00160	.00086
#2	.00212	.00397	.00023	-.00113	.00005	.00021	-.00049
#3	.00207	.00435	.00013	-.00121	.00013	.00044	-.00080

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S0 Acquired: 7/7/2025 12:25:55 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**4987.3**	**64992.**	**8887.5**	**4453.4**	**7102.7**
Stddev	8.3	134.	24.5	5.4	11.5
%RSD	.16688	.20604	.27588	.12225	.16207
#1	4981.1	65130.	8915.2	4447.2	7112.1
#2	4984.0	64863.	8868.5	4455.6	7089.9
#3	4996.8	64983.	8878.9	4457.4	7106.2

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S1 Acquired: 7/7/2025 12:30:17 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	**.00107**	**.00273**	**.00258**	**.00205**	**.00775**	**.01468**	**.30586**	**.06240**
Stddev	.00001	.00010	.00027	.00025	.00005	.00025	.00279	.00060
%RSD	1.1863	3.5221	10.366	12.282	.67574	1.7325	.91189	.96693
#1	.00107	.00280	.00264	.00195	.00781	.01458	.30895	.06179
#2	.00105	.00262	.00281	.00233	.00772	.01448	.30353	.06241
#3	.00108	.00278	.00228	.00186	.00773	.01496	.30509	.06300

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01383**	**.10283**	**.00342**	**.02477**	**.01491**	**.00033**	**.01718**	**.03936**
Stddev	.00019	.00034	.00003	.00005	.00005	.00003	.00025	.00047
%RSD	1.3392	.33432	1.0157	.21683	.33211	8.7590	1.4562	1.1915
#1	.01382	.10319	.00344	.02474	.01497	.00033	.01723	.03886
#2	.01366	.10251	.00344	.02483	.01490	.00036	.01691	.03943
#3	.01403	.10280	.00338	.02474	.01487	.00030	.01741	.03979

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03115**	**.00318**	**.03349**	**.00489**	**.09344**	**.01272**	**.07165**	**.11770**
Stddev	.00002	.00010	.00017	.00015	.00063	.00003	.00034	.00043
%RSD	.06449	3.2262	.50401	2.9757	.66907	.23420	.46957	.36190
#1	.03113	.00310	.03336	.00499	.09389	.01268	.07153	.11728
#2	.03116	.00314	.03368	.00496	.09272	.01274	.07139	.11813
#3	.03117	.00329	.03343	.00472	.09369	.01272	.07203	.11769

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00685**	**.01871**	**.00149**	**-.00055**	**.00066**	**.01181**	**.28973**
Stddev	.00005	.00034	.00004	.00002	.00007	.00110	.00176
%RSD	.74762	1.7938	2.5952	3.7292	10.610	9.2799	.60824
#1	.00681	.01836	.00153	-.00057	.00061	.01261	.29059
#2	.00691	.01903	.00150	-.00053	.00074	.01225	.28770
#3	.00683	.01872	.00145	-.00054	.00062	.01056	.29090

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S1 Acquired: 7/7/2025 12:30:17 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	4973.2	67724.	9147.4	4592.0	6996.0
Stddev	9.3	155.	66.6	31.0	10.6
%RSD	.18654	.22825	.72834	.67451	.15109
#1	4973.8	67584.	9108.7	4567.9	6987.6
#2	4963.6	67699.	9224.3	4581.1	6992.4
#3	4982.1	67890.	9109.1	4626.9	7007.8

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S2 Acquired: 7/7/2025 12:34:36 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04317	.06601	.20172	.06004	.11911	.20362	3.4007	.39974	.98757
Stddev	.00029	.00101	.00053	.00041	.00064	.00102	.0107	.00275	.00278
%RSD	.67356	1.5308	.26516	.68611	.53989	.50298	.31310	.68685	.28129
#1	.04284	.06499	.20141	.05959	.11843	.20479	3.4124	.40202	.98487
#2	.04336	.06701	.20141	.06015	.11919	.20293	3.3982	.40051	.98743
#3	.04332	.06603	.20234	.06039	.11970	.20313	3.3916	.39669	.99042

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.20439	.04710	.33311	.14018	.00241	.30805	.07354	.31724	.06650
Stddev	.00049	.00011	.00104	.00084	.00002	.00191	.00026	.00096	.00036
%RSD	.23779	.24315	.31164	.60151	.89978	.61942	.34937	.30301	.53607
#1	.20474	.04708	.33214	.13980	.00239	.30998	.07367	.31637	.06613
#2	.20459	.04722	.33300	.13960	.00240	.30799	.07370	.31708	.06683
#3	.20383	.04700	.33420	.14115	.00243	.30617	.07324	.31827	.06654

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06417	.05496	.89359	.02202	.55031	.47327	.10218	.30972	.00298
Stddev	.00025	.00038	.00511	.00036	.00552	.00232	.00041	.00095	.00003
%RSD	.38568	.68996	.57236	1.6183	1.0027	.48968	.40423	.30753	1.0503
#1	.06411	.05540	.88799	.02176	.55237	.47105	.10172	.31080	.00294
#2	.06395	.05469	.89475	.02187	.55450	.47309	.10252	.30935	.00300
#3	.06444	.05480	.89802	.02242	.54406	.47568	.10231	.30900	.00298

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02286	.01808	.44255	11.428
Stddev	.00016	.00011	.00197	.026
%RSD	.69442	.59727	.44483	.22934
#1	.02268	.01798	.44480	11.458
#2	.02296	.01806	.44171	11.414
#3	.02294	.01820	.44114	11.411

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S2 Acquired: 7/7/2025 12:34:36 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	4723.3	68166.	8995.6	4594.1	6493.2
Stddev	12.4	60.	73.7	13.2	11.8
%RSD	.26171	.08804	.81947	.28715	.18120
#1	4731.1	68202.	8939.8	4605.3	6502.0
#2	4729.8	68097.	8967.9	4597.4	6497.8
#3	4709.1	68200.	9079.2	4579.6	6479.9

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S3 Acquired: 7/7/2025 12:38:40 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13088**	**.19843**	**.61808**	**.17935**	**.36250**	**.64108**	**10.732**	**1.2700**	**3.0256**
Stddev	.00070	.00190	.00240	.00112	.00157	.00559	.068	.0150	.0106
%RSD	.53487	.95942	.38869	.62500	.43341	.87226	.63166	1.1786	.34864
#1	.13007	.19625	.61593	.17806	.36074	.64559	10.763	1.2844	3.0159
#2	.13131	.19977	.62067	.17993	.36376	.64282	10.780	1.2710	3.0369
#3	.13125	.19926	.61764	.18006	.36300	.63482	10.655	1.2545	3.0240

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.64550**	**.14458**	**1.0210**	**.42274**	**.00737**	**.96209**	**.23085**	**.96559**	**.20578**
Stddev	.00486	.00041	.0028	.00198	.00003	.00549	.00155	.00307	.00021
%RSD	.75332	.28254	.27621	.46742	.40299	.57114	.67287	.31798	.10121
#1	.64912	.14481	1.0185	.42083	.00733	.96835	.23212	.96333	.20599
#2	.64740	.14483	1.0241	.42478	.00738	.95983	.23132	.96908	.20579
#3	.63997	.14411	1.0204	.42260	.00738	.95808	.22912	.96435	.20557

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19486**	**.17581**	**2.7646**	**.06390**	**1.7500**	**1.4526**	**.30850**	**.97292**	**.00901**
Stddev	.00107	.00135	.0050	.00031	.0176	.0077	.00103	.00606	.00004
%RSD	.54963	.77030	.17987	.48810	1.0030	.53200	.33479	.62299	.47327
#1	.19377	.17690	2.7679	.06358	1.7684	1.4439	.30757	.97565	.00906
#2	.19591	.17624	2.7589	.06421	1.7481	1.4585	.30961	.97714	.00899
#3	.19491	.17429	2.7670	.06391	1.7334	1.4555	.30831	.96597	.00899

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07116**	**.05434**	**1.3944**	**35.852**
Stddev	.00045	.00027	.0091	.184
%RSD	.63148	.50155	.65565	.51387
#1	.07093	.05411	1.3964	36.040
#2	.07167	.05464	1.4024	35.845
#3	.07087	.05428	1.3845	35.672

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S3 Acquired: 7/7/2025 12:38:40 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	4886.7	68031.	8868.6	4583.9	6703.0
Stddev	18.1	210.	88.9	14.8	21.1
%RSD	.37063	.30932	1.0030	.32233	.31421
#1	4906.5	67991.	8788.1	4567.7	6720.6
#2	4871.0	67843.	8853.7	4596.6	6679.7
#3	4882.5	68258.	8964.1	4587.4	6708.7

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S4 Acquired: 7/7/2025 12:42:47 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26447	.39071	1.2445	.36005	.73368	1.3000	21.705	2.5485	6.1058
Stddev	.00129	.00035	.0047	.00160	.00430	.0013	.256	.0060	.0257
%RSD	.48613	.08853	.37967	.44473	.58654	.10259	1.1815	.23436	.42021
#1	.26319	.39101	1.2409	.35903	.73033	1.3015	21.939	2.5433	6.0815
#2	.26446	.39079	1.2428	.35923	.73219	1.2994	21.745	2.5472	6.1033
#3	.26576	.39033	1.2498	.36190	.73853	1.2990	21.431	2.5550	6.1326

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2959	.28566	2.0685	.83794	.01470	1.9491	.46978	1.9465	.41329
Stddev	.0032	.00096	.0095	.00463	.00006	.0017	.00114	.0088	.00109
%RSD	.24572	.33434	.46146	.55245	.38808	.08496	.24373	.45320	.26473
#1	1.2970	.28524	2.0597	.83447	.01474	1.9501	.46868	1.9382	.41258
#2	1.2923	.28498	2.0670	.83616	.01463	1.9471	.46970	1.9454	.41275
#3	1.2984	.28675	2.0786	.84320	.01473	1.9499	.47096	1.9558	.41455

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.38981	.35957	5.5215	.12569	3.5566	2.9259	.61766	1.9709	.01850
Stddev	.00136	.00073	.0126	.00024	.0115	.0132	.00257	.0040	.00007
%RSD	.34885	.20255	.22873	.18740	.32310	.45207	.41557	.20156	.36656
#1	.39007	.35965	5.5167	.12549	3.5439	2.9154	.61512	1.9679	.01847
#2	.38834	.35880	5.5119	.12595	3.5596	2.9214	.61760	1.9694	.01846
#3	.39103	.36025	5.5358	.12565	3.5663	2.9407	.62025	1.9754	.01858

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14595	.11038	2.8340	73.208
Stddev	.00023	.00056	.0069	.207
%RSD	.15661	.50957	.24281	.28332
#1	.14571	.10978	2.8265	73.437
#2	.14599	.11046	2.8355	73.153
#3	.14616	.11090	2.8399	73.033

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S4 Acquired: 7/7/2025 12:42:47 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	4785.7	67073.	8656.2	4453.9	6498.2
Stddev	22.1	141.	4.6	6.7	26.5
%RSD	.46161	.21063	.05292	.15106	.40755
#1	4803.4	67009.	8660.7	4446.3	6523.7
#2	4792.9	67235.	8651.5	4458.9	6500.1
#3	4761.0	66975.	8656.5	4456.6	6470.8

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S5 Acquired: 7/7/2025 12:47:01 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.54499**	**.79163**	**2.5379**	**.74376**	**1.5071**	**2.6903**	**44.132**	**5.1751**	**12.428**
Stddev	.00215	.02131	.0089	.00223	.0059	.0028	.553	.0243	.045
%RSD	.39392	2.6922	.34869	.29934	.39287	.10450	1.2531	.46860	.36314
#1	.54310	.78753	2.5328	.74119	1.5023	2.6929	44.745	5.1947	12.403
#2	.54454	.81470	2.5329	.74508	1.5052	2.6907	43.670	5.1826	12.401
#3	.54732	.77267	2.5482	.74500	1.5137	2.6873	43.982	5.1480	12.480

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.6624**	**.55734**	**4.2294**	**1.6913**	**.02956**	**3.9976**	**.96468**	**3.9709**	**.82972**
Stddev	.0011	.00106	.0152	.0075	.00010	.0093	.00097	.0147	.00038
%RSD	.04255	.19100	.36003	.44361	.34593	.23252	.10086	.37090	.04624
#1	2.6613	.55856	4.2220	1.6865	.02945	4.0082	.96443	3.9627	.82928
#2	2.6636	.55664	4.2192	1.6874	.02958	3.9933	.96385	3.9621	.82988
#3	2.6623	.55680	4.2469	1.6999	.02966	3.9911	.96575	3.9879	.83000

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.79214**	**.74516**	**10.886**	**.25283**	**7.2770**	**5.8799**	**1.2495**	**4.1116**	**.03811**
Stddev	.00347	.00037	.030	.00104	.0361	.0204	.0018	.0028	.00026
%RSD	.43793	.04931	.27720	.41007	.49597	.34613	.14378	.06709	.67708
#1	.79130	.74493	10.856	.25264	7.2987	5.8598	1.2486	4.1089	.03790
#2	.78917	.74497	10.886	.25191	7.2969	5.8795	1.2484	4.1116	.03805
#3	.79596	.74559	10.916	.25396	7.2353	5.9005	1.2516	4.1144	.03840

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.30771**	**.23527**	**5.9744**	**148.81**
Stddev	.00025	.00072	.0077	.73
%RSD	.08202	.30666	.12934	.49354
#1	.30749	.23465	5.9768	148.31
#2	.30799	.23606	5.9658	149.66
#3	.30766	.23510	5.9806	148.47

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: S5 Acquired: 7/7/2025 12:47:01 Type: Cal
Method: 6010-200.7 NEW(v28) Mode: IR Corr. Factor: 1.000000
User: Jaswal 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	4547.5	65872.	8337.1	4326.3	6068.5
Stddev	9.0	133.	43.6	11.6	10.7
%RSD	.19727	.20187	.52347	.26856	.17618
#1	4548.3	65733.	8297.4	4333.0	6062.3
#2	4556.0	65998.	8330.1	4333.0	6080.8
#3	4538.1	65887.	8383.8	4312.9	6062.3

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICV01 Acquired: 7/7/2025 13:22:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.877255**	**3.671231**	**3.809608**	**3.893083**	**4.053470**	**7.478003**
Stddev	.007097	.058312	.008886	.018856	.008441	.038478
%RSD	.1830521	1.588346	.2332555	.4843348	.2082463	.5145481
#1	3.884961	3.736887	3.804695	3.907860	4.060503	7.435429
#2	3.870986	3.625470	3.804264	3.871846	4.044109	7.510297
#3	3.875817	3.651336	3.819866	3.899541	4.055798	7.488282

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.340033**	**.1887029**	**1.951702**	**18.56997**	**.8039431**	**1.964781**
Stddev	.037179	.0014049	.005810	.11034	.0016983	.005384
%RSD	.5065244	.7445094	.2976817	.5941984	.2112484	.2740265
#1	7.355493	.1874850	1.952087	18.44905	.8055790	1.965171
#2	7.366988	.1902399	1.945709	18.59569	.8021886	1.959212
#3	7.297619	.1883838	1.957310	18.66519	.8040618	1.969959

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9933767**	**4.055440**	**1.866357**	**18.69950**	**1.964954**	**1.019949**
Stddev	.0012860	.043930	.006872	.09403	.005639	.001989
%RSD	.1294564	1.083226	.3682246	.5028313	.2869852	.1949858
#1	.9934406	4.037085	1.861734	18.59574	1.965931	1.022212
#2	.9920600	4.023665	1.874254	18.72367	1.958891	1.019159
#3	.9946295	4.105570	1.863082	18.77908	1.970041	1.018477

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.37413**	**1.872307**	**1.993305**	**20.17737**	F **.0055173**	F **-.000648**
Stddev	.15113	.006764	.005587	.14041	.0003117	.000188
%RSD	.7417654	.3612652	.2802895	.6958880	5.649995	28.98720
#1	20.42733	1.864724	1.999677	20.21739	.0052741	-.000643
#2	20.20360	1.874478	1.989241	20.02130	.0054092	-.000838
#3	20.49147	1.877719	1.990999	20.29343	.0058687	-.000462

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICV01 Acquired: 7/7/2025 13:22:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000663	F -.002920	F -.068132	F .0007551	F .0183194	F .0026289
Stddev	.000799	.000496	.012728	.0010273	.0018077	.0013612
%RSD	120.4610	16.97019	18.68081	136.0522	9.867714	51.78014
#1	-.000799	-.003473	-.053817	.0013445	.0192801	.0011117
#2	-.001386	-.002772	-.072405	.0013519	.0162342	.0037434
#3	.000195	-.002516	-.078173	-.000431	.0194440	.0030315

Elem	Sr4077
Units	ppm
Avg	F -.003612
Stddev	.000060
%RSD	1.649385
#1	-.003559
#2	-.003599
#3	-.003677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4705.195	65189.15	9031.471	4449.352	6366.853
Stddev	6.848	143.54	59.907	9.422	4.410
%RSD	.1455459	.2201898	.6633088	.2117654	.0692686
#1	4699.510	65069.57	9082.951	4438.691	6361.796
#2	4703.276	65348.33	8965.716	4456.562	6369.902
#3	4712.797	65149.55	9045.745	4452.803	6368.859

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: LLICV01 Acquired: 7/7/2025 13:41:07 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0224653**	**.0385729**	**.0123463**	**.0201295**	**.0504573**	**.1020677**	**.0924587**
Stddev	.0003768	.0008962	.0008959	.0017780	.0006245	.0012010	.0005663
%RSD	1.677294	2.323494	7.256068	8.832617	1.237683	1.176654	.6125282
#1	.0221510	.0395760	.0130417	.0191108	.0498652	.1021455	.0921937
#2	.0223619	.0382917	.0126617	.0221825	.0503970	.1008298	.0920734
#3	.0228830	.0378510	.0113353	.0190952	.0511098	.1032279	.0931089

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058946**	**.0060288**	**1.955352**	**.0109669**	**.0297048**	**.0215715**	**.0961510**
Stddev	.0000484	.0000839	.013145	.0003853	.0001345	.0001534	.0083196
%RSD	.8202878	1.391747	.6722819	3.513089	.4527507	.7109539	8.652633
#1	.0059499	.0060222	1.953526	.0112766	.0296029	.0216650	.0908295
#2	.0058606	.0059484	1.969316	.0110887	.0298573	.0213945	.0918852
#3	.0058733	.0061158	1.943216	.0105355	.0296543	.0216549	.1057383

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204237**	**2.072086**	**.0415566**	**.0098253**	**1.999951**	**.0384679**	**.0426655**
Stddev	.0001470	.021148	.0001989	.0002345	.008743	.0027499	.0002179
%RSD	.7198275	1.020605	.4786221	2.386519	.4371605	7.148452	.5107945
#1	.0205062	2.048476	.0413294	.0097766	1.991288	.0405457	.0425176
#2	.0205108	2.089292	.0416410	.0096190	2.008772	.0353496	.0425632
#3	.0202539	2.078489	.0416993	.0100803	1.999794	.0395084	.0429158

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.808028**	**.0938532**	**.2023178**	**.0399506**	**.0365168**	**.3476573**	**.0215471**
Stddev	.023526	.0009022	.0002773	.0002586	.0017981	.0106831	.0024021
%RSD	1.301215	.9612311	.1370500	.6473733	4.923925	3.072878	11.14792
#1	1.816214	.0948268	.2021907	.0401925	.0352320	.3355717	.0243198
#2	1.826367	.0936872	.2021268	.0396780	.0385717	.3558408	.0202220
#3	1.781502	.0930456	.2026358	.0399814	.0357468	.3515592	.0200994

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: LLICV01 Acquired: 7/7/2025 13:41:07 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0238134	.0174229	.0197204
Stddev	.0026780	.0040105	.0000546
%RSD	11.24576	23.01850	.2767313
#1	.0237232	.0144992	.0197827
#2	.0265353	.0219949	.0196974
#3	.0211816	.0157746	.0196811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4765.691	67584.46	8923.649	4567.751	6620.240
Stddev	22.775	221.93	31.828	14.572	25.587
%RSD	.4779009	.3283766	.3566669	.3190141	.3864981
#1	4791.358	67840.31	8902.353	4582.885	6649.311
#2	4757.817	67443.91	8960.236	4553.815	6610.275
#3	4747.897	67469.17	8908.357	4566.553	6601.135

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICB01 Acquired: 7/7/2025 13:45:22 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**-.000155**	**-.001903**	**-.000364**	**-.001974**	**.0021025**	**.0294559**	**-.000038**
Stddev	.001447	.000106	.000114	.002592	.0014386	.0053335	.001903
%RSD	934.2348	5.574165	31.24604	131.3089	68.42588	18.10665	5037.727
#1	.001516	-.001815	-.000460	.001017	.0024901	.0240856	.001435
#2	-.000967	-.001874	-.000394	-.003365	.0005097	.0347518	.000639
#3	-.001014	-.002021	-.000238	-.003575	.0033076	.0295304	-.002186

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**.0000218**	**.0411977**	**.0003609**	**-.000093**	**.0003495**	**-.007151**
Stddev	.000025	.0000653	.0070085	.0000755	.000120	.0003955	.004268
%RSD	56.21311	300.0549	17.01192	20.90924	129.5015	113.1809	59.68622
#1	-.000016	.0000791	.0456423	.0004474	-.000039	.0004850	-.007324
#2	-.000056	-.000049	.0448324	.0003090	-.000009	.0006594	-.002799
#3	-.000061	.000035	.0331185	.0003262	-.000230	-.000096	-.011330

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034999**	**-.007410**	**.0002870**	**-.000226**	**-.020709**	**.0012277**	**.0010030**
Stddev	.0001089	.008105	.0002408	.000075	.009756	.0002343	.0001690
%RSD	3.112345	109.3800	83.89699	33.19710	47.10960	19.07974	16.84865
#1	.0036057	.001948	.0005163	-.000142	-.017902	.0010341	.0010182
#2	.0033881	-.011973	.0003085	-.000250	-.012665	.0014881	.0011640
#3	.0035059	-.012205	.0000362	-.000286	-.031561	.0011611	.0008270

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.210713**	**-.002142**	**-.000339**	**-.008567**	**-.000820**	**-.006621**	**.0058388**
Stddev	.025924	.000324	.000332	.000105	.000517	.004459	.0009011
%RSD	12.30300	15.14115	97.85133	1.224215	63.10811	67.34925	15.43236
#1	-.220526	-.002485	.000023	-.008503	-.001398	-.007794	.0051089
#2	-.230297	-.002102	-.000629	-.008688	-.000658	-.010376	.0055616
#3	-.181315	-.001840	-.000411	-.008510	-.000402	-.001692	.0068459

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICB01 Acquired: 7/7/2025 13:45:22 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000995	-.000823	.0000115
Stddev	.001778	.002180	.0000488
%RSD	178.5755	264.9922	422.9057
#1	-.002892	.001644	-.000034
#2	-.000728	-.001622	.000005
#3	.000633	-.002490	.000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4764.547	67045.48	8922.627	4570.773	6654.622
Stddev	11.915	265.51	53.753	20.335	17.021
%RSD	.2500748	.3960076	.6024326	.4448823	.2557814
#1	4777.143	66739.91	8862.814	4549.098	6667.883
#2	4753.455	67219.83	8966.893	4589.430	6635.428
#3	4763.045	67176.69	8938.173	4573.790	6660.554

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CRI01 Acquired: 7/7/2025 13:49:42 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0230102**	**.0421038**	**.0136832**	**.0191670**	**.0527275**	**.1087464**	**.0975426**
Stddev	.0013583	.0003548	.0010380	.0013000	.0003632	.0040937	.0017164
%RSD	5.903051	.8427233	7.586006	6.782424	.6888390	3.764448	1.759628
#1	.0240997	.0423523	.0136108	.0202700	.0530256	.1050395	.0983526
#2	.0234425	.0416975	.0147556	.0177338	.0523229	.1131400	.0955711
#3	.0214883	.0422617	.0126833	.0194973	.0528339	.1080597	.0987040

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060748**	**.0070811**	**2.021968**	**.0118430**	**.0306489**	**.0221409**	**.1166926**
Stddev	.0000608	.0000871	.008439	.0003640	.0001768	.0009358	.0036347
%RSD	1.000434	1.230222	.4173758	3.073725	.5768930	4.226579	3.114743
#1	.0061287	.0069889	2.012973	.0114369	.0306525	.0210607	.1142341
#2	.0060089	.0071620	2.023219	.0121400	.0304703	.0227058	.1208677
#3	.0060866	.0070926	2.029711	.0119522	.0308239	.0226562	.1149761

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0219119**	**2.102044**	**.0421185**	**.0105732**	**2.069429**	**.0424755**	**.0467405**
Stddev	.0003164	.016629	.0004276	.0002121	.024820	.0004165	.0000422
%RSD	1.443987	.7911058	1.015187	2.005674	1.199350	.9805882	.0902465
#1	.0218120	2.115434	.0420559	.0104826	2.049931	.0428342	.0467786
#2	.0216575	2.083429	.0417256	.0104215	2.097368	.0420187	.0466952
#3	.0222662	2.107267	.0425739	.0108155	2.060988	.0425735	.0467479

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.879685**	**.0955724**	**.2049649**	**.0371512**	**.0372607**	**.3514948**	**.0230235**
Stddev	.037551	.0010223	.0007737	.0004095	.0011227	.0058770	.0008769
%RSD	1.997727	1.069681	.3774792	1.102312	3.013106	1.672011	3.808867
#1	1.858760	.0967472	.2052429	.0368131	.0360680	.3476988	.0220871
#2	1.923036	.0948854	.2040906	.0370338	.0382971	.3582644	.0238254
#3	1.857258	.0950845	.2055611	.0376065	.0374169	.3485212	.0231579

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CRI01 Acquired: 7/7/2025 13:49:42 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.0244759**	**.0232624**	**.0201906**
Stddev	.0024762	.0027581	.0000505
%RSD	10.11699	11.85631	.2498855
#1	.0221066	.0230657	.0202468
#2	.0270467	.0261135	.0201755
#3	.0242743	.0206079	.0201493

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4999.390**	**68275.73**	**9082.947**	**4613.098**	**7046.594**
Stddev	19.299	37.39	62.209	11.864	17.917
%RSD	.3860221	.0547570	.6849031	.2571848	.2542587
#1	4985.699	68291.93	9019.022	4599.493	7035.446
#2	5021.463	68232.98	9143.285	4621.298	7067.261
#3	4991.009	68302.28	9086.533	4618.501	7037.075

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSA01 Acquired: 7/7/2025 13:53:58 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004185**	**-.000809**	**-.005451**	**.0082005**	**.0050009**	**241.3311**
Stddev	.000936	.002571	.002186	.0019773	.0013135	.5373
%RSD	22.37436	317.9774	40.10444	24.11150	26.26408	.2226577
#1	-.003489	-.002350	-.006527	.0093785	.0065129	240.7984
#2	-.003817	-.002236	-.006891	.0093054	.0043481	241.3220
#3	-.005250	.002160	-.002935	.0059178	.0041418	241.8729

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003690**	**.0005768**	**-.000042**	**231.3995**	**.0535807**	**.0005780**
Stddev	.001535	.0000887	.000047	.5375	.0004946	.0003874
%RSD	41.59813	15.38305	112.3536	.2322862	.9231561	67.02929
#1	-.003363	.0005757	-.000033	231.4858	.0533489	.0003019
#2	-.005362	.0004886	.000000	230.8241	.0541487	.0010209
#3	-.002344	.0006660	-.000092	231.8887	.0532446	.0004112

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108821**	**101.3525**	**.0067731**	**243.6735**	**.0159263**	**-.006956**
Stddev	.0003105	.0743	.0004920	.6356	.0002307	.000329
%RSD	2.853240	.0733498	7.264107	.2608513	1.448213	4.726121
#1	.0105977	101.4302	.0063823	243.6394	.0157614	-.007335
#2	.0108353	101.3455	.0066113	243.0556	.0161898	-.006783
#3	.0112133	101.2820	.0073256	244.3254	.0158275	-.006751

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1008105**	**.0042590**	**.0034182**	**.1326785**	F **.1962962**	**.0034505**
Stddev	.0049699	.0021209	.0001125	.0133891	.0009085	.0004038
%RSD	4.929905	49.79810	3.289869	10.09141	.4628021	11.70426
#1	.0972545	.0060704	.0033643	.1380260	.1952499	.0030119
#2	.1064892	.0019259	.0033429	.1174420	.1968839	.0038070
#3	.0986878	.0047806	.0035475	.1425675	.1967549	.0035325

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSA01 Acquired: 7/7/2025 13:53:58 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007750**	**-.004342**	**.0073808**	**.0101767**	**-.012371**	F **.0232342**
Stddev	.001115	.000834	.0031817	.0028652	.003028	.0028429
%RSD	14.38501	19.19799	43.10830	28.15476	24.47770	12.23570
#1	-.008473	-.003433	.0091877	.0134651	-.013966	.0209149
#2	-.006466	-.004522	.0037070	.0088474	-.014269	.0264057
#3	-.008310	-.005071	.0092476	.0082175	-.008879	.0223821

Elem	Sr4077
Units	ppm
Avg	**.0012270**
Stddev	.0004774
%RSD	38.90926
#1	.0006774
#2	.0015390
#3	.0014648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4346.649**	**62153.33**	**8783.501**	**4198.818**	**5678.685**
Stddev	14.743	95.60	27.178	2.657	20.721
%RSD	.3391890	.1538077	.3094240	.0632900	.3648834
#1	4342.585	62098.72	8768.567	4197.109	5682.203
#2	4362.998	62097.56	8814.871	4197.465	5697.421
#3	4334.364	62263.71	8767.064	4201.879	5656.430

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSAB01 Acquired: 7/7/2025 14:10:59 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0990771**	**.0787025**	**.0415387**	**.0530207**	**.6224896**	**237.9604**
Stddev	.0012141	.0019435	.0013437	.0053498	.0013048	.7050
%RSD	1.225414	2.469442	3.234917	10.09011	.2096098	.2962715
#1	.0999064	.0809137	.0400218	.0575985	.6239910	237.9223
#2	.0996414	.0779289	.0420145	.0543238	.6216301	238.6838
#3	.0976835	.0772650	.0425798	.0471396	.6218477	237.2753

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4546415**	**.4719311**	**.9924934**	**226.9550**	**.5583008**	**.5011230**
Stddev	.0026768	.0028348	.0014549	.7659	.0005999	.0007936
%RSD	.5887687	.6006778	.1465945	.3374718	.1074513	.1583684
#1	.4560609	.4716306	.9914337	227.0566	.5582120	.5002807
#2	.4563096	.4749041	.9941522	227.6651	.5577503	.5018567
#3	.4515539	.4692584	.9918941	226.1434	.5589402	.5012316

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4949657**	**102.7861**	**.4732953**	**238.0427**	**1.008158**	**.2084248**
Stddev	.0019164	.3837	.0017381	.8712	.000349	.0000933
%RSD	.3871804	.3733121	.3672389	.3659860	.0346345	.0447741
#1	.4928241	102.6350	.4723985	237.6828	1.007945	.2084751
#2	.4955538	102.5009	.4752987	239.0362	1.008561	.2083171
#3	.4965191	103.2223	.4721888	237.4091	1.007968	.2084822

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0167280**	**.4593802**	**1.047316**	**-.260288**	F **.2005791**	F **.0032455**
Stddev	.0117884	.0008118	.001921	.043386	.0016820	.0004086
%RSD	70.47093	.1767179	.1834682	16.66852	.8385890	12.59057
#1	.0303252	.4590282	1.049362	-.295935	.2001230	.0036240
#2	.0104799	.4603086	1.045550	-.211980	.1991722	.0028123
#3	.0093789	.4588038	1.047036	-.272951	.2024422	.0033001

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSAB01 Acquired: 7/7/2025 14:10:59 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.003648	F -.005444	F -.011794	F .0073610	F -.006147	F .0116037
Stddev	.001845	.001068	.008551	.0025510	.005137	.0001513
%RSD	50.58221	19.62718	72.50460	34.65612	83.57526	1.304012
#1	-.004709	-.006643	-.019899	.0051744	-.001859	.0117463
#2	-.004716	-.005097	-.012623	.0067449	-.004741	.0114450
#3	-.001517	-.004592	-.002858	.0101637	-.011841	.0116200

Elem	Sr4077
Units	ppm
Avg	F -.001523
Stddev	.000384
%RSD	25.20423
#1	-.001566
#2	-.001120
#3	-.001884

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4235.003	59412.41	8728.169	4064.719	5550.668
Stddev	3.221	49.99	64.252	13.828	6.703
%RSD	.0760601	.0841453	.7361444	.3401937	.1207687
#1	4238.411	59444.09	8727.827	4048.910	5553.063
#2	4234.590	59354.78	8664.089	4074.562	5543.096
#3	4232.008	59438.37	8792.592	4070.686	5555.845

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSADLX20 Acquired: 7/7/2025 14:15:03 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**-.000812**	**-.002023**	**.0000320**	**-.002669**	**.0004977**	**11.98517**	**-.002432**
Stddev	.001193	.000596	.0008703	.001713	.0012874	.04121	.000748
%RSD	146.9116	29.47025	2717.282	64.17925	258.6489	.3438543	30.75242
#1	-.000166	-.001389	.0010274	-.004404	.0009110	12.01748	-.002939
#2	-.002189	-.002106	-.000586	-.002625	.0015277	11.99928	-.001573
#3	-.000082	-.002572	-.000346	-.000979	-.000946	11.93876	-.002785

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000148**	**11.81359**	**.0076401**	**.0000625**	**.0012041**	**4.975193**
Stddev	.000052	.000011	.06348	.0004005	.0002488	.0001026	.037528
%RSD	279.3041	7.201659	.5373075	5.242374	398.2185	8.523703	.7543031
#1	.000037	-.000156	11.85673	.0077998	.0000493	.0011710	4.965332
#2	-.000066	-.000152	11.84333	.0079362	-.000179	.0013192	4.943580
#3	-.000026	-.000136	11.74070	.0071844	.000318	.0011222	5.016667

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005596**	**12.20178**	**.0035342**	**-.000444**	**-.005912**	**.0004384**	**.0006363**
Stddev	.0002067	.07639	.0000456	.000339	.005193	.0016459	.0002332
%RSD	36.92909	.6260447	1.290392	76.44775	87.83681	375.4713	36.65097
#1	.0007049	12.23799	.0035813	-.000140	-.009474	.0003140	.0008986
#2	.0003230	12.25333	.0035309	-.000810	-.008308	-.001142	.0004526
#3	.0006510	12.11402	.0034903	-.000381	.000046	.002143	.0005576

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.368615**	**.0068227**	**.0007112**	**-.006328**	**-.000346**	**-.000943**	**.0053595**
Stddev	.039175	.0005313	.0003240	.000394	.000265	.006379	.0014655
%RSD	10.62760	7.786816	45.55591	6.233794	76.75674	676.8267	27.34341
#1	-.412922	.0062250	.0003379	-.005979	-.000040	.004800	.0066976
#2	-.338565	.0070018	.0008770	-.006249	-.000515	-.007809	.0055876
#3	-.354357	.0072413	.0009189	-.006756	-.000483	.000182	.0037934

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSADLX20 Acquired: 7/7/2025 14:15:03 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0037395	-.002893	.0001151
Stddev	.0026001	.001706	.0000564
%RSD	69.53127	58.96069	48.99161
#1	.0042538	-.004276	.0001170
#2	.0060441	-.000987	.0001705
#3	.0009207	-.003417	.0000578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4665.540	66145.24	8917.305	4472.831	6461.877
Stddev	14.560	93.08	51.821	17.770	22.450
%RSD	.3120773	.1407227	.5811333	.3972947	.3474188
#1	4648.854	66207.33	8872.605	4470.912	6436.715
#2	4672.100	66190.18	8905.203	4491.482	6469.059
#3	4675.666	66038.22	8974.106	4456.097	6479.856

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSABDLX20 Acquired: 7/7/2025 14:19:20 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	.0047231	.0024124	.0023502	.0009562	.0294014	12.22146	.0237131
Stddev	.0024925	.0014903	.0010236	.0023808	.0007189	.02516	.0021003
%RSD	52.77381	61.77738	43.55333	248.9853	2.445236	.2059060	8.857194
#1	.0018762	.0039546	.0031366	.0035387	.0298511	12.24072	.0259629
#2	.0057798	.0009800	.0027211	.0004813	.0285723	12.19298	.0218039
#3	.0065131	.0023027	.0011928	-.001151	.0297810	12.23067	.0233724

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0246438	.0485022	12.08185	.0293270	.0244335	.0257582	5.096924
Stddev	.0002660	.0002481	.06138	.0003121	.0001237	.0003481	.018223
%RSD	1.079395	.5114929	.5080684	1.064324	.5061190	1.351327	.3575277
#1	.0249438	.0484956	12.15160	.0296304	.0243994	.0259366	5.077956
#2	.0244369	.0482574	12.05794	.0290068	.0243305	.0253570	5.098519
#3	.0245506	.0487535	12.03602	.0293438	.0245706	.0259809	5.114297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244932	12.52471	.0501815	.0113724	-.005528	.0263737	.0516711
Stddev	.0003329	.07845	.0002972	.0002997	.015222	.0024599	.0005242
%RSD	1.359322	.6263952	.5923497	2.635266	275.3526	9.326968	1.014575
#1	.0242856	12.61447	.0505080	.0111787	-.020972	.0283234	.0510794
#2	.0248772	12.46926	.0501101	.0117176	.009462	.0271877	.0518565
#3	.0243167	12.49039	.0499265	.0112209	-.005074	.0236100	.0520775

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.400706	.0555758	.0506171	.0423043	.0480904	.0542939	.0041820
Stddev	.015196	.0005030	.0003362	.0001005	.0008590	.0060821	.0017424
%RSD	3.792317	.9050148	.6642465	.2374894	1.786245	11.20227	41.66478
#1	-.411182	.0560011	.0502289	.0422020	.0479847	.0556716	.0056616
#2	-.407658	.0550206	.0508116	.0424028	.0489974	.0476411	.0022615
#3	-.383277	.0557057	.0508108	.0423082	.0472892	.0595690	.0046228

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: ICSABDLX20 Acquired: 7/7/2025 14:19:20 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0026244	-.002694	.0000898
Stddev	.0022479	.001631	.0000399
%RSD	85.65062	60.55275	44.39701
#1	.0000944	-.004278	.0000440
#2	.0033875	-.001020	.0001165
#3	.0043914	-.002783	.0001088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4850.213	65298.28	8862.149	4448.817	6778.871
Stddev	4.200	43.01	66.266	3.691	12.860
%RSD	.0865950	.0658693	.7477445	.0829661	.1897003
#1	4847.148	65249.85	8785.803	4446.233	6774.574
#2	4855.000	65332.03	8904.764	4447.174	6793.328
#3	4848.491	65312.95	8895.879	4453.044	6768.709

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV01 Acquired: 7/7/2025 14:38:17 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**5.116583**	**5.094746**	**5.054831**	**5.090002**	**5.082065**	**9.889081**	**9.862711**
Stddev	.007476	.037976	.020860	.001439	.005346	.027429	.111805
%RSD	.1461178	.7453976	.4126666	.0282804	.1051949	.2773716	1.133615
#1	5.108105	5.090605	5.035406	5.091483	5.075923	9.916279	9.854326
#2	5.119416	5.134623	5.052211	5.088609	5.084605	9.889538	9.755335
#3	5.122230	5.059010	5.076877	5.089913	5.085668	9.861425	9.978473

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2465961**	**2.545474**	**24.65298**	**1.011212**	**2.527295**	**1.280270**	**5.028338**
Stddev	.0012797	.009277	.06223	.001781	.008650	.002991	.013105
%RSD	.5189261	.3644519	.2524267	.1761473	.3422494	.2335842	.2606321
#1	.2480441	2.536511	24.71351	1.013248	2.519236	1.277097	5.018512
#2	.2456175	2.544875	24.65627	1.009942	2.526215	1.280677	5.043218
#3	.2461265	2.555036	24.58918	1.010445	2.536434	1.283036	5.023284

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.458390**	**24.35697**	**2.541519**	**1.248267**	**25.67006**	**2.449464**	**2.532140**
Stddev	.014143	.00909	.008380	.000450	.03855	.010761	.010528
%RSD	.5752846	.0373382	.3297080	.0360487	.1501869	.4393349	.4157563
#1	2.473605	24.36483	2.533714	1.248756	25.65351	2.460005	2.523475
#2	2.455922	24.34701	2.540469	1.248174	25.71412	2.449892	2.529089
#3	2.445644	24.35908	2.550374	1.247871	25.64255	2.438495	2.543856

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.46028**	**4.882376**	**4.998868**	**5.056669**	**4.902218**	**4.970264**	**4.522900**
Stddev	.11139	.020882	.005398	.019549	.008470	.023079	.005255
%RSD	.4375009	.4276914	.1079851	.3866016	.1727876	.4643399	.1161913
#1	25.35398	4.901744	4.992682	5.040131	4.910569	4.993577	4.527812
#2	25.57614	4.860254	5.002621	5.051632	4.893633	4.969790	4.517358
#3	25.45074	4.885130	5.001302	5.078244	4.902452	4.947426	4.523530

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV01 Acquired: 7/7/2025 14:38:17 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.936820**	**4.922509**	**5.016730**
Stddev	.012312	.003576	.045358
%RSD	.2493927	.0726471	.9041437
#1	4.925352	4.924640	5.062913
#2	4.935277	4.918381	5.015032
#3	4.949831	4.924508	4.972244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4531.031**	**66381.46**	**8718.896**	**4433.842**	**6098.096**
Stddev	6.977	186.77	56.581	20.825	14.044
%RSD	.1539923	.2813562	.6489415	.4696798	.2303053
#1	4538.712	66166.57	8657.335	4451.244	6111.545
#2	4529.298	66504.65	8768.626	4439.512	6099.219
#3	4525.083	66473.17	8730.727	4410.769	6083.524

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB01 Acquired: 7/7/2025 14:42:29 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0020148**	**-.000754**	**.0002193**	**-.005125**	**.0010564**	**.0030866**	**-.001749**
Stddev	.0003963	.001028	.0008215	.003579	.0004463	.0043630	.001437
%RSD	19.67163	136.2750	374.5218	69.83472	42.24613	141.3501	82.15745
#1	.0020138	.000432	-.000685	-.001186	.0007556	-.001929	-.003407
#2	.0016189	-.001322	.000920	-.006013	.0015692	.005187	-.000883
#3	.0024115	-.001372	.000423	-.008177	.0008445	.006002	-.000956

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000062**	**.0000580**	**.0269770**	**.0003831**	**-.000059**	**.0003597**	**-.002736**
Stddev	.000015	.0000407	.0076837	.0004127	.000118	.0005781	.007597
%RSD	24.49923	70.26372	28.48240	107.7118	199.5163	160.6901	277.7156
#1	-.000066	.0000134	.0239892	-.000087	-.000039	.0005407	-.011148
#2	-.000075	.0000933	.0212360	.000550	-.000187	.0008257	.003624
#3	-.000045	.0000672	.0357058	.000686	.000047	-.000287	-.000683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016053**	**.0117113**	**.0003517**	**.0001137**	**.0108167**	**.0020051**	**.0081080**
Stddev	.0003818	.0035695	.0002516	.0002073	.0075663	.0017633	.0001736
%RSD	23.78168	30.47930	71.52352	182.2618	69.95050	87.94379	2.140751
#1	.0012464	.0077042	.0003707	.0002799	.0192651	.0007868	.0080468
#2	.0020064	.0145509	.0000912	.0001797	.0046646	.0012013	.0079733
#3	.0015632	.0128787	.0005933	-.000118	.0085203	.0040271	.0083038

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.281313**	**.0060492**	**.0012017**	**-.005598**	**.0000125**	**.0036832**	**.0077665**
Stddev	.029689	.0007424	.0001496	.000617	.0006431	.0034139	.0020861
%RSD	10.55387	12.27341	12.44712	11.02024	5137.188	92.68836	26.86037
#1	-.274512	.0068983	.0011706	-.006226	-.000380	.0075895	.0054796
#2	-.313813	.0057271	.0010701	-.005575	-.000337	.0012711	.0082548
#3	-.255615	.0055223	.0013644	-.004993	.000755	.0021891	.0095652

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB01 Acquired: 7/7/2025 14:42:29 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0042986	.0016310	.0003294
Stddev	.0021763	.0024932	.0000377
%RSD	50.62697	152.8592	11.44417
#1	.0067371	.0013916	.0002911
#2	.0025535	-.000734	.0003306
#3	.0036053	.004235	.0003665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4717.008	65720.27	8874.454	4476.989	6571.736
Stddev	8.789	42.77	46.726	22.223	12.615
%RSD	.1863341	.0650747	.5265225	.4963840	.1919618
#1	4709.366	65689.57	8858.976	4474.085	6558.258
#2	4726.613	65702.13	8926.954	4500.522	6583.260
#3	4715.044	65769.12	8837.430	4456.361	6573.690

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2491-01 Acquired: 7/7/2025 14:46:49 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231592	-.010585	.2569105	.0098079	.0046407	115.6690	.5157488
Stddev	.0019052	.001127	.0030041	.0018584	.0012036	.1769	.0004882
%RSD	8.226432	10.64298	1.169302	18.94756	25.93563	.1529097	.0946517
#1	.0220836	-.011150	.2541813	.0104389	.0040729	115.4813	.5162042
#2	.0220350	-.011318	.2601293	.0112686	.0038260	115.6933	.5158087
#3	.0253589	-.009288	.2564210	.0077162	.0060231	115.8325	.5152334

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063208	.0018042	54.54548	.1422447	.1100627	.2966411	260.0037
Stddev	.0000863	.0001174	.04025	.0001093	.0009270	.0021642	1.6523
%RSD	1.364924	6.508061	.0737989	.0768315	.8422192	.7295671	.6354945
#1	.0063484	.0017469	54.56842	.1423692	.1090576	.2956482	261.1168
#2	.0062241	.0017264	54.49900	.1421648	.1102465	.2951516	260.7891
#3	.0063899	.0019392	54.56901	.1421999	.1108840	.2991236	258.1051

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.878934	30.87209	.2065639	-.014434	9.780973	.3850944	.4829282
Stddev	.021476	.03501	.0003726	.000465	.048035	.0019482	.0017644
%RSD	.5536595	.1134008	.1803734	3.222662	.4911016	.5059122	.3653532
#1	3.861200	30.85222	.2064449	-.014629	9.788583	.3859526	.4812256
#2	3.872789	30.85154	.2069815	-.013903	9.824749	.3828644	.4847485
#3	3.902813	30.91251	.2062654	-.014770	9.729588	.3864661	.4828104

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.490402	.5586449	.0047491	.0094611	3.705771	3.140394	5.855204
Stddev	.078396	.0061868	.0001832	.0005440	.002099	.003875	.015720
%RSD	.8260531	1.107473	3.858436	5.749966	.0566327	.1233931	.2684859
#1	9.531044	.5629437	.0047098	.0088543	3.705599	3.139330	5.855797
#2	9.540132	.5614368	.0045887	.0096238	3.707951	3.137162	5.839196
#3	9.400031	.5515541	.0049489	.0099052	3.703764	3.144690	5.870620

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2491-01 Acquired: 7/7/2025 14:46:49 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.587772**	**.1994202**	**.0352343**
Stddev	.006384	.0022309	.0031728
%RSD	.1391494	1.118677	9.004955
#1	4.595002	.1972881	.0327254
#2	4.585403	.1992345	.0341767
#3	4.582912	.2017382	.0388009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5381.835**	**76223.46**	**11170.43**	**5162.652**	**6088.894**
Stddev	13.706	52.02	57.84	14.204	14.252
%RSD	.2546736	.0682462	.5177843	.2751246	.2340642
#1	5389.857	76172.50	11188.14	5174.084	6102.699
#2	5389.639	76221.40	11217.34	5146.751	6089.749
#3	5366.009	76276.48	11105.80	5167.121	6074.234

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-01DLX5 Acquired: 7/7/2025 14:50:52 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1545589**	**-.045729**	**.1280008**	**-.012604**	**.2388942**	**172.0782**
Stddev	.0043032	.002580	.0031433	.005489	.0020803	.0704
%RSD	2.784199	5.641751	2.455703	43.55039	.8708172	.0409018
#1	.1536204	-.043291	.1302878	-.012160	.2395053	172.0109
#2	.1592540	-.048430	.1292982	-.018301	.2365767	172.1513
#3	.1508024	-.045465	.1244165	-.007350	.2406005	172.0724

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0932115**	**.0028509**	**.0004929**	**642.0080**	F **51.89568**	**.6706724**
Stddev	.0004461	.0001844	.0003114	3.2072	.06527	.0016937
%RSD	.4786030	6.467631	63.18910	.4995553	.1257732	.2525313
#1	.0937233	.0029121	.0005554	645.0700	51.87930	.6693719
#2	.0930056	.0029970	.0001549	638.6730	51.96758	.6700577
#3	.0929054	.0026437	.0007683	642.2809	51.84016	.6725875

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3170339**	**458.8445**	**3.768532**	**119.9807**	**2.055219**	**-.037052**
Stddev	.0076284	2.0361	.008937	.0386	.007156	.001244
%RSD	2.406176	.4437378	.2371570	.0321341	.3481649	3.357407
#1	.3144021	457.3145	3.770165	119.9363	2.047731	-.037137
#2	.3110698	461.1554	3.758891	120.0058	2.055936	-.035768
#3	.3256297	458.0635	3.776541	120.0001	2.061988	-.038252

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9213446**	**4.309832**	**1.972226**	**.1969430**	**.9089793**	**-.000383**
Stddev	.0085221	.007078	.005598	.0321805	.0080904	.001064
%RSD	.9249656	.1642387	.2838405	16.34003	.8900529	277.8211
#1	.9295508	4.318004	1.966105	.2248603	.9022338	-.001519
#2	.9125383	4.305599	1.977087	.2042224	.9179492	-.000220
#3	.9219448	4.305894	1.973486	.1617463	.9067548	.000590

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-01DLX5 Acquired: 7/7/2025 14:50:52 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073364	7.673047	4.035963	.3072250	2.750761	.1285118
Stddev	.0006762	.013885	.045642	.0070998	.004442	.0025746
%RSD	9.216546	.1809529	1.130887	2.310949	.1614724	2.003372
#1	.0074915	7.671639	4.019739	.2993192	2.749893	.1270432
#2	.0079216	7.687582	4.087501	.3130570	2.746817	.1314846
#3	.0065962	7.659920	4.000649	.3092988	2.755573	.1270075

Elem	Sr4077
Units	ppm
Avg	-.083364
Stddev	.002456
%RSD	2.946711
#1	-.082371
#2	-.086162
#3	-.081560

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3238.260	60411.39	8721.988	4001.477	5479.643
Stddev	13.943	134.97	15.742	14.001	10.582
%RSD	.4305628	.2234251	.1804898	.3498953	.1931211
#1	3245.314	60465.32	8703.983	4012.946	5485.979
#2	3247.267	60257.79	8733.155	3985.874	5485.524
#3	3222.200	60511.06	8728.825	4005.610	5467.427

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2478-01 Acquired: 7/7/2025 14:55:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0218293**	**-.005957**	**.4031208**	**.0043460**	**.0023990**	**96.38551**	**.4051234**
Stddev	.0009431	.000752	.0016305	.0049066	.0022913	.08232	.0014076
%RSD	4.320525	12.61644	.4044631	112.8994	95.51016	.0854119	.3474521
#1	.0221672	-.006546	.4041058	.0086737	-.000157	96.42491	.4058850
#2	.0225569	-.006214	.4040178	-.000985	.004270	96.44073	.4059861
#3	.0207638	-.005110	.4012387	.005349	.003084	96.29089	.4034991

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053681**	**.0008144**	**36.07374**	**.1136699**	**.0851641**	**.2112321**	**199.5052**
Stddev	.0000929	.0000441	.03654	.0008361	.0002632	.0006246	1.4832
%RSD	1.729799	5.419729	.1012869	.7355904	.3090490	.2957031	.7434418
#1	.0053685	.0007677	36.06618	.1130932	.0853202	.2113779	200.2451
#2	.0054608	.0008554	36.11346	.1132876	.0848602	.2117710	197.7976
#3	.0052750	.0008199	36.04156	.1146288	.0853119	.2105475	200.4729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.247197**	**27.03617**	**.1528972**	**-.012281**	**6.440467**	**.2576026**	**.4016975**
Stddev	.006385	.06692	.0003923	.000511	.050517	.0025379	.0011259
%RSD	.1966316	.2475114	.2565963	4.157892	.7843653	.9851972	.2802795
#1	3.254036	27.11298	.1528721	-.012293	6.446239	.2600660	.4007934
#2	3.241392	26.99052	.1525180	-.011765	6.387313	.2549963	.4013404
#3	3.246163	27.00499	.1533015	-.012786	6.487850	.2577454	.4029586

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.505786**	**.4060874**	**.0031334**	**.0089090**	**3.040550**	**4.777195**	**4.867670**
Stddev	.065681	.0050735	.0003107	.0008343	.005444	.033468	.017872
%RSD	1.192946	1.249371	9.914304	9.364116	.1790533	.7005881	.3671622
#1	5.570891	.4094225	.0034322	.0086733	3.041859	4.799964	4.887900
#2	5.439544	.4002486	.0028121	.0082179	3.045220	4.738768	4.861085
#3	5.506923	.4085910	.0031560	.0098357	3.034571	4.792854	4.854024

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2478-01 Acquired: 7/7/2025 14:55:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6194278	.1532574	-.037015
Stddev	.0049800	.0027117	.001262
%RSD	.8039685	1.769350	3.408685
#1	.6250030	.1561484	-.037291
#2	.6154202	.1507703	-.035638
#3	.6178601	.1528537	-.038116

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5233.861	72779.52	10257.87	4925.195	6410.121
Stddev	12.720	567.76	19.94	16.907	14.838
%RSD	.2430413	.7801123	.1943887	.3432705	.2314795
#1	5221.345	72741.48	10280.89	4923.268	6394.607
#2	5246.777	73365.34	10246.58	4942.982	6424.175
#3	5233.460	72231.73	10246.14	4909.334	6411.580

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2381-08 Acquired: 7/7/2025 14:59:15 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005970	-.004563	.0494025	-.002048	.0019748	.0545569	.6647735
Stddev	.001314	.000685	.0005063	.001538	.0025358	.0035263	.0066198
%RSD	22.01401	15.00771	1.024879	75.06231	128.4074	6.463580	.9958023
#1	-.004691	-.005126	.0495715	-.003011	.0015393	.0539338	.6572564
#2	-.007317	-.003800	.0498027	-.000275	-.000315	.0513836	.6673314
#3	-.005903	-.004761	.0488333	-.002859	.004700	.0583532	.6697327

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000130	.0027989	15.47772	.0011310	.0010811	.0112126	.0211014
Stddev	.000036	.0000459	.17754	.0001364	.0001500	.0002491	.0108820
%RSD	27.48582	1.641595	1.147069	12.05661	13.87442	2.221260	51.57023
#1	-.000137	.0028128	15.28235	.0010319	.0012463	.0112603	.0235438
#2	-.000162	.0027476	15.52158	.0010746	.0010435	.0109432	.0092057
#3	-.000091	.0028362	15.62921	.0012865	.0009535	.0114344	.0305547

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744614	2.549241	.0024955	-.000081	365.7478	.0017957	.5541060
Stddev	.0025439	.027681	.0002765	.000171	.7761	.0012344	.0007782
%RSD	1.458144	1.085854	11.08024	210.2995	.2121828	68.74130	.1404502
#1	.1715240	2.526309	.0023137	-.000076	366.1734	.0027227	.5539055
#2	.1759424	2.541424	.0023591	-.000254	364.8520	.0022698	.5534476
#3	.1759177	2.579990	.0028137	.000087	366.2179	.0003945	.5549648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.180488	.1807026	.0001521	-.016416	.0004029	1.547993	.0493519
Stddev	.036972	.0030609	.0003294	.000478	.0002418	.001113	.0016662
%RSD	1.162464	1.693888	216.5996	2.914831	60.00590	.0719061	3.376132
#1	3.143506	.1773111	-.000219	-.015937	.0001241	1.546917	.0492390
#2	3.180509	.1832598	.000267	-.016894	.0005543	1.547921	.0477450
#3	3.217450	.1815370	.000408	-.016417	.0005304	1.549140	.0510716

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2381-08 Acquired: 7/7/2025 14:59:15 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.022042	-.007734	.0912877
Stddev	.007747	.000690	.0011682
%RSD	.7580238	8.923790	1.279684
#1	1.015444	-.007843	.0899479
#2	1.020108	-.008363	.0920932
#3	1.030573	-.006996	.0918219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4562.149	61855.90	9278.192	4222.433	6072.684
Stddev	4.097	59.33	134.721	1.958	2.349
%RSD	.0898126	.0959224	1.452017	.0463717	.0386815
#1	4557.972	61842.50	9433.293	4223.604	6075.373
#2	4566.161	61920.78	9211.005	4223.522	6071.651
#3	4562.315	61804.40	9190.278	4220.172	6071.028

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2398-09 Acquired: 7/7/2025 15:03:38 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003933	-.004390	12.46869	-.003603	.0016510	.0275086	.2567570
Stddev	.000551	.000432	.03565	.001209	.0006188	.0027906	.0008789
%RSD	14.01826	9.842188	.2859547	33.56672	37.47924	10.14439	.3422938
#1	-.004446	-.003930	12.50535	-.002460	.0020932	.0306489	.2569749
#2	-.004003	-.004454	12.46658	-.004869	.0009439	.0253130	.2575064
#3	-.003350	-.004787	12.43413	-.003479	.0019160	.0265639	.2557896

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000155	.0014332	74.67192	.0001901	.0029300	.0479032	.0024851
Stddev	.000029	.0000334	.15120	.0005446	.0001548	.0007422	.0069264
%RSD	18.65856	2.328097	.2024798	286.4415	5.283781	1.549387	278.7139
#1	-.000181	.0014206	74.84642	.0007561	.0028043	.0475285	-.004344
#2	-.000124	.0014711	74.57980	-.000330	.0028827	.0474231	.002294
#3	-.000161	.0014080	74.58955	.000145	.0031029	.0487581	.009505

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1669226	3.304659	.0057683	-.000400	274.4582	-.000477	.9116223
Stddev	.0012710	.014162	.0003257	.000332	3.6939	.003004	.0114210
%RSD	.7614076	.4285442	5.646300	83.02441	1.345894	629.5399	1.252822
#1	.1683898	3.296042	.0055026	-.000215	277.4029	-.003717	.9177298
#2	.1661587	3.296932	.0061316	-.000784	270.3135	.002214	.8984461
#3	.1662194	3.321004	.0056707	-.000202	275.6583	.000072	.9186910

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.718139	.1596078	.0004512	-.017722	-.002072	3.719955	.0319606
Stddev	.060837	.0011393	.0002038	.000798	.000999	.040302	.0015894
%RSD	.9055640	.7138108	45.15889	4.502751	48.20441	1.083414	4.972902
#1	6.768897	.1607194	.0002200	-.016894	-.002690	3.763205	.0316561
#2	6.734816	.1584427	.0005291	-.017785	-.000920	3.683452	.0336802
#3	6.650702	.1596613	.0006046	-.018486	-.002605	3.713207	.0305455

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2398-09 Acquired: 7/7/2025 15:03:38 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.743866	-.009419	.3928367
Stddev	.003742	.002717	.0013175
%RSD	.2145582	28.84371	.3353767
#1	1.743029	-.010766	.3942313
#2	1.747955	-.006292	.3916130
#3	1.740614	-.011200	.3926657

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4532.399	63151.52	9222.658	4290.464	6015.949
Stddev	6.060	708.96	53.257	49.924	18.466
%RSD	.1336961	1.122632	.5774628	1.163598	.3069435
#1	4528.063	62534.37	9182.713	4264.300	6001.553
#2	4529.811	63925.89	9283.123	4348.032	6009.526
#3	4539.323	62994.32	9202.138	4259.060	6036.769

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-02 Acquired: 7/7/2025 15:07:59 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0236715**	**-.002949**	**.0001092**	**-.002405**	**-.004778**	**.0251678**	**.0658933**
Stddev	.0007824	.000341	.0003790	.001627	.000663	.0060404	.0010605
%RSD	3.305369	11.57340	347.0943	67.63426	13.87710	24.00037	1.609493
#1	.0244272	-.003068	.0001715	-.001082	-.004993	.0186159	.0650380
#2	.0237226	-.003214	-.000297	-.004222	-.004034	.0263724	.0655619
#3	.0228648	-.002564	.000453	-.001912	-.005306	.0305150	.0670800

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000276**	**.0002249**	**127.7986**	**7.594796**	**.0006745**	**.0013366**	**.0063670**
Stddev	.000008	.0000551	.2470	.011274	.0002580	.0002036	.0010282
%RSD	2.883558	24.48856	.1932608	.1484469	38.24482	15.22970	16.14885
#1	-.000268	.0002884	128.0386	7.583451	.0009660	.0011024	.0053307
#2	-.000277	.0001898	127.5452	7.594938	.0004755	.0014363	.0063834
#3	-.000284	.0001966	127.8122	7.605999	.0005820	.0014711	.0073869

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000301**	**6.443382**	**-.000166**	**.0000056**	**288.7401**	**-.009769**	**.0039179**
Stddev	.000222	.055949	.000088	.0005828	.5461	.003783	.0001468
%RSD	73.81659	.8683151	53.10914	10497.56	.1891170	38.72308	3.747547
#1	-.000426	6.507899	-.000267	.0002585	288.3090	-.011086	.0037494
#2	-.000433	6.408229	-.000105	-.000661	288.5572	-.012717	.0040184
#3	-.000045	6.414017	-.000126	.000419	289.3542	-.005504	.0039860

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.216729**	**.0252389**	**.0014017**	**-.017254**	**-.004454**	**.8637665**	**.0300273**
Stddev	.024298	.0004055	.0001620	.000518	.002269	.0126720	.0003837
%RSD	1.997007	1.606528	11.55689	3.003229	50.93450	1.467063	1.277935
#1	1.220805	.0250049	.0014846	-.016730	-.004836	.8700082	.0298376
#2	1.190650	.0250047	.0015055	-.017766	-.006508	.8721069	.0304689
#3	1.238731	.0257071	.0012150	-.017265	-.002019	.8491844	.0297754

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-02 Acquired: 7/7/2025 15:07:59 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.744921**	**-.021501**	**.5585119**
Stddev	.024160	.001581	.0013869
%RSD	.4205496	7.354390	.2483242
#1	5.752141	-.020091	.5591507
#2	5.764649	-.023210	.5569207
#3	5.717974	-.021202	.5594643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4335.054**	**63808.44**	**9092.785**	**4272.413**	**5953.800**
Stddev	12.755	115.14	32.173	14.752	22.898
%RSD	.2942304	.1804516	.3538326	.3452809	.3845963
#1	4322.156	63931.66	9056.088	4285.889	5933.702
#2	4335.343	63790.08	9106.126	4256.652	5948.971
#3	4347.661	63703.58	9116.143	4274.697	5978.728

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2474-01 Acquired: 7/7/2025 15:12:22 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000959**	**-.003835**	**.0444464**	**-.002177**	**.0013900**	**.0551867**	**.3814201**
Stddev	.000687	.001494	.0005638	.001802	.0012310	.0031750	.0025046
%RSD	71.60894	38.95824	1.268534	82.80734	88.56103	5.753120	.6566578
#1	-.000341	-.002678	.0450216	-.001062	.0004021	.0544469	.3841150
#2	-.000838	-.005522	.0438947	-.001211	.0027691	.0586663	.3809818
#3	-.001698	-.003306	.0444229	-.004256	.0009989	.0524470	.3791636

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000245**	**.0100827**	**5.166584**	**1.137447**	**.0048024**	**.0344438**	**.0266580**
Stddev	.000029	.0001238	.006312	.003438	.0003891	.0005539	.0103116
%RSD	11.63784	1.227382	.1221653	.3022833	8.103042	1.608022	38.68104
#1	-.000269	.0100959	5.173244	1.141411	.0050251	.0342230	.0330598
#2	-.000213	.0099529	5.165816	1.135653	.0043531	.0340343	.0147628
#3	-.000253	.0101994	5.160691	1.135276	.0050291	.0350740	.0321515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3877653**	**.3912807**	**.0358726**	**-.000194**	**351.6812**	**-.001059**	**5.198751**
Stddev	.0011748	.0095337	.0005579	.000279	1.7165	.001930	.011093
%RSD	.3029654	2.436537	1.555344	143.5464	.4880865	182.1659	.2133695
#1	.3889167	.4015882	.0360051	-.000310	349.7921	-.002169	5.190553
#2	.3865685	.3827792	.0352603	-.000396	352.1062	-.002177	5.194327
#3	.3878108	.3894746	.0363523	.000124	353.1452	.001169	5.211372

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.113514**	**.0873403**	**-.001873**	**-.015232**	**-.001185**	**.2364988**	**.0253022**
Stddev	.069771	.0007266	.000164	.000205	.000182	.0045814	.0027317
%RSD	3.301175	.8319017	8.745576	1.342587	15.40290	1.937180	10.79642
#1	2.134942	.0880839	-.002002	-.015468	-.000999	.2401151	.0284454
#2	2.170057	.0866320	-.001689	-.015116	-.001191	.2313468	.0235020
#3	2.035542	.0873050	-.001928	-.015112	-.001364	.2380346	.0239591

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2474-01 Acquired: 7/7/2025 15:12:22 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8049814	-.008666	.0200472
Stddev	.0082308	.001077	.0000384
%RSD	1.022477	12.43131	.1913764
#1	.8081828	-.009869	.0200764
#2	.7956310	-.007790	.0200615
#3	.8111305	-.008338	.0200038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4678.443	64503.24	9448.819	4327.174	6332.952
Stddev	19.697	276.15	55.668	7.023	32.318
%RSD	.4210212	.4281257	.5891492	.1623042	.5103170
#1	4680.253	64198.01	9390.563	4333.702	6330.433
#2	4697.172	64575.95	9454.421	4328.077	6366.456
#3	4657.903	64735.77	9501.474	4319.743	6301.967

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2478-04 Acquired: 7/7/2025 15:16:45 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003787**	**-.003108**	**.0044900**	**-.001799**	**.0003249**	**.0524875**	**.2547289**
Stddev	.000601	.000566	.0008435	.001422	.0002024	.0071873	.0008026
%RSD	15.85662	18.20912	18.78506	79.05218	62.29440	13.69342	.3150626
#1	-.003972	-.002466	.0046572	-.002405	.0001531	.0578880	.2552240
#2	-.004274	-.003324	.0035755	-.002819	.0002737	.0552446	.2551598
#3	-.003116	-.003535	.0052374	-.000174	.0005480	.0443298	.2538030

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000133**	**.0001448**	**15.45690**	**.0008741**	**-.000321**	**.0029499**	**-.001509**
Stddev	.000055	.0000627	.03404	.0000536	.000275	.0006005	.002008
%RSD	41.20471	43.34225	.2202402	6.128231	85.87892	20.35621	133.0904
#1	-.000105	.0001823	15.47898	.0008209	-.000012	.0025862	.000689
#2	-.000197	.0001797	15.41770	.0008733	-.000541	.0026205	-.001967
#3	-.000099	.0000723	15.47402	.0009280	-.000408	.0036430	-.003248

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0657981**	**1.015828**	**.0014124**	**-.000294**	**290.1425**	**.0026604**	**.0773884**
Stddev	.0005009	.008102	.0002630	.000389	1.7493	.0005176	.0003372
%RSD	.7613259	.7975883	18.62366	132.5810	.6028947	19.45734	.4357155
#1	.0655974	1.022307	.0012297	-.000242	291.9673	.0031904	.0770053
#2	.0654287	1.006744	.0017139	-.000707	289.9800	.0021561	.0776403
#3	.0663683	1.018433	.0012936	.000067	288.4801	.0026347	.0775196

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.178840**	**.0298300**	**.0002146**	**-.016020**	**-.000141**	**1.077866**	**.0338899**
Stddev	.028305	.0003409	.0000703	.000441	.000769	.017852	.0018889
%RSD	2.401069	1.142725	32.74603	2.753506	546.2377	1.656251	5.573639
#1	1.170074	.0294667	.0001886	-.016207	.000013	1.093358	.0320242
#2	1.155954	.0298806	.0001610	-.015516	-.000975	1.081897	.0338441
#3	1.210490	.0301428	.0002942	-.016337	.000539	1.058343	.0358012

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2478-04 Acquired: 7/7/2025 15:16:45 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3704490	-.009099	.0818500
Stddev	.0034084	.001329	.0002058
%RSD	.9200814	14.60750	.2514029
#1	.3743094	-.008435	.0817790
#2	.3691823	-.010629	.0816892
#3	.3678552	-.008232	.0820819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4612.814	64230.87	9451.782	4334.921	6203.472
Stddev	12.070	332.57	42.812	8.350	7.098
%RSD	.2616719	.5177671	.4529489	.1926237	.1144212
#1	4602.800	63966.86	9499.800	4341.068	6195.451
#2	4609.425	64604.38	9417.598	4325.414	6206.025
#3	4626.216	64121.36	9437.949	4338.281	6208.941

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-05 Acquired: 7/7/2025 15:21:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002718**	**-.004260**	**-.000515**	**-.001267**	**.0034135**	**.0243392**	**.0408634**
Stddev	.002257	.001562	.000902	.002322	.0007163	.0047595	.0012603
%RSD	83.01548	36.67207	175.2438	183.2040	20.98417	19.55474	3.084222
#1	-.004986	-.005033	.000301	-.003798	.0039107	.0196878	.0394649
#2	-.000473	-.005285	-.000362	.000765	.0025925	.0291998	.0412142
#3	-.002697	-.002462	-.001484	-.000769	.0037374	.0241298	.0419112

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**-.000149**	**149.3505**	**.0221027**	**-.000159**	**.0088176**	**-.003958**
Stddev	.000003	.000025	.4134	.0000117	.000163	.0004120	.008735
%RSD	1.414909	17.11268	.2768131	.0530480	102.2560	4.672001	220.6817
#1	-.000211	-.000175	148.8747	.0221026	-.000242	.0089057	-.011198
#2	-.000212	-.000124	149.6213	.0220911	-.000264	.0091784	-.006421
#3	-.000217	-.000149	149.5556	.0221146	.000028	.0083687	.005744

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021981**	**.9993590**	**.0023427**	**-.000113**	**315.4499**	**.0075195**	**.0041062**
Stddev	.0002001	.0046818	.0001884	.000158	.8096	.0011016	.0002274
%RSD	9.103888	.4684802	8.041669	140.2823	.2566411	14.65013	5.537659
#1	.0020059	1.001446	.0022238	-.000283	315.7674	.0084566	.0040623
#2	.0024053	1.002634	.0025599	.000030	316.0526	.0077959	.0039039
#3	.0021830	.993997	.0022443	-.000085	314.5297	.0063060	.0043523

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.698106**	**.0413803**	**.0103552**	**-.017697**	**-.004498**	**2.875747**	**.0224922**
Stddev	.063037	.0006713	.0001859	.000426	.000651	.011674	.0025296
%RSD	1.704579	1.622238	1.795562	2.407326	14.47834	.4059566	11.24658
#1	3.760535	.0408684	.0103859	-.017687	-.004028	2.863085	.0250168
#2	3.699304	.0411321	.0101558	-.017275	-.005241	2.878073	.0225021
#3	3.634478	.0421403	.0105239	-.018127	-.004225	2.886083	.0199576

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-05 Acquired: 7/7/2025 15:21:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**10.80425**	**-.022700**	**.5194355**
Stddev	.03697	.002679	.0012494
%RSD	.3421846	11.79992	.2405247
#1	10.83929	-.020912	.5179956
#2	10.80785	-.025780	.5200770
#3	10.76562	-.021410	.5202337

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4543.017**	**63546.50**	**9204.724**	**4241.512**	**6062.900**
Stddev	7.187	57.61	70.719	22.074	12.831
%RSD	.1581961	.0906645	.7682901	.5204226	.2116262
#1	4534.749	63480.12	9277.117	4222.342	6048.992
#2	4547.766	63575.88	9201.248	4236.548	6065.431
#3	4546.538	63583.51	9135.807	4265.645	6074.276

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-06 Acquired: 7/7/2025 15:25:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002786**	**-.004421**	**-.000121**	**.0019618**	**.0013035**	**.0316112**	**.0394141**
Stddev	.002353	.002103	.000522	.0030007	.0011913	.0055058	.0015040
%RSD	84.44929	47.56740	430.5421	152.9582	91.39256	17.41727	3.815905
#1	-.000768	-.005895	-.000506	.0048266	.0020585	.0254127	.0411056
#2	-.005370	-.002013	.000473	.0022172	-.000070	.0334865	.0382277
#3	-.002219	-.005355	-.000331	-.001158	.001922	.0359344	.0389089

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**-.000116**	**147.2043**	**.0171250**	**-.000044**	**.0064132**	**.0005487**
Stddev	.000034	.000040	.3588	.0001905	.000192	.0001519	.0067824
%RSD	15.92536	34.89228	.2437679	1.112663	439.3863	2.368544	1236.202
#1	-.000248	-.000120	147.1811	.0171037	.000164	.0062404	-.006985
#2	-.000210	-.000154	146.8576	.0169460	-.000081	.0065260	.006168
#3	-.000180	-.000073	147.5741	.0173253	-.000214	.0064731	.002463

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0216690**	**2.239361**	**.0013336**	**-.000097**	**284.5338**	**.0026500**	**.0049514**
Stddev	.0005469	.013890	.0001738	.000257	1.1637	.0010149	.0002042
%RSD	2.523931	.6202623	13.03252	263.3325	.4089887	38.30046	4.124681
#1	.0211767	2.253686	.0014567	-.000165	285.7512	.0030357	.0048441
#2	.0215726	2.225951	.0011348	-.000314	283.4325	.0014987	.0048231
#3	.0222577	2.238447	.0014094	.000186	284.4179	.0034155	.0051869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.141234**	**.0348052**	**.0024088**	**-.017344**	**-.005270**	**2.249341**	**.0551699**
Stddev	.062060	.0002975	.0001940	.000203	.000714	.010394	.0038767
%RSD	1.975642	.8547399	8.051924	1.173249	13.55730	.4620781	7.026752
#1	3.154544	.0345892	.0022863	-.017262	-.004476	2.237352	.0534418
#2	3.073599	.0351445	.0023077	-.017194	-.005860	2.254855	.0596101
#3	3.195558	.0346818	.0026324	-.017575	-.005474	2.255816	.0524579

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-06 Acquired: 7/7/2025 15:25:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**11.48398**	**-.023476**	**.4661679**
Stddev	.06957	.001591	.0003427
%RSD	.6057939	6.777300	.0735162
#1	11.43183	-.023355	.4661599
#2	11.45715	-.025124	.4658293
#3	11.56297	-.021949	.4665146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4354.556**	**65526.39**	**9326.515**	**4322.288**	**5773.595**
Stddev	5.716	178.56	32.107	12.848	9.528
%RSD	.1312692	.2725014	.3442578	.2972413	.1650219
#1	4358.005	65705.20	9324.326	4337.048	5773.140
#2	4357.704	65348.08	9295.559	4313.612	5783.342
#3	4347.957	65525.87	9359.661	4316.205	5764.303

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV02 Acquired: 7/7/2025 15:30:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.033638**	**4.838103**	**4.927944**	**5.012818**	**5.035025**	**9.792051**
Stddev	.004005	.038178	.019748	.013484	.006251	.009991
%RSD	.0795710	.7891093	.4007326	.2689819	.1241477	.1020330
#1	5.034408	4.831311	4.945095	5.016942	5.031106	9.780998
#2	5.029303	4.803777	4.932382	4.997754	5.031736	9.800441
#3	5.037202	4.879221	4.906355	5.023758	5.042234	9.794715

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.869794**	**.2386161**	**2.481391**	**24.37052**	**.9942997**	**2.478554**
Stddev	.064862	.0010164	.007012	.05484	.0031392	.005222
%RSD	.6571719	.4259628	.2825938	.2250377	.3157174	.2106859
#1	9.926194	.2375278	2.488509	24.32503	.9976611	2.483716
#2	9.798917	.2387798	2.481176	24.43142	.9937939	2.478671
#3	9.884272	.2395408	2.474489	24.35511	.9914442	2.473274

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.259497**	**5.024139**	**2.422564**	**23.98731**	**2.487893**	**1.236605**
Stddev	.002127	.017420	.004562	.09798	.005877	.000937
%RSD	.1688780	.3467226	.1883078	.4084538	.2362058	.0757554
#1	1.261139	5.033698	2.417296	23.87699	2.493830	1.236219
#2	1.260258	5.034687	2.425187	24.06419	2.487771	1.237673
#3	1.257094	5.004033	2.425209	24.02076	2.482079	1.235923

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.67083**	**2.422074**	**2.514718**	**24.18697**	**4.741166**	**4.954249**
Stddev	.09968	.005556	.004170	.14232	.021169	.005636
%RSD	.4396664	.2293886	.1658060	.5884246	.4464897	.1137595
#1	22.77618	2.416924	2.519146	24.28693	4.718920	4.959891
#2	22.65832	2.427962	2.514140	24.24996	4.743516	4.948619
#3	22.57801	2.421336	2.510867	24.02402	4.761062	4.954236

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV02 Acquired: 7/7/2025 15:30:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.919959**	**4.854618**	**4.944294**	F **4.254741**	**4.771333**	**4.947933**
Stddev	.017941	.016228	.019469	.012279	.029840	.009229
%RSD	.3646629	.3342816	.3937745	.2885930	.6253993	.1865305
#1	4.940648	4.844408	4.927362	4.251729	4.791514	4.945890
#2	4.910536	4.873331	4.965568	4.268245	4.737056	4.958013
#3	4.908692	4.846117	4.939951	4.244248	4.785428	4.939896

Elem	Sr4077
Units	ppm
Avg	**4.940323**
Stddev	.026094
%RSD	.5281762
#1	4.920785
#2	4.969956
#3	4.930229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4630.704**	**67538.42**	**9016.525**	**4471.519**	**6274.425**
Stddev	12.724	160.46	40.570	9.796	23.656
%RSD	.2747810	.2375859	.4499482	.2190796	.3770187
#1	4617.454	67484.68	9063.272	4466.964	6248.863
#2	4631.829	67411.72	8990.519	4464.830	6278.868
#3	4642.828	67718.85	8995.783	4482.764	6295.545

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB02 Acquired: 7/7/2025 15:34:11 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015821**	**-.001757**	**.0001584**	**-.005007**	**.0016519**	**.0072957**
Stddev	.0006865	.001026	.0009091	.002535	.0005249	.0070613
%RSD	43.39050	58.37656	574.1200	50.62279	31.77272	96.78728
#1	.0007981	-.002470	-.000752	-.007289	.0014823	.0114821
#2	.0018725	-.002221	.001066	-.002279	.0022406	.0112621
#3	.0020756	-.000582	.000161	-.005452	.0012329	-.000857

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004474**	**-.000062**	**.0000175**	**.0113938**	**.0002510**	**.0001389**
Stddev	.002018	.000007	.0000516	.0159529	.0003101	.0001462
%RSD	45.09552	11.86534	295.5578	140.0145	123.5527	105.2988
#1	-.002895	-.000063	.0000700	.0113625	.0005307	-.000011
#2	-.003781	-.000054	-.000033	-.004544	.0003049	.000281
#3	-.006747	-.000068	.000015	.027362	-.000083	.000147

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004861**	**-.003348**	**-.000160**	**.0026942**	**.0003806**	**-.000117**
Stddev	.0003791	.007737	.000109	.0175243	.0001517	.000337
%RSD	77.98791	231.0970	68.16368	650.4453	39.85267	288.5752
#1	.0000706	.002026	-.000147	.0229215	.0005551	.000047
#2	.0005744	-.012216	-.000276	-.006925	.0003059	-.000505
#3	.0008132	.000145	-.000058	-.007914	.0002808	.000107

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5013652**	**.0014305**	**.0003822**	**.2936124**	**.0011608**	**.0009429**
Stddev	.0184810	.0014990	.0002354	.0100365	.0001424	.0001003
%RSD	3.686138	104.7892	61.59106	3.418297	12.26923	10.63218
#1	.5077487	.0013772	.0004183	.2910686	.0013044	.0010297
#2	.5158082	-.000041	.0005976	.3046761	.0010196	.0009658
#3	.4805386	.002955	.0001309	.2850925	.0011585	.0008332

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB02 Acquired: 7/7/2025 15:34:11 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010091	.0005555	-.008521	F .0113282	.0001874	.0039843
Stddev	.0003877	.0007239	.003471	.0018001	.0013140	.0021895
%RSD	38.41583	130.3180	40.73831	15.89014	701.3632	54.95260
#1	.0014540	-.000070	-.005042	.0098908	.0004037	.0020808
#2	.0007434	.001349	-.008537	.0133472	-.001221	.0034951
#3	.0008301	.000387	-.011984	.0107466	.001380	.0063771

Elem	Sr4077
Units	ppm
Avg	.0002506
Stddev	.0000145
%RSD	5.775021
#1	.0002343
#2	.0002554
#3	.0002620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4862.648	70447.65	9338.974	4697.119	6890.298
Stddev	13.214	247.21	69.100	15.462	17.575
%RSD	.2717511	.3509083	.7399085	.3291739	.2550650
#1	4863.135	70164.69	9287.106	4679.431	6896.163
#2	4875.613	70556.51	9312.400	4703.864	6904.189
#3	4849.198	70621.73	9417.416	4708.063	6870.540

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-01DL2X100 Acquired: 7/7/2025 15:38:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078203**	**-.003874**	**.0072343**	**-.003103**	**-.003772**	**8.528795**	**-.000885**
Stddev	.0005338	.001114	.0001289	.002198	.000925	.057442	.002607
%RSD	6.825586	28.76333	1.781862	70.85658	24.53598	.6735116	294.6255
#1	.0074523	-.004426	.0070883	-.000904	-.004089	8.501527	-.002973
#2	.0084325	-.004603	.0072825	-.003103	-.002729	8.490065	-.001719
#3	.0075760	-.002591	.0073322	-.005301	-.004497	8.594793	.002037

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000926**	**-.000271**	**33.13038**	**2.819183**	**.0329314**	**.0099989**	**22.99501**
Stddev	.0000399	.000052	.27841	.002958	.0002005	.0003058	.02708
%RSD	43.13888	19.06963	.8403468	.1049384	.6087134	3.057977	.1177601
#1	.0001380	-.000231	32.95147	2.818740	.0327001	.0101023	22.98323
#2	.0000633	-.000252	32.98851	2.822338	.0330404	.0096548	23.02599
#3	.0000763	-.000329	33.45114	2.816471	.0330538	.0102395	22.97582

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1998744**	**6.248934**	**.1041366**	**-.001897**	**.3769501**	**.2218852**	**.0981727**
Stddev	.0006658	.078744	.0003789	.000126	.0128859	.0021650	.0001403
%RSD	.3330991	1.260117	.3638245	6.622270	3.418451	.9757467	.1429154
#1	.1995230	6.179629	.1037725	-.001890	.3745125	.2197920	.0980176
#2	.1994580	6.232614	.1041087	-.001775	.3908806	.2241155	.0982907
#3	.2006422	6.334559	.1045287	-.002026	.3654571	.2217481	.0982099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1208461**	**.0448247**	**.0003789**	**-.001292**	**.3893966**	**.1834130**	**.0185959**
Stddev	.0569296	.0005696	.0003340	.000168	.0033040	.0049580	.0011504
%RSD	47.10914	1.270650	88.14289	13.02942	.8484860	2.703208	6.186372
#1	.0698102	.0451695	.0000484	-.001282	.3859246	.1837832	.0188159
#2	.1104826	.0451374	.0007163	-.001465	.3897632	.1881755	.0196205
#3	.1822456	.0441673	.0003720	-.001129	.3925019	.1782802	.0173514

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2472-01DL2X100 Acquired: 7/7/2025 15:38:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1253550	.0084995	-.003969
Stddev	.0017338	.0009715	.000081
%RSD	1.383082	11.43060	2.050192
#1	.1234242	.0082967	-.004028
#2	.1267786	.0095564	-.004002
#3	.1258623	.0076453	-.003876

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4736.635	67956.75	9379.265	4549.875	6705.768
Stddev	10.501	72.83	79.502	11.082	15.398
%RSD	.2216940	.1071648	.8476402	.2435725	.2296299
#1	4744.478	67952.03	9428.564	4542.634	6712.773
#2	4740.723	68031.82	9421.682	4562.633	6716.418
#3	4724.705	67886.40	9287.550	4544.357	6688.112

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2507-01 Acquired: 7/7/2025 15:42:41 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0504900**	**-.003266**	**.8086574**	**.0172672**	**.0065343**	**150.9034**	**1.160143**
Stddev	.0021337	.001190	.0011662	.0030230	.0015803	.1791	.003537
%RSD	4.226012	36.44566	.1442120	17.50719	24.18450	.1186885	.3048978
#1	.0523928	-.004229	.8098259	.0207314	.0053236	150.9855	1.163604
#2	.0481831	-.001935	.8074935	.0159065	.0059572	150.6979	1.156534
#3	.0508941	-.003634	.8086528	.0151637	.0083220	151.0267	1.160291

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0102816**	**.0048671**	**46.34366**	**.1928113**	**.1632962**	**.4011730**	**342.4780**
Stddev	.0001128	.0001388	.09373	.0012191	.0005709	.0018282	.8910
%RSD	1.096834	2.851973	.2022414	.6322560	.3496128	.4557090	.2601652
#1	.0101931	.0049569	46.42405	.1928864	.1638160	.3998724	343.4521
#2	.0104086	.0047072	46.24071	.1939911	.1633875	.4032633	341.7042
#3	.0102430	.0049371	46.36621	.1915564	.1626852	.4003834	342.2777

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.864150**	**64.90311**	**.3338514**	**-.018621**	**5.491035**	**.4040610**	**1.042066**
Stddev	.021976	.09563	.0002675	.000359	.011352	.0018660	.000941
%RSD	.2794439	.1473372	.0801273	1.929600	.2067343	.4618117	.0903158
#1	7.840260	64.97093	.3341409	-.018295	5.479378	.4043676	1.041018
#2	7.868687	64.94466	.3336133	-.018562	5.491672	.4057547	1.042838
#3	7.883503	64.79373	.3338001	-.019006	5.502055	.4020607	1.042343

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.57645**	**.7512338**	**.0084891**	**.0181625**	**3.395917**	**9.211465**	**6.811080**
Stddev	.05639	.0054019	.0001259	.0003370	.012345	.081465	.055117
%RSD	.3035310	.7190743	1.483452	1.855655	.3635269	.8843834	.8092304
#1	18.64130	.7557582	.0085026	.0185333	3.410169	9.180684	6.861076
#2	18.53906	.7452530	.0086077	.0178746	3.388526	9.149877	6.820187
#3	18.54898	.7526904	.0083569	.0180797	3.389056	9.303836	6.751976

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2507-01 Acquired: 7/7/2025 15:42:41 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.945949	.4528928	-.008536
Stddev	.012269	.0012873	.001546
%RSD	.6304635	.2842454	18.11607
#1	1.959631	.4535453	-.010317
#2	1.935927	.4537232	-.007761
#3	1.942288	.4514098	-.007530

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5116.237	75339.09	10950.80	5019.182	5963.610
Stddev	7.304	66.81	9.06	3.982	11.223
%RSD	.1427655	.0886842	.0827597	.0793414	.1881893
#1	5108.447	75262.37	10940.33	5020.505	5951.044
#2	5122.931	75370.41	10955.94	5022.335	5967.151
#3	5117.332	75384.49	10956.12	5014.707	5972.636

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04 Acquired: 7/7/2025 15:46:43 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003421**	**-.002202**	**.0008690**	**-.001562**	**.0005655**	**.1124896**	**.3071312**
Stddev	.001186	.001255	.0008292	.001875	.0005347	.0048420	.0009944
%RSD	34.67411	56.97802	95.41594	120.0737	94.54636	4.304417	.3237849
#1	-.003340	-.000938	.0015281	-.000752	.0009043	.1123853	.3066514
#2	-.002278	-.002222	.0011410	-.003706	-.000051	.1077006	.3064677
#3	-.004646	-.003447	-.000062	-.000227	.000843	.1173829	.3082746

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000117**	**.0000028**	**14.10266**	**.0006548**	**-.000379**	**.0082425**	**.0511073**
Stddev	.000024	.0001186	.02581	.0001356	.000097	.0004574	.0101004
%RSD	20.54545	4178.904	.1829929	20.70155	25.65672	5.549350	19.76320
#1	-.000119	-.000111	14.13038	.0005043	-.000336	.0085145	.0396026
#2	-.000092	.000126	14.07932	.0007672	-.000311	.0077144	.0585182
#3	-.000139	-.000007	14.09829	.0006931	-.000490	.0084986	.0552009

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0151950**	**1.798841**	**.0005070**	**-.000330**	**317.8665**	**.0038459**	**.1087508**
Stddev	.0002527	.010303	.0001236	.000225	.9218	.0007642	.0002544
%RSD	1.662861	.5727366	24.37699	68.11643	.2900063	19.87012	.2339426
#1	.0154028	1.787260	.0006497	-.000206	317.1061	.0031182	.1090078
#2	.0152685	1.802278	.0004339	-.000195	317.6016	.0046420	.1087456
#3	.0149137	1.806986	.0004374	-.000590	318.8917	.0037776	.1084991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1738943**	**.0375681**	**.0001711**	**-.015949**	**.0004782**	**.7934639**	**.0377042**
Stddev	.0350204	.0006942	.0001689	.000540	.0011205	.0060800	.0019205
%RSD	20.13890	1.847913	98.72423	3.384842	234.3083	.7662611	5.093589
#1	.1426160	.0372038	.0001970	-.016097	.0014092	.7963871	.0398858
#2	.2117298	.0383687	.0003256	-.016399	.0007908	.7864744	.0362690
#3	.1673369	.0371319	-.000009	-.015350	-.000765	.7975303	.0369578

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04 Acquired: 7/7/2025 15:46:43 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4922842	-.009625	.0741605
Stddev	.0030801	.001120	.0001575
%RSD	.6256696	11.63139	.2123964
#1	.4892487	-.009789	.0740332
#2	.4954070	-.008433	.0743367
#3	.4921970	-.010653	.0741115

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4580.346	65124.03	9373.402	4368.661	6121.703
Stddev	9.187	87.11	42.413	7.848	16.282
%RSD	.2005768	.1337597	.4524779	.1796536	.2659770
#1	4582.752	65054.64	9422.356	4360.742	6119.292
#2	4570.195	65221.79	9350.135	4368.805	6106.761
#3	4588.091	65095.66	9347.716	4376.437	6139.057

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04DUP Acquired: 7/7/2025 15:51:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005727**	**-.005269**	**.0002816**	**-.001784**	**.0013388**	**.1187092**	**.3027831**
Stddev	.001156	.001733	.0004604	.001560	.0010086	.0095032	.0027661
%RSD	20.17943	32.89340	163.4799	87.41409	75.33277	8.005407	.9135594
#1	-.007016	-.007048	.0001813	-.000542	.0022825	.1209352	.2999911
#2	-.004782	-.003586	-.000120	-.003535	.0014581	.1082906	.3055226
#3	-.005383	-.005171	.000784	-.001276	.0002759	.1269018	.3028355

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000108**	**-.000049**	**14.04692**	**.0008676**	**-.000442**	**.0082351**	**.0503796**
Stddev	.000026	.000061	.03876	.0001670	.000223	.0001501	.0041570
%RSD	24.15984	125.3179	.2759354	19.24950	50.58965	1.823174	8.251322
#1	-.000132	-.000031	14.00472	.0010015	-.000398	.0082873	.0544272
#2	-.000111	.000001	14.05511	.0006805	-.000243	.0083521	.0461213
#3	-.000080	-.000117	14.08094	.0009209	-.000684	.0080658	.0505903

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146384**	**1.777844**	**.0006140**	**.0001301**	**325.1165**	**.0016671**	**.1104455**
Stddev	.0002539	.011883	.0002111	.0007282	1.8094	.0025208	.0002047
%RSD	1.734738	.6684010	34.38085	559.6407	.5565305	151.2106	.1853276
#1	.0144576	1.771659	.0006444	.0000994	323.2143	.0026289	.1104719
#2	.0145288	1.770329	.0008084	.0008732	326.8160	.0035653	.1106357
#3	.0149287	1.791544	.0003894	-.000582	325.3190	-.001193	.1102289

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2503989**	**.0362439**	**.0001904**	**-.015603**	**.0002038**	**.8344399**	**.0370856**
Stddev	.0164625	.0006462	.0003920	.000735	.0002887	.0097886	.0004797
%RSD	6.574525	1.782885	205.8982	4.708347	141.6859	1.173079	1.293476
#1	.2625922	.0355045	-.000259	-.014966	.0005267	.8457191	.0376394
#2	.2316726	.0367004	.000369	-.015438	.0001143	.8294346	.0368091
#3	.2569319	.0365267	.000461	-.016407	-.000030	.8281660	.0368081

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04DUP Acquired: 7/7/2025 15:51:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4984658	-.012214	.0742677
Stddev	.0044007	.001595	.0002357
%RSD	.8828482	13.06270	.3173238
#1	.5035450	-.013212	.0745350
#2	.4957933	-.010374	.0741782
#3	.4960592	-.013057	.0740899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4562.273	64877.45	9714.423	4347.695	6097.634
Stddev	9.027	268.54	82.867	1.445	10.737
%RSD	.1978583	.4139167	.8530258	.0332426	.1760794
#1	4556.869	64884.31	9809.976	4346.371	6090.528
#2	4572.693	65142.49	9671.007	4347.477	6109.985
#3	4557.255	64605.54	9662.285	4349.237	6092.389

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04LX5 Acquired: 7/7/2025 15:55:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000336**	**-.001226**	**.0001689**	**-.003840**	**.0005799**	**.0247051**	**.0515069**
Stddev	.000817	.000347	.0003431	.000719	.0007773	.0022929	.0011844
%RSD	242.9557	28.29926	203.2092	18.73036	134.0495	9.281006	2.299411
#1	.000011	-.001111	-.000193	-.003617	.0004287	.0221353	.0527908
#2	.000249	-.001616	.000489	-.003259	.0014216	.0265417	.0504570
#3	-.001269	-.000952	.000211	-.004645	-.000111	.0254384	.0512729

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000114**	**-.000074**	**2.821565**	**.0000094**	**-.000298**	**.0018044**	**.0055451**
Stddev	.000059	.000046	.025493	.0001451	.000170	.0000653	.0025591
%RSD	51.50198	61.71260	.9034939	1550.398	56.95950	3.620860	46.14961
#1	-.000052	-.000115	2.842944	-.000126	-.000401	.0018309	.0025922
#2	-.000169	-.000084	2.828399	-.000009	-.000102	.0017300	.0069263
#3	-.000122	-.000024	2.793352	.000163	-.000392	.0018524	.0071169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029758**	**.3564169**	**.0001774**	**-.000113**	**56.17579**	**.0023241**	**.0229164**
Stddev	.0003364	.0072319	.0001979	.000242	.38847	.0022261	.0003265
%RSD	11.30419	2.029058	111.5993	214.9446	.6915168	95.78136	1.424938
#1	.0033548	.3565345	.0000063	-.000230	56.07681	.0043561	.0230285
#2	.0027128	.3635893	.0001316	-.000274	56.60417	.0026714	.0231721
#3	.0028597	.3491269	.0003942	.000166	55.84640	-.000055	.0225486

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3633884**	**.0055598**	**.0000298**	**-.003536**	**-.000198**	**.1418655**	**.0135318**
Stddev	.0677182	.0002891	.0002910	.000503	.000216	.0066046	.0019049
%RSD	18.63522	5.198895	977.2763	14.23171	109.0719	4.655508	14.07733
#1	.4391887	.0058532	-.000227	-.003967	-.000027	.1483913	.0138769
#2	.3088601	.0052753	.000346	-.002983	-.000126	.1420202	.0152406
#3	.3421165	.0055508	-.000029	-.003658	-.000440	.1351849	.0114780

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04LX5 Acquired: 7/7/2025 15:55:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0886308	.0020811	.0150034
Stddev	.0036754	.0034968	.0000560
%RSD	4.146861	168.0258	.3732404
#1	.0857180	.0060195	.0150190
#2	.0927602	.0008827	.0149412
#3	.0874140	-.000659	.0150499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4924.276	69132.62	9493.205	4589.763	6810.957
Stddev	6.074	202.26	26.214	2.657	10.393
%RSD	.1233380	.2925631	.2761348	.0578931	.1525957
#1	4930.699	69262.63	9477.395	4592.506	6822.905
#2	4923.504	68899.60	9523.464	4587.201	6805.962
#3	4918.626	69235.63	9478.755	4589.580	6804.005

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04MS Acquired: 7/7/2025 15:59:52 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8161110**	**1.444872**	**.9474268**	**2.028221**	**.8166287**	**1.995955**	**.4781978**
Stddev	.0031018	.018267	.0004307	.006899	.0015812	.013502	.0041811
%RSD	.3800737	1.264234	.0454637	.3401293	.1936248	.6764882	.8743507
#1	.8176415	1.423951	.9475763	2.022160	.8150069	1.993732	.4738924
#2	.8125413	1.453008	.9477628	2.026776	.8181659	2.010431	.4822424
#3	.8181501	1.457657	.9469412	2.035728	.8167131	1.983702	.4784584

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1807600**	**.1983344**	**14.34113**	**.3973257**	**.1998843**	**.3030974**	**3.102611**
Stddev	.0012082	.0002958	.04994	.0010197	.0002822	.0002069	.010170
%RSD	.6684232	.1491442	.3482001	.2566521	.1411830	.0682721	.3277749
#1	.1812375	.1986498	14.31511	.3977653	.1997708	.3029359	3.103758
#2	.1816566	.1980631	14.39870	.3980520	.1996765	.3030256	3.091917
#3	.1793860	.1982902	14.30957	.3961599	.2002056	.3033307	3.112159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2043920**	**3.549857**	**.5024785**	**.0713054**	**292.5881**	**.2846254**	**.3068674**
Stddev	.0009372	.042215	.0011371	.0001783	2.4574	.0015010	.0014620
%RSD	.4585439	1.189209	.2262952	.2500169	.8398848	.5273566	.4764180
#1	.2033162	3.505822	.5034736	.0712747	291.9327	.2837024	.3075433
#2	.2048288	3.589981	.5012391	.0711445	290.5249	.2863573	.3078692
#3	.2050312	3.553767	.5027227	.0714971	295.3068	.2838164	.3051898

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.73848**	**.2877670**	**.4153667**	**.6959689**	**.1911219**	**1.647118**	**5.359234**
Stddev	.07582	.0023111	.0010936	.0010890	.0014794	.009361	.026047
%RSD	.7060196	.8031100	.2632723	.1564710	.7740716	.5683144	.4860160
#1	10.67691	.2884328	.4144340	.6949550	.1905076	1.642666	5.329354
#2	10.71537	.2896720	.4150959	.6958317	.1928095	1.640814	5.371200
#3	10.82316	.2851960	.4165702	.6971200	.1900486	1.657874	5.377147

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04MS Acquired: 7/7/2025 15:59:52 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4663243	.1891187	.2609279
Stddev	.0031912	.0010919	.0003799
%RSD	.6843288	.5773514	.1456021
#1	.4626912	.1888490	.2605785
#2	.4676081	.1903202	.2613324
#3	.4686738	.1881870	.2608728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4457.126	65374.36	9128.634	4372.389	5929.439
Stddev	6.614	72.65	40.264	7.471	12.453
%RSD	.1483987	.1111220	.4410778	.1708629	.2100235
#1	4455.251	65290.49	9129.162	4370.819	5918.476
#2	4464.476	65415.08	9088.108	4365.828	5942.979
#3	4451.652	65417.51	9168.631	4380.520	5926.861

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04MSD Acquired: 7/7/2025 16:04:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7891898	1.464308	.9215551	1.969165	.8046463	1.992523	.4700893
Stddev	.0027656	.009269	.0052455	.005510	.0016139	.010422	.0038033
%RSD	.3504340	.6329766	.5691984	.2797989	.2005667	.5230618	.8090654
#1	.7875613	1.453644	.9251946	1.964220	.8028853	1.990853	.4677138
#2	.7876252	1.470427	.9155425	1.968172	.8049991	1.983037	.4680782
#3	.7923830	1.468854	.9239284	1.975104	.8060547	2.003679	.4744760

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1813400	.1932462	14.08548	.3969983	.1962226	.2949389	3.080894
Stddev	.0007837	.0006986	.04803	.0009606	.0003463	.0004829	.004694
%RSD	.4321830	.3615326	.3409697	.2419609	.1764617	.1637114	.1523458
#1	.1806388	.1936257	14.06264	.3979490	.1963833	.2952616	3.086250
#2	.1811950	.1924399	14.05313	.3970179	.1958252	.2943838	3.077500
#3	.1821860	.1936729	14.14066	.3960281	.1964594	.2951713	3.078932

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2043534	3.504157	.4899580	.0709145	291.2306	.2840027	.3056644
Stddev	.0007661	.016845	.0009443	.0003301	1.2619	.0008699	.0007312
%RSD	.3748796	.4807070	.1927365	.4654572	.4333049	.3063013	.2392180
#1	.2043681	3.491894	.4902627	.0709727	292.6300	.2837418	.3058788
#2	.2035800	3.497213	.4888989	.0712116	290.1793	.2832931	.3048500
#3	.2051120	3.523364	.4907124	.0705592	290.8825	.2849732	.3062645

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.73060	.2886952	.4171879	.6787382	.1894528	1.639937	5.090211
Stddev	.07638	.0020533	.0010458	.0019380	.0006640	.001545	.030656
%RSD	.7117650	.7112245	.2506767	.2855302	.3504690	.0942403	.6022590
#1	10.80525	.2866344	.4169477	.6806900	.1899480	1.639496	5.124672
#2	10.73393	.2887103	.4162831	.6768143	.1897120	1.638660	5.065971
#3	10.65261	.2907408	.4183329	.6787103	.1886983	1.641655	5.079991

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-04MSD Acquired: 7/7/2025 16:04:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4292887	.1864233	.2610991
Stddev	.0039751	.0009198	.0002332
%RSD	.9259834	.4934022	.0893198
#1	.4279206	.1855939	.2613461
#2	.4261784	.1862634	.2608826
#3	.4337673	.1874125	.2610685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4664.840	65668.46	9118.795	4397.457	6271.779
Stddev	.699	161.67	41.870	14.459	7.661
%RSD	.0149797	.2461932	.4591639	.3287979	.1221551
#1	4664.288	65600.65	9159.120	4381.257	6266.822
#2	4665.625	65551.73	9121.729	4409.052	6280.603
#3	4664.606	65852.99	9075.534	4402.063	6267.911

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01A Acquired: 7/7/2025 16:08:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7998112	1.436570	.9349519	2.000789	.7919993	1.965647	.4911625
Stddev	.0045079	.030203	.0013320	.006198	.0040562	.005623	.0025398
%RSD	.5636240	2.102421	.1424654	.3097674	.5121510	.2860668	.5170956
#1	.7980314	1.462893	.9334201	2.004926	.7938169	1.967797	.4940310
#2	.7964648	1.443221	.9358371	1.993663	.7873522	1.969878	.4902567
#3	.8049373	1.403596	.9355987	2.003776	.7948289	1.959266	.4891997

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1783792	.1956893	14.95182	.3973021	.1976376	.2982212	3.141977
Stddev	.0005443	.0002074	.06353	.0018503	.0003443	.0007449	.007389
%RSD	.3051174	.1059726	.4248848	.4657194	.1741948	.2497854	.2351788
#1	.1789340	.1955932	15.00928	.3989633	.1978356	.2990638	3.145624
#2	.1783575	.1955474	14.96258	.3953079	.1972401	.2976502	3.146835
#3	.1778461	.1959273	14.88360	.3976351	.1978372	.2979497	3.133474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2018491	3.587270	.4962869	.0706098	310.8827	.2823161	.3132775
Stddev	.0010510	.018938	.0005461	.0001964	1.2066	.0033744	.0008581
%RSD	.5206979	.5279345	.1100446	.2781400	.3881325	1.195252	.2739108
#1	.2027966	3.607583	.4963953	.0708343	310.9416	.2805510	.3125048
#2	.2020321	3.584127	.4956947	.0705256	309.6476	.2862069	.3131267
#3	.2007186	3.570100	.4967707	.0704696	312.0587	.2801904	.3142010

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.96715	.2880616	.4064566	.6790132	.1863702	1.696903	5.288769
Stddev	.02994	.0011817	.0010788	.0015344	.0030019	.002500	.007270
%RSD	.2730015	.4102345	.2654249	.2259724	1.610708	.1473396	.1374564
#1	10.97491	.2872039	.4063438	.6807490	.1858710	1.695486	5.290548
#2	10.99244	.2894096	.4054386	.6784528	.1895904	1.699790	5.294985
#3	10.93409	.2875713	.4075874	.6778377	.1836492	1.695434	5.280775

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01A Acquired: 7/7/2025 16:08:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4827920	.1869177	.2633292
Stddev	.0029333	.0010325	.0015283
%RSD	.6075771	.5523689	.5803824
#1	.4795851	.1879681	.2649501
#2	.4853396	.1868807	.2631231
#3	.4834513	.1859041	.2619144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4542.082	65033.66	9217.659	4362.922	6042.903
Stddev	4.081	153.13	34.548	1.585	5.661
%RSD	.0898495	.2354672	.3748033	.0363178	.0936803
#1	4539.336	64981.04	9178.030	4364.305	6044.036
#2	4546.771	65206.17	9241.439	4363.267	6047.912
#3	4540.139	64913.78	9233.509	4361.193	6036.761

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2477-01 Acquired: 7/7/2025 16:16:42 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001690**	**-.003020**	**.0001757**	**-.002611**	**.0006128**	**1.876633**	**.3637609**
Stddev	.000897	.000839	.0003659	.001775	.0007505	.010141	.0014025
%RSD	53.10523	27.77187	208.2954	67.98989	122.4784	.5403780	.3855564
#1	-.002622	-.003984	.0004413	-.004439	.0014702	1.886564	.3653173
#2	-.001616	-.002621	.0003275	-.002500	.0002928	1.866294	.3625952
#3	-.000832	-.002456	-.000242	-.000894	.0000753	1.877040	.3633701

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**-.000175**	**5.329336**	**.0012019**	**.0002077**	**.0421694**	**6.395905**
Stddev	.000026	.000038	.023191	.0001406	.0000801	.0001980	.035713
%RSD	36.76207	21.58496	.4351551	11.69882	38.57990	.4695529	.5583795
#1	-.000100	-.000160	5.349524	.0012119	.0001600	.0423806	6.362876
#2	-.000068	-.000147	5.334478	.0013372	.0003003	.0419880	6.391036
#3	-.000047	-.000218	5.304005	.0010566	.0001630	.0421396	6.433803

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7347384**	**1.219053**	**.0041966**	**-.000467**	**11.17492**	**.0034668**	**.0403978**
Stddev	.0015054	.008759	.0002091	.000794	.01305	.0017904	.0001805
%RSD	.2048864	.7184826	4.981432	169.9917	.1167698	51.64390	.4468532
#1	.7353760	1.228402	.0042467	.000262	11.18027	.0040938	.0404233
#2	.7358200	1.217718	.0043760	-.001313	11.16004	.0048594	.0405641
#3	.7330191	1.211038	.0039670	-.000350	11.18444	.0014472	.0402058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.654852**	**.0266015**	**.0003766**	**-.016250**	**.0095651**	**.4017494**	**.0198830**
Stddev	.051967	.0006700	.0000895	.000309	.0013354	.0124536	.0012518
%RSD	1.957422	2.518645	23.75985	1.899203	13.96138	3.099845	6.295688
#1	2.605515	.0272364	.0004790	-.015895	.0090826	.3885325	.0196025
#2	2.649941	.0259012	.0003374	-.016403	.0085379	.4034508	.0187952
#3	2.709100	.0266671	.0003134	-.016453	.0110747	.4132647	.0212512

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2477-01 Acquired: 7/7/2025 16:16:42 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4461505	-.004833	.0289339
Stddev	.0015203	.002505	.0001383
%RSD	.3407667	51.82813	.4779470
#1	.4444770	-.006672	.0290829
#2	.4474466	-.001980	.0288096
#3	.4465280	-.005846	.0289093

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4838.275	70098.60	9476.235	4705.873	6756.743
Stddev	12.401	188.90	38.565	7.058	7.077
%RSD	.2563026	.2694803	.4069612	.1499818	.1047378
#1	4825.628	70049.80	9434.639	4697.891	6756.441
#2	4838.784	70307.11	9510.801	4708.438	6749.822
#3	4850.413	69938.88	9483.265	4711.290	6763.966

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV03 Acquired: 7/7/2025 16:33:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.100707**	**4.695870**	**5.009514**	**5.066256**	**5.099209**	**9.880691**
Stddev	.027064	.069749	.015749	.025115	.026482	.001941
%RSD	.5305936	1.485331	.3143827	.4957253	.5193403	.0196438
#1	5.074073	4.633709	4.999873	5.040915	5.077458	9.882043
#2	5.099868	4.682601	5.000982	5.066716	5.091471	9.881562
#3	5.128181	4.771301	5.027689	5.091138	5.128698	9.878467

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.02352**	**.2445826**	**2.524698**	**24.60854**	**1.017080**	**2.518836**
Stddev	.05936	.0010025	.009207	.09354	.001889	.009917
%RSD	.5921862	.4098609	.3646751	.3801303	.1857505	.3937079
#1	9.99735	.2441493	2.520050	24.56549	1.018773	2.513882
#2	10.09146	.2457289	2.518741	24.71586	1.017425	2.512373
#3	9.98174	.2438698	2.535302	24.54427	1.015042	2.530254

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.276743**	**5.149126**	**2.455495**	**24.09623**	**2.530556**	**1.265223**
Stddev	.005915	.003734	.005733	.04110	.008525	.001148
%RSD	.4633199	.0725185	.2334941	.1705511	.3368909	.0907065
#1	1.273280	5.153230	2.454308	24.12027	2.526514	1.265367
#2	1.273376	5.148217	2.461729	24.11963	2.524804	1.264010
#3	1.283573	5.145930	2.450449	24.04877	2.540350	1.266291

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.79696**	**2.437817**	**2.580694**	**26.04484**	**4.821316**	**5.022767**
Stddev	.07360	.010547	.003169	.08045	.022146	.027832
%RSD	.2968170	.4326276	.1227972	.3089083	.4593276	.5541208
#1	24.87229	2.436330	2.584352	26.12631	4.804150	5.003032
#2	24.72522	2.449028	2.578937	25.96544	4.846313	5.010668
#3	24.79335	2.428092	2.578793	26.04278	4.813485	5.054601

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV03 Acquired: 7/7/2025 16:33:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.999227**	**4.879533**	**5.173908**	F **4.331091**	**4.817743**	**4.982211**
Stddev	.018582	.013074	.020998	.022335	.027991	.012743
%RSD	.3717010	.2679451	.4058507	.5156788	.5810032	.2557747
#1	4.985277	4.877351	5.189078	4.333060	4.792161	4.972566
#2	4.992084	4.893561	5.182703	4.307837	4.813426	4.996658
#3	5.020321	4.867686	5.149942	4.352376	4.847641	4.977410

Elem	Sr4077
Units	ppm
Avg	**5.052741**
Stddev	.068107
%RSD	1.347925
#1	4.991088
#2	5.125850
#3	5.041285

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4594.535**	**65038.76**	**8826.019**	**4349.077**	**6212.574**
Stddev	16.731	236.79	21.019	20.193	16.848
%RSD	.3641597	.3640810	.2381463	.4642997	.2711860
#1	4607.448	64774.66	8812.500	4326.061	6220.279
#2	4600.523	65232.11	8815.323	4363.816	6224.192
#3	4575.633	65109.51	8850.235	4357.355	6193.252

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB03 Acquired: 7/7/2025 16:37:38 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000632**	**-.000259**	**.0003034**	**-.003982**	**-.000777**	**.0015169**	**-.003945**
Stddev	.0014749	.001172	.0005271	.001324	.000909	.0042727	.001467
%RSD	2332.735	451.6189	173.7066	33.24530	116.9051	281.6799	37.19540
#1	-.000344	.000556	.0008959	-.003069	.000050	.0055004	-.005465
#2	-.001165	.000268	-.000113	-.005501	-.000631	.0020461	-.003832
#3	.001699	-.001602	.000128	-.003377	-.001750	-.002996	-.002537

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**-.000058**	**.0072087**	**.0000074**	**-.000139**	**.0001735**	**-.003992**
Stddev	.000049	.000024	.0107515	.0002501	.000073	.0006835	.002496
%RSD	57.85740	41.99467	149.1453	3369.897	52.08360	394.0109	62.52659
#1	-.000132	-.000059	.0075731	.0002177	-.000187	-.000347	-.001173
#2	-.000084	-.000081	-.003720	.0000737	-.000056	-.000080	-.004881
#3	-.000035	-.000033	.017773	-.000269	-.000175	.000948	-.005921

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000749**	**-.002667**	**-.000023**	**-.000120**	**.2676449**	**.0019024**	**.0000036**
Stddev	.0003406	.007394	.000190	.000191	.0164553	.0023802	.0001386
%RSD	454.5854	277.2968	812.4324	159.1425	6.148178	125.1149	3862.797
#1	-.000314	-.008662	-.000136	-.000163	.2580160	.0044169	.0001584
#2	.000320	-.004933	.000196	-.000286	.2866452	.0016062	-.000109
#3	.000219	.005596	-.000131	.000089	.2582734	-.000316	-.000039

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.100120**	**.0064304**	**.0008819**	**-.000561**	**.0002476**	**-.002141**	**.0072073**
Stddev	.005314	.0004528	.0003401	.000261	.0010019	.002378	.0018490
%RSD	5.307561	7.042329	38.55796	46.46874	404.6872	111.0940	25.65485
#1	-.106069	.0069396	.0010967	-.000318	-.000145	-.002114	.0078665
#2	-.098447	.0060729	.0010593	-.000837	.001386	-.004532	.0051190
#3	-.095844	.0062786	.0004899	-.000528	-.000498	.000224	.0086363

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB03 Acquired: 7/7/2025 16:37:38 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001260	.0035784	.0001597
Stddev	.002036	.0011357	.0000562
%RSD	161.5337	31.73799	35.19180
#1	.000331	.0023986	.0000986
#2	-.003554	.0046641	.0001713
#3	-.000558	.0036724	.0002091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4806.003	66721.32	9156.285	4511.210	6791.989
Stddev	11.241	86.35	16.957	3.633	16.768
%RSD	.2338855	.1294196	.1851900	.0805409	.2468848
#1	4800.416	66677.58	9173.667	4513.702	6790.353
#2	4818.942	66820.79	9139.788	4512.888	6809.515
#3	4798.650	66665.59	9155.401	4507.041	6776.098

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168711BL Acquired: 7/7/2025 16:41:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027599**	**-.000581**	**-.000474**	**-.004143**	**-.000341**	**.0068389**	**-.003992**
Stddev	.0003808	.000145	.002322	.001744	.000491	.0090678	.000693
%RSD	13.79867	25.01206	489.6629	42.10288	144.3167	132.5903	17.35815
#1	.0023294	-.000418	-.000953	-.005319	-.000400	.0137730	-.004652
#2	.0028975	-.000629	-.002520	-.004971	-.000799	-.003422	-.004054
#3	.0030529	-.000697	.002050	-.002139	.000178	.010166	-.003270

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000120**	**-.000100**	**.0030409**	**.0002073**	**-.000209**	**-.000124**	**-.006141**
Stddev	.000033	.000110	.0080808	.0000707	.000202	.000311	.004505
%RSD	27.22275	110.2159	265.7345	34.10838	96.61088	249.8425	73.37198
#1	-.000156	-.000150	-.001123	.0001346	-.000227	-.000328	-.001329
#2	-.000091	.000026	-.002109	.0002115	.000002	-.000279	-.010260
#3	-.000114	-.000175	.012354	.0002759	-.000400	.000233	-.006833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000079**	**-.001835**	**-.000085**	**.0000348**	**.2159321**	**-.000347**	**.0001723**
Stddev	.000154	.003286	.000260	.0002394	.0047538	.000938	.0000571
%RSD	194.8803	179.0508	304.6438	688.1512	2.201520	270.3246	33.15003
#1	-.000155	.001805	.000212	-.000050	.2106183	.000721	.0002342
#2	-.000181	-.002729	-.000270	-.000151	.2173967	-.001037	.0001614
#3	.000098	-.004581	-.000197	.000305	.2197812	-.000725	.0001215

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.171175**	**.0027276**	**-.000008**	**.0005700**	**-.000145**	**-.019093**	**.0067301**
Stddev	.051983	.0002938	.000513	.0006636	.000433	.010755	.0025033
%RSD	30.36840	10.77259	6404.017	116.4282	299.1417	56.32944	37.19594
#1	-.197091	.0029666	.000477	.0013006	-.000392	-.007215	.0044684
#2	-.111329	.0023996	-.000545	.0000045	.000356	-.021892	.0094199
#3	-.205106	.0028167	.000044	.0004049	-.000398	-.028171	.0063020

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168711BL Acquired: 7/7/2025 16:41:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000371	.0005968	.0000089
Stddev	.000171	.0019039	.0000366
%RSD	46.04226	319.0337	413.7380
#1	-.000379	-.000120	.0000086
#2	-.000537	-.000845	-.000028
#3	-.000196	.002755	.000046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4715.699	68035.79	9200.405	4557.421	6602.140
Stddev	4.962	219.38	21.968	8.583	7.535
%RSD	.1052150	.3224475	.2387670	.1883274	.1141325
#1	4715.756	68244.61	9216.965	4549.420	6607.470
#2	4720.631	68055.59	9175.485	4556.357	6605.431
#3	4710.709	67807.19	9208.765	4566.487	6593.519

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168713BL Acquired: 7/7/2025 16:45:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006959**	**-.001725**	**.0008716**	**-.004145**	**-.000512**	**.0003687**	**-.005320**
Stddev	.0003040	.001126	.0005656	.002846	.001924	.0047976	.002054
%RSD	43.67768	65.28206	64.89335	68.66264	375.8857	1301.157	38.60376
#1	.0008533	-.000440	.0013029	-.007422	-.002169	.0010665	-.006820
#2	.0008890	-.002537	.0010805	-.002296	-.000965	.0047792	-.006161
#3	.0003456	-.002198	.0002312	-.002716	.001598	-.004740	-.002979

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000088**	**-.000098**	**.0057784**	**-.000118**	**-.000101**	**.0000217**	**-.010739**
Stddev	.000049	.000038	.0082941	.000144	.000128	.0000821	.002881
%RSD	55.83336	39.26193	143.5360	122.6166	126.2930	379.1764	26.82900
#1	-.000032	-.000123	.0044537	-.000126	.000017	.0000772	-.013853
#2	-.000107	-.000116	-.001774	.000031	-.000084	.0000605	-.010195
#3	-.000125	-.000054	.014655	-.000258	-.000236	-.000073	-.008168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001812**	**.0058718**	**.0000601**	**-.000293**	**.1575484**	**.0007280**	**.0001364**
Stddev	.0003109	.0176016	.0001868	.000212	.0060802	.0010281	.0002210
%RSD	171.6022	299.7642	310.6420	72.13068	3.859290	141.2233	161.9914
#1	.0005284	.0258063	.0000344	-.000090	.1620397	.0000174	.0001181
#2	.0000869	-.007527	-.000112	-.000278	.1506294	.0002597	.0003659
#3	-.000072	-.000664	.000258	-.000512	.1599762	.0019069	-.000075

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.286846**	**.0005826**	**.0000904**	**.0000709**	**.0002059**	**-.010904**	**.0090656**
Stddev	.026601	.0002630	.0002867	.0007891	.0003230	.009043	.0025048
%RSD	9.273727	45.14527	317.2415	1113.476	156.8344	82.93430	27.62973
#1	-.285544	.0002842	-.000002	.0009249	-.000121	-.001428	.0086428
#2	-.314075	.0007809	.000412	-.000631	.000525	-.019441	.0117550
#3	-.260920	.0006825	-.000138	-.000081	.000215	-.011844	.0067992

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168713BL Acquired: 7/7/2025 16:45:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000646	.0009402	-.000026
Stddev	.002057	.0029180	.000021
%RSD	318.6138	310.3527	79.40703
#1	-.002992	.0010622	-.000024
#2	.000849	.0037954	-.000048
#3	.000207	-.002037	-.000006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4708.984	68324.30	9214.995	4569.551	6613.904
Stddev	10.286	210.54	24.244	12.166	20.493
%RSD	.2184285	.3081545	.2630947	.2662366	.3098401
#1	4719.528	68235.72	9229.100	4572.381	6633.512
#2	4708.447	68172.52	9187.000	4556.220	6615.571
#3	4698.977	68564.66	9228.884	4580.052	6592.629

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168714BL Acquired: 7/7/2025 16:50:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009940**	**-.001573**	**-.000355**	**-.004518**	**-.000127**	**.0050964**	**-.005356**
Stddev	.0017855	.001074	.000731	.002499	.001467	.0032648	.000711
%RSD	179.6238	68.28500	206.2323	55.30542	1157.722	64.06041	13.27374
#1	.0005619	-.001808	.000490	-.007298	.000719	.0055530	-.006176
#2	.0029559	-.002510	-.000770	-.003796	.000722	.0081088	-.004919
#3	-.000536	-.000401	-.000784	-.002459	-.001821	.0016274	-.004972

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000089**	**-.000044**	**.0167756**	**.0002428**	**-.000177**	**.0002328**	**-.004252**
Stddev	.000037	.000094	.0050716	.0001970	.000132	.0005434	.008787
%RSD	40.89957	213.8117	30.23181	81.14451	74.82722	233.3793	206.6716
#1	-.000098	-.000153	.0110843	.0002668	-.000271	-.000340	-.013836
#2	-.000121	.000004	.0208161	.0004267	-.000234	.000297	-.002345
#3	-.000049	.000016	.0184265	.0000349	-.000026	.000741	.003426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000359**	**-.001442**	**.0002334**	**-.000084**	**.1288632**	**.0008675**	**.0001868**
Stddev	.0004055	.010922	.0003347	.000099	.0078563	.0005088	.0003412
%RSD	1130.771	757.3291	143.4321	117.9088	6.096660	58.65479	182.6811
#1	-.000299	-.013890	.0002206	-.000199	.1301503	.0014505	.0005498
#2	.000487	.006540	-.000095	-.000025	.1359964	.0006389	-.000127
#3	-.000080	.003022	.000574	-.000028	.1204427	.0005130	.000138

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.298149**	**.0001451**	**-.000235**	**-.000287**	**-.001153**	**-.004397**	**.0081424**
Stddev	.018738	.0004281	.000264	.000506	.000950	.003121	.0023494
%RSD	6.284867	295.0594	112.2610	176.7296	82.36401	70.98682	28.85384
#1	-.302692	-.000345	-.000471	-.000487	-.002248	-.004929	.0104806
#2	-.277556	.000448	.000049	-.000662	-.000545	-.001044	.0057820
#3	-.314197	.000332	-.000282	.000289	-.000667	-.007217	.0081645

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168714BL Acquired: 7/7/2025 16:50:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000833	-.001853	-.000051
Stddev	.001877	.001819	.000055
%RSD	225.1823	98.16913	107.7416
#1	-.000203	-.003481	-.000096
#2	.000647	.000110	-.000066
#3	-.002944	-.002187	.000010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4775.879	70404.12	9351.487	4688.543	6732.012
Stddev	11.724	207.01	8.446	10.261	14.769
%RSD	.2454792	.2940291	.0903210	.2188550	.2193808
#1	4783.884	70406.75	9342.080	4700.033	6736.987
#2	4781.330	70195.81	9353.959	4680.291	6743.650
#3	4762.422	70609.80	9358.421	4685.306	6715.398

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168713BS Acquired: 7/7/2025 17:01:55 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7651784	1.627421	.9464937	1.897611	.7840317	1.929458	.2048399
Stddev	.0014793	.060098	.0012143	.009637	.0010882	.006783	.0016139
%RSD	.1933233	3.692812	.1282951	.5078351	.1387897	.3515574	.7878743
#1	.7651661	1.562107	.9475648	1.889982	.7850784	1.922943	.2033849
#2	.7637053	1.680382	.9451745	1.894410	.7829063	1.928950	.2045591
#3	.7666638	1.639774	.9467418	1.908441	.7841105	1.936481	.2065758

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915609	.1926301	1.011425	.4181755	.1956063	.3027656	3.014812
Stddev	.0020879	.0004193	.006201	.0044565	.0007654	.0010476	.065639
%RSD	1.089955	.2176678	.6131347	1.065704	.3912714	.3459942	2.177221
#1	.1891801	.1929808	1.005018	.4233066	.1958322	.3025164	3.088055
#2	.1924216	.1921657	1.017398	.4159477	.1947534	.3018651	2.995074
#3	.1930808	.1927438	1.011860	.4152722	.1962333	.3039153	2.961307

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1972743	1.920398	.5038163	.0712670	3.089927	.2839189	.2062995
Stddev	.0001538	.012993	.0009850	.0004171	.065588	.0015805	.0022726
%RSD	.0779629	.6765616	.1955057	.5852184	2.122640	.5566776	1.101615
#1	.1974510	1.918043	.5046948	.0717278	3.160786	.2820979	.2082902
#2	.1972010	1.908744	.5027514	.0711581	3.077652	.2849346	.2067848
#3	.1971709	1.934407	.5040026	.0709152	3.031344	.2847243	.2038234

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.689249	.2843491	.3958202	.6681809	.1893547	.8265373	4.836810
Stddev	.236746	.0028832	.0005756	.0019278	.0016505	.0169691	.016440
%RSD	2.443387	1.013953	.1454189	.2885171	.8716367	2.053035	.3398841
#1	9.934255	.2812896	.3951822	.6678151	.1900976	.8435124	4.818095
#2	9.671758	.2847422	.3959779	.6664621	.1874633	.8265253	4.843416
#3	9.461733	.2870156	.3963005	.6702653	.1905032	.8095742	4.848918

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168713BS Acquired: 7/7/2025 17:01:55 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.004008	.2043951	.1979242
Stddev	.003184	.0022056	.0005462
%RSD	79.44642	1.079068	.2759834
#1	-.007462	.2052871	.1972935
#2	-.001189	.2060149	.1982438
#3	-.003374	.2018832	.1982353

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4856.332	69968.28	9154.585	4660.273	6782.369
Stddev	6.193	736.58	100.099	52.206	10.553
%RSD	.1275276	1.052729	1.093434	1.120224	.1556013
#1	4850.230	69154.76	9266.653	4608.057	6777.850
#2	4862.612	70160.11	9123.053	4660.293	6794.429
#3	4856.152	70589.96	9074.048	4712.468	6774.828

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168714BS Acquired: 7/7/2025 17:05:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7902995	1.651490	.9660818	1.959571	.8130047	1.914504	.2053973
Stddev	.0109705	.021026	.0136096	.028385	.0129086	.007731	.0015323
%RSD	1.388146	1.273168	1.408738	1.448532	1.587762	.4038163	.7460045
#1	.7860619	1.652985	.9579457	1.944020	.8072445	1.909394	.2058968
#2	.7820797	1.629756	.9585063	1.942360	.8039791	1.923398	.2066175
#3	.8027567	1.671728	.9817934	1.992333	.8277906	1.910720	.2036776

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1892433	.1967611	.9995989	.4012910	.1998038	.3097753	3.032631
Stddev	.0008939	.0030703	.0059590	.0011005	.0028165	.0046601	.018267
%RSD	.4723596	1.560428	.5961400	.2742298	1.409624	1.504341	.6023403
#1	.1888114	.1950620	1.000890	.4023912	.1980792	.3067704	3.051856
#2	.1902712	.1949159	1.004806	.4001903	.1982783	.3074119	3.015503
#3	.1886474	.2003054	.993100	.4012917	.2030540	.3151435	3.030535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1935168	1.890181	.5037504	.0716909	3.150698	.2821470	.2067542
Stddev	.0009287	.012987	.0083018	.0004343	.013519	.0029256	.0012047
%RSD	.4799273	.6870952	1.647993	.6058358	.4290777	1.036905	.5826844
#1	.1931239	1.893420	.4989051	.0718754	3.147226	.2821098	.2069101
#2	.1945774	1.875880	.4990099	.0711948	3.139254	.2850910	.2078735
#3	.1928491	1.901242	.5133363	.0720025	3.165615	.2792401	.2054792

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02541	.2794297	.4041183	.6908049	.1898269	.8642094	4.971937
Stddev	.05906	.0003351	.0055878	.0102063	.0011931	.0176195	.074386
%RSD	.5891305	.1199298	1.382713	1.477445	.6285159	2.038796	1.496119
#1	10.08848	.2792642	.4006532	.6836884	.1885850	.8715662	4.942950
#2	9.97141	.2798153	.4011372	.6862278	.1909644	.8441037	4.916409
#3	10.01633	.2792094	.4105644	.7024986	.1899313	.8769582	5.056453

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168714BS Acquired: 7/7/2025 17:05:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.004274	.2035112	.1955558
Stddev	.002126	.0010880	.0005293
%RSD	49.73286	.5345961	.2706647
#1	-.006622	.2022729	.1955955
#2	-.002481	.2039470	.1960641
#3	-.003720	.2043136	.1950077

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4705.075	68312.74	9241.618	4581.397	6542.613
Stddev	56.806	114.57	38.884	18.037	78.165
%RSD	1.207331	.1677147	.4207512	.3937008	1.194704
#1	4738.598	68191.83	9251.374	4570.301	6589.600
#2	4737.141	68326.68	9198.785	4571.682	6585.856
#3	4639.487	68419.70	9274.696	4602.209	6452.382

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-01 Acquired: 7/7/2025 17:09:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0736645	-.011281	2.480401	.0116943	.0061772	128.1892
Stddev	.0024920	.001359	.001495	.0014674	.0010742	2.2128
%RSD	3.382885	12.04856	.0602629	12.54806	17.38975	1.726167
#1	.0711371	-.010025	2.479683	.0131209	.0051561	130.6980
#2	.0737369	-.011095	2.482119	.0117728	.0072976	127.3537
#3	.0761195	-.012724	2.479400	.0101893	.0060778	126.5157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.645211	.0091290	.0063121	590.8163	.5464911	.1734002
Stddev	.027491	.0001465	.0002672	8.6168	.0022564	.0002417
%RSD	1.670949	1.604564	4.233171	1.458457	.4128881	.1394105
#1	1.676340	.0092884	.0065839	600.7181	.5439078	.1732840
#2	1.635029	.0090985	.0060497	586.7116	.5474894	.1732385
#3	1.624264	.0090002	.0063026	585.0194	.5480762	.1736781

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.228701	309.5110	4.498779	98.80011	.5189122	-.014943
Stddev	.000575	1.0309	.070547	1.58048	.0003665	.000327
%RSD	.0467624	.3330854	1.568135	1.599673	.0706223	2.189066
#1	1.229332	308.3809	4.578848	100.5823	.5184893	-.014583
#2	1.228564	310.4001	4.471728	98.2495	.5191374	-.015024
#3	1.228207	309.7520	4.445760	97.5686	.5191098	-.015222

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.574937	.4123793	6.774329	26.61901	.7077860	.0950386
Stddev	.043649	.0073059	.011451	.06699	.0062597	.0000908
%RSD	.4558687	1.771650	.1690393	.2516693	.8844084	.0955029
#1	9.538885	.4204292	6.762844	26.54721	.7012078	.0951091
#2	9.623466	.4105398	6.774395	26.67983	.7136693	.0949362
#3	9.562459	.4061690	6.785746	26.62999	.7084808	.0950705

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-01 Acquired: 7/7/2025 17:09:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5876201	5.786608	8.333509	7.295396	F 23.65752	.2286276
Stddev	.0010374	.094837	.055930	.015794	.04270	.0021084
%RSD	.1765383	1.638908	.6711463	.2164974	.1804778	.9221812
#1	.5866466	5.894028	8.279954	7.295978	23.60956	.2310264
#2	.5875024	5.751332	8.391545	7.310892	23.67164	.2277880
#3	.5887113	5.714464	8.329029	7.279320	23.69137	.2270683

Elem	Sr4077
Units	ppm
Avg	1.761396
Stddev	.034034
%RSD	1.932199
#1	1.794342
#2	1.763476
#3	1.726370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4802.176	68012.42	10387.28	4535.037	5490.569
Stddev	7.633	277.82	153.34	9.054	7.219
%RSD	.1589400	.4084892	1.476261	.1996364	.1314795
#1	4801.309	68333.22	10210.53	4541.690	5492.904
#2	4795.014	67850.58	10466.60	4538.693	5482.471
#3	4810.205	67853.46	10484.72	4524.727	5496.331

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168711BS Acquired: 7/7/2025 17:14:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7820174	1.639520	.9585267	1.940700	.7963999	1.919611	.2016462
Stddev	.0056357	.043194	.0032690	.009849	.0042020	.011579	.0019270
%RSD	.7206615	2.634536	.3410482	.5074738	.5276216	.6031783	.9556308
#1	.7817448	1.590677	.9616832	1.932285	.7967488	1.922362	.2034717
#2	.7765229	1.655198	.9551557	1.938284	.7920343	1.929567	.2018352
#3	.7877844	1.672685	.9587413	1.951533	.8004165	1.906905	.1996316

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1891746	.1952315	1.024829	.4230501	.1982698	.3075768	3.144264
Stddev	.0013777	.0002965	.003540	.0009451	.0007386	.0005963	.033475
%RSD	.7282878	.1518540	.3454529	.2234026	.3725047	.1938593	1.064637
#1	.1907432	.1954718	1.021228	.4226448	.1984275	.3077292	3.155121
#2	.1881606	.1949002	1.028306	.4241303	.1974651	.3069192	3.170963
#3	.1886200	.1953224	1.024952	.4223753	.1989168	.3080822	3.106708

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1957194	1.891487	.5106384	.0728157	3.201998	.2858585	.2088607
Stddev	.0013298	.044084	.0009272	.0004862	.027063	.0045263	.0006166
%RSD	.6794564	2.330672	.1815749	.6676650	.8452054	1.583394	.2952249
#1	.1972247	1.932390	.5110001	.0722812	3.203910	.2893278	.2081527
#2	.1947038	1.897277	.5095849	.0732315	3.228055	.2875090	.2091492
#3	.1952299	1.844793	.5113303	.0729344	3.174030	.2807386	.2092802

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11537	.2785484	.3993372	.6768478	.1878230	.8539444	4.895925
Stddev	.13014	.0017697	.0015632	.0017546	.0021837	.0127572	.027939
%RSD	1.286517	.6353446	.3914387	.2592330	1.162626	1.493919	.5706551
#1	10.15160	.2805892	.3992997	.6764138	.1877138	.8468999	4.874110
#2	10.22355	.2776179	.3977931	.6753509	.1900592	.8686706	4.886249
#3	9.97096	.2774379	.4009187	.6787787	.1856959	.8462627	4.927415

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168711BS Acquired: 7/7/2025 17:14:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	F -.000804	.2069926	.1965875
Stddev	.002231	.0031104	.0011441
%RSD	277.5836	1.502681	.5819699
#1	.000707	.2101971	.1978173
#2	.000248	.2067949	.1963904
#3	-.003366	.2039856	.1955548

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4764.594	67457.56	9227.857	4550.118	6639.186
Stddev	14.103	360.18	67.997	7.842	13.483
%RSD	.2960022	.5339315	.7368684	.1723377	.2030790
#1	4759.564	67380.03	9150.640	4551.073	6635.690
#2	4780.522	67142.47	9254.149	4541.843	6654.073
#3	4753.695	67850.19	9278.783	4557.439	6627.796

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-03 Acquired: 7/7/2025 17:18:17 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0955078	-.011614	1.487765	.0044139	.0096374	106.2930
Stddev	.0015163	.001859	.010732	.0052339	.0014173	.1455
%RSD	1.587635	16.00887	.7213778	118.5783	14.70607	.1368510
#1	.0956844	-.009802	1.478438	-.000808	.0091604	106.1811
#2	.0939109	-.011524	1.485362	.009660	.0112317	106.4574
#3	.0969281	-.013517	1.499495	.004390	.0085202	106.2404

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.117195	.0060336	.0064001	505.2689	.2816687	.0913166
Stddev	.000180	.0001046	.0002991	3.5761	.0003262	.0002309
%RSD	.0161461	1.733882	4.673550	.7077622	.1158121	.2528218
#1	1.117284	.0059855	.0062782	505.0750	.2820444	.0910976
#2	1.117313	.0061536	.0061811	508.9380	.2815039	.0912945
#3	1.116987	.0059617	.0067408	501.7936	.2814577	.0915578

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4727152	213.4730	3.207860	125.2980	.2719825	-.011802
Stddev	.0033382	.5325	.005750	.3175	.0008199	.000275
%RSD	.7061835	.2494607	.1792624	.2533674	.3014339	2.331341
#1	.4724834	213.2182	3.201575	125.2224	.2721482	-.011490
#2	.4694990	214.0850	3.212857	125.6465	.2710925	-.012009
#3	.4761633	213.1157	3.209149	125.0252	.2727069	-.011906

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.425370	.3537670	1.457718	16.58172	.4794282	.0186545
Stddev	.007048	.0026784	.001715	.04677	.0027624	.0003195
%RSD	.1299069	.7570962	.1176783	.2820485	.5761830	1.712498
#1	5.432046	.3533709	1.458579	16.62234	.4799187	.0190214
#2	5.426063	.3566214	1.458832	16.59222	.4819125	.0185045
#3	5.418002	.3513088	1.455742	16.53059	.4764534	.0184377

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-03 Acquired: 7/7/2025 17:18:17 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0527160	4.050011	F 22.35314	6.772011	17.10188	.1446337
Stddev	.0004549	.008095	.06077	.032358	.10087	.0014445
%RSD	.8630054	.1998755	.2718659	.4778138	.5898390	.9987054
#1	.0531968	4.040680	22.29307	6.765211	17.03518	.1448215
#2	.0522924	4.055153	22.41459	6.743593	17.05252	.1431045
#3	.0526588	4.054200	22.35176	6.807228	17.21792	.1459751

Elem	Sr4077
Units	ppm
Avg	1.113492
Stddev	.005666
%RSD	.5088234
#1	1.116498
#2	1.106957
#3	1.117021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4551.904	69105.47	10296.51	4571.552	5378.326
Stddev	18.344	171.54	23.21	8.181	23.927
%RSD	.4029938	.2482293	.2253862	.1789648	.4448820
#1	4557.549	69065.58	10298.73	4576.192	5392.621
#2	4566.761	68957.39	10272.28	4562.105	5391.655
#3	4531.400	69293.44	10318.53	4576.359	5350.703

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-04 Acquired: 7/7/2025 17:22:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0993808**	**-.008445**	**1.735273**	**.0110157**	**.0090230**	**109.0904**
Stddev	.0006120	.003451	.005738	.0010914	.0031027	.4012
%RSD	.6158034	40.86849	.3306914	9.908047	34.38587	.3677506
#1	.0988068	-.011173	1.740939	.0113999	.0073860	109.4657
#2	.0993109	-.004565	1.729464	.0097841	.0070818	109.1380
#3	.1000248	-.009596	1.735415	.0118631	.0126014	108.6676

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.311895**	**.0069840**	**.0057759**	**645.4034**	**.3267140**	**.1130350**
Stddev	.003725	.0001116	.0001975	5.8099	.0020855	.0008819
%RSD	.2839343	1.598328	3.419423	.9002026	.6383132	.7802372
#1	1.314233	.0069825	.0056483	652.1049	.3280680	.1133639
#2	1.313853	.0068731	.0056759	641.7825	.3243124	.1120358
#3	1.307600	.0070964	.0060034	642.3227	.3277615	.1137052

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4877469**	**262.8201**	**3.904277**	**194.1296**	**.3682313**	**-.013400**
Stddev	.0017994	.6612	.012956	.6063	.0013507	.000354
%RSD	.3689122	.2515788	.3318472	.3123124	.3668040	2.643488
#1	.4893681	263.3423	3.916030	194.5239	.3697352	-.013761
#2	.4858109	263.0414	3.906417	194.4335	.3671215	-.013053
#3	.4880616	262.0767	3.890384	193.4315	.3678371	-.013385

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.703157**	**.3687291**	**1.638144**	**21.36048**	**.5963830**	**.0160319**
Stddev	.028946	.0021247	.009207	.11043	.0025861	.0001809
%RSD	.3757659	.5762192	.5620435	.5170032	.4336333	1.128336
#1	7.732652	.3702452	1.648754	21.45870	.5969686	.0158231
#2	7.702026	.3663006	1.633432	21.38180	.5986261	.0161430
#3	7.674794	.3696414	1.632248	21.24094	.5935543	.0161294

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-04 Acquired: 7/7/2025 17:22:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0692222	4.453574	F 29.20398	6.495096	F 25.75266	.1720357
Stddev	.0003515	.010255	.05742	.012383	.03742	.0012099
%RSD	.5078341	.2302538	.1966207	.1906582	.1453080	.7032635
#1	.0693532	4.462106	29.25344	6.509387	25.74328	.1713863
#2	.0694894	4.456418	29.21748	6.487545	25.79388	.1734316
#3	.0688240	4.442198	29.14101	6.488355	25.72082	.1712892

Elem	Sr4077
Units	ppm
Avg	1.191082
Stddev	.001016
%RSD	.0853080
#1	1.190103
#2	1.191010
#3	1.192132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4724.426	66035.64	10358.92	4396.836	5439.164
Stddev	5.086	149.02	16.39	26.095	15.402
%RSD	.1076516	.2256675	.1581873	.5934850	.2831726
#1	4718.561	65864.71	10340.37	4367.364	5421.498
#2	4727.629	66138.25	10371.45	4406.145	5449.776
#3	4727.087	66103.96	10364.92	4417.000	5446.217

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-01 Acquired: 7/7/2025 17:26:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1369516	.0154655	.6532155	.0191174	.0089267	57.57677	.2534463
Stddev	.0009324	.0011317	.0021015	.0042315	.0005148	.33235	.0027547
%RSD	.6808191	7.317871	.3217139	22.13410	5.766692	.5772332	1.086896
#1	.1359406	.0142461	.6538398	.0237566	.0091791	57.52236	.2527732
#2	.1371366	.0164822	.6508727	.0181256	.0092666	57.93297	.2564751
#3	.1377776	.0156682	.6549342	.0154699	.0083344	57.27499	.2510905

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070671	-.005326	12.76104	.1789279	.0245766	.1225006	435.0593
Stddev	.0001115	.000139	.11340	.0009991	.0002043	.0008723	.7352
%RSD	1.578014	2.604831	.8886039	.5583863	.8311730	.7120545	.1689945
#1	.0071262	-.005350	12.67099	.1780911	.0247915	.1233782	434.2873
#2	.0071367	-.005177	12.88839	.1786584	.0245533	.1216337	435.7512
#3	.0069385	-.005451	12.72376	.1800340	.0243850	.1224900	435.1395

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4432727	5.486614	.0635123	-.020001	2.312179	.3826855	.2400033
Stddev	.0024690	.034704	.0002983	.000145	.008239	.0031238	.0010304
%RSD	.5569864	.6325189	.4696526	.7264791	.3563301	.8162886	.4293265
#1	.4445303	5.512319	.0638553	-.020133	2.317307	.3830721	.2404994
#2	.4448598	5.500386	.0633134	-.020025	2.316554	.3855980	.2388187
#3	.4404282	5.447139	.0633682	-.019845	2.302675	.3793863	.2406918

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.046477	.9105665	-.000214	.0060012	1.212248	3.170688	2.703391
Stddev	.018254	.0035321	.000710	.0008075	.009978	.012412	.009070
%RSD	.3018880	.3878964	331.3636	13.45501	.8230944	.3914669	.3355161
#1	6.038942	.9066387	.000471	.0061990	1.204160	3.174826	2.697275
#2	6.067292	.9134815	-.000946	.0066913	1.223398	3.180502	2.699086
#3	6.033197	.9115792	-.000168	.0051132	1.209185	3.156735	2.713812

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-01 Acquired: 7/7/2025 17:26:56 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7653458	.1936667	-.319966
Stddev	.0008625	.0013549	.000842
%RSD	.1126950	.6995845	.2631752
#1	.7647466	.1945171	-.319039
#2	.7649564	.1943787	-.320176
#3	.7663343	.1921043	-.320683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4977.915	71375.57	10598.78	4799.718	6440.138
Stddev	6.080	164.04	62.65	19.617	14.491
%RSD	.1221470	.2298206	.5910624	.4087163	.2250152
#1	4981.665	71186.46	10581.28	4781.626	6439.558
#2	4981.181	71460.89	10546.75	4820.568	6454.910
#3	4970.900	71479.37	10668.31	4796.960	6425.945

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV04 Acquired: 7/7/2025 17:31:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.038761**	**4.544991**	**4.927320**	**5.021491**	**5.063869**	**9.914911**
Stddev	.012314	.045938	.009718	.007416	.006861	.055744
%RSD	.2443838	1.010737	.1972207	.1476777	.1354968	.5622196
#1	5.040774	4.497314	4.927974	5.023642	5.070823	9.979276
#2	5.049945	4.548694	4.936694	5.027594	5.057104	9.882276
#3	5.025565	4.588965	4.917291	5.013238	5.063680	9.883180

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.20367**	**.2400284**	**2.484398**	**24.63868**	**1.007441**	**2.487191**
Stddev	.04063	.0008706	.006553	.15528	.001843	.006403
%RSD	.3981598	.3626944	.2637773	.6302184	.1829125	.2574357
#1	10.22120	.2410288	2.488657	24.81698	1.006303	2.492287
#2	10.15722	.2396129	2.487685	24.56589	1.006452	2.489281
#3	10.23259	.2394433	2.476852	24.53317	1.009567	2.480004

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.260623**	**5.226161**	**2.451204**	**23.93119**	**2.495769**	**1.258619**
Stddev	.003617	.049364	.018718	.16174	.007453	.001584
%RSD	.2869148	.9445578	.7636073	.6758719	.2986241	.1258520
#1	1.262856	5.262323	2.472582	24.10804	2.501229	1.258661
#2	1.262563	5.246239	2.443271	23.89476	2.498801	1.257015
#3	1.256450	5.169922	2.437760	23.79076	2.487278	1.260182

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.69703**	**2.445457**	**2.570299**	**26.96913**	**4.749088**	**5.001983**
Stddev	.12045	.011958	.003073	.08180	.015965	.008224
%RSD	.4511559	.4889945	.1195448	.3033170	.3361730	.1644203
#1	26.83554	2.459192	2.572479	27.01100	4.767403	5.009168
#2	26.61691	2.439822	2.566785	26.87487	4.741751	5.003770
#3	26.63863	2.437357	2.571634	27.02152	4.738111	4.993013

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV04 Acquired: 7/7/2025 17:31:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.928044**	**4.927088**	**5.161477**	F **4.176408**	**4.750501**	**5.107952**
Stddev	.011014	.024885	.018510	.004921	.013711	.034313
%RSD	.2235011	.5050653	.3586254	.1178400	.2886212	.6717548
#1	4.931358	4.955712	5.142039	4.171361	4.756019	5.147299
#2	4.937022	4.910588	5.178895	4.176668	4.760593	5.092310
#3	4.915754	4.914964	5.163496	4.181194	4.734891	5.084248

Elem	Sr4077
Units	ppm
Avg	**5.055194**
Stddev	.033965
%RSD	.6718758
#1	5.035943
#2	5.094411
#3	5.035228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4656.642**	**66191.49**	**9039.986**	**4366.509**	**6321.463**
Stddev	13.816	33.60	27.448	1.211	19.922
%RSD	.2966882	.0507618	.3036335	.0277254	.3151476
#1	4644.624	66190.36	9015.339	4365.111	6305.457
#2	4653.565	66158.47	9035.052	4367.234	6315.158
#3	4671.737	66225.64	9069.566	4367.181	6343.775

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB04 Acquired: 7/7/2025 17:35:11 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006994**	**-.001844**	**.0010018**	**-.004230**	**-.000921**	**.0042017**	**-.008541**
Stddev	.0016538	.000785	.0013480	.001708	.000445	.0010188	.001156
%RSD	236.4708	42.56409	134.5535	40.38761	48.31431	24.24836	13.53203
#1	-.001201	-.002496	-.000250	-.002342	-.000424	.0031126	-.009726
#2	.001484	-.000973	.002429	-.004680	-.001283	.0051315	-.007416
#3	.001815	-.002064	.000827	-.005669	-.001056	.0043609	-.008482

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000096**	**-.000002**	**.0131248**	**.0001686**	**-.000173**	**-.000072**	**-.003222**
Stddev	.000031	.000029	.0048102	.0003831	.000342	.000426	.005176
%RSD	31.66152	1323.796	36.64983	227.2350	198.1236	592.1174	160.6781
#1	-.000132	-.000030	.0174189	.0005072	-.000098	-.000052	.001604
#2	-.000076	-.000004	.0079267	.0002457	-.000546	.000343	-.008689
#3	-.000082	.000028	.0140287	-.000247	.000126	-.000507	-.002579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001711**	**.0057196**	**.0002139**	**-.000065**	**.0791759**	**.0013273**	**.0001236**
Stddev	.0001691	.0064811	.0001623	.000146	.0067389	.0021386	.0002785
%RSD	98.78083	113.3129	75.91126	224.6002	8.511305	161.1205	225.2929
#1	.0001342	.0131129	.0003677	-.000115	.0713954	.0007372	.0002427
#2	.0003556	.0030277	.0000442	.000100	.0829640	-.000454	-.000195
#3	.0000236	.0010183	.0002297	-.000179	.0831683	.003699	.000323

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.318313**	**.0003147**	**.0006950**	**.0003952**	**-.000312**	**-.008183**	**.0087282**
Stddev	.051527	.0002093	.0000560	.0006329	.000553	.011195	.0008229
%RSD	16.18743	66.50656	8.061184	160.1712	177.3050	136.8061	9.428616
#1	-.324117	.0004708	.0006453	.0001868	-.000107	-.019095	.0088252
#2	-.366693	.0003965	.0006841	.0011060	.000110	-.008728	.0078610
#3	-.264131	.0000769	.0007557	-.000107	-.000939	.003274	.0094983

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB04 Acquired: 7/7/2025 17:35:11 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005614	.0038742	.0001171
Stddev	.0015896	.0001578	.0000249
%RSD	283.1475	4.073887	21.22475
#1	.0009704	.0039318	.0001280
#2	-.001193	.0036956	.0000887
#3	.001907	.0039951	.0001347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4805.181	65008.15	9407.656	4405.617	6819.607
Stddev	9.978	230.28	49.586	8.717	8.261
%RSD	.2076419	.3542382	.5270820	.1978652	.1211358
#1	4796.930	65252.17	9369.956	4412.204	6810.682
#2	4816.270	64794.64	9389.185	4395.732	6826.986
#3	4802.342	64977.65	9463.826	4408.916	6821.154

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-02 Acquired: 7/7/2025 17:39:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0921469	.0177851	.9397994	.0373167	.0063413	90.12675	.4575807
Stddev	.0025590	.0031522	.0025209	.0021095	.0003465	.24265	.0028132
%RSD	2.777105	17.72372	.2682375	5.652946	5.463931	.2692267	.6148049
#1	.0929068	.0209100	.9419368	.0348840	.0059608	89.85523	.4544262
#2	.0892940	.0178388	.9370194	.0384262	.0064246	90.20266	.4584863
#3	.0942398	.0146064	.9404420	.0386398	.0066386	90.32237	.4598297

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079333	-.008864	21.30936	.2224183	.0275680	.1637888	517.1971
Stddev	.0001500	.000447	.10715	.0006211	.0001223	.0030173	2.2367
%RSD	1.890571	5.038427	.5028110	.2792500	.4438149	1.842216	.4324653
#1	.0080735	-.009227	21.18815	.2228894	.0275085	.1633038	518.3108
#2	.0077751	-.008366	21.39146	.2226511	.0277088	.1670193	514.6222
#3	.0079513	-.009000	21.34845	.2217145	.0274869	.1610434	518.6584

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8206538	3.782682	.0642116	-.020601	5.531961	.4439902	.5776764
Stddev	.0028659	.009836	.0003036	.000769	.041251	.0013992	.0022599
%RSD	.3492200	.2600374	.4728822	3.732704	.7456872	.3151451	.3912024
#1	.8177248	3.778042	.0644684	-.021418	5.546072	.4437318	.5797278
#2	.8234521	3.776024	.0638765	-.020493	5.485506	.4427382	.5780474
#3	.8207846	3.793980	.0642898	-.019892	5.564304	.4455006	.5752540

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.788775	1.101109	.0045140	.2354393	.9778271	4.303787	6.724698
Stddev	.054293	.008691	.0001113	.0010274	.0057940	.011939	.020041
%RSD	.6970636	.7893045	2.465714	.4363932	.5925351	.2774104	.2980227
#1	7.808204	1.106497	.0043893	.2356585	.9712076	4.315108	6.708169
#2	7.727441	1.091083	.0046032	.2363395	.9802960	4.291314	6.718935
#3	7.830679	1.105747	.0045496	.2343200	.9819776	4.304938	6.746989

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-02 Acquired: 7/7/2025 17:39:30 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**10.86243**	**.2423646**	**-.331501**
Stddev	.02210	.0008968	.002161
%RSD	.2034506	.3700107	.6519277
#1	10.83770	.2415094	-.332699
#2	10.86932	.2432978	-.329007
#3	10.88026	.2422865	-.332799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4767.870**	**64345.99**	**10045.65**	**4369.856**	**6396.246**
Stddev	13.921	136.17	66.47	11.358	12.837
%RSD	.2919679	.2116245	.6617259	.2599073	.2006953
#1	4764.377	64212.19	10100.84	4358.373	6389.373
#2	4756.029	64341.37	9971.86	4381.084	6388.310
#3	4783.205	64484.41	10064.25	4370.112	6411.056

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-03 Acquired: 7/7/2025 17:43:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0683809**	**-.001850**	**.1559141**	**.0150924**	**.0056944**	**113.4640**
Stddev	.0037529	.001234	.0012697	.0014976	.0014161	.2440
%RSD	5.488170	66.70485	.8143315	9.923224	24.86790	.2150202
#1	.0641496	-.002112	.1544775	.0161204	.0049942	113.5448
#2	.0713063	-.000506	.1568860	.0157827	.0073241	113.6574
#3	.0696869	-.002932	.1563787	.0133741	.0047647	113.1899

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3288449**	**.0072587**	**.0016609**	**264.3403**	**.2299557**	**.0754332**
Stddev	.0025242	.0001101	.0003178	.4914	.0003626	.0001519
%RSD	.7675840	1.516731	19.13567	.1858952	.1576738	.2013969
#1	.3297368	.0071498	.0014864	264.6984	.2299540	.0753471
#2	.3308020	.0072563	.0014685	264.5425	.2303192	.0753438
#3	.3259958	.0073700	.0020277	263.7801	.2295940	.0756086

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3679684**	**376.9717**	**1.320126**	**77.43703**	**.1441218**	**-.020319**
Stddev	.0033310	1.4222	.000667	.22037	.0011718	.000560
%RSD	.9052384	.3772692	.0505210	.2845820	.8130825	2.757578
#1	.3647606	378.1104	1.320245	77.65878	.1440067	-.019682
#2	.3677343	377.4270	1.320725	77.43426	.1430117	-.020737
#3	.3714102	375.3775	1.319407	77.21806	.1453469	-.020537

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.483895**	**.6451957**	**.3943713**	**8.393991**	**.8645133**	**.0041070**
Stddev	.023151	.0026949	.0007693	.033449	.0038533	.0001547
%RSD	.2728796	.4176893	.1950653	.3984909	.4457176	3.767835
#1	8.491008	.6452914	.3935240	8.429411	.8688137	.0040217
#2	8.502654	.6424542	.3945639	8.362942	.8633520	.0040137
#3	8.458022	.6478414	.3950259	8.389620	.8613743	.0042856

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-03 Acquired: 7/7/2025 17:43:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054565	3.191570	F 14.10460	6.048292	8.936419	.1919579
Stddev	.0016505	.007525	.05793	.014230	.015050	.0024060
%RSD	30.24895	.2357842	.4107403	.2352675	.1684070	1.253425
#1	.0036406	3.192755	14.14867	6.052092	8.946077	.1892635
#2	.0068656	3.198432	14.12615	6.032548	8.919079	.1938918
#3	.0058634	3.183522	14.03898	6.060236	8.944101	.1927183

Elem	Sr4077
Units	ppm
Avg	.4394267
Stddev	.0016194
%RSD	.3685325
#1	.4375675
#2	.4405298
#3	.4401829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4790.177	69896.60	10548.43	4602.842	5733.156
Stddev	10.561	314.83	27.90	7.099	14.602
%RSD	.2204735	.4504287	.2644887	.1542402	.2546931
#1	4797.489	69727.72	10540.59	4611.031	5742.014
#2	4794.973	69702.24	10525.30	4598.412	5741.152
#3	4778.069	70259.84	10579.41	4599.084	5716.302

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-04 Acquired: 7/7/2025 17:47:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1382655**	**.0080704**	**.1479641**	**.0361279**	**.0059156**	**166.6761**	**.4452643**
Stddev	.0008540	.0033523	.0026957	.0028938	.0012951	.4693	.0023837
%RSD	.6176690	41.53773	1.821887	8.009858	21.89281	.2815799	.5353533
#1	.1374859	.0107881	.1509387	.0329032	.0067724	167.1666	.4478448
#2	.1381324	.0090988	.1456827	.0369823	.0044257	166.6303	.4431447
#3	.1391783	.0043244	.1472707	.0384984	.0065487	166.2313	.4448033

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114934**	**-.001167**	**13.09044**	**.4895851**	**.0738179**	**.1302283**	**561.1862**
Stddev	.0000476	.000210	.01374	.0033774	.0004676	.0012829	.5269
%RSD	.4140995	17.96096	.1049889	.6898465	.6334993	.9850975	.0938947
#1	.0114385	-.000944	13.09366	.4914596	.0738217	.1303571	560.8679
#2	.0115225	-.001361	13.10228	.4916094	.0733484	.1288860	560.8964
#3	.0115192	-.001196	13.07537	.4856861	.0742836	.1314420	561.7944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.259620**	**9.555628**	**.1068267**	**-.029310**	**2.777408**	**.7350663**	**.2885725**
Stddev	.003026	.037744	.0002724	.001796	.011255	.0038616	.0010177
%RSD	.2402484	.3949927	.2549774	6.126092	.4052276	.5253376	.3526515
#1	1.263014	9.580533	.1066671	-.029696	2.780713	.7394766	.2885331
#2	1.258640	9.574150	.1071412	-.030881	2.786640	.7334299	.2896093
#3	1.257205	9.512201	.1066717	-.027352	2.764870	.7322923	.2875751

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.126410**	**1.104783**	**.0062514**	**.0076800**	**2.528789**	**3.008637**	**4.405126**
Stddev	.063023	.004502	.0000405	.0004567	.009037	.007950	.015464
%RSD	1.028707	.4075333	.6475380	5.947152	.3573747	.2642485	.3510494
#1	6.198539	1.105548	.0062969	.0072830	2.531762	3.015980	4.422604
#2	6.098708	1.099947	.0062375	.0081792	2.535966	3.009738	4.393221
#3	6.081983	1.108854	.0062196	.0075777	2.518640	3.000194	4.399552

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-04 Acquired: 7/7/2025 17:47:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.237799**	**.2929982**	**-.480502**
Stddev	.017704	.0005931	.000651
%RSD	.5467965	.2024237	.1354893
#1	3.236577	.2931055	-.479983
#2	3.220738	.2935303	-.480289
#3	3.256083	.2923588	-.481232

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5313.551**	**74062.16**	**10995.45**	**4978.385**	**6363.180**
Stddev	7.343	251.95	28.72	10.634	13.037
%RSD	.1381999	.3401830	.2612195	.2135970	.2048834
#1	5306.301	73984.09	10964.76	4972.541	6351.152
#2	5320.984	73858.50	10999.90	4971.955	6377.034
#3	5313.370	74343.91	11021.69	4990.659	6361.355

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-05 Acquired: 7/7/2025 17:51:45 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1294591	.0088835	.1252181	.0238598	.0074579	185.2188	.3215629
Stddev	.0012297	.0020798	.0010067	.0062671	.0008414	.7636	.0023900
%RSD	.9498876	23.41245	.8039439	26.26647	11.28194	.4122634	.7432416
#1	.1301563	.0102190	.1252941	.0231584	.0066325	185.8345	.3232064
#2	.1280393	.0099443	.1241756	.0179729	.0074268	185.4576	.3226611
#3	.1301819	.0064871	.1261847	.0304481	.0083144	184.3644	.3188212

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157952	.0033073	12.81044	.7614184	.1018727	.1772861	615.7663
Stddev	.0002960	.0001671	.03752	.0011443	.0000586	.0013265	1.5137
%RSD	1.874177	5.053658	.2928712	.1502903	.0574893	.7482354	.2458185
#1	.0160036	.0034725	12.80604	.7613802	.1018115	.1775223	614.2421
#2	.0159257	.0031383	12.84997	.7625813	.1018783	.1758574	617.2692
#3	.0154564	.0033111	12.77532	.7602936	.1019283	.1784787	615.7876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.143874	10.09736	.1355263	-.037103	7.528457	.6996230	.3479351
Stddev	.007038	.07315	.0005672	.000450	.009269	.0061127	.0012509
%RSD	.6152874	.7244889	.4185233	1.213312	.1231164	.8737151	.3595104
#1	1.149082	10.16149	.1360118	-.037582	7.532383	.7024003	.3489667
#2	1.146673	10.11291	.1349028	-.037036	7.517871	.7038540	.3465438
#3	1.135867	10.01768	.1356642	-.036689	7.535117	.6926147	.3482947

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.080008	1.205103	.0041316	.0165049	2.698762	3.949017	5.609498
Stddev	.022968	.004745	.0003467	.0008382	.012081	.008870	.025766
%RSD	.2529497	.3937555	8.390270	5.078297	.4476645	.2246175	.4593296
#1	9.106355	1.200355	.0041559	.0155519	2.700655	3.938849	5.579829
#2	9.069458	1.209846	.0044654	.0171279	2.709786	3.955168	5.622400
#3	9.064211	1.205108	.0037734	.0168348	2.685846	3.953034	5.626264

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-05 Acquired: 7/7/2025 17:51:45 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.039035**	**.3242287**	**-.532574**
Stddev	.016263	.0004445	.001673
%RSD	.7975726	.1371071	.3140467
#1	2.022729	.3242923	-.530748
#2	2.055254	.3237557	-.534031
#3	2.039120	.3246380	-.532945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5188.105**	**75947.12**	**10964.14**	**5090.110**	**6129.517**
Stddev	4.313	48.47	53.27	9.225	5.936
%RSD	.0831331	.0638228	.4858948	.1812419	.0968382
#1	5192.454	75944.26	10907.92	5082.186	6135.331
#2	5183.829	75996.95	10970.62	5100.238	6123.467
#3	5188.030	75900.13	11013.88	5087.906	6129.754

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06 Acquired: 7/8/2025 1:19:02 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1093098**	**-.001701**	**.1860777**	**.0206677**	**.0035000**	**176.2994**	**.4634710**
Stddev	.0007257	.004196	.0019748	.0011538	.0017162	1.8513	.0048366
%RSD	.6638893	246.6319	1.061285	5.582790	49.03523	1.050109	1.043556
#1	.1085133	-.002737	.1866214	.0213696	.0015183	174.1791	.4579432
#2	.1099335	-.005282	.1877237	.0212974	.0044814	177.1230	.4655458
#3	.1094825	.002915	.1838880	.0193360	.0045003	177.5960	.4669240

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0127000**	**.0032538**	**10.76431**	**.3097663**	**.0976212**	**.1779491**	**448.2842**
Stddev	.0001221	.0001757	.13176	.0008113	.0001388	.0002398	1.3308
%RSD	.9610847	5.401457	1.224087	.2618898	.1421529	.1347406	.2968757
#1	.0125591	.0034547	10.62599	.3102557	.0977231	.1777605	449.7937
#2	.0127738	.0031285	10.77857	.3102134	.0976773	.1782189	447.2801
#3	.0127670	.0031783	10.88836	.3088299	.0974631	.1778679	447.7787

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.496550**	**13.31444**	**.1470004**	**-.025984**	**6.132398**	**.5917542**	**.3102874**
Stddev	.021377	.14328	.0002900	.000335	.028872	.0055718	.0009897
%RSD	1.428443	1.076136	.1972492	1.288702	.4708189	.9415695	.3189768
#1	1.472389	13.14927	.1471663	-.026292	6.155211	.5853742	.3099003
#2	1.504251	13.38886	.1466656	-.025628	6.099937	.5942261	.3114122
#3	1.513009	13.40520	.1471694	-.026032	6.142046	.5956624	.3095497

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.633520**	**.9121339**	**.0054024**	**.0181569**	**2.834752**	**2.714260**	**4.811172**
Stddev	.072437	.0100157	.0002328	.0000786	.026782	.015870	.017405
%RSD	.8390200	1.098056	4.308460	.4329264	.9447797	.5846919	.3617666
#1	8.700086	.9223159	.0051351	.0182260	2.803934	2.730845	4.827436
#2	8.556375	.9022931	.0055119	.0181733	2.847933	2.699218	4.813267
#3	8.644100	.9117926	.0055602	.0180714	2.852390	2.712717	4.792815

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06 Acquired: 7/8/2025 1:19:02 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.940094**	**.2691981**	**-.372218**
Stddev	.013512	.0011064	.001841
%RSD	.6964399	.4109920	.4946108
#1	1.955122	.2682863	-.374344
#2	1.936209	.2704289	-.371175
#3	1.928950	.2688789	-.371135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5510.183**	**79794.51**	**11370.41**	**5327.330**	**6157.990**
Stddev	13.540	58.33	157.53	11.233	13.851
%RSD	.2457358	.0730948	1.385407	.2108620	.2249334
#1	5497.473	79816.53	11551.01	5338.587	6142.216
#2	5524.424	79728.38	11261.36	5316.121	6168.170
#3	5508.652	79838.61	11298.86	5327.281	6163.583

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06DUP Acquired: 7/8/2025 1:23:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1110445	.0020377	.1935505	.0249898	.0046222	176.7168	.4640669
Stddev	.0006143	.0015734	.0040069	.0045303	.0000886	.4275	.0021037
%RSD	.5531923	77.21195	2.070235	18.12846	1.916267	.2418956	.4533121
#1	.1107206	.0004382	.1981009	.0280055	.0046739	176.5586	.4619072
#2	.1117529	.0035836	.1920003	.0271837	.0046728	177.2008	.4661096
#3	.1106598	.0020914	.1905502	.0197803	.0045199	176.3909	.4641839

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126362	.0023021	10.71527	.3094978	.0970364	.1776698	449.5593
Stddev	.0001538	.0001313	.06825	.0011672	.0003113	.0022730	2.1766
%RSD	1.216823	5.703279	.6369832	.3771222	.3208173	1.279362	.4841664
#1	.0124966	.0022644	10.64582	.3083028	.0973890	.1750609	452.0180
#2	.0126110	.0021938	10.78226	.3095555	.0967994	.1787259	447.8787
#3	.0128010	.0024481	10.71773	.3106350	.0969209	.1792227	448.7812

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.597091	13.15154	.1452269	-.026211	6.035930	.5969810	.3041388
Stddev	.004814	.04751	.0005101	.000321	.028705	.0029655	.0006650
%RSD	.3014306	.3612467	.3512374	1.226021	.4755661	.4967532	.2186483
#1	1.596446	13.09708	.1457805	-.025921	6.069033	.5960180	.3046648
#2	1.602196	13.18451	.1451244	-.026557	6.017923	.6003083	.3043601
#3	1.592633	13.17302	.1447759	-.026155	6.020834	.5946166	.3033913

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.806650	.9275139	.0053458	.0220145	2.968660	3.073318	4.763158
Stddev	.068416	.0104065	.0001753	.0001322	.011684	.016725	.004853
%RSD	.7768639	1.121979	3.279759	.6005596	.3935647	.5442096	.1018798
#1	8.872846	.9394777	.0055482	.0221235	2.971474	3.091473	4.758513
#2	8.810891	.9205595	.0052489	.0220524	2.978679	3.069943	4.762766
#3	8.736212	.9225045	.0052402	.0218674	2.955826	3.058537	4.768195

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06DUP Acquired: 7/8/2025 1:23:10 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.947661	.2716113	-.373727
Stddev	.004655	.0009776	.002145
%RSD	.2390212	.3599249	.5740744
#1	1.945319	.2708016	-.376103
#2	1.944642	.2713349	-.371930
#3	1.953022	.2726973	-.373150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5551.841	80426.69	11430.11	5365.826	6221.022
Stddev	7.616	111.41	76.17	19.347	8.481
%RSD	.1371729	.1385216	.6664327	.3605574	.1363293
#1	5545.256	80386.72	11515.05	5348.353	6212.465
#2	5560.181	80552.56	11367.85	5386.618	6229.426
#3	5550.087	80340.77	11407.43	5362.507	6221.174

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06LX5 Acquired: 7/8/2025 1:27:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227999**	**-.000487**	**.0380137**	**-.000848**	**.0012089**	**40.36407**	**.1007675**
Stddev	.0008295	.002874	.0010289	.003192	.0003166	.12417	.0012302
%RSD	3.638108	589.8268	2.706606	376.3481	26.19071	.3076360	1.220821
#1	.0221664	-.002966	.0374266	-.004533	.0014706	40.23373	.0997845
#2	.0237388	.002663	.0374127	.001070	.0012992	40.48100	.1003709
#3	.0224946	-.001159	.0392017	.000919	.0008570	40.37747	.1021471

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029056**	**-.001066**	**2.374604**	**.0725120**	**.0191809**	**.0517669**	**98.78198**
Stddev	.0000489	.000190	.014581	.0009866	.0002686	.0009726	1.37772
%RSD	1.683181	17.84578	.6140245	1.360584	1.400157	1.878867	1.394704
#1	.0029305	-.001038	2.364654	.0721715	.0192446	.0519993	98.06315
#2	.0029370	-.001268	2.367816	.0736238	.0188863	.0506991	100.3704
#3	.0028492	-.000891	2.391341	.0717408	.0194119	.0526023	97.9123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3500839**	**3.137025**	**.0296964**	**-.007530**	**1.369871**	**.1400467**	**.0707044**
Stddev	.0013475	.009288	.0002170	.000354	.028177	.0016020	.0008463
%RSD	.3849023	.2960699	.7306265	4.697351	2.056876	1.143878	1.196903
#1	.3485573	3.134262	.0296980	-.007696	1.353499	.1396739	.0703099
#2	.3505869	3.147380	.0294786	-.007123	1.402406	.1418022	.0716759
#3	.3511075	3.129432	.0299126	-.007769	1.353708	.1386641	.0701274

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.572544**	**.1951670**	**.0008650**	**.0034634**	**.6480744**	**.5755645**	**.9735861**
Stddev	.058004	.0043282	.0002225	.0001748	.0033501	.0129460	.0026630
%RSD	3.688567	2.217685	25.72915	5.046600	.5169270	2.249275	.2735239
#1	1.532548	.1928363	.0006308	.0036649	.6448796	.5652440	.9713785
#2	1.639069	.2001611	.0010738	.0033524	.6515607	.5713592	.9728362
#3	1.546015	.1925037	.0008903	.0033730	.6477829	.5900904	.9765437

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06LX5 Acquired: 7/8/2025 1:27:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3815255	.0607897	-.081337
Stddev	.0022950	.0009890	.001238
%RSD	.6015215	1.626851	1.521524
#1	.3837714	.0615309	-.080703
#2	.3816209	.0596668	-.082763
#3	.3791844	.0611715	-.080545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4862.981	71674.60	9563.680	4789.533	6459.148
Stddev	7.102	733.05	34.208	58.481	11.713
%RSD	.1460510	1.022751	.3576884	1.221025	.1813415
#1	4855.767	72033.85	9565.091	4805.480	6449.695
#2	4863.208	70831.22	9597.161	4724.732	6455.496
#3	4869.967	72158.73	9528.789	4838.387	6472.252

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06MS Acquired: 7/8/2025 1:31:23 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7321917**	**1.389213**	**1.106619**	**1.536063**	**.2841839**	**219.0459**	**.6538104**
Stddev	.0021734	.025188	.003411	.009167	.0023335	1.5408	.0013531
%RSD	.2968389	1.813116	.3082232	.5967671	.8211264	.7034329	.2069512
#1	.7332129	1.410431	1.103896	1.525719	.2814916	219.0839	.6523851
#2	.7336664	1.361377	1.105517	1.539292	.2854344	217.4864	.6550773
#3	.7296957	1.395833	1.110445	1.543178	.2856256	220.5674	.6539689

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1635385**	**.1958266**	**13.98012**	**.6427131**	**.2897665**	**.4527332**	**441.7510**
Stddev	.0008509	.0004314	.02131	.0008223	.0002995	.0011630	3.1620
%RSD	.5202845	.2203107	.1524373	.1279436	.1033719	.2568887	.7157881
#1	.1630575	.1953879	13.99817	.6436562	.2900992	.4519965	444.0205
#2	.1630372	.1958414	13.98558	.6423365	.2896821	.4521291	443.0933
#3	.1645210	.1962504	13.95661	.6421465	.2895183	.4540739	438.1393

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.434009**	**16.12050**	**.6491752**	**.0323589**	**8.602346**	**.8256604**	**.4840928**
Stddev	.004805	.07417	.0009997	.0002532	.073369	.0012316	.0015802
%RSD	.3350541	.4600723	.1539925	.7823558	.8528943	.1491663	.3264342
#1	1.431551	16.10513	.6492031	.0325807	8.632215	.8256954	.4858055
#2	1.430931	16.05523	.6481619	.0324130	8.656069	.8244117	.4826913
#3	1.439546	16.20115	.6501607	.0320831	8.518753	.8268741	.4837815

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.70254**	**1.094409**	**.3067566**	**.6726337**	**3.468204**	**10.30124**	**10.95482**
Stddev	.19334	.012546	.0001624	.0017855	.005886	.06503	.00462
%RSD	1.033746	1.146392	.0529395	.2654418	.1697118	.6313273	.0421672
#1	18.80334	1.102915	.3066299	.6738743	3.470315	10.34341	10.95079
#2	18.82466	1.100313	.3067002	.6705874	3.472743	10.33398	10.95381
#3	18.47964	1.080000	.3069397	.6734393	3.461553	10.22635	10.95986

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06MS Acquired: 7/8/2025 1:31:23 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.796009**	**.4672166**	**-.194526**
Stddev	.013506	.0047911	.003329
%RSD	.7519910	1.025460	1.711186
#1	1.806428	.4707885	-.196745
#2	1.780750	.4690892	-.196135
#3	1.800849	.4617720	-.190699

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5561.322**	**81034.14**	**11308.90**	**5434.798**	**6187.453**
Stddev	7.705	307.92	53.19	23.925	7.178
%RSD	.1385465	.3799906	.4703372	.4402107	.1160041
#1	5562.091	80718.01	11322.76	5407.296	6190.225
#2	5553.261	81051.28	11353.78	5450.816	6179.302
#3	5568.614	81333.14	11250.15	5446.281	6192.831

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06MSD Acquired: 7/8/2025 1:35:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7367633**	**1.420210**	**1.092828**	**1.549174**	**.2890341**	**214.0348**	**.6200730**
Stddev	.0007025	.017369	.004353	.000721	.0008058	.8340	.0043371
%RSD	.0953512	1.223003	.3983460	.0465570	.2787721	.3896580	.6994485
#1	.7372644	1.412908	1.096854	1.549011	.2881223	213.8445	.6249593
#2	.7359603	1.407684	1.088208	1.549963	.2893297	214.9475	.6166792
#3	.7370653	1.440038	1.093423	1.548548	.2896503	213.3124	.6185805

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1661096**	**.1953344**	**12.40576**	**.6376744**	**.2871082**	**.4435618**	**432.0794**
Stddev	.0008723	.0004962	.06532	.0021610	.0002421	.0032102	.5355
%RSD	.5251178	.2539990	.5265306	.3388914	.0843141	.7237205	.1239240
#1	.1669637	.1955384	12.48014	.6352416	.2872863	.4435389	432.1305
#2	.1652202	.1947688	12.37939	.6393714	.2868326	.4403631	432.5875
#3	.1661449	.1956962	12.35774	.6384102	.2872057	.4467833	431.5202

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.368425**	**15.60754**	**.6447799**	**.0352446**	**8.539810**	**.8245098**	**.4741363**
Stddev	.002057	.06642	.0012403	.0003058	.027565	.0044556	.0004809
%RSD	.1503346	.4255434	.1923623	.8676061	.3227801	.5403945	.1014273
#1	1.367536	15.63612	.6444057	.0351927	8.511654	.8276750	.4746835
#2	1.366961	15.53162	.6437698	.0349680	8.566742	.8194146	.4737808
#3	1.370777	15.65489	.6461643	.0355730	8.541033	.8264399	.4739446

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.66218**	**1.093162**	**.3133827**	**.6700044**	**3.481485**	**10.73879**	**10.19081**
Stddev	.06947	.002326	.0001824	.0024855	.010184	.04083	.00712
%RSD	.3722710	.2128118	.0581951	.3709663	.2925286	.3802479	.0698249
#1	18.60796	1.092338	.3133916	.6695666	3.488496	10.70867	10.18706
#2	18.74049	1.095788	.3135604	.6677669	3.469803	10.78526	10.18635
#3	18.63810	1.091360	.3131960	.6726798	3.486157	10.72242	10.19901

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06MSD Acquired: 7/8/2025 1:35:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.874757**	**.4637569**	**-.186175**
Stddev	.004906	.0020105	.001196
%RSD	.2616710	.4335251	.6422239
#1	1.874710	.4649259	-.187055
#2	1.869875	.4614353	-.186656
#3	1.879686	.4649093	-.184813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5559.975**	**79718.78**	**11180.08**	**5353.335**	**6258.647**
Stddev	5.676	214.01	37.40	17.242	4.030
%RSD	.1020918	.2684553	.3345282	.3220825	.0643845
#1	5566.079	79833.57	11141.86	5339.707	6262.744
#2	5554.856	79471.87	11216.60	5347.579	6254.689
#3	5558.991	79850.91	11181.79	5372.719	6258.509

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06A Acquired: 7/8/2025 1:39:28 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7421727	1.378295	1.081287	1.587341	.6594177	174.9190	.6245491
Stddev	.0061763	.032841	.007602	.013083	.0070827	.3981	.0018047
%RSD	.8321982	2.382691	.7030212	.8241994	1.074087	.2276134	.2889542
#1	.7480949	1.416162	1.082968	1.600732	.6649911	174.7122	.6253527
#2	.7426530	1.361104	1.087908	1.586702	.6618146	175.3780	.6258125
#3	.7357702	1.357618	1.072986	1.574589	.6514476	174.6669	.6224823

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1658639	.1898946	11.01142	.6288065	.2866474	.4074311	444.7129
Stddev	.0009602	.0017246	.05587	.0012021	.0025649	.0040878	1.6449
%RSD	.5788931	.9082020	.5073809	.1911667	.8947950	1.003312	.3698741
#1	.1651772	.1907892	11.05542	.6274874	.2886136	.4085268	446.4145
#2	.1669611	.1909881	11.03027	.6298401	.2875825	.4108594	444.5928
#3	.1654536	.1879065	10.94856	.6290920	.2837462	.4029071	443.1313

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.498897	14.96463	.6218813	.0344559	9.021154	.8122967	.4793430
Stddev	.000823	.05557	.0042538	.0004114	.019372	.0031010	.0011979
%RSD	.0548802	.3713641	.6840178	1.194020	.2147390	.3817609	.2498975
#1	1.498236	14.99088	.6233949	.0347930	9.042749	.8129051	.4805791
#2	1.499818	15.00221	.6251713	.0345772	9.015411	.8150484	.4792624
#3	1.498636	14.90079	.6170778	.0339975	9.005304	.8089365	.4781875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.00753	1.132778	.3368702	.6825457	2.794565	4.424721	9.547927
Stddev	.04353	.003849	.0019345	.0055352	.009704	.017519	.090512
%RSD	.2417256	.3397526	.5742697	.8109642	.3472462	.3959429	.9479788
#1	17.99321	1.137138	.3376071	.6852999	2.798042	4.442447	9.619069
#2	18.05642	1.131341	.3383280	.6861636	2.802052	4.407416	9.578663
#3	17.97297	1.129854	.3346755	.6761737	2.783601	4.424301	9.446049

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2484-06A Acquired: 7/8/2025 1:39:28 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.728173**	**.4421222**	**-.210943**
Stddev	.014259	.0020906	.002088
%RSD	.8251095	.4728545	.9898787
#1	1.731206	.4410129	-.213190
#2	1.740672	.4445337	-.210578
#3	1.712641	.4408201	-.209062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5705.938**	**78823.74**	**11269.89**	**5335.607**	**6426.376**
Stddev	31.227	57.50	37.16	16.015	44.349
%RSD	.5472673	.0729508	.3297510	.3001457	.6901095
#1	5686.519	78757.40	11283.86	5317.532	6405.232
#2	5689.337	78859.30	11227.76	5348.027	6396.556
#3	5741.959	78854.52	11298.04	5341.261	6477.340

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV05 Acquired: 7/8/2025 1:43:24 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.132205**	F **4.266223**	**5.057032**	**5.103450**	**5.111786**	**9.950515**
Stddev	.017268	.086790	.016996	.009867	.021224	.014281
%RSD	.3364598	2.034356	.3360785	.1933399	.4151904	.1435175
#1	5.119429	4.306267	5.044390	5.097971	5.097932	9.957873
#2	5.125335	4.166641	5.050355	5.097537	5.101207	9.959617
#3	5.151850	4.325762	5.076353	5.114840	5.136220	9.934056

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.30149**	**.2520349**	**2.547079**	**24.72804**	**1.018527**	**2.535903**
Stddev	.09982	.0007511	.009119	.02234	.003361	.008086
%RSD	.9689445	.2979988	.3580054	.0903553	.3299801	.3188626
#1	10.41578	.2514035	2.538446	24.70706	1.019888	2.528765
#2	10.23145	.2518357	2.546173	24.72551	1.014700	2.534259
#3	10.25724	.2528655	2.556616	24.75153	1.020995	2.544684

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.291306**	**5.022951**	**2.459155**	**24.18161**	**2.550495**	**1.259657**
Stddev	.004987	.050617	.006824	.07206	.010076	.002887
%RSD	.3862195	1.007706	.2775045	.2980071	.3950480	.2292265
#1	1.287769	5.077074	2.453621	24.13492	2.540259	1.262681
#2	1.289140	5.014998	2.457063	24.26460	2.550824	1.256928
#3	1.297010	4.976782	2.466780	24.14529	2.560402	1.259364

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.13385**	**2.459200**	**2.542662**	**26.24303**	**4.998651**	**5.032257**
Stddev	.13708	.002928	.007878	.10655	.011666	.015215
%RSD	.5245219	.1190824	.3098133	.4059938	.2333908	.3023539
#1	26.28764	2.455826	2.551054	26.35565	4.992831	5.025816
#2	26.08936	2.461090	2.535427	26.22962	4.991040	5.021321
#3	26.02453	2.460683	2.541504	26.14383	5.012083	5.049633

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV05 Acquired: 7/8/2025 1:43:24 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.011516**	**4.937221**	**4.920820**	F **4.466751**	**4.848827**	**5.162552**
Stddev	.014860	.015105	.007774	.012030	.032892	.013262
%RSD	.2965229	.3059479	.1579806	.2693257	.6783506	.2568813
#1	4.999752	4.929888	4.929781	4.456768	4.836078	5.171292
#2	5.006581	4.954593	4.916804	4.463376	4.824218	5.169071
#3	5.028217	4.927181	4.915876	4.480108	4.886185	5.147292

Elem	Sr4077
Units	ppm
Avg	**5.048617**
Stddev	.041449
%RSD	.8209986
#1	5.053533
#2	5.004930
#3	5.087389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4630.686**	**67844.89**	**8789.650**	**4508.157**	**6283.114**
Stddev	15.465	317.80	39.791	14.601	24.301
%RSD	.3339628	.4684236	.4527002	.3238849	.3867731
#1	4643.659	67758.62	8816.982	4492.270	6304.070
#2	4634.826	68196.92	8807.968	4520.990	6288.798
#3	4613.572	67579.13	8743.999	4511.209	6256.475

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB05 Acquired: 7/8/2025 1:47:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013082**	**-.000296**	**-.000007**	**-.002519**	**-.001405**	**.0122186**	**-.003805**
Stddev	.0007890	.000369	.000814	.001486	.001317	.0050364	.001614
%RSD	60.31636	124.5768	11688.87	59.00387	93.70802	41.21922	42.42165
#1	.0018128	-.000014	.000930	-.002745	-.002354	.0092659	-.005410
#2	.0017128	-.000713	-.000408	-.003878	-.001960	.0093561	-.002182
#3	.0003989	-.000161	-.000543	-.000932	.000098	.0180339	-.003821

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000063**	**-.000019**	**.0053798**	**.0001001**	**-.000046**	**.0004313**	**.0139055**
Stddev	.000031	.000014	.0047680	.0002688	.000187	.0003207	.0062014
%RSD	50.05421	74.49806	88.62676	268.6375	405.7067	74.34456	44.59668
#1	-.000036	-.000029	.0009405	.0003748	.000002	.0005306	.0187421
#2	-.000097	-.000003	.0047794	-.000162	.000112	.0006907	.0069142
#3	-.000055	-.000024	.0104196	.000088	-.000252	.0000728	.0160603

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000001**	**-.002315**	**.0001994**	**.0001247**	**.0363705**	**-.000725**	**.0002652**
Stddev	.000194	.018447	.0001204	.0003950	.0035487	.001550	.0002433
%RSD	13109.88	796.8178	60.36646	316.8736	9.757012	213.8092	91.74993
#1	-.000045	-.012641	.0003090	-.000299	.0335732	-.002404	.0005079
#2	.000211	-.013288	.0002185	.000191	.0403623	-.000422	.0000212
#3	-.000171	.018983	.0000706	.000482	.0351760	.000651	.0002666

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.281569**	**.0008149**	**.0008357**	**.0002001**	**.0000982**	**-.017343**	**.0086765**
Stddev	.036987	.0004517	.0000803	.0006391	.0011390	.001774	.0014481
%RSD	13.13589	55.43190	9.609271	319.4044	1159.860	10.22944	16.68997
#1	-.241267	.0003364	.0008284	.0001842	-.000737	-.015345	.0085243
#2	-.313960	.0012339	.0009194	.0008470	-.000365	-.017951	.0101948
#3	-.289479	.0008745	.0007593	-.000431	.001396	-.018733	.0073105

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB05 Acquired: 7/8/2025 1:47:34 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0020707	.0038264	.0002087
Stddev	.0016265	.0007279	.0000091
%RSD	78.55089	19.02392	4.372040
#1	.0008075	.0038383	.0002050
#2	.0039060	.0030927	.0002021
#3	.0014985	.0045484	.0002191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4747.171	68983.72	9105.878	4628.262	6640.587
Stddev	15.317	220.88	42.239	18.370	14.037
%RSD	.3226450	.3201860	.4638696	.3969189	.2113778
#1	4732.015	68866.99	9130.069	4607.506	6627.134
#2	4762.643	69238.48	9057.104	4642.432	6655.143
#3	4746.855	68845.71	9130.460	4634.846	6639.484

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-09 Acquired: 7/8/2025 1:51:54 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1055363	.0026872	6.367400	.0115286	.0394466	86.35628
Stddev	.0033370	.0016682	.007231	.0039208	.0017272	.11568
%RSD	3.161951	62.08142	.1135667	34.00926	4.378677	.1339583
#1	.1073280	.0015033	6.360599	.0128547	.0378630	86.37402
#2	.1016861	.0019632	6.366605	.0071167	.0391885	86.23275
#3	.1075948	.0045951	6.374995	.0146144	.0412884	86.46207

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.643012	.0076759	.0297068	462.0422	.2504779	.0988476
Stddev	.007079	.0000562	.0006069	1.4170	.0052625	.0000639
%RSD	.2678531	.7316641	2.042792	.3066792	2.100985	.0646503
#1	2.640022	.0076715	.0298329	460.9305	.2509484	.0987786
#2	2.637919	.0076221	.0302408	461.5584	.2449959	.0989048
#3	2.651096	.0077342	.0290469	463.6378	.2554893	.0988592

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.941268	387.0366	3.306036	60.63913	.3386164	-.023861
Stddev	.003304	7.3264	.007548	.11675	.0011813	.000520
%RSD	.1701894	1.892937	.2283091	.1925392	.3488450	2.179286
#1	1.943364	385.2669	3.303125	60.56096	.3381611	-.024320
#2	1.942980	380.7571	3.300378	60.58309	.3377305	-.023296
#3	1.937459	395.0857	3.314607	60.77334	.3399575	-.023966

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.24814	.3007037	12.61615	17.90089	.8393025	.0521157
Stddev	.23520	.0026738	.17389	.34370	.0198805	.0008128
%RSD	2.091004	.8891843	1.378314	1.920020	2.368698	1.559550
#1	11.16278	.3022563	12.60244	17.75332	.8315190	.0511837
#2	11.06754	.2976163	12.44952	17.65563	.8244913	.0526769
#3	11.51410	.3022386	12.79649	18.29374	.8618972	.0524866

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-09 Acquired: 7/8/2025 1:51:54 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3660207	4.396586	3.374817	6.172248	F 93.08683	.2338476
Stddev	.0020685	.010509	.071416	.015980	.10897	.0028714
%RSD	.5651273	.2390274	2.116132	.2588943	.1170670	1.227891
#1	.3659315	4.392848	3.355880	6.153836	93.16796	.2333999
#2	.3639983	4.388456	3.314779	6.182510	92.96296	.2312263
#3	.3681323	4.408453	3.453793	6.180397	93.12957	.2369165

Elem	Sr4077
Units	ppm
Avg	2.513496
Stddev	.024355
%RSD	.9689639
#1	2.519163
#2	2.534518
#3	2.486807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4847.541	69931.41	10189.22	4625.956	5811.735
Stddev	8.960	1006.82	28.22	55.481	9.920
%RSD	.1848446	1.439723	.2769497	1.199340	.1706913
#1	4850.895	70194.81	10179.50	4633.596	5816.274
#2	4854.341	70780.34	10167.14	4677.221	5818.575
#3	4837.388	68819.07	10221.01	4567.051	5800.358

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-10 Acquired: 7/8/2025 1:56:12 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0984237	-.007416	2.469649	.0287583	.0078082	138.2414
Stddev	.0011244	.002311	.007553	.0016147	.0009875	1.2937
%RSD	1.142418	31.16633	.3058202	5.614681	12.64662	.9358215
#1	.0977578	-.008947	2.460953	.0269333	.0083392	137.0911
#2	.0997219	-.004757	2.474577	.0293403	.0066688	139.6419
#3	.0977913	-.008545	2.473416	.0300014	.0084165	137.9913

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.751651	.0100892	.0144826	114.0887	.3101947	.1465399
Stddev	.018120	.0001466	.0002707	1.1054	.0013640	.0005957
%RSD	1.034459	1.452665	1.868850	.9688738	.4397280	.4064853
#1	1.736281	.0100912	.0142579	113.0670	.3113087	.1462063
#2	1.771631	.0102347	.0144069	115.2621	.3106019	.1461858
#3	1.747042	.0099416	.0147831	113.9369	.3086734	.1472276

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.570216	290.0690	3.067629	51.37713	.3124137	-.015306
Stddev	.003174	2.4144	.023190	.35781	.0004638	.000263
%RSD	.2021474	.8323621	.7559628	.6964411	.1484509	1.716255
#1	1.566709	287.3869	3.048529	51.10390	.3123029	-.015075
#2	1.571049	292.0691	3.093433	51.78215	.3129228	-.015253
#3	1.572891	290.7510	3.060926	51.24535	.3120153	-.015592

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.571745	.4905426	2.543323	15.36648	.6511966	.0117464
Stddev	.034418	.0044273	.003953	.11457	.0071481	.0001899
%RSD	.9636059	.9025376	.1554217	.7456091	1.097681	1.617012
#1	3.532421	.4862633	2.546413	15.23591	.6434112	.0117123
#2	3.596384	.4951044	2.544687	15.45024	.6574633	.0119511
#3	3.586431	.4902602	2.538869	15.41328	.6527152	.0115758

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-10 Acquired: 7/8/2025 1:56:12 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1433288	4.059868	3.177028	10.13004	F 55.58752	.2674602
Stddev	.0013609	.034204	.023604	.03320	.39700	.0020078
%RSD	.9495037	.8424787	.7429679	.3277438	.7141959	.7506947
#1	.1425056	4.028647	3.150214	10.09361	55.12919	.2655128
#2	.1448996	4.096426	3.194668	10.15859	55.82491	.2695234
#3	.1425811	4.054531	3.186201	10.13792	55.80845	.2673442

Elem	Sr4077
Units	ppm
Avg	.3917360
Stddev	.0044258
%RSD	1.129792
#1	.3887175
#2	.3968166
#3	.3896740

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5413.852	79959.34	11531.65	5287.265	6056.290
Stddev	8.038	284.77	50.09	7.144	16.574
%RSD	.1484643	.3561428	.4343674	.1351235	.2736611
#1	5419.963	80288.14	11554.25	5292.901	6072.818
#2	5416.845	79798.41	11474.24	5289.664	6056.382
#3	5404.747	79791.46	11566.45	5279.230	6039.671

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-11 Acquired: 7/8/2025 2:00:14 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2057287	.0376727	39.66604	.0233208	.1663334	113.7878
Stddev	.0034847	.0033281	.42375	.0020224	.0023979	1.0165
%RSD	1.693844	8.834218	1.068285	8.672021	1.441632	.8933253
#1	.2092495	.0407541	39.41674	.0241592	.1653973	114.8065
#2	.2022812	.0381206	39.42606	.0247892	.1645447	113.7836
#3	.2056555	.0341433	40.15531	.0210141	.1690582	112.7735

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.20740	.0161082	.0844030	606.4051	1.701280	.9019551
Stddev	.11018	.0002451	.0041706	9.1340	.001196	.0099401
%RSD	.6403090	1.521802	4.941273	1.506257	.0703187	1.102056
#1	17.31843	.0163070	.0810102	616.6770	1.699914	.8960629
#2	17.20567	.0161832	.0831395	603.3422	1.702143	.8963710
#3	17.09809	.0158343	.0890592	599.1962	1.701782	.9134315

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.66262	1149.083	6.763066	102.5439	.8088013	^ *****
Stddev	.15758	15.667	.059477	.8503	.0087445	-----
%RSD	1.153342	1.363432	.8794406	.8291626	1.081172	-----
#1	13.56039	1163.232	6.828958	103.3828	.8034453	^ -----
#2	13.58339	1151.772	6.746887	102.5662	.8040664	^ -----
#3	13.84409	1132.246	6.713352	101.6827	.8188923	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.05979	.5037630	F 33.93931	24.54740	^ *****	1.430332
Stddev	.07616	.0029748	.16127	.06384	-----	.013350
%RSD	.2533778	.5905073	.4751742	.2600619	-----	.9333538
#1	30.08143	.5071172	34.11383	24.48210	^ -----	1.421594
#2	29.97514	.5027271	33.90833	24.55043	^ -----	1.423702
#3	30.12279	.5014447	33.79578	24.60967	^ -----	1.445699

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-11 Acquired: 7/8/2025 2:00:14 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.83538	5.060457	F 26.99356	6.279551	F 40.88630	.5730766
Stddev	.10383	.037894	.02103	.056638	.51359	.0064539
%RSD	.9582582	.7488248	.0779231	.9019505	1.256148	1.126185
#1	10.77039	5.094988	27.01495	6.235627	40.41211	.5774788
#2	10.78062	5.066466	26.97290	6.259549	40.81495	.5760831
#3	10.95513	5.019918	26.99282	6.343476	41.43184	.5656680

Elem	Sr4077
Units	ppm
Avg	1.533042
Stddev	.042715
%RSD	2.786267
#1	1.578993
#2	1.525586
#3	1.494546

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4434.255	65298.55	9879.662	4259.064	5547.413
Stddev	37.334	130.06	77.384	6.581	50.038
%RSD	.8419391	.1991720	.7832614	.1545196	.9020044
#1	4454.435	65285.18	9803.333	4266.636	5574.497
#2	4457.156	65434.78	9877.594	4254.725	5578.071
#3	4391.175	65175.70	9958.058	4255.831	5489.671

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-12 Acquired: 7/8/2025 2:05:03 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0794623	-.006975	10.50070	.0226016	.0160958	120.5417
Stddev	.0017114	.002937	.05829	.0064433	.0030091	.1677
%RSD	2.153772	42.11098	.5551369	28.50805	18.69529	.1390991
#1	.0790641	-.003594	10.56801	.0300194	.0187685	120.6633
#2	.0779850	-.008895	10.46737	.0183942	.0128365	120.6114
#3	.0813377	-.008437	10.46671	.0193913	.0166824	120.3504

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.634236	.0093932	.0106141	138.6494	.3956365	.2094744
Stddev	.007767	.0000225	.0005885	.3086	.0050830	.0014264
%RSD	.2948354	.2399580	5.544405	.2225990	1.284753	.6809219
#1	2.640573	.0094192	.0108651	138.9880	.3950896	.2110742
#2	2.636563	.0093784	.0110355	138.5763	.3908492	.2090133
#3	2.625572	.0093821	.0099417	138.3838	.4009708	.2083356

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.595703	414.2473	4.745250	62.97357	.3667360	-.025113
Stddev	.012493	5.2219	.006028	.11672	.0017801	.000555
%RSD	.7828979	1.260581	.1270255	.1853414	.4853839	2.208229
#1	1.608486	413.7953	4.738881	63.10172	.3686783	-.025310
#2	1.595099	409.2661	4.746004	62.94564	.3663474	-.024487
#3	1.583523	419.6805	4.750865	62.87336	.3651824	-.025542

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.977462	.4399253	8.081334	15.74213	.9212582	.1065701
Stddev	.052230	.0023441	.093433	.18070	.0144663	.0007275
%RSD	1.313140	.5328502	1.156156	1.147845	1.570276	.6826049
#1	3.966812	.4422014	8.090783	15.73229	.9176861	.1069870
#2	3.931377	.4400558	7.983535	15.56655	.9089126	.1069931
#3	4.034195	.4375186	8.169683	15.92754	.9371759	.1057301

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-12 Acquired: 7/8/2025 2:05:03 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8761744	5.743262	6.079847	8.714739	F 42.27330	.3504805
Stddev	.0046189	.004862	.075547	.040572	.10902	.0027319
%RSD	.5271624	.0846644	1.242585	.4655555	.2578894	.7794605
#1	.8812894	5.748412	6.077901	8.761579	42.35550	.3496897
#2	.8749248	5.742624	6.005292	8.692116	42.31476	.3482313
#3	.8723088	5.738750	6.156349	8.690523	42.14963	.3535205

Elem	Sr4077
Units	ppm
Avg	.1211772
Stddev	.0048013
%RSD	3.962218
#1	.1200310
#2	.1264479
#3	.1170528

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5273.448	76383.64	11254.22	5054.526	6058.271
Stddev	26.475	830.92	37.64	35.092	30.406
%RSD	.5020386	1.087827	.3344537	.6942763	.5018905
#1	5243.597	76510.07	11223.08	5048.392	6023.639
#2	5282.662	77144.11	11243.55	5092.280	6070.591
#3	5294.084	75496.75	11296.05	5022.904	6080.584

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-13 Acquired: 7/8/2025 2:09:02 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2059722	-.006847	18.62682	.0120178	.0203577	99.44376	8.711883
Stddev	.0028862	.001902	.05072	.0011934	.0013214	.33264	.107879
%RSD	1.401238	27.78400	.2723112	9.930520	6.490869	.3345049	1.238299
#1	.2028788	-.007917	18.59720	.0133940	.0191058	99.06068	8.622464
#2	.2085927	-.004651	18.59786	.0113910	.0202282	99.65953	8.681485
#3	.2064452	-.007974	18.68538	.0112683	.0217390	99.61108	8.831700

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073094	.0249733	564.2065	.3446176	.1480581	4.116536	351.2516
Stddev	.0000901	.0007590	6.0108	.0007695	.0001961	.018618	4.0019
%RSD	1.232278	3.039202	1.065350	.2232963	.1324497	.4522853	1.139327
#1	.0073888	.0252051	563.1201	.3438511	.1478432	4.119894	349.6191
#2	.0073279	.0241255	558.8130	.3453901	.1481038	4.096467	355.8117
#3	.0072115	.0255894	570.6863	.3446118	.1482274	4.133247	348.3239

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.340358	69.70286	.3543545	-.020795	14.81277	.4329399	11.39648
Stddev	.021733	.18322	.0005765	.000566	.14638	.0044238	.05180
%RSD	.5007102	.2628553	.1626810	2.721038	.9882012	1.021812	.4544836
#1	4.316268	69.49201	.3537638	-.021038	14.73578	.4279308	11.34737
#2	4.346316	69.79329	.3543840	-.020149	14.98157	.4363116	11.45060
#3	4.358490	69.82328	.3549156	-.021199	14.72095	.4345774	11.39146

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.01148	.7940554	.0615287	.7566719	4.772128	6.445939	9.290213
Stddev	.25852	.0140011	.0008239	.0009226	.021604	.083943	.044829
%RSD	1.291863	1.763234	1.339020	.1219251	.4527173	1.302257	.4825426
#1	19.86514	.7895531	.0618608	.7569777	4.756302	6.395292	9.317825
#2	20.30997	.8097537	.0605906	.7556352	4.796741	6.542835	9.238488
#3	19.85931	.7828593	.0621348	.7574026	4.763341	6.399691	9.314326

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-13 Acquired: 7/8/2025 2:09:02 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**14.33947**	**.2266497**	**1.477886**
Stddev	.10620	.0029676	.022808
%RSD	.7406149	1.309320	1.543302
#1	14.44040	.2251947	1.463489
#2	14.22869	.2300640	1.465986
#3	14.34933	.2246905	1.504183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4821.860**	**67400.91**	**9995.620**	**4478.235**	**5728.923**
Stddev	10.864	419.95	48.206	15.935	10.626
%RSD	.2253061	.6230675	.4822744	.3558351	.1854716
#1	4822.317	67687.65	10029.59	4495.407	5733.331
#2	4832.488	66918.88	10016.83	4463.925	5736.635
#3	4810.774	67596.22	9940.45	4475.374	5716.803

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-14 Acquired: 7/8/2025 2:13:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2181518**	**.0180677**	**51.80111**	**.0347911**	**.3816113**	**130.7867**
Stddev	.0013785	.0019260	.36438	.0056004	.0030969	.2106
%RSD	.6318896	10.65964	.7034168	16.09714	.8115438	.1610457
#1	.2170609	.0168796	51.42760	.0386044	.3787522	131.0269
#2	.2176935	.0170338	51.82011	.0283613	.3811806	130.6336
#3	.2197011	.0202899	52.15561	.0374075	.3849010	130.6994

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.015221**	**.0137164**	**.0614578**	**650.6581**	**.5625792**	**.5698394**
Stddev	.004128	.0000597	.0014172	2.5279	.0022102	.0035961
%RSD	.1028184	.4352000	2.305949	.3885097	.3928622	.6310773
#1	4.014343	.0137831	.0601850	649.2629	.5642642	.5660001
#2	4.011603	.0136679	.0629849	649.1354	.5633967	.5703890
#3	4.019718	.0136984	.0612034	653.5761	.5600768	.5731291

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.967683**	**852.0202**	**4.974229**	**62.09675**	**.4298586**	**-.063173**
Stddev	.039360	10.9416	.013130	.05720	.0033290	.001890
%RSD	.5648972	1.284192	.2639512	.0921222	.7744440	2.991876
#1	6.924044	853.2144	4.989173	62.15814	.4264120	-.063959
#2	6.978506	840.5305	4.964549	62.04495	.4301077	-.064544
#3	7.000500	862.3156	4.968964	62.08716	.4330561	-.061017

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.27749**	**.4208559**	F **24.04562**	**15.38601**	**1.779719**	**.3904294**
Stddev	.01531	.0018046	.16876	.06758	.030058	.0016563
%RSD	.1357885	.4287942	.7018165	.4392601	1.688937	.4242222
#1	11.26421	.4187807	24.22565	15.36496	1.784250	.3887779
#2	11.27402	.4220572	24.02020	15.33145	1.747653	.3904198
#3	11.29424	.4217297	23.89102	15.46161	1.807255	.3920904

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-14 Acquired: 7/8/2025 2:13:27 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.253102**	**4.783130**	**9.231243**	**10.14257**	F **219.1632**	**.4704492**
Stddev	.043559	.007612	.033848	.06138	1.6092	.0041923
%RSD	.8292135	.1591495	.3666723	.6051895	.7342506	.8911328
#1	5.204518	4.786635	9.200371	10.07208	217.3287	.4687458
#2	5.266118	4.774397	9.225920	10.17140	220.3364	.4673767
#3	5.288669	4.788359	9.267437	10.18423	219.8244	.4752251

Elem	Sr4077
Units	ppm
Avg	**3.378356**
Stddev	.012095
%RSD	.3580121
#1	3.368348
#2	3.391796
#3	3.374924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4743.894**	**70573.78**	**10585.78**	**4602.606**	**5577.082**
Stddev	20.151	157.42	33.84	2.246	33.221
%RSD	.4247729	.2230582	.3196337	.0487967	.5956766
#1	4762.627	70509.64	10562.05	4601.419	5611.366
#2	4746.480	70753.15	10624.53	4605.196	5574.843
#3	4722.575	70458.56	10570.76	4601.202	5545.036

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-15 Acquired: 7/8/2025 2:18:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1328749	-.002926	10.37116	.0121319	.0531671	92.51206
Stddev	.0012720	.002249	.02414	.0053442	.0023929	.11165
%RSD	.9572515	76.86970	.2327869	44.05087	4.500717	.1206877
#1	.1337794	-.000445	10.37034	.0084336	.0509669	92.64060
#2	.1314206	-.003501	10.34744	.0097030	.0557147	92.43927
#3	.1334249	-.004831	10.39571	.0182592	.0528197	92.45629

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.535502	.0078431	.0337374	738.4283	.4099883	.3313798
Stddev	.012147	.0000609	.0003753	2.5386	.0016240	.0012216
%RSD	.2194364	.7763210	1.112444	.3437901	.3961037	.3686266
#1	5.548772	.0078678	.0335022	738.5461	.4104288	.3307401
#2	5.532802	.0077737	.0335398	740.9060	.4113466	.3306110
#3	5.524932	.0078877	.0341702	735.8328	.4081895	.3327884

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.587031	388.3712	4.367967	196.9302	.3661799	-.013359
Stddev	.006862	.7201	.002970	.2398	.0010402	.000365
%RSD	.1913029	.1854143	.0680047	.1217511	.2840628	2.729960
#1	3.581119	388.8818	4.370084	197.0399	.3664604	-.013662
#2	3.585419	388.6842	4.369246	197.0954	.3650282	-.012954
#3	3.594556	387.5475	4.364572	196.6552	.3670510	-.013461

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.19294	.4793564	15.11773	24.15759	.8755363	.2122625
Stddev	.02961	.0020092	.03302	.06586	.0016998	.0011800
%RSD	.1828792	.4191465	.2184310	.2726207	.1941427	.5558970
#1	16.19840	.4804408	15.13818	24.16118	.8771660	.2115921
#2	16.21944	.4805904	15.13538	24.22158	.8756688	.2115705
#3	16.16098	.4770380	15.07964	24.09001	.8737742	.2136250

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-15 Acquired: 7/8/2025 2:18:00 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007845	5.108372	F 18.60509	8.920987	F 24.77280	.2148773
Stddev	.003033	.014070	.00542	.021519	.15170	.0004701
%RSD	.3009865	.2754347	.0291489	.2412194	.6123570	.2187656
#1	1.007312	5.124433	18.60591	8.912430	24.71765	.2154199
#2	1.005114	5.102462	18.59931	8.905063	24.65639	.2145935
#3	1.011110	5.098220	18.61007	8.945469	24.94436	.2146184

Elem	Sr4077
Units	ppm
Avg	2.153818
Stddev	.016905
%RSD	.7849066
#1	2.173296
#2	2.145199
#3	2.142959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4594.639	66523.17	9709.957	4364.322	5385.733
Stddev	11.841	251.84	42.186	6.050	14.729
%RSD	.2577043	.3785709	.4344656	.1386266	.2734757
#1	4606.310	66376.57	9674.690	4371.039	5396.549
#2	4594.971	66378.97	9698.490	4362.627	5391.692
#3	4582.636	66813.96	9756.692	4359.300	5368.959

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-16 Acquired: 7/8/2025 2:22:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4194421**	**.0325371**	**31.02908**	**.0235529**	**-.038612**	**117.6881**
Stddev	.0019488	.0019519	.15931	.0062519	.003631	.2341
%RSD	.4646111	5.999105	.5134368	26.54394	9.403635	.1989200
#1	.4197631	.0346839	30.97974	.0262687	-.039642	117.9581
#2	.4212104	.0308692	30.90028	.0279876	-.041616	117.5408
#3	.4173527	.0320582	31.20723	.0164024	-.034577	117.5655

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.24846**	**.0165443**	**.0856278**	**598.8704**	**2.405482**	**1.011030**
Stddev	.26160	.0001517	.0019288	4.2426	.002113	.004702
%RSD	2.135820	.9166460	2.252578	.7084399	.0878441	.4651071
#1	12.55015	.0165415	.0857409	601.3285	2.403232	1.011240
#2	12.11085	.0163941	.0836449	601.3112	2.407425	1.006226
#3	12.08438	.0166974	.0874975	593.9714	2.405788	1.015623

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.30874**	**1142.123**	**7.381212**	**79.19453**	**.5580429**	**^ *****
Stddev	.05540	5.963	.013117	.28931	.0028367	-----
%RSD	.4501062	.5220630	.1777100	.3653148	.5083264	-----
#1	12.31145	1138.370	7.377733	79.41041	.5575622	^ -----
#2	12.25203	1148.999	7.395718	78.86580	.5554773	^ -----
#3	12.36273	1139.001	7.370185	79.30737	.5610892	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.98587**	**.4514137**	F **34.21359**	**24.22691**	**2.585530**	**1.216680**
Stddev	.05896	.0012786	.61180	.18816	.016269	.004423
%RSD	.3105447	.2832505	1.788170	.7766707	.6292361	.3635516
#1	18.94552	.4515356	34.80535	24.10586	2.570303	1.217990
#2	18.95855	.4526269	33.58356	24.13117	2.602672	1.211749
#3	19.05353	.4500784	34.25186	24.44369	2.583616	1.220300

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2487-16 Acquired: 7/8/2025 2:22:16 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.01885	5.397641	F 32.56644	9.648229	F 110.9133	.5403332
Stddev	.06278	.020676	.12880	.057795	.8095	.0039956
%RSD	.5697848	.3830616	.3954913	.5990264	.7298217	.7394733
#1	11.00893	5.409018	32.49500	9.621102	110.7881	.5357339
#2	10.96162	5.373775	32.48919	9.608987	110.1737	.5429483
#3	11.08600	5.410130	32.71512	9.714598	111.7781	.5423175

Elem	Sr4077
Units	ppm
Avg	1.993074
Stddev	.014848
%RSD	.7450037
#1	2.007754
#2	1.993404
#3	1.978063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4531.337	66320.38	10073.27	4293.174	5624.742
Stddev	14.044	145.19	17.83	10.859	22.217
%RSD	.3099299	.2189296	.1770495	.2529374	.3949884
#1	4528.377	66487.62	10060.42	4290.246	5622.674
#2	4546.625	66247.01	10065.76	4305.197	5647.920
#3	4519.009	66226.52	10093.63	4284.080	5603.631

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01 Acquired: 7/8/2025 2:41:25 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369951	.0033959	.4425684	.0246359	.0097788	202.7184	1.376873
Stddev	.0029473	.0018927	.0028255	.0085438	.0016581	.8172	.006693
%RSD	7.966819	55.73390	.6384244	34.68014	16.95603	.4031452	.4860658
#1	.0398840	.0022398	.4445023	.0344616	.0080350	203.2857	1.382259
#2	.0339926	.0023678	.4393258	.0189569	.0113353	201.7817	1.369381
#3	.0371087	.0055801	.4438769	.0204891	.0099662	203.0879	1.378979

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155608	.0029192	42.11225	.3666333	.2332177	.2601825	543.0167
Stddev	.0000734	.0003311	.15805	.0028291	.0004997	.0007379	1.5844
%RSD	.4717198	11.34193	.3752957	.7716283	.2142544	.2836209	.2917803
#1	.0155595	.0026319	42.20638	.3654455	.2330383	.2596552	544.7083
#2	.0156348	.0032813	41.92978	.3698626	.2328324	.2598665	541.5673
#3	.0154881	.0028445	42.20058	.3645918	.2337823	.2610258	542.7744

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.044003	91.13153	.5043927	-.036119	13.58808	.5229108	1.186449
Stddev	.024434	.15943	.0016957	.001379	.02325	.0030146	.010619
%RSD	.3037508	.1749430	.3361940	3.818398	.1711197	.5765075	.8950480
#1	8.061005	91.20530	.5034167	-.035022	13.60755	.5235090	1.180164
#2	8.016003	90.94858	.5034105	-.037667	13.59436	.5196420	1.198710
#3	8.055001	91.24072	.5063507	-.035667	13.56234	.5255815	1.180473

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.82827	1.138681	.0142835	.0158868	3.848305	3.664539	6.442792
Stddev	.03758	.006812	.0006450	.0005993	.014827	.021778	.023229
%RSD	.1144719	.5982573	4.515656	3.772056	.3852988	.5942784	.3605352
#1	32.86313	1.144219	.0146725	.0156138	3.859443	3.662832	6.469614
#2	32.83323	1.131074	.0135390	.0154727	3.831475	3.687120	6.429360
#3	32.78846	1.140750	.0146391	.0165740	3.853996	3.643666	6.429402

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01 Acquired: 7/8/2025 2:41:25 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5141195	.9177861	-.303039
Stddev	.0050037	.0043390	.000888
%RSD	.9732583	.4727729	.2928724
#1	.5192942	.9197380	-.304051
#2	.5093064	.9128140	-.302673
#3	.5137581	.9208065	-.302393

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5386.884	73704.26	10673.11	4937.434	6179.585
Stddev	13.012	400.76	3.54	33.842	16.849
%RSD	.2415507	.5437394	.0331469	.6854220	.2726491
#1	5381.720	73907.52	10676.91	4958.472	6174.345
#2	5401.686	73242.60	10669.91	4898.396	6198.431
#3	5377.247	73962.65	10672.51	4955.434	6165.979

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01DUP Acquired: 7/8/2025 2:45:31 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0320191**	**.0033278**	**.3963441**	**.0166918**	**.0084870**	**177.3624**	**1.278856**
Stddev	.0024722	.0011684	.0021114	.0023527	.0002250	.1385	.003111
%RSD	7.721023	35.11098	.5327202	14.09497	2.650818	.0780950	.2432514
#1	.0291930	.0033253	.3959421	.0145380	.0084645	177.4909	1.282164
#2	.0330833	.0021606	.3944627	.0192026	.0082741	177.2157	1.275989
#3	.0337810	.0044975	.3986277	.0163348	.0087224	177.3808	1.278414

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0140500**	**.0043384**	**40.01395**	**.3195587**	**.2091738**	**.2607012**	**462.0915**
Stddev	.0000593	.0005287	.05981	.0014778	.0010524	.0049954	2.4523
%RSD	.4223324	12.18710	.1494769	.4624610	.5031263	1.916130	.5307046
#1	.0141162	.0037297	39.94663	.3199219	.2093537	.2552389	464.8855
#2	.0140323	.0046019	40.03429	.3179331	.2080430	.2618272	460.2956
#3	.0140015	.0046835	40.06095	.3208211	.2101246	.2650375	461.0935

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.291302**	**79.90238**	**.4508315**	**-.032016**	**12.51461**	**.4724423**	**1.015786**
Stddev	.023326	.18585	.0021917	.000212	.09668	.0018143	.000828
%RSD	.3199187	.2325901	.4861436	.6633585	.7725701	.3840172	.0815182
#1	7.265461	79.70983	.4494934	-.031964	12.62625	.4721994	1.016493
#2	7.297642	79.91661	.4496403	-.031834	12.45825	.4707617	1.014875
#3	7.310802	80.08070	.4533608	-.032249	12.45932	.4743657	1.015990

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.11854**	**.9477918**	**.0131737**	**.0118458**	**3.210956**	**3.501764**	**6.317399**
Stddev	.11782	.0105634	.0003667	.0005153	.001620	.014093	.030539
%RSD	.4190259	1.114522	2.783428	4.350155	.0504604	.4024496	.4834164
#1	28.25455	.9597903	.0130954	.0124369	3.211341	3.516991	6.300417
#2	28.04766	.9398924	.0135732	.0116091	3.209178	3.489180	6.299124
#3	28.05342	.9436927	.0128524	.0114914	3.212349	3.499121	6.352654

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01DUP Acquired: 7/8/2025 2:45:31 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5216504	.7739783	-.240675
Stddev	.0032917	.0013186	.002342
%RSD	.6310185	.1703643	.9729997
#1	.5188280	.7754288	-.243316
#2	.5208568	.7728522	-.238852
#3	.5252663	.7736539	-.239858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5149.200	75186.88	10580.66	5017.282	5986.164
Stddev	3.856	118.27	45.76	10.363	9.078
%RSD	.0748894	.1572955	.4324456	.2065454	.1516447
#1	5145.406	75058.88	10632.45	5005.595	5981.800
#2	5153.115	75292.09	10563.78	5020.899	5996.599
#3	5149.080	75209.67	10545.74	5025.352	5980.092

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV06 Acquired: 7/8/2025 2:49:35 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.031387**	F **4.394511**	**4.941734**	**5.027129**	**5.023881**	**9.753570**
Stddev	.011377	.090820	.010928	.011207	.013273	.130779
%RSD	.2261248	2.066676	.2211299	.2229236	.2641892	1.340827
#1	5.036023	4.345644	4.935481	5.024543	5.029233	9.645115
#2	5.018424	4.338586	4.935369	5.017441	5.008768	9.716797
#3	5.039715	4.499302	4.954352	5.039402	5.033642	9.898799

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.26749**	**.2488097**	**2.485877**	**24.45686**	**1.018370**	**2.480166**
Stddev	.13516	.0031625	.005539	.40309	.004021	.005021
%RSD	1.316347	1.271068	.2228379	1.648182	.3948076	.2024664
#1	10.15042	.2452344	2.483767	24.09856	1.014775	2.479603
#2	10.23665	.2499535	2.481704	24.37871	1.022711	2.475450
#3	10.41540	.2512412	2.492162	24.89331	1.017623	2.485446

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.262172**	**5.259268**	**2.428170**	**24.02765**	**2.490152**	**1.269284**
Stddev	.002279	.025215	.031658	.41412	.005019	.002904
%RSD	.1805592	.4794369	1.303790	1.723533	.2015356	.2287912
#1	1.263772	5.258649	2.397979	23.62183	2.489187	1.267681
#2	1.259562	5.234368	2.425416	24.01153	2.485686	1.272636
#3	1.263181	5.284787	2.461115	24.44961	2.495583	1.267534

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.10890**	**2.453805**	**2.452521**	F **27.86219**	**4.904195**	**4.956897**
Stddev	.10575	.037588	.006612	.07193	.064184	.010924
%RSD	.3901004	1.531840	.2695924	.2581604	1.308756	.2203874
#1	27.11136	2.415281	2.458724	27.88250	4.832662	4.956848
#2	27.00194	2.455752	2.453275	27.78229	4.923173	4.945997
#3	27.21340	2.490382	2.445565	27.92179	4.956749	4.967846

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV06 Acquired: 7/8/2025 2:49:35 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.904732**	**4.904002**	**5.119577**	F **4.351103**	**4.784571**	**5.252405**
Stddev	.008580	.075037	.022677	.022881	.027031	.082084
%RSD	.1749287	1.530109	.4429474	.5258732	.5649635	1.562785
#1	4.901110	4.840217	5.095939	4.350948	4.781366	5.183276
#2	4.898557	4.885110	5.121640	4.328300	4.759284	5.230811
#3	4.914529	4.986679	5.141152	4.374061	4.813061	5.343127

Elem	Sr4077
Units	ppm
Avg	**4.902918**
Stddev	.061867
%RSD	1.261832
#1	4.836848
#2	4.912428
#3	4.959480

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4711.533**	**65705.82**	**8883.373**	**4397.234**	**6415.981**
Stddev	9.536	180.73	120.972	8.266	13.112
%RSD	.2023906	.2750555	1.361775	.1879755	.2043655
#1	4702.581	65892.88	9017.107	4402.975	6405.906
#2	4721.561	65532.17	8851.446	4387.760	6430.807
#3	4710.456	65692.41	8781.568	4400.966	6411.232

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB06 Acquired: 7/8/2025 2:53:46 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017134**	**-.002005**	**.0000603**	**-.003527**	**-.000194**	**.0020895**	**-.004756**
Stddev	.0009281	.001402	.0006588	.000521	.001136	.0023631	.000522
%RSD	54.16469	69.91878	1092.377	14.76840	584.3786	113.0947	10.97104
#1	.0025875	-.003182	.0008205	-.003501	.001040	.0039366	-.005336
#2	.0018134	-.000454	-.000344	-.003020	-.001196	-.000573	-.004605
#3	.0007394	-.002380	-.000296	-.004061	-.000427	.002905	-.004326

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000091**	**-.000049**	**.0089053**	**.0002374**	**-.000190**	**.0003331**	**-.001408**
Stddev	.000045	.000098	.0042495	.0002112	.000264	.0003404	.008428
%RSD	49.38420	202.7433	47.71877	88.96430	138.9441	102.1941	598.3760
#1	-.000085	-.000086	.0128056	.0003812	-.000003	-.000057	-.008862
#2	-.000139	-.000122	.0043766	-.000005	-.000493	.000571	-.003100
#3	-.000049	.000063	.0095337	.000336	-.000075	.000485	.007737

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001949**	**.0275819**	**.0001434**	**-.000014**	**.0178512**	**.0012242**	**.0002663**
Stddev	.0000893	.0131993	.0002825	.000275	.0043051	.0010828	.0001090
%RSD	45.81919	47.85475	196.9898	1917.944	24.11651	88.45335	40.93152
#1	.0002030	.0169832	-.000126	.000286	.0155729	.0017123	.0002905
#2	.0002798	.0233960	.000437	-.000254	.0228167	-.000017	.0001473
#3	.0001018	.0423666	.000120	-.000076	.0151641	.001977	.0003613

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.266125**	**-.000359**	**.0007899**	**.0001174**	**.0002034**	**-.007990**	**.0076916**
Stddev	.024791	.000563	.0003098	.0005224	.0008028	.009673	.0008011
%RSD	9.315718	157.0597	39.22387	444.8348	394.6509	121.0523	10.41568
#1	-.273701	-.000481	.0011424	-.000334	.0007472	-.004965	.0072878
#2	-.286245	.000256	.0006660	.000690	-.000719	-.000192	.0071728
#3	-.238430	-.000851	.0005611	-.000003	.000582	-.018814	.0086143

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB06 Acquired: 7/8/2025 2:53:46 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0093791	.0082284	.0003020
Stddev	.0022723	.0026595	.0000048
%RSD	24.22715	32.32098	1.595827
#1	.0117517	.0061337	.0002964
#2	.0091629	.0073310	.0003048
#3	.0072226	.0112205	.0003047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4811.395	68914.22	9111.808	4632.205	6775.743
Stddev	6.524	136.32	147.590	30.661	6.718
%RSD	.1355969	.1978072	1.619768	.6619191	.0991461
#1	4808.547	68760.62	9135.043	4598.603	6774.776
#2	4818.859	69020.80	8953.979	4658.665	6782.892
#3	4806.779	68961.24	9246.403	4639.348	6769.561

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01LX5 Acquired: 7/8/2025 2:58:05 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069603**	**.0024325**	**.0973857**	**.0045306**	**.0024439**	**48.19679**	**.3123697**
Stddev	.0007069	.0006714	.0006200	.0016286	.0011557	.38714	.0035097
%RSD	10.15640	27.59974	.6366101	35.94800	47.28979	.8032435	1.123577
#1	.0076783	.0019124	.0966700	.0028472	.0016867	47.82960	.3087972
#2	.0062651	.0021946	.0977298	.0046463	.0037741	48.15958	.3124989
#3	.0069376	.0031903	.0977573	.0060983	.0018708	48.60119	.3158131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036908**	**-.001716**	**10.31650**	**.0906759**	**.0501148**	**.0750600**	**129.3875**
Stddev	.0000054	.000060	.09395	.0003574	.0001748	.0002496	.1713
%RSD	.1472595	3.504068	.9106697	.3941754	.3489068	.3324759	.1324179
#1	.0036864	-.001776	10.21889	.0908387	.0502448	.0753235	129.3903
#2	.0036968	-.001716	10.32431	.0902660	.0499160	.0748272	129.2148
#3	.0036891	-.001656	10.40630	.0909228	.0501836	.0750294	129.5574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.991123**	**22.49775**	**.1111426**	**-.009024**	**3.029651**	**.1269877**	**.2769570**
Stddev	.017671	.21731	.0000710	.000540	.006901	.0026398	.0004383
%RSD	.8874825	.9659277	.0638957	5.978667	.2277844	2.078750	.1582553
#1	1.976212	22.32138	.1111544	-.009616	3.022317	.1257466	.2771780
#2	1.986514	22.43136	.1110665	-.008559	3.036017	.1251973	.2764522
#3	2.010641	22.74051	.1112070	-.008898	3.030619	.1300193	.2772409

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.073525**	**.2709872**	**.0032395**	**.0023352**	**.9381024**	**.8171504**	**1.393764**
Stddev	.045373	.0016300	.0002250	.0002978	.0081919	.0011913	.005660
%RSD	.6414499	.6014938	6.944730	12.75235	.8732443	.1457875	.4060891
#1	7.021282	.2722439	.0033725	.0019967	.9296662	.8174622	1.400284
#2	7.103071	.2691455	.0033662	.0025571	.9386148	.8181548	1.390887
#3	7.096223	.2715723	.0029798	.0024517	.9460260	.8158342	1.390119

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01LX5 Acquired: 7/8/2025 2:58:05 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1080369	.2257661	-.071953
Stddev	.0047372	.0042860	.000350
%RSD	4.384769	1.898447	.4862060
#1	.1037424	.2208180	-.072357
#2	.1072500	.2281554	-.071765
#3	.1131182	.2283249	-.071738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4888.892	69613.34	9532.082	4680.268	6508.706
Stddev	10.639	229.62	80.042	6.659	4.582
%RSD	.2176155	.3298536	.8397084	.1422850	.0703928
#1	4886.440	69537.52	9592.134	4678.301	6509.634
#2	4900.543	69871.29	9562.899	4687.689	6512.752
#3	4879.693	69431.22	9441.212	4674.814	6503.731

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01MS Acquired: 7/8/2025 3:02:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7353770	1.442990	1.392121	1.469310	.2907494	199.5770	1.559691
Stddev	.0013636	.037426	.002311	.001941	.0003817	.5581	.003858
%RSD	.1854328	2.593620	.1660144	.1321051	.1312957	.2796327	.2473726
#1	.7369515	1.478225	1.392622	1.471194	.2907269	199.8348	1.561382
#2	.7346070	1.403704	1.389601	1.469419	.2911419	199.9595	1.562415
#3	.7345726	1.447040	1.394141	1.467317	.2903794	198.9366	1.555276

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1860651	.2078817	42.12003	.6725583	.4254463	.5430751	447.5580
Stddev	.0007810	.0006991	.12959	.0020449	.0007377	.0046368	2.3121
%RSD	.4197459	.3362855	.3076620	.3040530	.1734023	.8538019	.5166076
#1	.1856230	.2074544	42.10631	.6737800	.4250011	.5381795	450.1288
#2	.1869669	.2075021	42.25593	.6736974	.4250400	.5474003	445.6487
#3	.1856055	.2086884	41.99785	.6701975	.4262979	.5436454	446.8967

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.392435	89.91653	.9913481	.0371342	15.69254	.7415749	1.259538
Stddev	.040080	.28572	.0010171	.0006740	.09180	.0026486	.004948
%RSD	.5421769	.3177645	.1025955	1.815042	.5850030	.3571639	.3928212
#1	7.400651	89.88142	.9909852	.0376343	15.79653	.7420973	1.264141
#2	7.427771	90.21819	.9905622	.0363677	15.62272	.7439235	1.260167
#3	7.348884	89.64999	.9924968	.0374007	15.65837	.7387040	1.254306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.90638	1.069262	.3499430	.6786720	3.314981	4.393149	11.87410
Stddev	.23339	.009850	.0004777	.0011059	.003254	.015224	.02863
%RSD	.5848502	.9211490	.1365175	.1629499	.0981747	.3465355	.2411518
#1	40.17544	1.080551	.3502395	.6799379	3.316793	4.407179	11.90601
#2	39.75856	1.062420	.3493919	.6778935	3.316926	4.395307	11.85065
#3	39.78514	1.064816	.3501977	.6781846	3.311224	4.376961	11.86563

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01MS Acquired: 7/8/2025 3:02:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5320657	1.043326	-.040149
Stddev	.0009706	.001311	.002485
%RSD	.1824168	.1256770	6.188580
#1	.5317015	1.044838	-.041611
#2	.5313299	1.042513	-.037280
#3	.5331657	1.042626	-.041555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5236.493	76689.04	10568.06	5090.191	6086.803
Stddev	4.302	190.83	38.91	14.864	11.417
%RSD	.0821487	.2488404	.3682054	.2920115	.1875772
#1	5241.098	76469.38	10597.64	5074.444	6085.109
#2	5235.803	76783.75	10523.98	5103.977	6098.973
#3	5232.578	76814.00	10582.56	5092.153	6076.328

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01MSD Acquired: 7/8/2025 3:06:08 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7295557**	**1.365258**	**1.358037**	**1.497742**	**.3031350**	**195.8035**	**1.484028**
Stddev	.0054391	.029508	.001515	.000639	.0016776	.3659	.003291
%RSD	.7455413	2.161354	.1115612	.0426546	.5534224	.1868958	.2217584
#1	.7318948	1.377523	1.357866	1.498043	.3036922	196.1802	1.487542
#2	.7233383	1.386655	1.359631	1.498175	.3044630	195.4493	1.481017
#3	.7334340	1.331595	1.356616	1.497008	.3012496	195.7810	1.483527

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1781819**	**.2032034**	**41.10431**	**.6549853**	**.4214302**	**.5420778**	**440.4507**
Stddev	.0001554	.0002194	.05927	.0007478	.0005015	.0017463	.7036
%RSD	.0871876	.1079617	.1441890	.1141782	.1189933	.3221437	.1597501
#1	.1783613	.2030060	41.17236	.6547959	.4216457	.5422657	440.3337
#2	.1780932	.2031646	41.06404	.6558096	.4208571	.5402453	441.2055
#3	.1780912	.2034396	41.07652	.6543503	.4217880	.5437226	439.8129

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.206027**	**89.26559**	**.9873625**	**.0331454**	**15.04289**	**.7185683**	**1.230845**
Stddev	.022374	.16737	.0010349	.0003276	.02185	.0013801	.004332
%RSD	.3104831	.1874965	.1048173	.9884715	.1452828	.1920552	.3519564
#1	7.208726	89.23411	.9868473	.0332916	15.05891	.7193256	1.235845
#2	7.182426	89.11620	.9866863	.0333746	15.05175	.7169754	1.228222
#3	7.226928	89.44647	.9885539	.0327701	15.01799	.7194038	1.228468

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.81946**	**1.050792**	**.3402423**	**.6608404**	**3.322237**	**3.724819**	**11.61871**
Stddev	.14375	.002294	.0008389	.0013923	.007045	.022576	.04122
%RSD	.3702916	.2182724	.2465626	.2106867	.2120554	.6060977	.3547769
#1	38.94555	1.051042	.3400859	.6598700	3.330055	3.746496	11.63239
#2	38.84989	1.052951	.3394926	.6602154	3.320277	3.726520	11.65134
#3	38.66294	1.048384	.3411484	.6624356	3.316380	3.701440	11.57238

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01MSD Acquired: 7/8/2025 3:06:08 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5045072	1.035791	-.046907
Stddev	.0077593	.001619	.001553
%RSD	1.537988	.1563162	3.309847
#1	.4961609	1.034432	-.046529
#2	.5115018	1.037583	-.048614
#3	.5058589	1.035360	-.045579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4992.313	76547.85	10424.28	5041.262	5825.016
Stddev	19.996	50.38	22.43	17.469	15.547
%RSD	.4005332	.0658175	.2152165	.3465177	.2669044
#1	4989.050	76549.40	10405.96	5021.224	5831.929
#2	5013.739	76496.71	10449.30	5053.291	5835.907
#3	4974.149	76597.44	10417.58	5049.270	5807.211

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01A Acquired: 7/8/2025 3:10:05 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6825257**	**1.301481**	**1.364481**	**1.586706**	**.6789441**	**212.9361**	**1.575659**
Stddev	.0042402	.051990	.005550	.006393	.0028192	.6564	.002356
%RSD	.6212550	3.994672	.4067710	.4029277	.4152394	.3082638	.1495408
#1	.6874167	1.361209	1.362803	1.592928	.6767904	213.1038	1.578360
#2	.6802767	1.266389	1.359963	1.580154	.6779068	212.2121	1.574590
#3	.6798838	1.276844	1.370677	1.587037	.6821350	213.4924	1.574026

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1723419**	**.1929178**	**43.22482**	**.6954576**	**.4344580**	**.5393530**	**536.3420**
Stddev	.0008405	.0005161	.17257	.0022222	.0016633	.0022456	4.2595
%RSD	.4876947	.2675275	.3992349	.3195321	.3828531	.4163556	.7941697
#1	.1717273	.1932899	43.28331	.6939407	.4341125	.5418252	534.8735
#2	.1719988	.1923286	43.03061	.6980084	.4329945	.5387944	533.0110
#3	.1732997	.1931348	43.36054	.6944237	.4362669	.5374394	541.1414

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.468939**	**97.86003**	**.9956858**	**.0213575**	**15.77848**	**.7779869**	**1.374209**
Stddev	.033926	.39969	.0037042	.0004438	.07020	.0027781	.002657
%RSD	.4005951	.4084302	.3720219	2.078182	.4448971	.3570864	.1933387
#1	8.472879	98.00270	.9946264	.0213890	15.82391	.7789474	1.372419
#2	8.433215	97.40859	.9926268	.0208988	15.81390	.7748560	1.372945
#3	8.500723	98.16882	.9998043	.0217848	15.69762	.7801572	1.377262

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.82533**	**1.306404**	**.3492796**	**.6695254**	**4.245709**	**4.940405**	**11.40797**
Stddev	.18219	.012758	.0014557	.0023975	.014442	.012892	.06522
%RSD	.4254339	.9766037	.4167582	.3580836	.3401458	.2609420	.5716646
#1	42.85770	1.303438	.3508868	.6695453	4.260750	4.939989	11.48011
#2	42.98917	1.295390	.3480499	.6671181	4.231953	4.953499	11.35320
#3	42.62912	1.320384	.3489020	.6719129	4.244423	4.927726	11.39059

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2493-01A Acquired: 7/8/2025 3:10:05 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5000744	1.148669	-.133034
Stddev	.0064432	.004112	.004071
%RSD	1.288442	.3579434	3.059813
#1	.5071822	1.152192	-.131097
#2	.4946169	1.144151	-.130294
#3	.4984241	1.149662	-.137712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5459.497	78382.50	10826.64	5155.663	6237.752
Stddev	11.127	147.03	50.20	9.757	19.487
%RSD	.2038126	.1875861	.4636677	.1892414	.3124090
#1	5461.151	78537.30	10841.83	5148.892	6246.011
#2	5469.704	78244.71	10867.49	5166.846	6251.750
#3	5447.635	78365.48	10770.60	5151.250	6215.496

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-07 Acquired: 7/8/2025 3:14:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001092**	**-.005153**	**-.000923**	**-.002033**	**.0018410**	**.0322147**	**.0618579**
Stddev	.000850	.000273	.001031	.002575	.0011084	.0087295	.0007939
%RSD	77.79270	5.297010	111.7609	126.6844	60.20432	27.09784	1.283414
#1	-.000444	-.004954	-.000639	.000215	.0029015	.0224233	.0610885
#2	-.002054	-.005464	-.000063	-.004843	.0019314	.0391840	.0618111
#3	-.000778	-.005040	-.002066	-.001471	.0006903	.0350367	.0626742

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000210**	**-.000071**	**153.7241**	**.0223506**	**-.000281**	**.0030166**	**.0133521**
Stddev	.000038	.000069	.2406	.0001222	.000286	.0003964	.0079180
%RSD	17.86027	97.41189	.1564902	.5465811	101.7283	13.13951	59.30173
#1	-.000216	-.000124	153.7283	.0224650	-.000478	.0031733	.0042644
#2	-.000170	-.000095	153.9626	.0222219	-.000414	.0033108	.0170272
#3	-.000245	.000007	153.4815	.0223649	.000047	.0025659	.0187649

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054543**	**3.303189**	**.0009746**	**-.000229**	**304.1849**	**.0042734**	**.0097500**
Stddev	.0001580	.023473	.0003628	.000543	1.9090	.0018051	.0001317
%RSD	2.896534	.7106014	37.22704	236.5830	.6275940	42.24090	1.350654
#1	.0055661	3.314333	.0006306	.000397	305.1011	.0063160	.0098976
#2	.0052736	3.319014	.0009394	-.000521	305.4631	.0028925	.0097075
#3	.0055232	3.276221	.0013537	-.000564	301.9904	.0036118	.0096448

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.297521**	**.0447266**	**.0041434**	**-.017438**	**-.005670**	**3.395878**	**.0513961**
Stddev	.041462	.0002956	.0000890	.000304	.000410	.019064	.0035258
%RSD	.9647774	.6609821	2.148228	1.742084	7.237801	.5613985	6.860068
#1	4.330369	.0450618	.0042460	-.017429	-.005208	3.390560	.0498027
#2	4.311260	.0446150	.0040868	-.017746	-.005993	3.417037	.0554373
#3	4.250934	.0445030	.0040975	-.017138	-.005808	3.380038	.0489482

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-07 Acquired: 7/8/2025 3:14:13 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**9.796286**	**-.024493**	**.5236856**
Stddev	.064204	.000726	.0023324
%RSD	.6553960	2.964247	.4453789
#1	9.730411	-.024583	.5256489
#2	9.799768	-.023726	.5243005
#3	9.858678	-.025170	.5211073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4430.915**	**64432.16**	**9062.876**	**4267.543**	**5908.496**
Stddev	6.994	106.97	22.085	8.126	11.759
%RSD	.1578531	.1660170	.2436905	.1904243	.1990142
#1	4423.214	64527.49	9037.824	4259.237	5898.885
#2	4436.873	64452.51	9079.532	4275.477	5921.608
#3	4432.657	64316.48	9071.272	4267.915	5904.995

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-08 Acquired: 7/8/2025 3:18:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001749**	**-.005645**	**-.001204**	**.0021099**	**.0028489**	**.0305007**	**.0468328**
Stddev	.000558	.002335	.000838	.0031927	.0009676	.0058905	.0010769
%RSD	31.91752	41.36151	69.60380	151.3218	33.96329	19.31286	2.299545
#1	-.002393	-.007243	-.001591	-.001452	.0020465	.0237855	.0461217
#2	-.001416	-.002965	-.000243	.003069	.0025767	.0329209	.0463049
#3	-.001437	-.006727	-.001780	.004713	.0039234	.0347956	.0480718

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000197**	**-.000146**	**214.2681**	**.0217062**	**-.000219**	**.0143022**	**.0021345**
Stddev	.000028	.000059	.2469	.0002363	.000096	.0006417	.0030400
%RSD	14.22544	40.02819	.1152343	1.088593	43.90956	4.487012	142.4247
#1	-.000204	-.000080	214.1361	.0219210	-.000109	.0149351	-.000815
#2	-.000166	-.000191	214.1152	.0217444	-.000288	.0136519	.001961
#3	-.000220	-.000168	214.5530	.0214531	-.000259	.0143195	.005258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003722**	**1.808473**	**.0016249**	**-.000592**	**432.4972**	**.0064539**	**.0041898**
Stddev	.0001444	.018888	.0001982	.000221	5.1319	.0009919	.0000224
%RSD	38.80760	1.044434	12.19620	37.24868	1.186582	15.36938	.5347387
#1	.0005218	1.791525	.0014814	-.000358	436.6969	.0075312	.0042154
#2	.0003610	1.828836	.0015423	-.000796	434.0178	.0055784	.0041801
#3	.0002336	1.805058	.0018510	-.000622	426.7768	.0062522	.0041739

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.879883**	**.0626821**	**.0048323**	**-.017913**	**-.007712**	**2.307554**	**.0491048**
Stddev	.064967	.0004899	.0001765	.000592	.001198	.009654	.0024811
%RSD	.9442997	.7815521	3.652153	3.303881	15.53366	.4183782	5.052576
#1	6.954900	.0625226	.0049174	-.017878	-.006995	2.299604	.0489512
#2	6.842306	.0622919	.0046294	-.018522	-.009095	2.318297	.0467041
#3	6.842443	.0632319	.0049500	-.017339	-.007047	2.304762	.0516590

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-08 Acquired: 7/8/2025 3:18:36 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**21.94339**	**-.031619**	**.8785954**
Stddev	.20893	.001479	.0025826
%RSD	.9521118	4.675961	.2939422
#1	22.09557	-.031570	.8768969
#2	21.70519	-.033122	.8815674
#3	22.02941	-.030167	.8773220

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4385.074**	**65363.00**	**9160.820**	**4303.635**	**5799.184**
Stddev	22.991	329.37	21.416	5.570	36.222
%RSD	.5242963	.5039153	.2337750	.1294209	.6246040
#1	4393.912	65041.57	9157.485	4299.459	5807.359
#2	4402.334	65347.63	9141.267	4301.487	5830.621
#3	4358.975	65699.79	9183.708	4309.959	5759.574

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168689TB Acquired: 7/8/2025 3:23:01 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003769**	**-.003723**	**.0001601**	**-.000262**	**.0010161**	**-.000723**	**-.010017**
Stddev	.001181	.001188	.0010636	.001675	.0006029	.002829	.002025
%RSD	31.33478	31.91859	664.4423	640.1904	59.33529	391.2150	20.21450
#1	-.002577	-.004397	.0005849	.001320	.0012125	-.002919	-.008883
#2	-.003792	-.002351	-.001050	-.000087	.0003395	.002470	-.008814
#3	-.004938	-.004421	.000946	-.002018	.0014963	-.001720	-.012355

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000215**	**-.000184**	**.0020105**	**.0005071**	**-.000337**	**.0004304**	**-.003812**
Stddev	.000027	.000049	.0030108	.0001117	.000038	.0002281	.006946
%RSD	12.77015	26.57022	149.7510	22.03115	11.34931	52.98981	182.2220
#1	-.000190	-.000154	-.001455	.0004208	-.000328	.0006915	.004042
#2	-.000244	-.000158	.003987	.0004671	-.000379	.0003297	-.009144
#3	-.000210	-.000241	.003499	.0006333	-.000304	.0002700	-.006333

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040266**	**.0091597**	**.0007261**	**-.000215**	**383.0743**	**.0030619**	**.0017567**
Stddev	.0002452	.0079046	.0001745	.000158	.5336	.0008002	.0002045
%RSD	6.089863	86.29826	24.03172	73.40383	.1392870	26.13258	11.63855
#1	.0039530	.0082744	.0009192	-.000224	383.0122	.0026044	.0019444
#2	.0043002	.0174697	.0005797	-.000053	382.5745	.0025955	.0017868
#3	.0038266	.0017349	.0006794	-.000368	383.6362	.0039858	.0015388

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.047593**	**-.003105**	**-.000201**	**-.013808**	**-.000913**	**.0001711**	**.0253272**
Stddev	.004742	.000262	.000363	.000341	.000918	.0018726	.0020213
%RSD	9.963380	8.447414	180.6870	2.468092	100.4974	1094.669	7.980809
#1	-.042316	-.003406	.000186	-.013901	-.001050	-.001316	.0238827
#2	-.048967	-.002924	-.000533	-.014092	-.001754	.002274	.0276372
#3	-.051496	-.002986	-.000256	-.013430	.000065	-.000445	.0244618

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: PB168689TB Acquired: 7/8/2025 3:23:01 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0406927	-.009494	.0000541
Stddev	.0038660	.001270	.0000610
%RSD	9.500457	13.37955	112.6879
#1	.0451450	-.008161	.0001219
#2	.0387473	-.010690	.0000037
#3	.0381859	-.009631	.0000368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4629.319	66177.22	9175.818	4441.816	6187.673
Stddev	14.888	147.26	25.415	12.783	16.234
%RSD	.3216111	.2225237	.2769752	.2877908	.2623627
#1	4631.121	66154.58	9170.563	4428.118	6196.197
#2	4643.224	66042.59	9153.441	4443.904	6197.870
#3	4613.611	66334.49	9203.449	4453.427	6168.952

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-02 Acquired: 7/8/2025 3:36:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment: Q2473-02

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0634745**	**-.011881**	**2.088146**	**.0019598**	**.0071255**	**108.5314**
Stddev	.0025192	.001960	.007915	.0026649	.0007804	.1623
%RSD	3.968874	16.50152	.3790266	135.9761	10.95241	.1495558
#1	.0627964	-.013992	2.083641	.0013210	.0070682	108.7145
#2	.0662633	-.011532	2.083513	-.000328	.0079330	108.4742
#3	.0613636	-.010117	2.097285	.004886	.0063754	108.4053

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.682179**	**.0070316**	**.0068820**	**501.4940**	**.2890690**	**.1154035**
Stddev	.005232	.0001062	.0000818	2.1929	.0005841	.0002290
%RSD	.3110279	1.510890	1.188502	.4372710	.2020438	.1984608
#1	1.678741	.0070825	.0069740	503.1768	.2894623	.1152874
#2	1.688200	.0071028	.0068174	502.2912	.2883979	.1152558
#3	1.679596	.0069095	.0068547	499.0141	.2893467	.1156673

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6237774**	**232.4292**	**3.930395**	**77.29986**	**.3495926**	**-.016172**
Stddev	.0020489	1.3804	.012268	.22354	.0010478	.000538
%RSD	.3284644	.5939181	.3121286	.2891853	.2997197	3.328176
#1	.6226115	230.9147	3.941420	77.29320	.3483829	-.016735
#2	.6225776	232.7559	3.917179	77.52666	.3502178	-.016116
#3	.6261432	233.6170	3.932585	77.07973	.3501770	-.015663

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.585800**	**.3885371**	**1.854192**	**22.49528**	**.5053713**	**.0096197**
Stddev	.041584	.0012979	.003202	.19855	.0054705	.0004648
%RSD	.6314232	.3340591	.1727085	.8826287	1.082465	4.832000
#1	6.549321	.3898380	1.851474	22.30289	.4996804	.0091046
#2	6.576997	.3872421	1.857722	22.48350	.5058427	.0097466
#3	6.631080	.3885310	1.853378	22.69946	.5105909	.0100079

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: Q2473-02 Acquired: 7/8/2025 3:36:09 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment: Q2473-02

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0964346	5.226224	F 29.43924	6.760047	19.15871	.1846236
Stddev	.0002132	.009803	.18805	.001840	.03523	.0022739
%RSD	.2211211	.1875774	.6387607	.0272128	.1838818	1.231648
#1	.0964233	5.221826	29.26876	6.758957	19.11870	.1823671
#2	.0962273	5.237456	29.40800	6.762171	19.18510	.1845891
#3	.0966533	5.219390	29.64094	6.759013	19.17234	.1869146

Elem	Sr4077
Units	ppm
Avg	1.033148
Stddev	.005238
%RSD	.5069453
#1	1.037814
#2	1.027483
#3	1.034148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4798.903	72431.32	10164.70	4745.403	5645.187
Stddev	4.928	142.50	65.81	17.276	8.960
%RSD	.1026990	.1967356	.6474787	.3640555	.1587211
#1	4801.495	72588.96	10132.80	4762.089	5649.098
#2	4801.995	72393.35	10120.91	4727.592	5651.526
#3	4793.220	72311.65	10240.39	4746.528	5634.936

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV07 Acquired: 7/8/2025 3:40:20 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.042643**	**4.522331**	**4.976786**	**5.020449**	**5.058487**	**9.869577**
Stddev	.017543	.052418	.021006	.005629	.011833	.044066
%RSD	.3478915	1.159089	.4220780	.1121268	.2339207	.4464847
#1	5.028044	4.557082	4.957819	5.015060	5.046044	9.897487
#2	5.037782	4.547872	4.973177	5.026291	5.059821	9.818777
#3	5.062104	4.462038	4.999363	5.019995	5.069596	9.892468

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.32340**	**.2511896**	**2.496576**	**24.75914**	**1.015769**	**2.498054**
Stddev	.03294	.0010016	.008246	.08692	.005634	.007809
%RSD	.3190780	.3987509	.3303094	.3510475	.5546661	.3126030
#1	10.34683	.2511867	2.488650	24.79289	1.019532	2.491057
#2	10.33764	.2501894	2.495969	24.66041	1.018483	2.496627
#3	10.28574	.2521926	2.505110	24.82412	1.009291	2.506478

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.273520**	**5.150753**	**2.466207**	**24.33537**	**2.506367**	**1.265853**
Stddev	.004769	.050351	.005854	.11197	.007216	.004581
%RSD	.3744880	.9775393	.2373510	.4601075	.2879043	.3619074
#1	1.269175	5.168945	2.472941	24.38395	2.499172	1.270908
#2	1.272763	5.189479	2.463341	24.20732	2.506326	1.264673
#3	1.278623	5.093835	2.462338	24.41485	2.513603	1.261977

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14151**	**2.492017**	**2.502610**	**27.06659**	**4.984494**	**5.002657**
Stddev	.16505	.007098	.008607	.14162	.033200	.010876
%RSD	.6564691	.2848486	.3439270	.5232355	.6660559	.2174085
#1	25.26557	2.498611	2.512520	27.14522	4.988460	4.990794
#2	25.20478	2.484504	2.497000	27.15146	4.949489	5.005017
#3	24.95419	2.492937	2.498311	26.90310	5.015532	5.012159

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCV07 Acquired: 7/8/2025 3:40:20 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.922410**	**4.964296**	**5.070174**	F **4.357765**	**4.727309**	**5.332875**
Stddev	.010185	.014939	.019448	.030531	.021624	.021607
%RSD	.2069178	.3009262	.3835740	.7006018	.4574218	.4051703
#1	4.911104	4.970575	5.083551	4.324536	4.702513	5.339453
#2	4.925260	4.947243	5.079107	4.364183	4.737170	5.308744
#3	4.930867	4.975071	5.047865	4.384577	4.742246	5.350429

Elem	Sr4077
Units	ppm
Avg	**4.963350**
Stddev	.013032
%RSD	.2625735
#1	4.970029
#2	4.948332
#3	4.971689

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4716.624**	**67609.31**	**8869.005**	**4454.269**	**6441.477**
Stddev	10.857	472.64	19.034	22.619	15.347
%RSD	.2301939	.6990743	.2146110	.5078126	.2382491
#1	4725.005	67350.05	8854.656	4429.943	6455.304
#2	4720.508	67323.03	8890.597	4474.668	6444.163
#3	4704.359	68154.84	8861.761	4458.197	6424.965

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

Sample Name: CCB07 Acquired: 7/8/2025 3:44:31 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000185**	**-.000384**	**.0006559**	**-.004092**	**.0012416**	**.0037569**
Stddev	.001979	.001100	.0005387	.001204	.0012109	.0052101
%RSD	1071.413	286.1058	82.14097	29.43026	97.52502	138.6807
#1	.002094	-.001130	.0007627	-.004368	.0002191	-.001914
#2	-.001177	-.000902	.0000717	-.005134	.0025787	.004853
#3	-.001471	.000879	.0011332	-.002774	.0009269	.008332

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006134**	**-.000059**	**-.000008**	**.0107581**	**-.000008**	**-.000058**
Stddev	.001009	.000024	.000040	.0108685	.000149	.000106
%RSD	16.44364	40.74599	492.0693	101.0271	1780.392	181.2694
#1	-.005048	-.000031	-.000012	-.001644	-.000092	-.000110
#2	-.006313	-.000072	.000034	.015298	.000164	.000063
#3	-.007041	-.000074	-.000046	.018621	-.000097	-.000129

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001260**	**.0066714**	**.0002644**	**.0104215**	**.0000830**	**-.000297**
Stddev	.0005015	.0068139	.0000194	.0245293	.0003171	.000299
%RSD	398.0751	102.1357	7.346436	235.3724	382.0441	100.6731
#1	.0003206	.0106577	.0002431	-.006158	.0001701	-.000228
#2	-.000444	-.001196	.0002812	-.001177	.0003474	-.000039
#3	.000501	.010553	.0002689	.038599	-.000269	-.000624

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2135952**	**.0016742**	**.0001292**	**-.095888**	**-.000755**	**.0007480**
Stddev	.0055487	.0018571	.0001469	.019340	.000409	.0000579
%RSD	2.597762	110.9221	113.6841	20.16950	54.22050	7.738984
#1	.2084093	.0036159	.0001778	-.073646	-.000598	.0007564
#2	.2129296	.0014915	-.000036	-.105268	-.000447	.0006863
#3	.2194466	-.000085	.000246	-.108749	-.001219	.0008011

Reviewed By:jaswal
On:7/9/2025 2:58:20 AM
Inst Id :P4
LB :LB136390

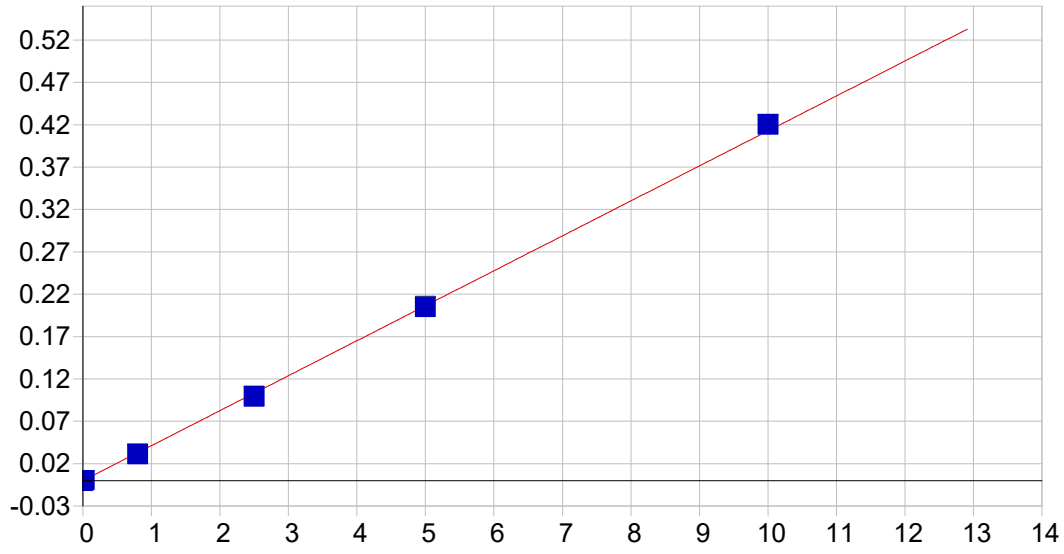
Sample Name: CCB07 Acquired: 7/8/2025 3:44:31 Type: Unk
Method: 6010-200.7 NEW(v28) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000631	-.000699	-.011591	F .0113312	.0056996	F .0157558
Stddev	.000452	.001593	.005564	.0010470	.0016068	.0018693
%RSD	71.66915	227.9600	48.00494	9.239864	28.19154	11.86425
#1	-.001091	-.000859	-.005168	.0115525	.0066543	.0172171
#2	-.000612	.000968	-.014654	.0122499	.0066001	.0136494
#3	-.000188	-.002206	-.014951	.0101913	.0038445	.0164009

Elem	Sr4077
Units	ppm
Avg	.0001827
Stddev	.0000253
%RSD	13.85410
#1	.0002117
#2	.0001713
#3	.0001651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4975.768	68702.01	9299.788	4601.417	7145.935
Stddev	17.097	419.28	53.938	33.827	24.134
%RSD	.3435993	.6102918	.5799943	.7351515	.3377294
#1	4990.624	69017.19	9353.451	4627.780	7170.306
#2	4979.598	68226.15	9300.335	4563.274	7145.454
#3	4957.081	68862.68	9245.578	4613.195	7122.046

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



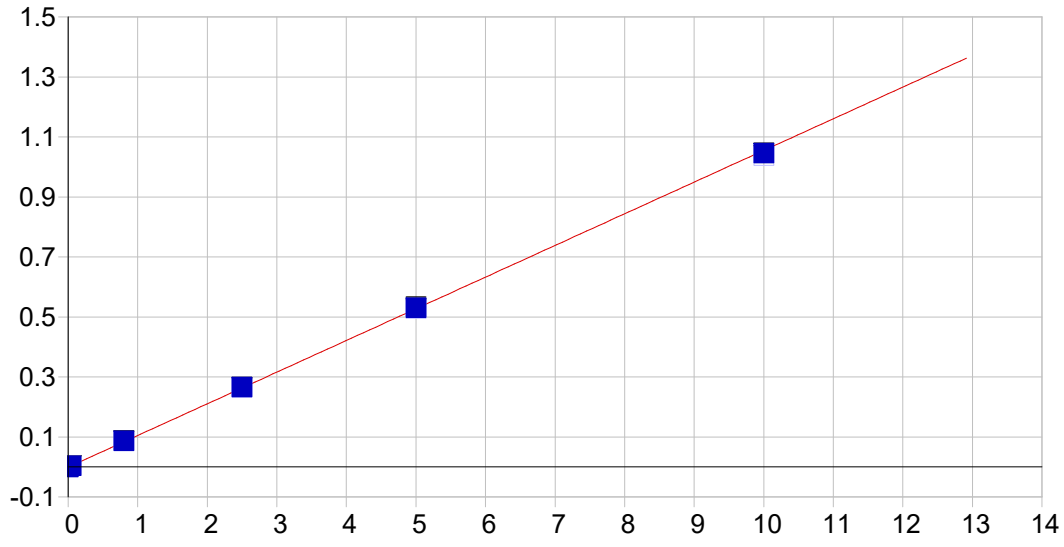
As 189.042 {479}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000031	Re-Slope:	1.000000
A1 (Gain):	0.041275	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999686	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.003519		
Predicted MQL:	0.011730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00003	.000	1
S1	.02000	.01391	-.006	-30.4	.00054	.000	1
S2	.80000	.75590	-.044	-5.51	.03116	.000	1
S3	2.5000	2.4043	-.096	-3.83	.09919	.000	1
S4	5.0000	4.9640	-.036	-.720	.20483	.001	1
S5	10.000	10.182	.182	1.82	.42016	.000	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



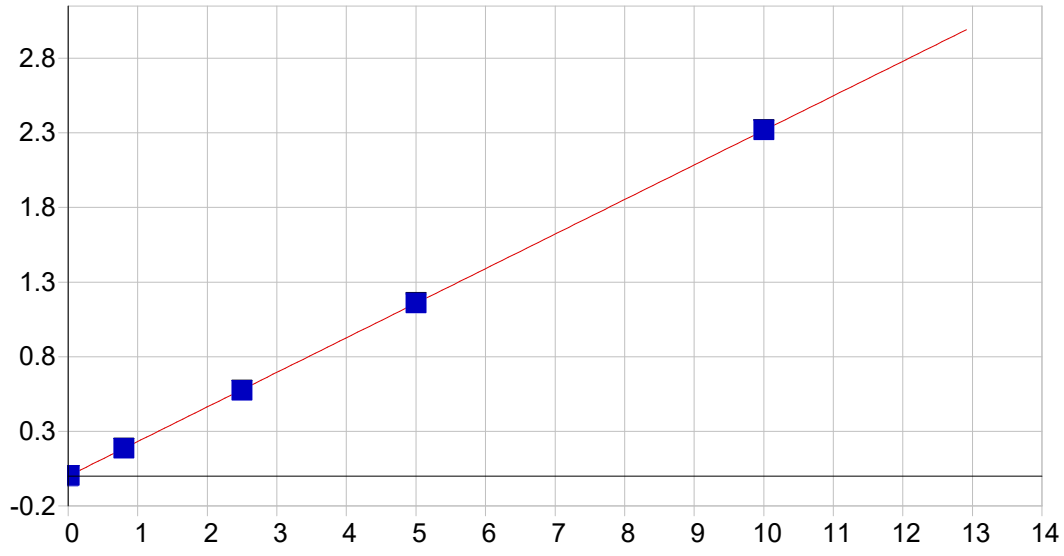
Tl 190.856 {477}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000776	Re-Slope:	1.000000
A1 (Gain):	0.105565	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.002260		
Predicted MQL:	0.007532		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00078	.000	1
S1	.04000	.04033	.000	.831	.00338	.000	1
S2	.80000	.82692	.027	3.36	.08586	.000	1
S3	2.5000	2.5234	.023	.935	.26354	.001	1
S4	5.0000	5.0357	.036	.714	.52669	.002	1
S5	10.000	9.9137	-.086	-.863	1.0375	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



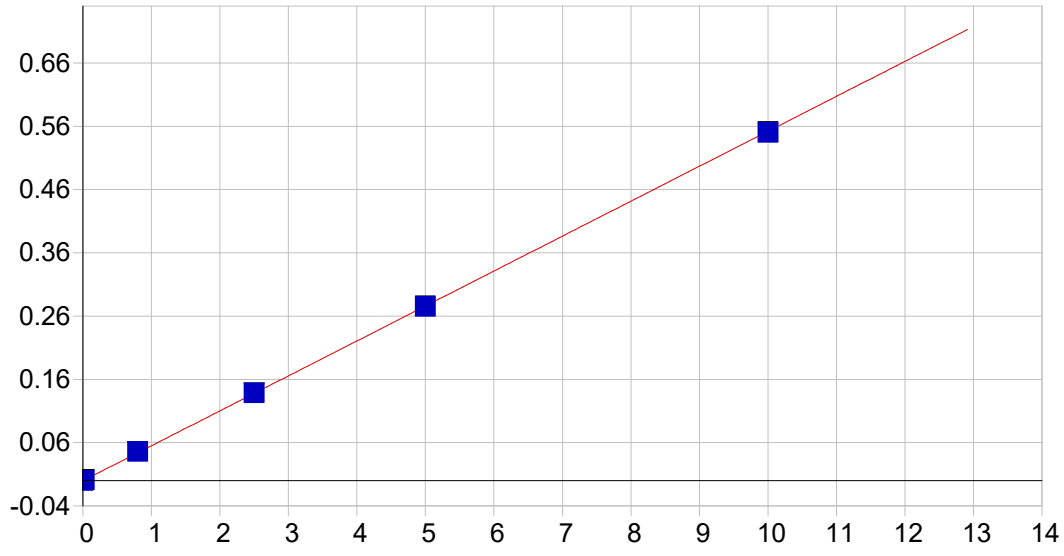
Pb 220.353 {453}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000120	Re-Slope:	1.000000
A1 (Gain):	0.231650	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.002079		
Predicted MQL:	0.006931		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.01200	.01142	-.001	-4.82	.00271	.000	1
S2	.80000	.80189	.002	.236	.18571	.000	1
S3	2.5000	2.4777	-.022	-.894	.57355	.002	1
S4	5.0000	5.0032	.003	.064	1.1581	.005	1
S5	10.000	10.018	.018	.178	2.3187	.002	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



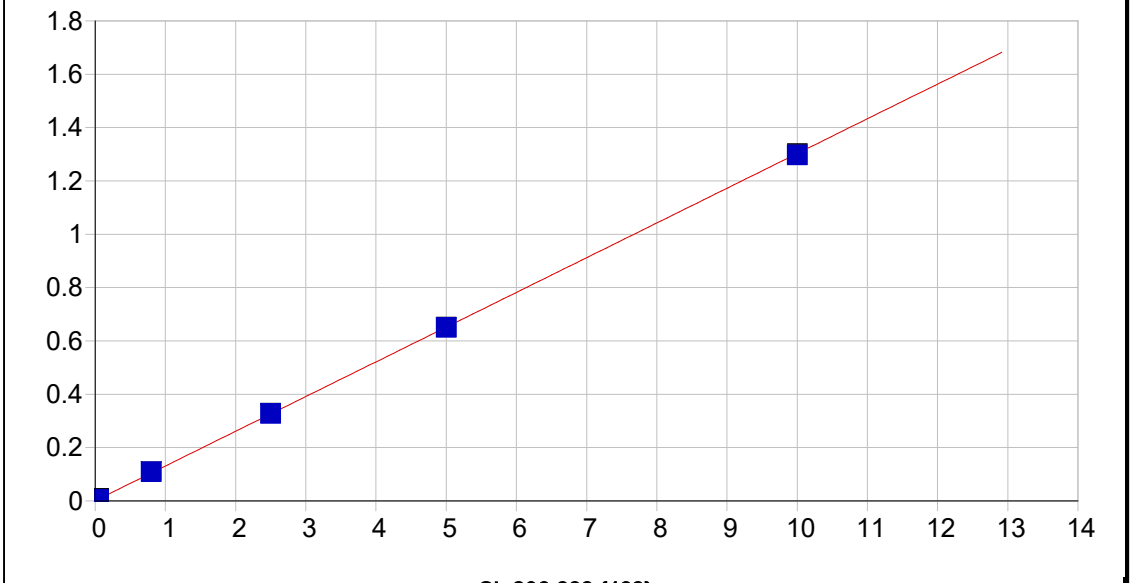
Se 196.090 {472}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000216	Re-Slope:	1.000000
A1 (Gain):	0.055233	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.005271		
Predicted MQL:	0.017571		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00022	.000	1
S1	.02000	.02390	.004	19.5	.00110	.000	1
S2	.80000	.83442	.034	4.30	.04585	.000	1
S3	2.5000	2.5143	.014	.572	.13858	.001	1
S4	5.0000	4.9841	-.016	-.319	.27491	.001	1
S5	10.000	9.9633	-.037	-.367	.54977	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



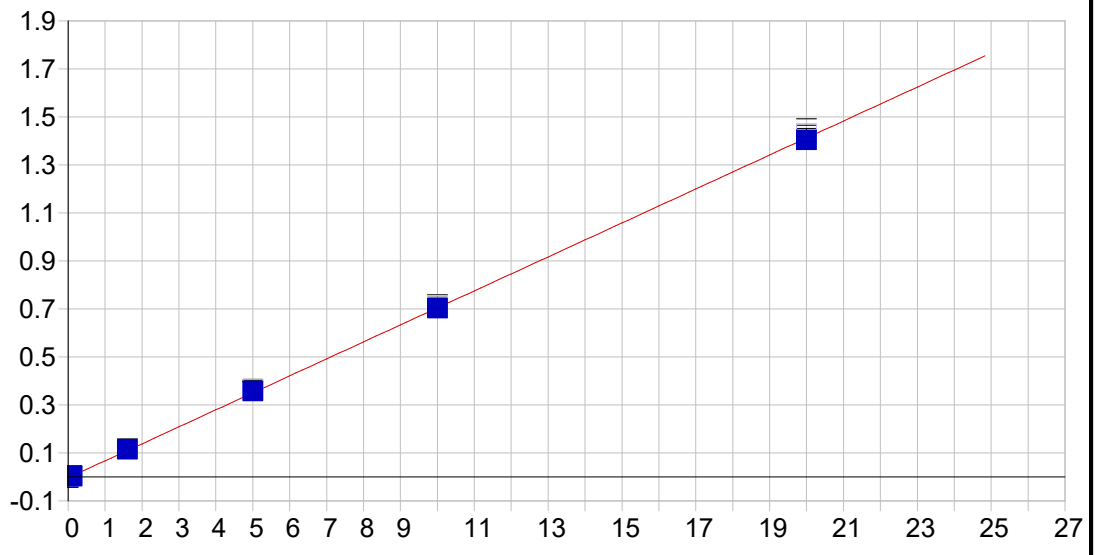
Sb 206.833 {463}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000681	Re-Slope:	1.000000
A1 (Gain):	0.130192	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.003114		
Predicted MQL:	0.010381		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00068	.000	1
S1	.05000	.05278	.003	5.57	.00748	.000	1
S2	.80000	.83586	.036	4.48	.10935	.001	1
S3	2.5000	2.5102	.010	.408	.32700	.001	1
S4	5.0000	4.9882	-.012	-.237	.64912	.001	1
S5	10.000	9.9630	-.037	-.370	1.2958	.004	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



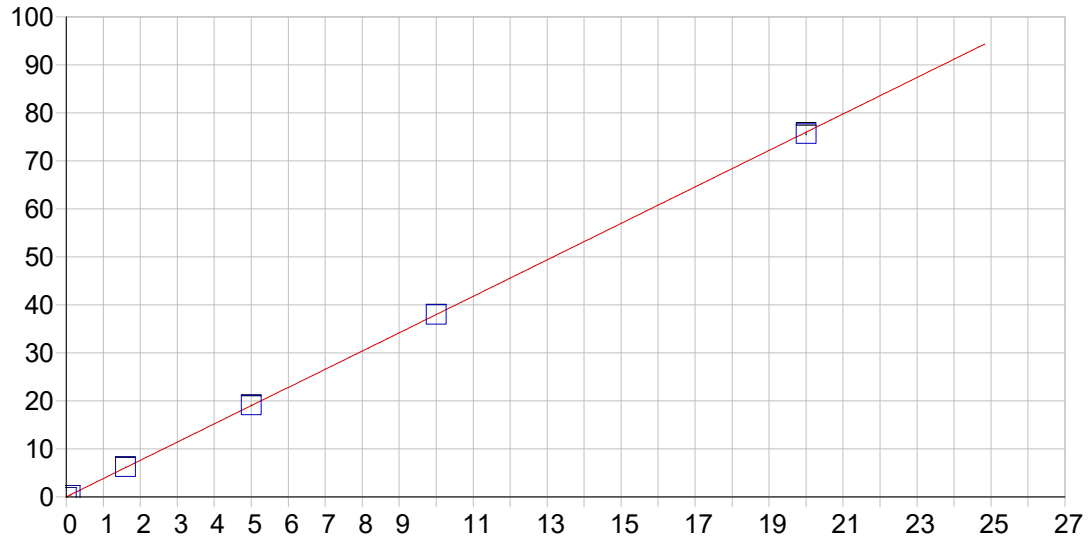
Al 396.152 { 85}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003614	Re-Slope:	1.000000
A1 (Gain):	0.070786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.034593		
Predicted MQL:	0.115310		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00361	.000	1
S1	.10000	.08608	-.014	-13.9	.00301	.002	1
S2	1.6000	1.6617	.062	3.86	.11612	.002	1
S3	5.0000	5.0956	.096	1.91	.36367	.002	1
S4	10.000	9.9693	-.031	-.307	.71525	.002	1
S5	20.000	19.888	-.112	-.560	1.4305	.020	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



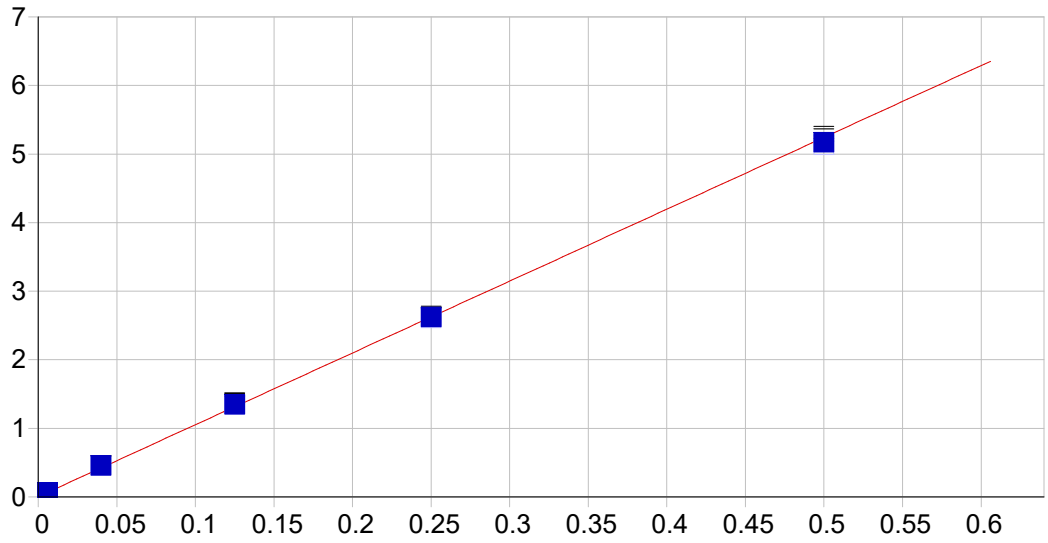
Ba 493.409 { 68}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009772	Re-Slope:	1.000000
A1 (Gain):	3.798333	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.001865		
Predicted MDL:	0.001150		
Predicted MQL:	0.003834		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00977	.004	1
S1	.10000	.09866	-.001	-1.34	.38453	.002	1
S2	1.6000	1.6425	.043	2.66	6.2486	.017	1
S3	5.0000	5.0276	.028	.551	19.106	.073	1
S4	10.000	10.009	.009	.088	38.027	.048	1
S5	20.000	19.922	-.078	-.388	75.682	.271	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



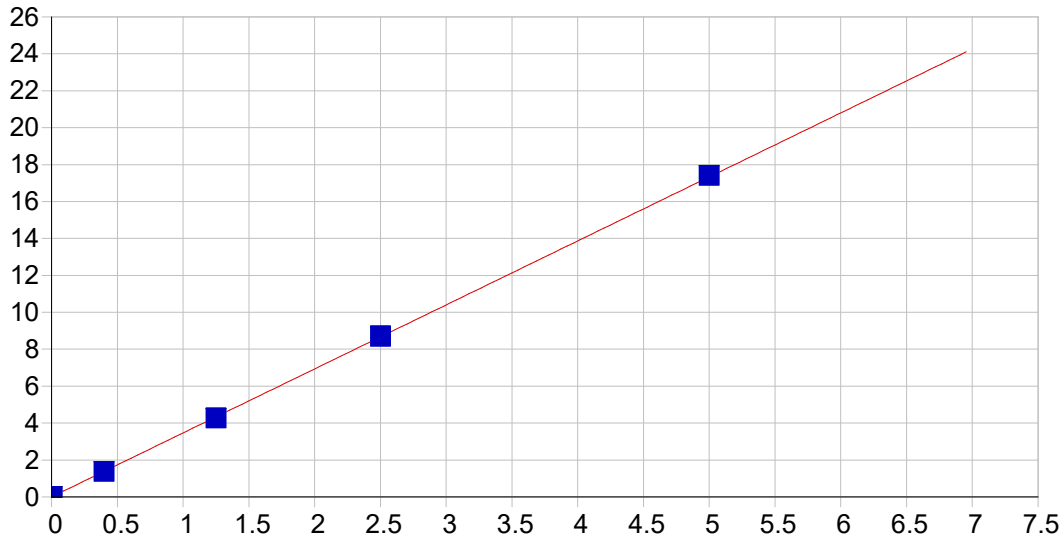
Be 234.861 {144}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004365	Re-Slope:	1.000000
A1 (Gain):	10.477178	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000667		
Predicted MDL:	0.000157		
Predicted MQL:	0.000523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00436	.001	1
S1	.00600	.00639	.000	6.56	.07068	.000	1
S2	.04000	.04302	.003	7.55	.45230	.003	1
S3	.12500	.12851	.004	2.80	1.3420	.023	1
S4	.25000	.25011	.000	.045	2.6074	.010	1
S5	.50000	.49297	-.007	-1.41	5.1343	.089	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



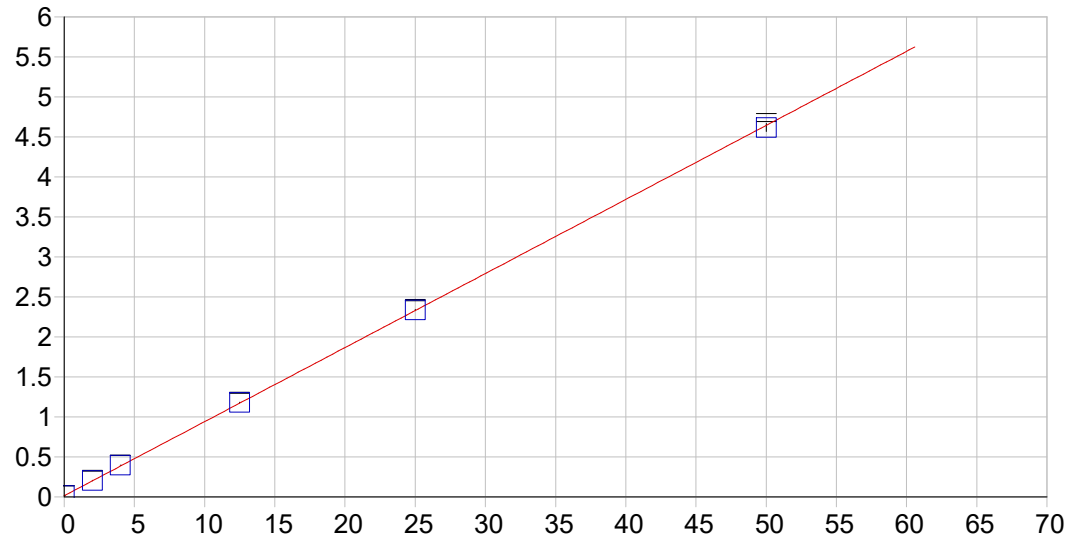
Cd 214.438 {457}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000364	Re-Slope:	1.000000
A1 (Gain):	3.466423	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000251		
Predicted MDL:	0.000092		
Predicted MQL:	0.000306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00037	.000	1
S1	.00600	.00562	-.000	-6.30	.01987	.000	1
S2	.40000	.39358	-.006	-1.60	1.3648	.001	1
S3	1.2500	1.2291	-.021	-1.68	4.2611	.005	1
S4	2.5000	2.5071	.007	.285	8.6919	.033	1
S5	5.0000	5.0206	.021	.412	17.405	.007	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



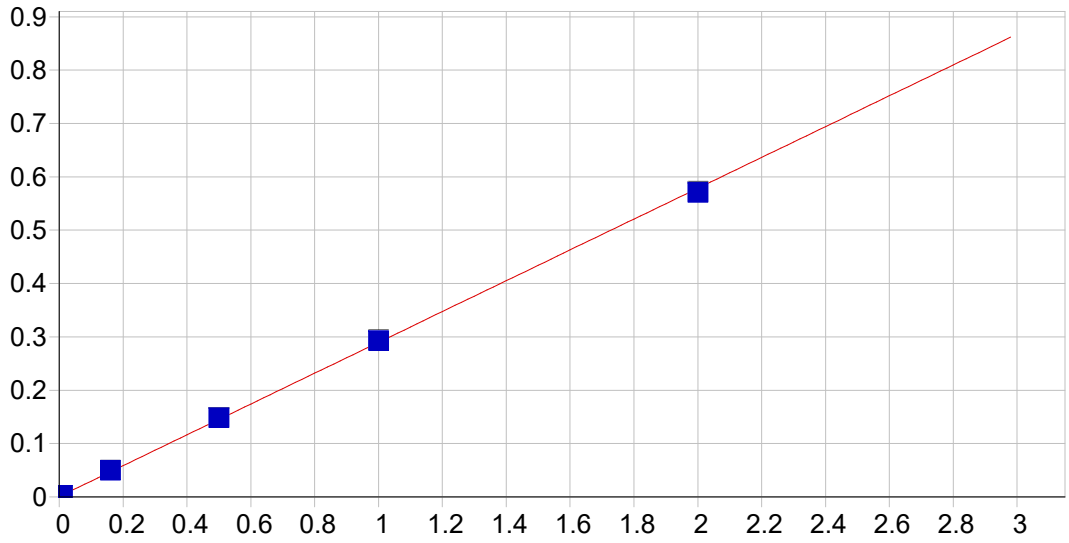
Ca 373.690 { 90}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015087	Re-Slope:	1.000000
A1 (Gain):	0.092573	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000396		
Predicted MDL:	0.024584		
Predicted MQL:	0.081946		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00010	-.000	.000	.01508	.001	1
S1	2.0000	2.0406	.041	2.03	.20399	.003	1
S2	4.0000	4.1100	.110	2.75	.39556	.001	1
S3	12.500	12.570	.070	.559	1.1787	.005	1
S4	25.000	25.069	.069	.277	2.3358	.008	1
S5	50.000	49.710	-.290	-.580	4.6169	.050	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



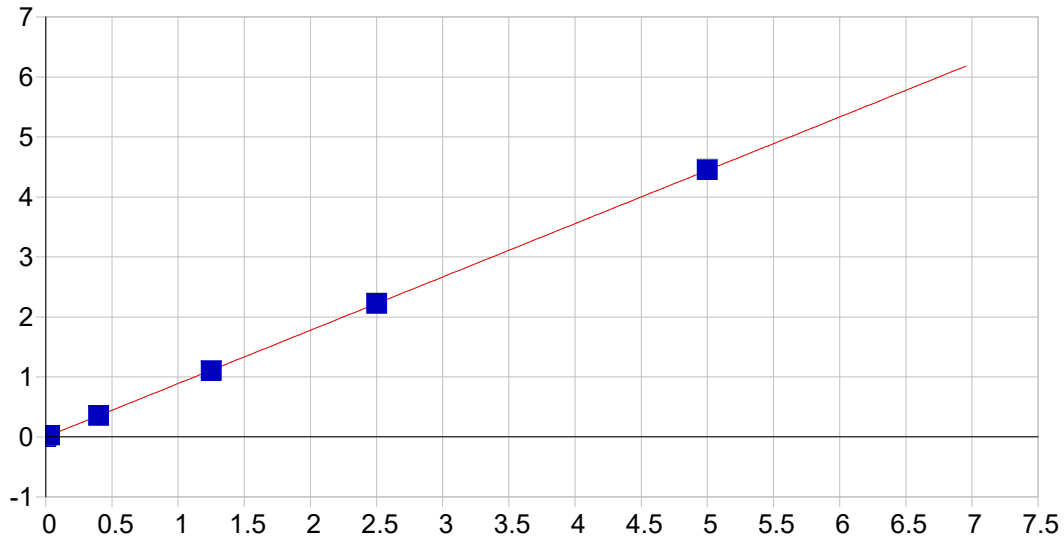
Cr 267.716 {126}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000754	Re-Slope:	1.000000
A1 (Gain):	0.288928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999831	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.000996		
Predicted MQL:	0.003320		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00075	.000	1
S1	.01000	.00945	-.001	-5.55	.00349	.000	1
S2	.16000	.16915	.009	5.72	.04971	.000	1
S3	.50000	.50959	.010	1.92	.14826	.000	1
S4	1.0000	1.0102	.010	1.02	.29318	.001	1
S5	2.0000	1.9716	-.028	-1.42	.57151	.002	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



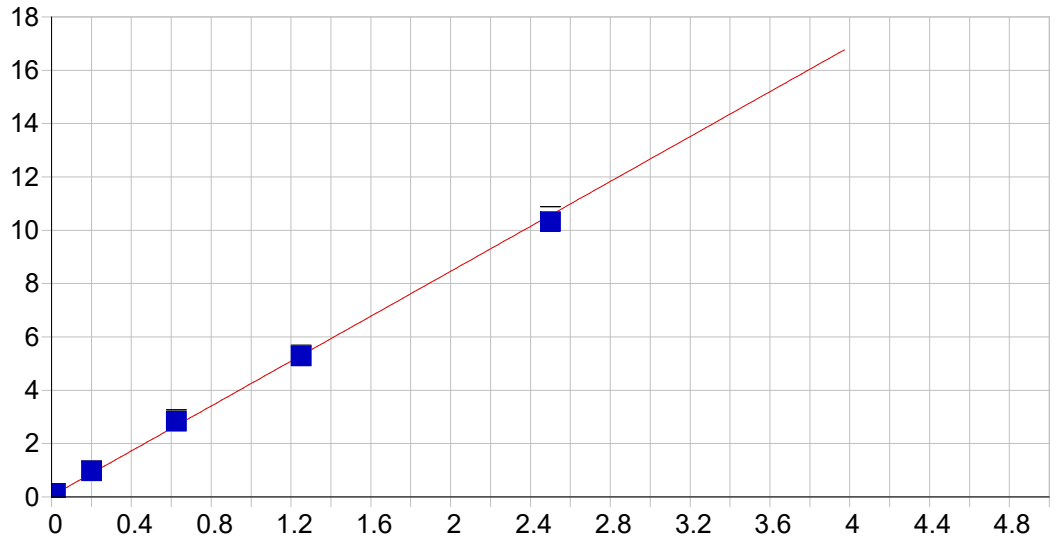
Co 228.616 {448}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000117	Re-Slope:	1.000000
A1 (Gain):	0.888651	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.000378		
Predicted MQL:	0.001261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.03000	.03005	.000	.172	.02667	.000	1
S2	.40000	.40100	.001	.251	.35690	.000	1
S3	1.2500	1.2418	-.008	-.657	1.1050	.001	1
S4	2.5000	2.4978	-.002	-.087	2.2225	.005	1
S5	5.0000	5.0093	.009	.186	4.4571	.003	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



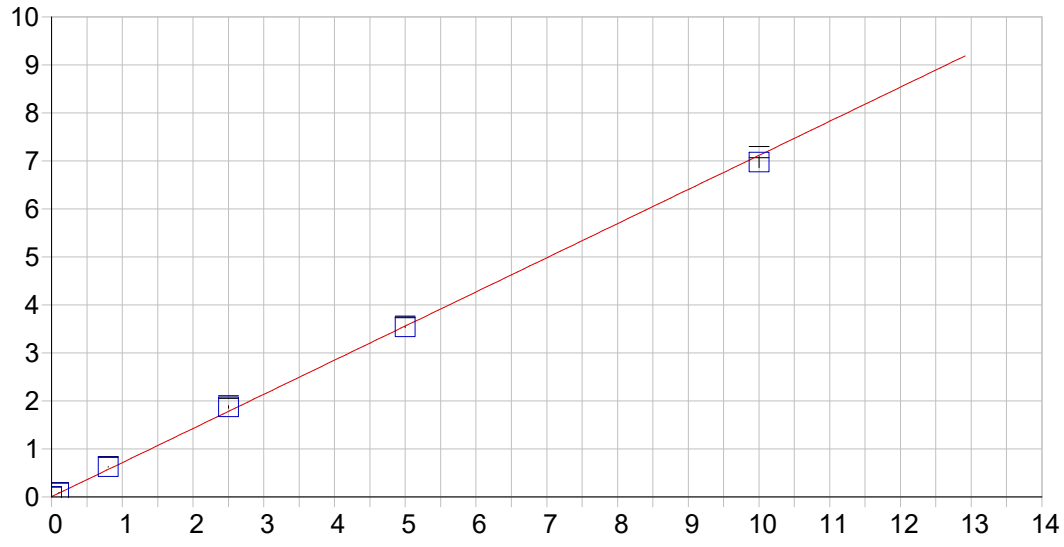
Cu 324.754 {104}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.040200	Re-Slope:	1.000000
A1 (Gain):	4.210039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999284	Status:	OK.
Std Error of Est:	0.001872		
Predicted MDL:	0.000883		
Predicted MQL:	0.002942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.04017	.003	1
S1	.02000	.02348	.003	17.4	.13911	.004	1
S2	.20000	.22096	.021	10.5	.97087	.004	1
S3	.62500	.66375	.039	6.20	2.8359	.052	1
S4	1.2500	1.2453	-.005	-.376	5.2855	.027	1
S5	2.5000	2.4415	-.058	-2.34	10.324	.188	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



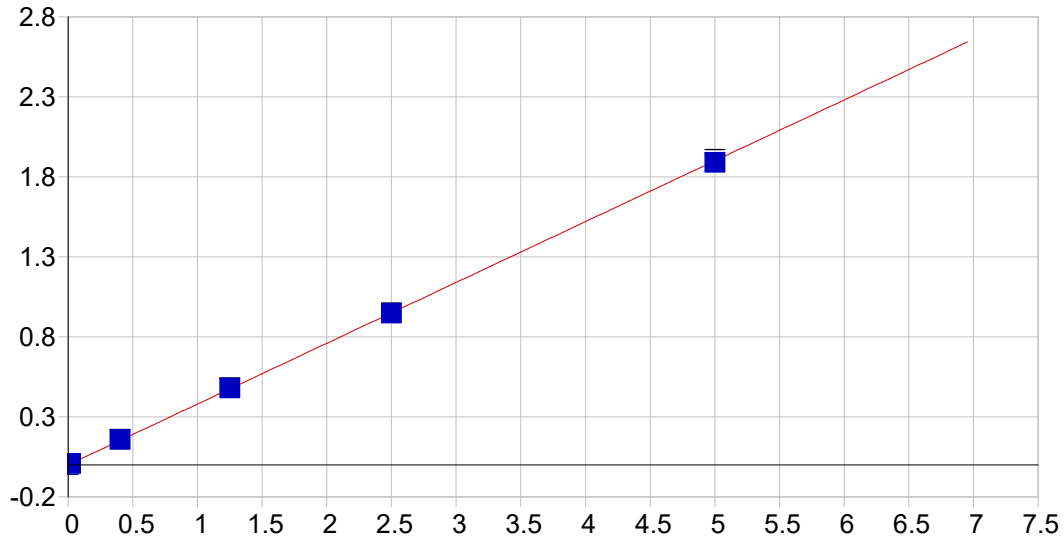
Fe 259.837 {130}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003543	Re-Slope:	1.000000
A1 (Gain):	0.711164	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999447	Status:	OK.
Std Error of Est:	0.001242		
Predicted MDL:	0.002657		
Predicted MQL:	0.008855		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00352	.001	1
S1	.10000	.11542	.015	15.4	.08563	.002	1
S2	.80000	.87647	.076	9.56	.62685	.005	1
S3	2.5000	2.6290	.129	5.16	1.8732	.028	1
S4	5.0000	4.9769	-.023	-.462	3.5429	.016	1
S5	10.000	9.8023	-.198	-1.98	6.9746	.117	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



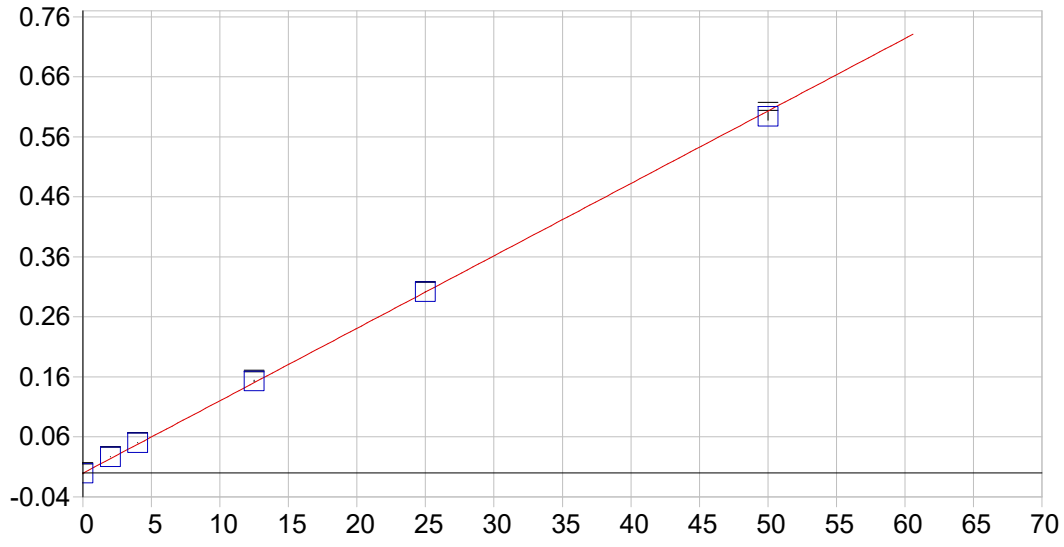
Mn 257.610 {131}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000153	Re-Slope:	1.000000
A1 (Gain):	0.380107	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.001716		
Predicted MQL:	0.005718		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.02000	.02302	.003	15.1	.00892	.000	1
S2	.40000	.41765	.018	4.41	.15904	.000	1
S3	1.2500	1.2624	.012	.989	.48041	.002	1
S4	2.5000	2.4927	-.007	-.294	.94848	.001	1
S5	5.0000	4.9743	-.026	-.514	1.8926	.017	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



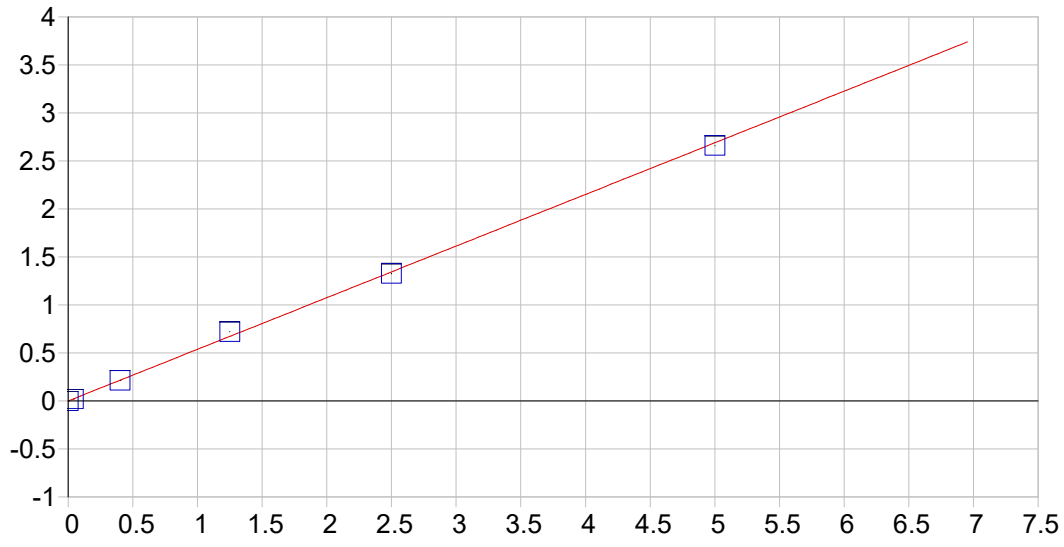
Mg 279.079 {121}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000467	Re-Slope:	1.000000
A1 (Gain):	0.012071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999674	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.068670		
Predicted MQL:	0.228901		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00038	-.000	.000	-.00047	.001	1
S1	2.0000	2.2679	.268	13.4	.02691	.000	1
S2	4.0000	4.1967	.197	4.92	.05019	.000	1
S3	12.500	12.735	.235	1.88	.15326	.001	1
S4	25.000	25.038	.038	.153	.30177	.001	1
S5	50.000	49.262	-.738	-1.48	.59417	.007	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



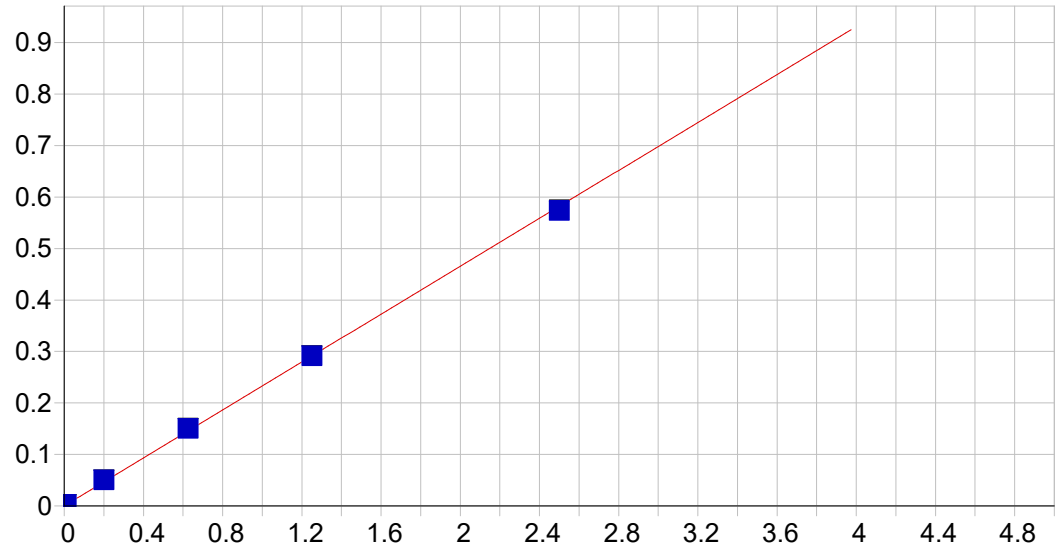
Ni 231.604 {446}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000206	Re-Slope:	1.000000
A1 (Gain):	0.537761	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999573	Status:	OK.
Std Error of Est:	0.000369		
Predicted MDL:	0.000659		
Predicted MQL:	0.002198		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00021	.000	1
S1	.04000	.03857	-.001	-3.56	.02054	.000	1
S2	.40000	.39686	-.003	-.786	.21321	.001	1
S3	1.2500	1.3419	.092	7.35	.72140	.001	1
S4	2.5000	2.4675	-.033	-1.30	1.3267	.003	1
S5	5.0000	4.9452	-.055	-1.10	2.6591	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



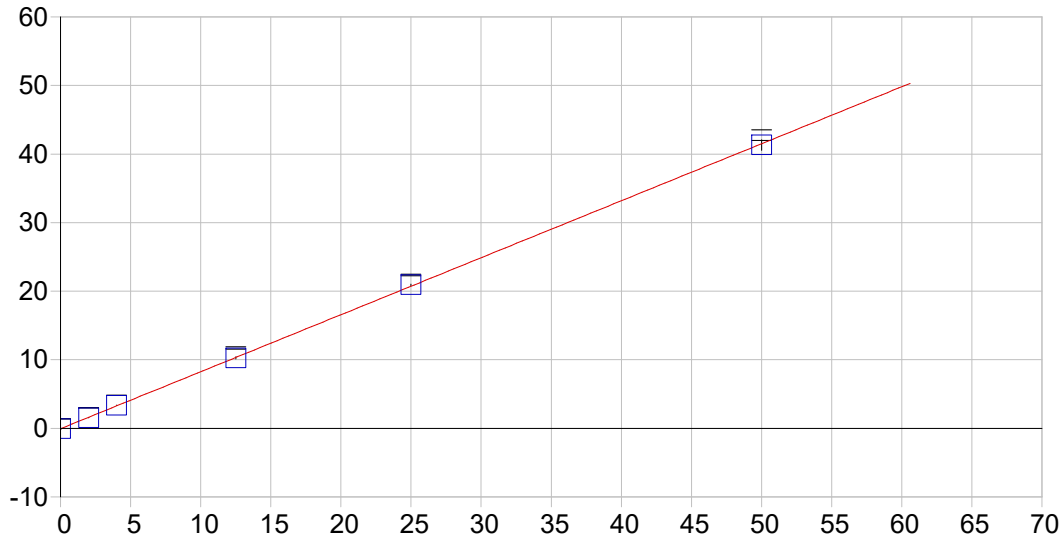
Ag 328.068 {103}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000344	Re-Slope:	1.000000
A1 (Gain):	0.232648	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999748	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.001465		
Predicted MQL:	0.004883		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.01000	.01021	.000	2.09	.00271	.000	1
S2	.20000	.21537	.015	7.68	.05041	.000	1
S3	.62500	.64445	.019	3.11	.15015	.000	1
S4	1.2500	1.2508	.001	.063	.29109	.001	1
S5	2.5000	2.4642	-.036	-1.43	.57314	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



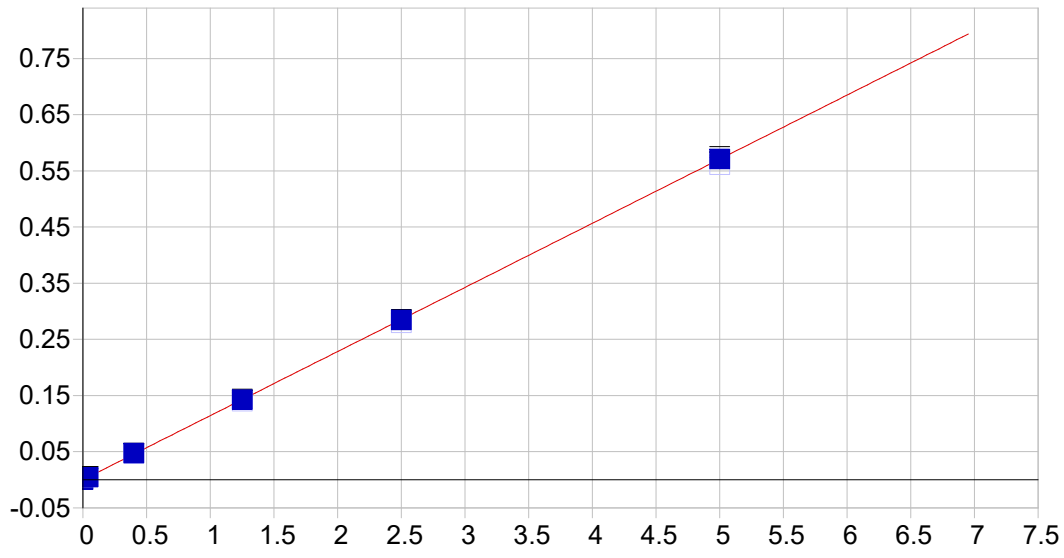
Na 818.326 { 41}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.055256	Re-Slope:	1.000000
A1 (Gain):	0.831156	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.004524		
Predicted MDL:	0.013930		
Predicted MQL:	0.046435		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.05524	.007	1
S1	2.0000	1.9284	-.072	-3.58	1.5475	.011	1
S2	4.0000	4.1193	.119	2.98	3.3685	.027	1
S3	12.500	12.428	-.072	-.578	10.274	.167	1
S4	25.000	25.244	.244	.977	20.927	.128	1
S5	50.000	49.780	-.220	-.439	41.320	.778	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



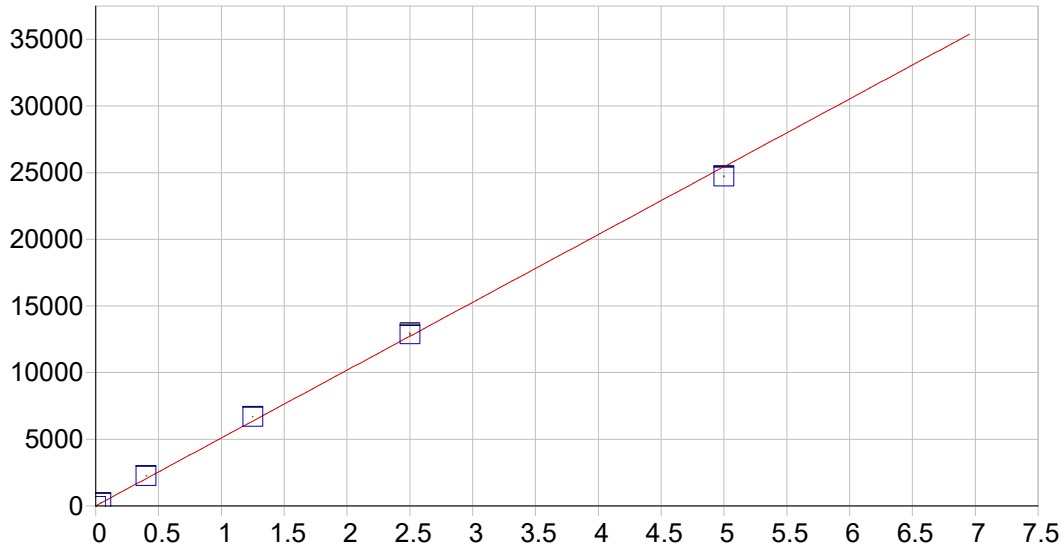
V 292.402 {115}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.114170	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.008754		
Predicted MQL:	0.029181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00011	.000	1
S1	.04000	.04112	.001	2.81	.00461	.002	1
S2	.40000	.41221	.012	3.05	.04635	.000	1
S3	1.2500	1.2458	-.004	-.334	.13980	.002	1
S4	2.5000	2.4890	-.011	-.441	.27918	.001	1
S5	5.0000	5.0019	.002	.038	.56098	.005	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



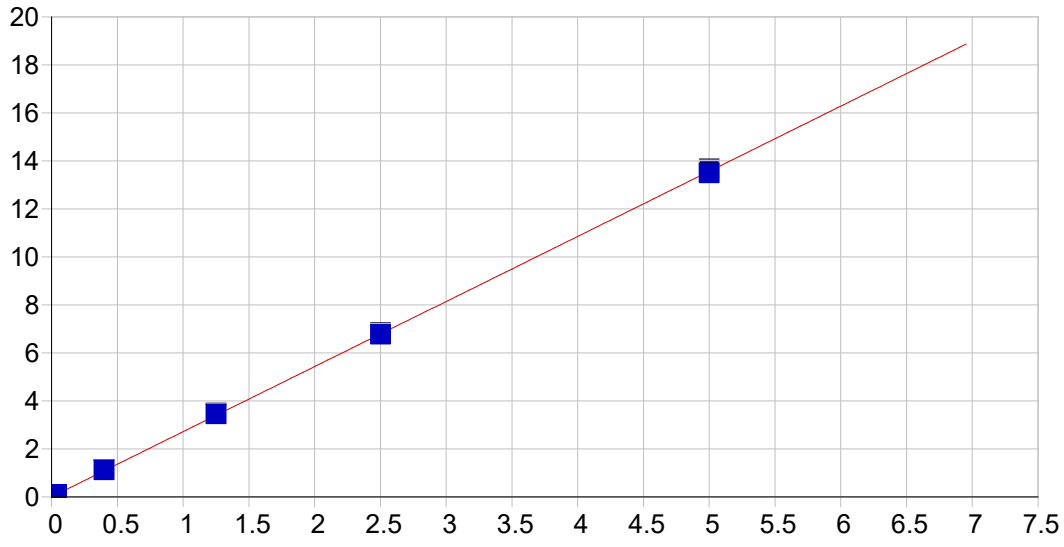
Zn 206.200 {464}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	8.665567	Re-Slope:	1.000000
A1 (Gain):	5087.732559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999318	Status:	OK.
Std Error of Est:	4.410949		
Predicted MDL:	0.000273		
Predicted MQL:	0.000912		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	8.6196	.917	1
S1	.04000	.04337	.003	8.41	229.30	1.36	1
S2	.40000	.44229	.042	10.6	2258.9	8.06	1
S3	1.2500	1.3152	.065	5.21	6699.9	17.5	1
S4	2.5000	2.5307	.031	1.23	12884.	99.8	1
S5	5.0000	4.8584	-.142	-2.83	24727.	45.5	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



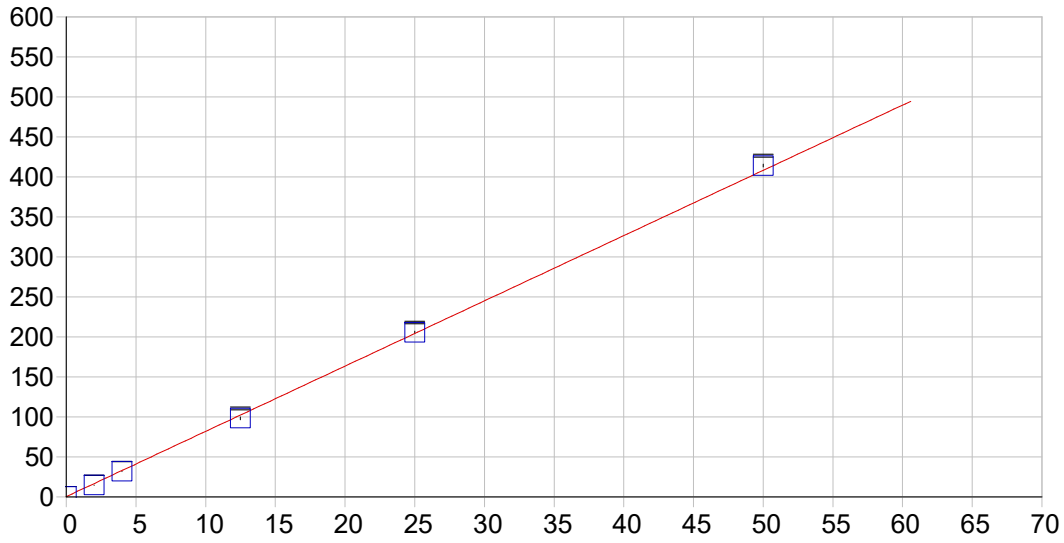
Zn 213.856 {158}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004143	Re-Slope:	1.000000
A1 (Gain):	2.712863	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000635		
Predicted MDL:	0.000494		
Predicted MQL:	0.001647		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00414	.001	1
S1	.04000	.03941	-.001	-1.48	.11184	.001	1
S2	.40000	.41242	.012	3.11	1.1309	.008	1
S3	1.2500	1.2712	.021	1.70	3.4775	.016	1
S4	2.5000	2.4937	-.006	-.251	6.8186	.027	1
S5	5.0000	4.9732	-.027	-.535	13.595	.075	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



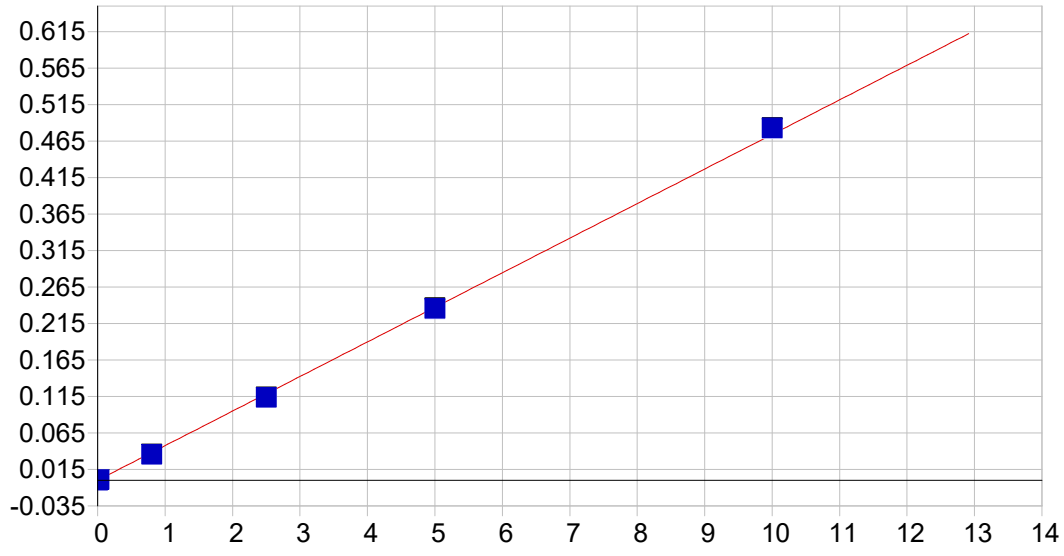
K 769.896 { 44}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.382361	Re-Slope:	1.000000
A1 (Gain):	8.155877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999629	Status:	OK.
Std Error of Est:	0.117508		
Predicted MDL:	0.001257		
Predicted MQL:	0.004189		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00037	.000	.000	.38534	.006	1
S1	2.0000	1.7452	-.255	-12.7	14.616	.026	1
S2	4.0000	3.8527	-.147	-3.68	31.805	.166	1
S3	12.500	12.006	-.494	-3.95	98.303	1.81	1
S4	25.000	25.160	.160	.638	205.58	1.50	1
S5	50.000	50.736	.736	1.47	414.18	1.79	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



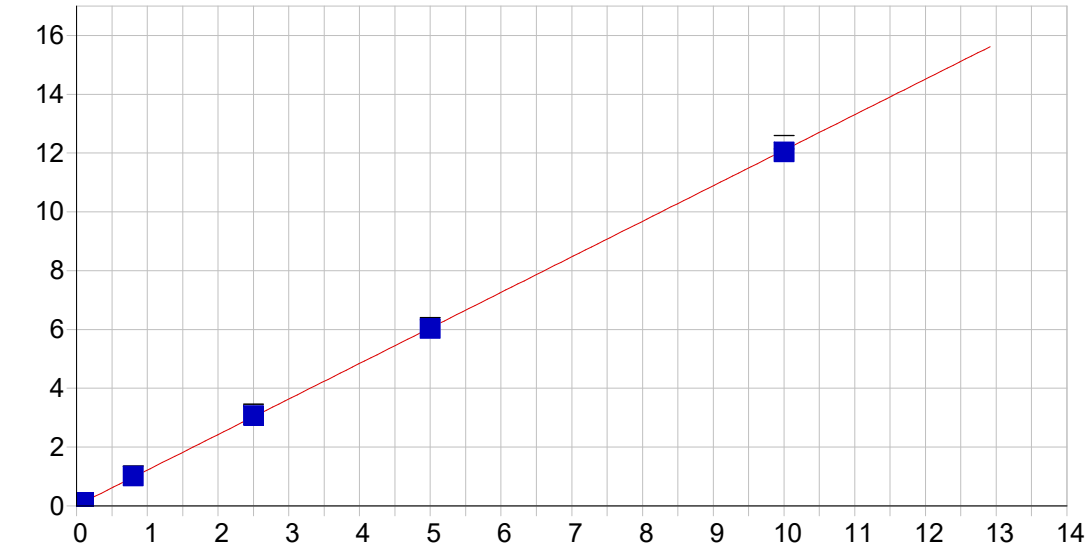
P 177.495 {490}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000141	Re-Slope:	1.000000
A1 (Gain):	0.047393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999696	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.003304		
Predicted MQL:	0.011013		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00014	.000	1
S1	.02000	.02172	.002	8.58	.00116	.000	1
S2	.80000	.75066	-.049	-6.17	.03563	.000	1
S3	2.5000	2.3975	-.102	-4.10	.11349	.000	1
S4	5.0000	4.9647	-.035	-.706	.23488	.001	1
S5	10.000	10.185	.185	1.85	.48176	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



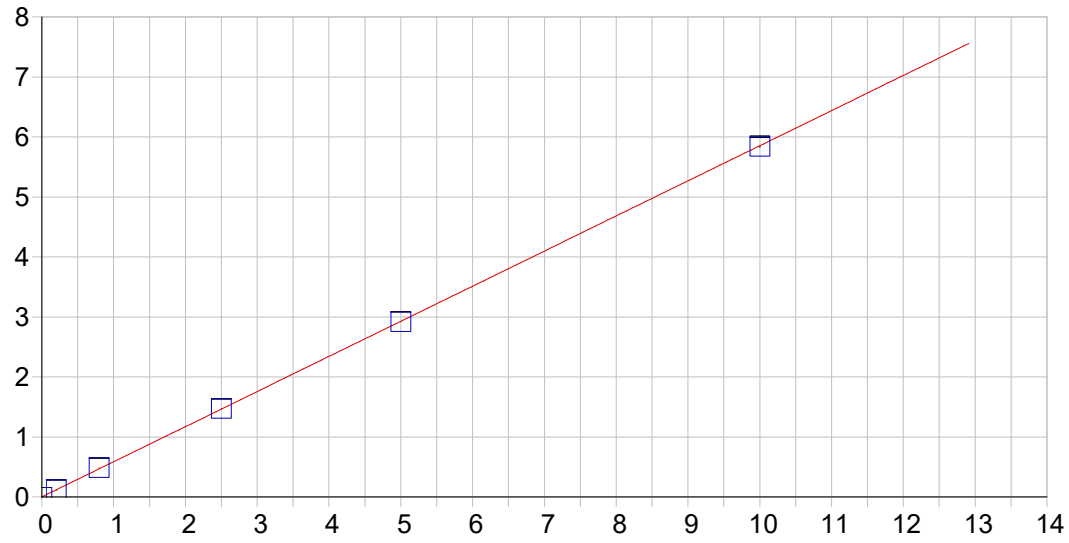
B 249.678 {135}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008193	Re-Slope:	1.000000
A1 (Gain):	1.208898	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000681		
Predicted MDL:	0.001703		
Predicted MQL:	0.005678		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00819	.001	1
S1	.10000	.09956	-.000	-.436	.12842	.001	1
S2	.80000	.83277	.033	4.10	1.0142	.010	1
S3	2.5000	2.5342	.034	1.37	3.0695	.049	1
S4	5.0000	4.9839	-.016	-.323	6.0286	.038	1
S5	10.000	9.9496	-.050	-.504	12.027	.231	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



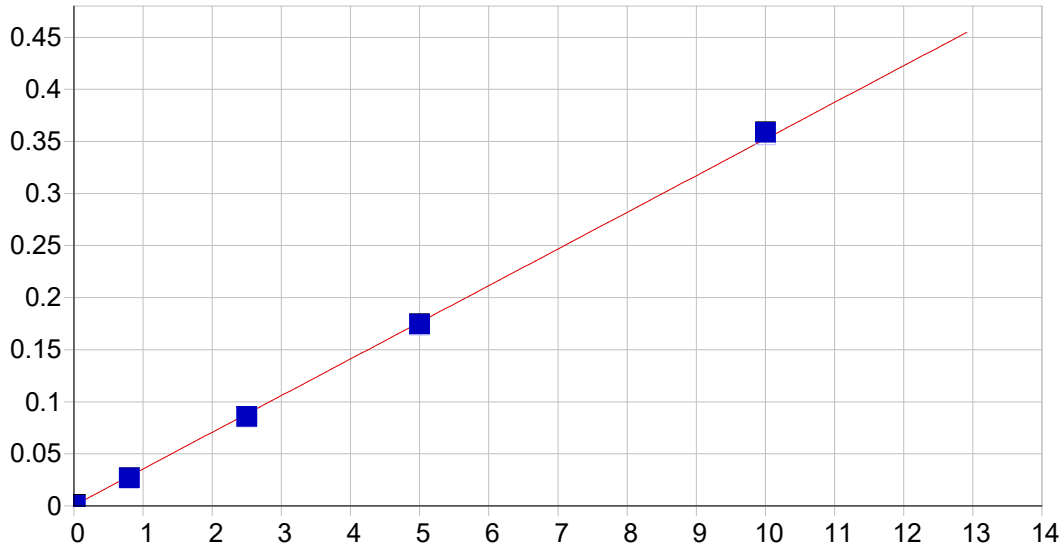
Mo 202.030 {467}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000592	Re-Slope:	1.000000
A1 (Gain):	0.585265	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000302		
Predicted MDL:	0.000568		
Predicted MQL:	0.001894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00059	.000	1
S1	.20000	.20044	.000	.218	.11790	.000	1
S2	.80000	.82456	.025	3.07	.48318	.001	1
S3	2.5000	2.5110	.011	.441	1.4702	.003	1
S4	5.0000	4.9877	-.012	-.247	2.9197	.003	1
S5	10.000	9.9763	-.024	-.237	5.8394	.013	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



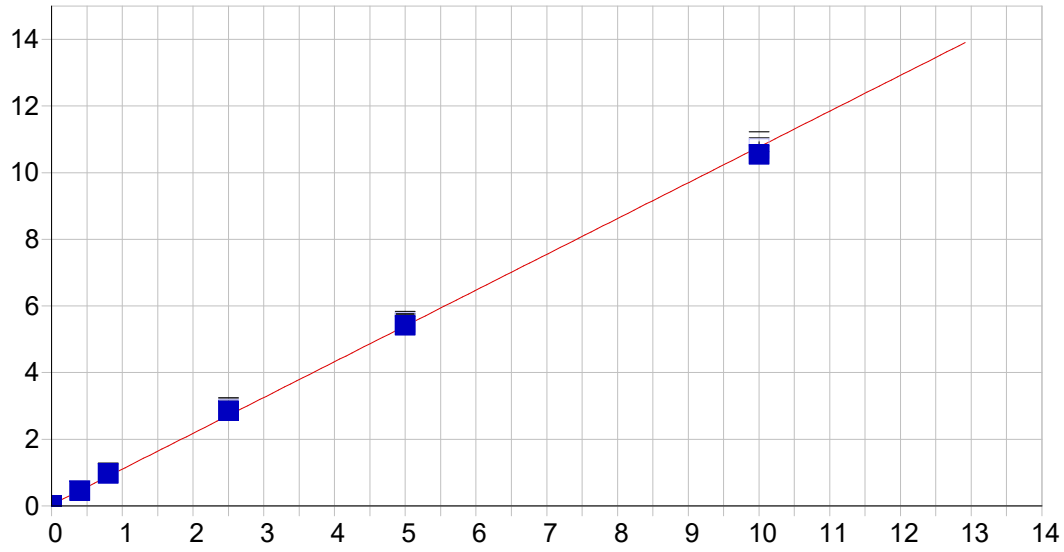
S 182.034 {485}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	0.035193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999746	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.004434		
Predicted MQL:	0.014781		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00035	.000	1
S1	.02000	.01905	-.001	-4.75	.00097	.000	1
S2	.80000	.75218	-.048	-5.98	.02664	.000	1
S3	2.5000	2.4218	-.078	-3.13	.08500	.000	1
S4	5.0000	4.9462	-.054	-1.08	.17326	.000	1
S5	10.000	10.181	.181	1.81	.35631	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



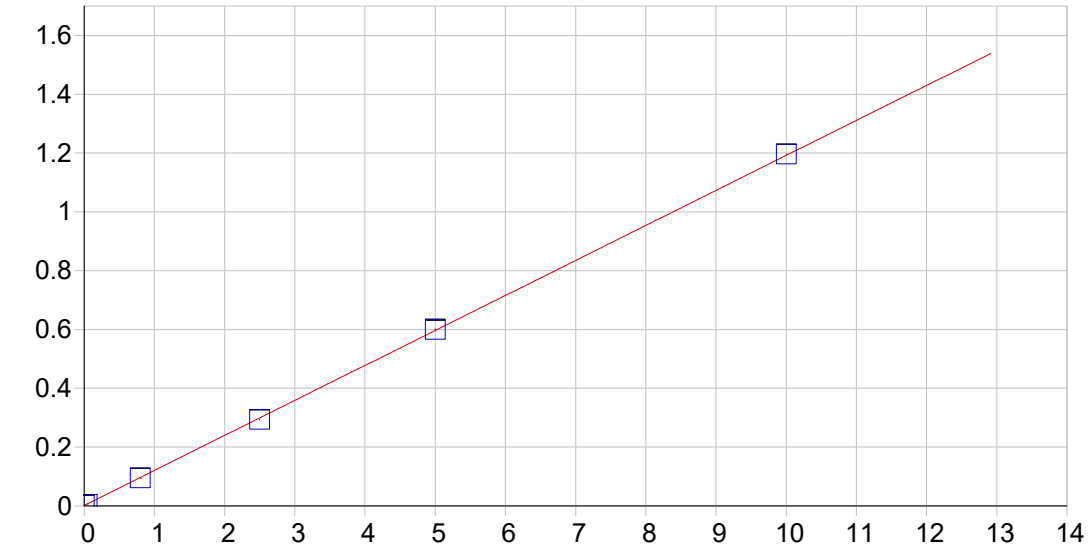
Si 251.611 {134}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.029895	Re-Slope:	1.000000
A1 (Gain):	1.074232	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999535	Status:	OK.
Std Error of Est:	0.003523		
Predicted MDL:	0.001743		
Predicted MQL:	0.005811		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.02985	.004	1
S1	.40000	.39522	-.005	-1.19	.45696	.002	1
S2	.80000	.87374	.074	9.22	.98239	.011	1
S3	2.5000	2.6273	.127	5.09	2.8956	.054	1
S4	5.0000	5.0173	.017	.346	5.5065	.032	1
S5	10.000	9.7864	-.214	-2.14	10.716	.207	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



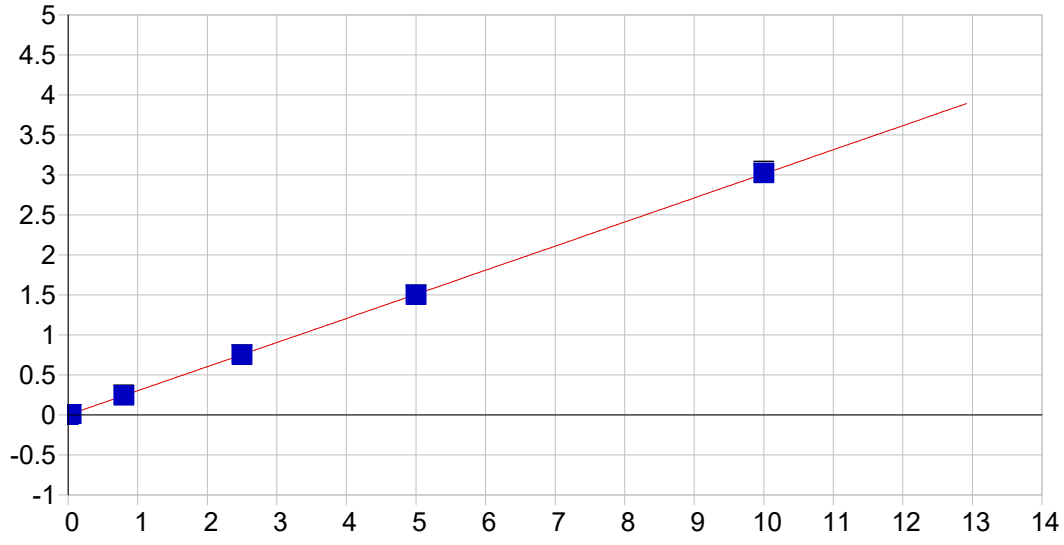
Sn 189.989 {478}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001645	Re-Slope:	1.000000
A1 (Gain):	0.119032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.001254		
Predicted MQL:	0.004181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00165	.000	1
S1	.04000	.03905	-.001	-2.39	.00629	.000	1
S2	.80000	.78454	-.015	-1.93	.09503	.000	1
S3	2.5000	2.4533	-.047	-1.87	.29367	.000	1
S4	5.0000	5.0241	.024	.482	.59967	.002	1
S5	10.000	10.039	.039	.390	1.1966	.001	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



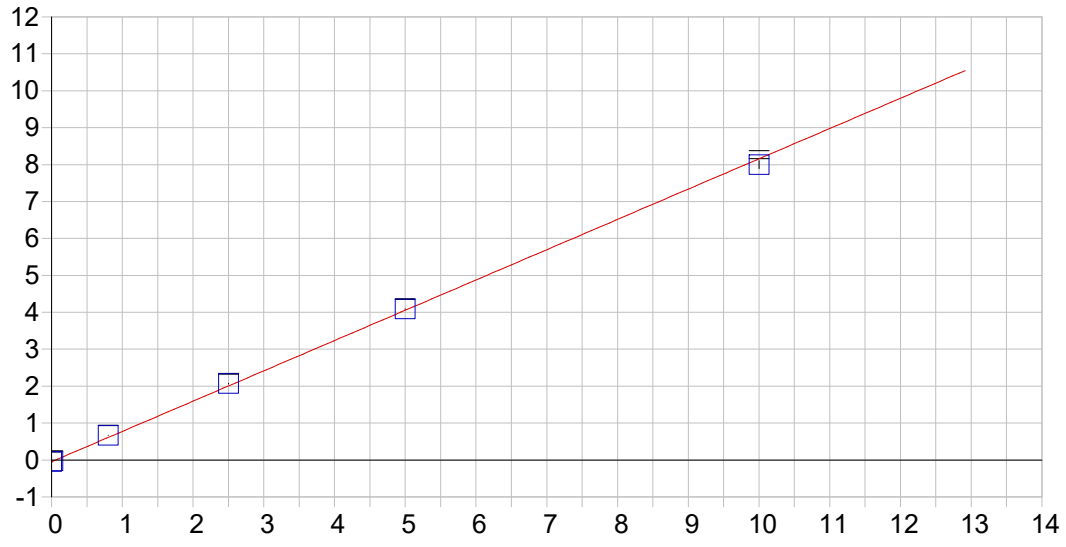
Ti 336.121 {100}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000977	Re-Slope:	1.000000
A1 (Gain):	0.301216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.004704		
Predicted MQL:	0.015679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00098	.002	1
S1	.04000	.03851	-.001	-3.73	.01256	.000	1
S2	.80000	.80822	.008	1.03	.24430	.002	1
S3	2.5000	2.4876	-.012	-.495	.74991	.004	1
S4	5.0000	4.9732	-.027	-.537	1.4982	.003	1
S5	10.000	10.033	.033	.325	3.0214	.024	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



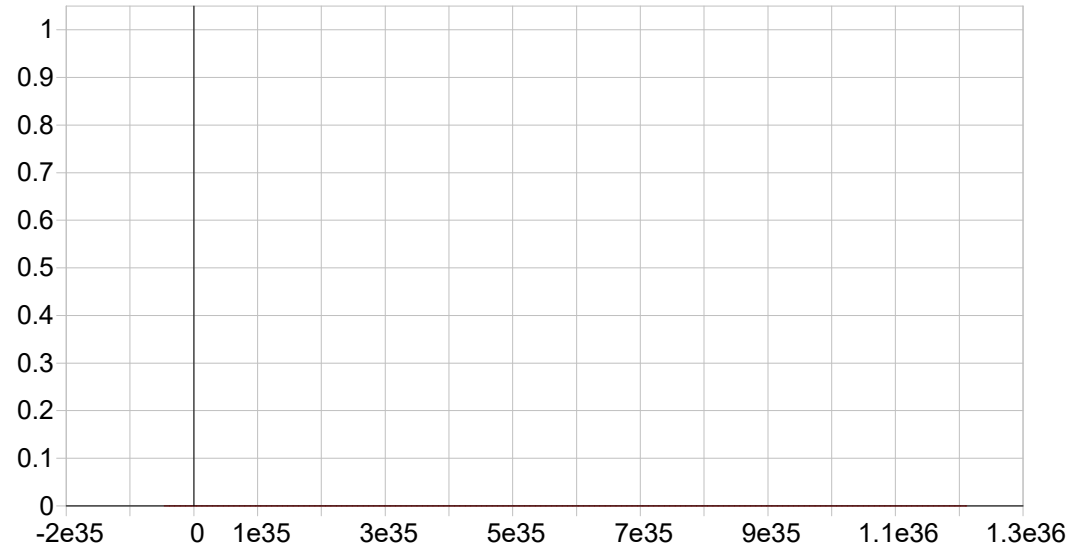
Li 670.784 { 50}

Date of Fit:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.046739	Re-Slope:	1.000000
A1 (Gain):	0.820326	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999612	Status:	OK.
Std Error of Est:	0.000536		
Predicted MDL:	0.007789		
Predicted MQL:	0.025964		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.04675	.003	1
S5	10.000	9.8081	-.192	-1.92	7.9991	.109	1
S4	5.0000	5.0388	.039	.776	4.0867	.008	1
S3	2.5000	2.5772	.077	3.09	2.0674	.010	1
S2	.80000	.86997	.070	8.75	.66692	.004	1
S1	.02000	.02589	.006	29.5	-.02550	.002	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

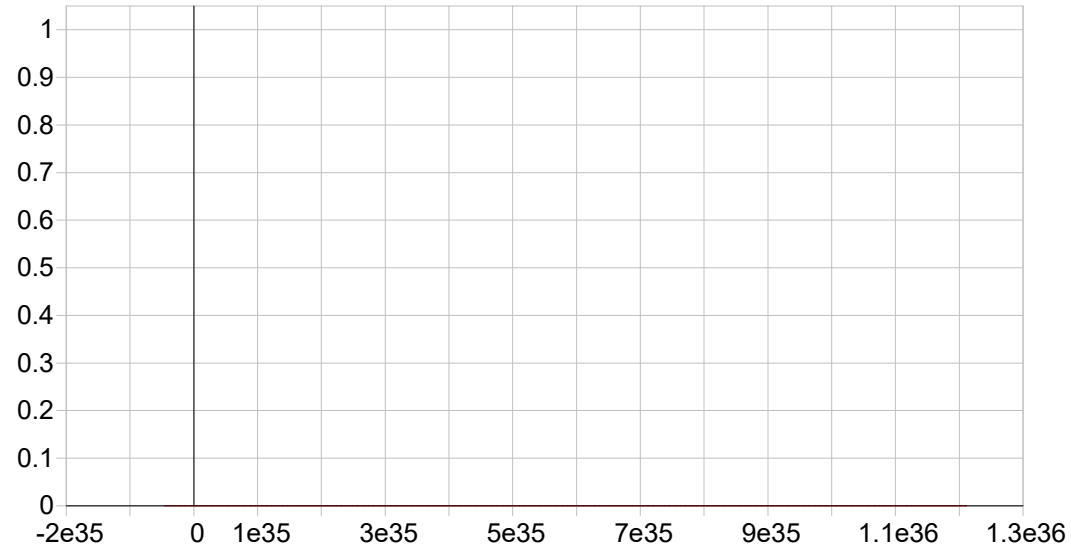


Y 224.306 {450}*

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}*

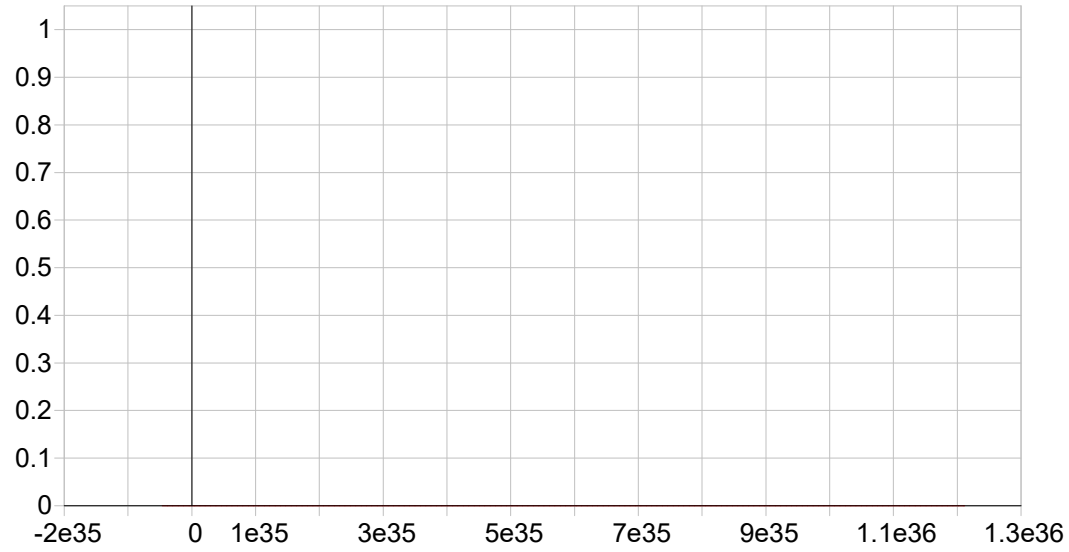
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

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



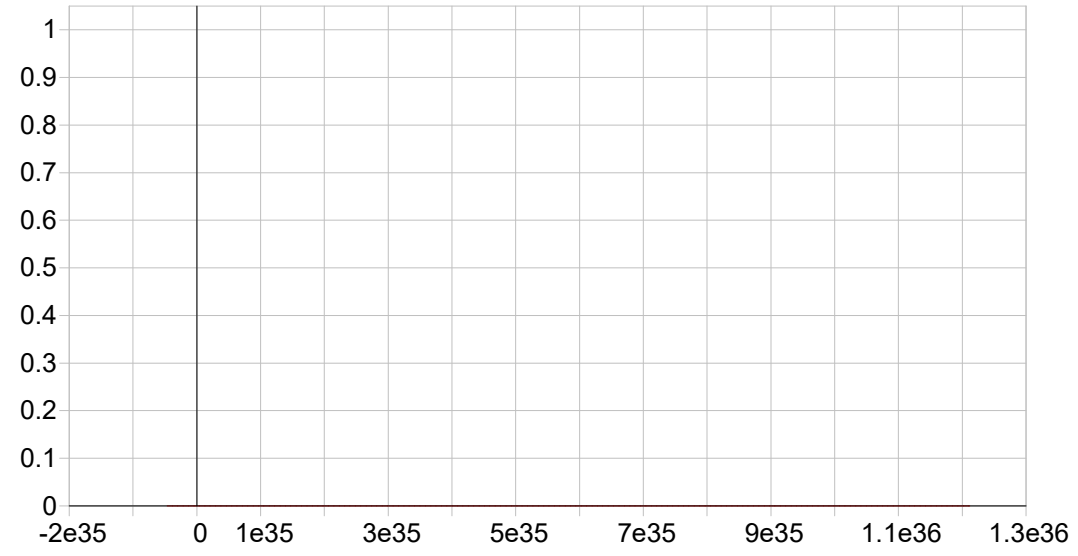
Y 371.030 { 91}*

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

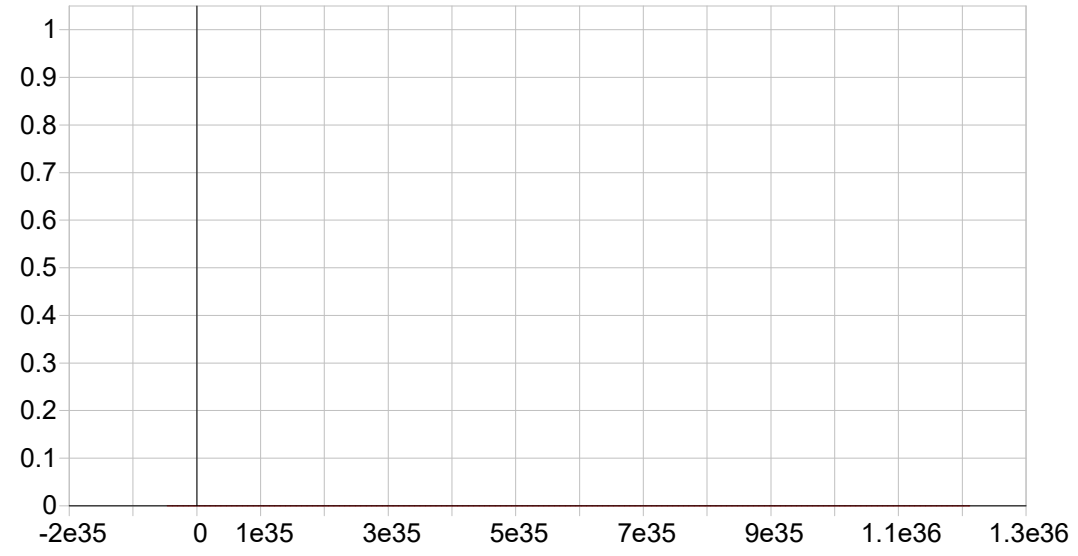
Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407



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



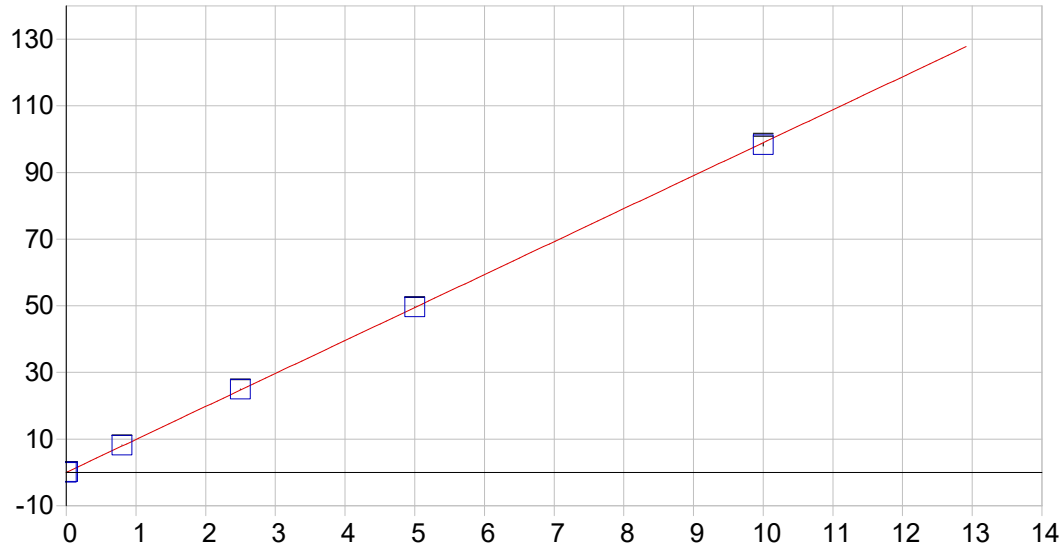
In 230.606 {446}*

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:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

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:	7/9/2025 13:05:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001167	Re-Slope:	1.000000
A1 (Gain):	9.894180	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.002050		
Predicted MDL:	0.000254		
Predicted MQL:	0.000848		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00115	.002	1
S1	.02000	.02050	.000	2.49	.20398	.002	1
S2	.80000	.82629	.026	3.29	8.1767	.037	1
S3	2.5000	2.5194	.019	.777	24.929	.096	1
S4	5.0000	5.0142	.014	.283	49.612	.072	1
S5	10.000	9.9396	-.060	-.604	98.345	.437	1

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S0 Acquired: 7/9/2025 9:39:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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**	**-.00078**	**.00012**	**-.00022**	**.00068**	**-.00361**	**.00977**	**.00436**
Stddev	.00002	.00006	.00037	.00027	.00044	.00023	.00389	.00101
%RSD	59.669	7.3914	304.15	124.51	64.618	6.2302	39.867	23.119
#1	-.00001	-.00080	-.00029	-.00052	.00115	-.00340	.01188	.00326
#2	-.00005	-.00071	.00025	-.00013	.00062	-.00385	.00527	.00457
#3	-.00003	-.00082	.00040	-.00000	.00027	-.00359	.01214	.00524

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	**.00037**	**.01508**	**.00075**	**.00012**	**.04017**	**.00352**	**.00015**	**-.00047**
Stddev	.00020	.00100	.00010	.00030	.00253	.00093	.00043	.00118
%RSD	53.968	6.6324	13.048	259.29	6.2929	26.493	285.38	250.14
#1	.00059	.01553	.00077	.00038	.03736	.00457	.00057	.00039
#2	.00023	.01577	.00065	-.00022	.04091	.00323	-.00029	.00001
#3	.00027	.01393	.00085	.00019	.04225	.00277	.00017	-.00182

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	**-.00021**	**.00034**	**-.05524**	**.00011**	**.00414**	**.38534**	**.00014**	**.00819**
Stddev	.00018	.00009	.00738	.00049	.00118	.00598	.00020	.00110
%RSD	87.849	26.042	13.357	457.62	28.379	1.5516	144.60	13.439
#1	-.00006	.00033	-.06296	.00054	.00497	.38743	.00027	.00813
#2	-.00015	.00026	-.05453	.00020	.00466	.38999	.00025	.00931
#3	-.00041	.00044	-.04825	-.00042	.00280	.37860	-.00009	.00711

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	**.00059**	**.00035**	**.02985**	**.00165**	**.00098**	**-.04675**	**.00115**
Stddev	.00027	.00004	.00353	.00005	.00152	.00270	.00235
%RSD	46.670	12.363	11.838	3.0417	155.87	5.7678	203.25
#1	.00031	.00030	.02582	.00163	.00198	-.04382	.00376
#2	.00085	.00038	.03242	.00160	.00173	-.04728	.00050
#3	.00060	.00037	.03131	.00170	-.00078	-.04914	-.00080

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S0 Acquired: 7/9/2025 9:39:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3554.2	35629.	2763.2	2256.1	5164.9
Stddev	8.4	107.	31.3	7.5	10.9
%RSD	.23755	.29977	1.1340	.33037	.21151
#1	3544.9	35699.	2774.8	2264.6	5153.6
#2	3556.3	35506.	2787.2	2250.7	5165.8
#3	3561.3	35683.	2727.8	2253.0	5175.4

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S1 Acquired: 7/9/2025 9:44:10 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.00054**	**.00338**	**.00271**	**.00110**	**.00748**	**.00301**	**.38453**	**.07068**
Stddev	.00014	.00025	.00006	.00039	.00032	.00192	.00167	.00035
%RSD	26.152	7.4300	2.0809	35.724	4.2252	63.905	.43388	.49847
#1	.00071	.00355	.00264	.00092	.00785	.00303	.38645	.07105
#2	.00047	.00309	.00273	.00155	.00731	.00492	.38366	.07035
#3	.00046	.00351	.00275	.00083	.00729	.00107	.38348	.07064

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	**.01987**	**.20399**	**.00349**	**.02667**	**.13911**	**.08563**	**.00892**	**.02691**
Stddev	.00037	.00319	.00011	.00026	.00440	.00191	.00048	.00016
%RSD	1.8447	1.5628	3.0979	.95776	3.1598	2.2285	5.4299	.58674
#1	.01963	.20749	.00339	.02638	.14240	.08716	.00892	.02689
#2	.02029	.20326	.00360	.02685	.14081	.08349	.00940	.02708
#3	.01969	.20124	.00349	.02678	.13411	.08623	.00843	.02676

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	**.02054**	**.00271**	**1.5475**	**.00461**	**.11184**	**14.616**	**.00116**	**.12842**
Stddev	.00027	.00005	.0110	.00170	.00123	.026	.00021	.00120
%RSD	1.3239	1.9303	.70930	36.932	1.0961	.17690	18.014	.93556
#1	.02024	.00276	1.5389	.00330	.11261	14.645	.00106	.12954
#2	.02061	.00272	1.5438	.00653	.11248	14.596	.00140	.12856
#3	.02077	.00266	1.5599	.00399	.11043	14.608	.00102	.12715

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	**.11790**	**.00097**	**.45696**	**.00629**	**.01256**	**-.02550**	**.20398**
Stddev	.00029	.00012	.00222	.00013	.00039	.00158	.00181
%RSD	.24229	12.049	.48640	2.1265	3.1374	6.2031	.88549
#1	.11764	.00091	.45889	.00645	.01247	-.02402	.20510
#2	.11786	.00110	.45453	.00620	.01300	-.02531	.20190
#3	.11820	.00090	.45747	.00623	.01223	-.02717	.20495

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S1 Acquired: 7/9/2025 9:44:10 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3560.0	35685.	2731.2	2260.5	5125.2
Stddev	17.0	145.	5.5	11.0	23.0
%RSD	.47770	.40502	.20242	.48782	.44822
#1	3579.5	35727.	2728.4	2263.0	5149.8
#2	3548.6	35524.	2727.6	2248.4	5104.3
#3	3551.8	35804.	2737.5	2270.0	5121.5

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S2 Acquired: 7/9/2025 9:48:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	.03116	.08586	.18571	.04585	.10935	.11612	6.2486	.45230	1.3648
Stddev	.00020	.00033	.00012	.00017	.00054	.00155	.0173	.00320	.0007
%RSD	.63749	.37989	.06691	.36895	.49720	1.3319	.27736	.70761	.05443
#1	.03112	.08574	.18570	.04575	.10897	.11605	6.2417	.45142	1.3656
#2	.03099	.08623	.18559	.04604	.10910	.11770	6.2358	.45585	1.3642
#3	.03138	.08561	.18584	.04575	.10997	.11461	6.2684	.44964	1.3645

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	.39556	.04971	.35690	.97087	.62685	.15904	.05019	.21321	.05041
Stddev	.00089	.00033	.00041	.00362	.00522	.00047	.00024	.00061	.00021
%RSD	.22493	.65914	.11580	.37316	.83228	.29634	.47536	.28451	.40785
#1	.39457	.05001	.35645	.96876	.62334	.15859	.04992	.21251	.05036
#2	.39581	.04977	.35727	.97506	.63285	.15953	.05033	.21348	.05023
#3	.39630	.04936	.35699	.96881	.62437	.15900	.05033	.21363	.05063

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	3.3685	.04635	1.1309	31.805	.03563	1.0142	.48318	.02664	.98239
Stddev	.0275	.00045	.0081	.166	.00015	.0101	.00070	.00017	.01109
%RSD	.81553	.97645	.71247	.52051	.42326	.99761	.14442	.64277	1.1287
#1	3.3594	.04668	1.1400	31.668	.03556	1.0102	.48253	.02649	.98379
#2	3.3994	.04584	1.1280	31.989	.03552	1.0257	.48308	.02682	.99271
#3	3.3467	.04654	1.1246	31.757	.03580	1.0067	.48392	.02660	.97066

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09503	.24430	.66692	8.1767
Stddev	.00018	.00215	.00372	.0373
%RSD	.19448	.88085	.55812	.45564
#1	.09515	.24363	.66306	8.1681
#2	.09482	.24257	.66722	8.1444
#3	.09512	.24671	.67049	8.2174

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S2 Acquired: 7/9/2025 9:48:38 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3519.0	35070.	2735.1	2220.2	4946.2
Stddev	9.0	20.	22.1	6.6	6.1
%RSD	.25532	.05770	.80639	.29711	.12297
#1	3529.4	35060.	2747.5	2213.7	4953.2
#2	3513.9	35057.	2709.6	2220.1	4942.5
#3	3513.7	35094.	2748.1	2226.9	4942.8

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S3 Acquired: 7/9/2025 9:52:54 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	.09919	.26354	.57355	.13858	.32700	.36367	19.106	1.3420	4.2611
Stddev	.00031	.00061	.00157	.00056	.00114	.00224	.073	.0228	.0049
%RSD	.31217	.23305	.27365	.40351	.34922	.61570	.38214	1.6982	.11543
#1	.09910	.26284	.57175	.13799	.32736	.36555	19.069	1.3564	4.2577
#2	.09893	.26382	.57466	.13910	.32572	.36426	19.190	1.3539	4.2590
#3	.09953	.26396	.57424	.13864	.32791	.36120	19.059	1.3157	4.2668

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	1.1787	.14826	1.1050	2.8359	1.8732	.48041	.15326	.72140	.15015
Stddev	.0053	.00024	.0013	.0524	.0278	.00190	.00143	.00107	.00048
%RSD	.45299	.16330	.11825	1.8490	1.4864	.39645	.93615	.14797	.32220
#1	1.1730	.14817	1.1037	2.8502	1.8880	.48150	.15167	.72049	.15063
#2	1.1836	.14808	1.1050	2.8797	1.8904	.48152	.15365	.72114	.15017
#3	1.1795	.14854	1.1063	2.7778	1.8410	.47821	.15446	.72258	.14966

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	10.274	.13980	3.4775	98.303	.11349	3.0695	1.4702	.08500	2.8956
Stddev	.167	.00154	.0163	1.806	.00048	.0489	.0025	.00029	.0536
%RSD	1.6240	1.1011	.46790	1.8371	.42607	1.5926	.17256	.34627	1.8525
#1	10.333	.14000	3.4670	99.039	.11296	3.0741	1.4673	.08487	2.9063
#2	10.404	.14122	3.4962	99.624	.11391	3.1159	1.4711	.08480	2.9431
#3	10.086	.13816	3.4691	96.245	.11360	3.0185	1.4722	.08534	2.8375

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29367	.74991	2.0674	24.929
Stddev	.00039	.00370	.0101	.096
%RSD	.13386	.49315	.48985	.38577
#1	.29347	.74755	2.0607	24.860
#2	.29341	.75417	2.0791	25.039
#3	.29412	.74801	2.0626	24.888

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S3 Acquired: 7/9/2025 9:52:54 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3453.8	34015.	2727.3	2144.8	4683.8
Stddev	6.2	212.	27.0	10.4	6.8
%RSD	.17910	.62308	.98978	.48389	.14493
#1	3448.2	34164.	2725.4	2149.4	4676.1
#2	3452.8	34109.	2701.3	2152.0	4686.6
#3	3460.4	33772.	2755.2	2132.9	4688.8

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S4 Acquired: 7/9/2025 9:57:10 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	.20483	.52669	1.1581	.27491	.64912	.71525	38.027	2.6074	8.6919
Stddev	.00074	.00234	.0054	.00089	.00096	.00249	.048	.0099	.0332
%RSD	.36081	.44385	.46465	.32256	.14716	.34794	.12614	.37903	.38247
#1	.20565	.52924	1.1642	.27572	.64951	.71381	37.990	2.6051	8.7301
#2	.20461	.52619	1.1559	.27504	.64803	.71381	38.009	2.6182	8.6755
#3	.20421	.52465	1.1542	.27396	.64981	.71812	38.081	2.5988	8.6699

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	2.3358	.29318	2.2225	5.2855	3.5429	.94848	.30177	1.3267	.29109
Stddev	.0084	.00103	.0047	.0271	.0160	.00099	.00067	.0035	.00053
%RSD	.35920	.35103	.21180	.51211	.45124	.10414	.22315	.26128	.18211
#1	2.3265	.29324	2.2275	5.2865	3.5369	.94788	.30215	1.3304	.29129
#2	2.3381	.29418	2.2181	5.3121	3.5610	.94794	.30217	1.3236	.29150
#3	2.3428	.29212	2.2221	5.2580	3.5308	.94962	.30099	1.3261	.29049

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	20.927	.27918	6.8186	205.58	.23488	6.0286	2.9197	.17326	5.5065
Stddev	.128	.00113	.0273	1.50	.00113	.0376	.0032	.00041	.0323
%RSD	.61024	.40597	.40047	.72943	.48244	.62424	.10992	.23879	.58610
#1	20.790	.27810	6.8153	204.93	.23615	6.0324	2.9194	.17370	5.4997
#2	21.043	.28036	6.8474	204.52	.23398	6.0642	2.9166	.17288	5.5416
#3	20.946	.27909	6.7931	207.30	.23451	5.9892	2.9230	.17318	5.4781

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.59967	1.4982	4.0867	49.612
Stddev	.00250	.0034	.0081	.072
%RSD	.41682	.22534	.19874	.14481
#1	.60252	1.4947	4.0941	49.621
#2	.59784	1.4985	4.0881	49.537
#3	.59865	1.5015	4.0780	49.679

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S4 Acquired: 7/9/2025 9:57:10 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3368.7	33066.	2660.8	2087.9	4439.6
Stddev	16.0	68.	8.3	3.9	14.4
%RSD	.47622	.20671	.31137	.18666	.32497
#1	3387.0	32988.	2656.8	2090.1	4456.3
#2	3356.9	33092.	2655.2	2090.3	4431.2
#3	3362.2	33117.	2670.3	2083.4	4431.4

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S5 Acquired: 7/9/2025 10:01:25 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	**.42016**	**1.0375**	**2.3187**	**.54977**	**1.2958**	**1.4305**	**75.682**	**5.1343**	**17.405**
Stddev	.00023	.0010	.0025	.00128	.0040	.0202	.271	.0892	.007
%RSD	.05411	.09129	.10614	.23367	.30817	1.4100	.35827	1.7374	.04151
#1	.41993	1.0367	2.3158	.54920	1.2960	1.4155	75.433	5.1229	17.397
#2	.42038	1.0385	2.3202	.54886	1.2917	1.4535	75.971	5.2287	17.409
#3	.42017	1.0373	2.3200	.55124	1.2997	1.4226	75.642	5.0514	17.410

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	**4.6169**	**.57151**	**4.4571**	**10.324**	**6.9746**	**1.8926**	**.59417**	**2.6591**	**.57314**
Stddev	.0502	.00154	.0025	.188	.1173	.0168	.00677	.0010	.00110
%RSD	1.0864	.26906	.05633	1.8237	1.6818	.88988	1.1400	.03662	.19114
#1	4.5816	.57118	4.4545	10.303	6.9746	1.8801	.58806	2.6580	.57394
#2	4.6743	.57318	4.4595	10.522	7.0918	1.9118	.60145	2.6599	.57359
#3	4.5948	.57016	4.4572	10.147	6.8572	1.8861	.59300	2.6594	.57189

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	**41.320**	**.56098**	**13.595**	**414.18**	**.48176**	**12.027**	**5.8394**	**.35631**	**10.716**
Stddev	.778	.00463	.075	1.79	.00052	.231	.0130	.00055	.207
%RSD	1.8836	.82552	.55007	.43176	.10714	1.9236	.22310	.15364	1.9326
#1	41.279	.55792	13.511	414.91	.48129	11.968	5.8324	.35685	10.667
#2	42.118	.56631	13.618	415.49	.48169	12.282	5.8314	.35575	10.944
#3	40.563	.55872	13.655	412.14	.48231	11.831	5.8544	.35632	10.538

Elem	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1966**	**3.0214**	**7.9991**	**98.345**
Stddev	.0009	.0244	.1092	.437
%RSD	.07744	.80770	1.3649	.44388
#1	1.1970	3.0028	7.9160	98.022
#2	1.1955	3.0490	8.1227	98.842
#3	1.1972	3.0125	7.9585	98.172

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: S5 Acquired: 7/9/2025 10:01:25 Type: Cal
Method: METHOD 6010D, 200.7 M(v29) Mode: IR Corr. Factor: 1.000000
User: Janvi 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	3280.2	32882.	2637.8	2053.6	4242.9
Stddev	5.7	206.	24.1	20.4	7.3
%RSD	.17289	.62629	.91187	.99229	.17096
#1	3286.0	32900.	2643.5	2060.5	4249.9
#2	3279.8	33079.	2611.4	2069.6	4235.4
#3	3274.7	32668.	2658.4	2030.7	4243.4

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICV01 Acquired: 7/9/2025 10:05:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.661117**	**3.683280**	**3.696402**	**3.760027**	**3.907823**	**7.587196**
Stddev	.004162	.005024	.008477	.005642	.004152	.029670
%RSD	.1136767	.1363933	.2293225	.1500605	.1062536	.3910473
#1	3.661396	3.680089	3.693307	3.759117	3.903618	7.594563
#2	3.656822	3.689071	3.689908	3.754894	3.911920	7.612487
#3	3.665132	3.680680	3.705991	3.766068	3.907929	7.554536

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.770838**	**.1942114**	**1.858317**	**19.07424**	**.7843218**	**1.913381**
Stddev	.032391	.0006300	.002854	.01774	.0027390	.000811
%RSD	.4168307	.3244105	.1535617	.0930237	.3492169	.0424109
#1	7.733900	.1943129	1.859272	19.05456	.7812065	1.914089
#2	7.794391	.1935367	1.855108	19.08902	.7854073	1.912496
#3	7.784224	.1947845	1.860570	19.07915	.7863518	1.913558

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.004485**	**3.730078**	**1.922493**	**19.06548**	**1.885468**	**1.003480**
Stddev	.006025	.017752	.013513	.05458	.001278	.003230
%RSD	.5997791	.4759109	.7028822	.2862767	.0677806	.3219281
#1	1.001191	3.742383	1.907732	19.12714	1.885536	1.005220
#2	1.000827	3.709728	1.925494	19.02335	1.884158	.999753
#3	1.011439	3.738124	1.934253	19.04595	1.886711	1.005468

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.26843**	**1.935446**	**1.948988**	**18.51794**	F **.0244190**	**3.813507**
Stddev	.11648	.011215	.009148	.23721	.0020582	.024153
%RSD	.6044945	.5794440	.4693747	1.280994	8.428792	.6333437
#1	19.29106	1.924694	1.938626	18.78556	.0220434	3.791776
#2	19.14230	1.934570	1.955948	18.43467	.0256674	3.809235
#3	19.37193	1.947073	1.952388	18.33359	.0255462	3.839511

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICV01 Acquired: 7/9/2025 10:05:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.850954	F .0454292	F 3.579115	3.818096	3.828550	F .0313999
Stddev	.004255	.0042509	.026702	.011795	.019401	.0019115
%RSD	.1104808	9.357293	.7460439	.3089323	.5067371	6.087487
#1	3.855434	.0502926	3.558405	3.819799	3.806825	.0310104
#2	3.846968	.0424220	3.569687	3.805541	3.834680	.0334762
#3	3.850460	.0435731	3.609251	3.828947	3.844145	.0297132

Elem	Sr4077
Units	ppm
Avg	F .0003426
Stddev	.0001516
%RSD	44.24443
#1	.0002026
#2	.0005036
#3	.0003215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3418.697	33396.95	2713.967	2105.896	4617.983
Stddev	12.229	130.19	11.969	11.503	16.039
%RSD	.3577168	.3898358	.4410259	.5462196	.3473183
#1	3404.771	33247.30	2704.132	2093.231	4599.825
#2	3423.636	33484.13	2727.294	2108.761	4630.220
#3	3427.684	33459.43	2710.475	2115.695	4623.905

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: LLICV01 Acquired: 7/9/2025 10:17:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207884**	**.0377085**	**.0112376**	**.0213376**	**.0495420**	**.0960810**
Stddev	.0015348	.0021712	.0017657	.0026507	.0023786	.0243914
%RSD	7.383124	5.757921	15.71233	12.42286	4.801186	25.38625
#1	.0200648	.0401763	.0106510	.0222758	.0472946	.0845264
#2	.0225513	.0360915	.0098398	.0233917	.0520331	.1241026
#3	.0197492	.0368578	.0132219	.0183454	.0492983	.0796141

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1007240**	**.0060651**	**.0053980**	**1.939193**	**.0102714**	**.0283923**
Stddev	.0008235	.0001045	.0001203	.033089	.0002631	.0002157
%RSD	.8175634	1.722502	2.228744	1.706323	2.561452	.7597966
#1	.0998831	.0059629	.0053018	1.972779	.0103224	.0286269
#2	.1015289	.0061717	.0053594	1.938176	.0099865	.0283474
#3	.1007599	.0060606	.0055329	1.906624	.0105052	.0282026

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227395**	**.1172630**	**.0229714**	**2.099758**	**.0378215**	**.0094637**
Stddev	.0004807	.0036293	.0011042	.032656	.0005789	.0011790
%RSD	2.113878	3.094967	4.806719	1.555214	1.530703	12.45764
#1	.0222728	.1146121	.0227288	2.082095	.0379348	.0104130
#2	.0227126	.1213994	.0241767	2.079737	.0383354	.0081440
#3	.0232330	.1157777	.0220088	2.137440	.0371943	.0098341

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.766955**	**.0376624**	**.0420510**	**1.763017**	**.0205014**	**.1035671**
Stddev	.007428	.0008131	.0004544	.014542	.0002264	.0023479
%RSD	.4204096	2.159002	1.080507	.8248588	1.104487	2.267047
#1	1.760589	.0385720	.0425702	1.757811	.0206953	.1049740
#2	1.765159	.0374092	.0417258	1.751795	.0202525	.1048707
#3	1.775117	.0370060	.0418570	1.779446	.0205562	.1008566

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: LLICV01 Acquired: 7/9/2025 10:17:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963992	.0198623	.3779282	.0372899	.0405779	F .0306628
Stddev	.0009059	.0018820	.0031135	.0010155	.0062222	.0110621
%RSD	.4612474	9.475268	.8238305	2.723300	15.33393	36.07671
#1	.1974150	.0177246	.3760428	.0382779	.0378382	.0222926
#2	.1956751	.0205926	.3762199	.0362489	.0361957	.0264918
#3	.1961075	.0212698	.3815219	.0373428	.0476998	.0432041

Elem	Sr4077
Units	ppm
Avg	.0204867
Stddev	.0002070
%RSD	1.010603
#1	.0203414
#2	.0207238
#3	.0203950

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3504.933	34593.00	2723.566	2171.362	5107.775
Stddev	17.377	73.51	18.312	6.048	16.961
%RSD	.4957827	.2124903	.6723558	.2785164	.3320553
#1	3516.867	34518.50	2736.800	2164.380	5119.860
#2	3484.997	34595.02	2731.230	2174.715	5088.386
#3	3512.936	34665.48	2702.667	2174.990	5115.078

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICB01 Acquired: 7/9/2025 10:22:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**-.001245**	**.0020987**	**.0001869**	**.0067579**	**.0024045**	**.0311219**	**.0002964**
Stddev	.003730	.0014635	.0014962	.0020741	.0021237	.0101878	.0007173
%RSD	299.6638	69.73551	800.7295	30.69168	88.32032	32.73505	242.0223
#1	-.003030	.0018071	-.000191	.0043737	.0000983	.0268936	-.000494
#2	.003043	.0008029	.001836	.0081469	.0042795	.0427429	.000477
#3	-.003747	.0036860	-.001084	.0077530	.0028357	.0237290	.000906

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001313**	**-.000008**	**-.044983**	**.0001949**	**.0001507**	**.0015649**	**.0253747**
Stddev	.0001383	.000029	.016581	.0007608	.0001638	.0003977	.0021717
%RSD	105.2811	347.9316	36.85976	390.3267	108.7188	25.41509	8.558405
#1	.0000735	-.000002	-.025874	.0001246	.0000577	.0011074	.0277175
#2	.0002892	.000017	-.053517	.0009884	.0003398	.0018283	.0234290
#3	.0000314	-.000039	-.055558	-.000528	.0000545	.0017590	.0249775

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074635**	**-.079647**	**.0003524**	**.0003440**	**.0023786**	**-.007988**	**.0042082**
Stddev	.0010942	.028717	.0001338	.0008649	.0140672	.012259	.0005568
%RSD	14.66059	36.05524	37.97165	251.4127	591.4176	153.4546	13.23180
#1	.0065567	-.080454	.0004025	.0006757	.0171108	.003279	.0048467
#2	.0086788	-.107953	.0002008	-.000638	.0009377	-.006202	.0038235
#3	.0071550	-.050536	.0004540	.000994	-.010913	-.021042	.0039543

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0302548**	**.0027964**	**.0023702**	**.0005143**	**.0008682**	**.0006598**	**-.004159**
Stddev	.0007357	.0030260	.0021814	.0000393	.0019111	.0019715	.000447
%RSD	2.431863	108.2098	92.03490	7.644552	220.1396	298.7828	10.74104
#1	.0310232	.0049257	.0048887	.0005595	.0024882	.0028751	-.004519
#2	.0295567	-.000667	.0010737	.0004955	-.001240	-.000902	-.004297
#3	.0301844	.004131	.0011481	.0004880	.001356	.000006	-.003659

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICB01 Acquired: 7/9/2025 10:22:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002769	.0076279	.0002798
Stddev	.002750	.0119835	.0001333
%RSD	99.31251	157.1015	47.64585
#1	-.002365	.0005914	.0003425
#2	-.005698	.0214645	.0003703
#3	-.000243	.0008277	.0001267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3466.126	34132.85	2686.322	2138.661	5073.254
Stddev	3.337	189.65	28.080	10.425	11.711
%RSD	.0962733	.5556121	1.045294	.4874487	.2308451
#1	3469.853	33914.28	2659.239	2129.492	5084.686
#2	3465.108	34253.73	2684.424	2136.490	5061.282
#3	3463.417	34230.55	2715.303	2150.000	5073.794

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CRI01 Acquired: 7/9/2025 10:26:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142021	.0384151	.0114804	.0227736	.0535644	.1144074
Stddev	.0022209	.0019382	.0019734	.0017595	.0017281	.0239213
%RSD	15.63757	5.045294	17.18910	7.725903	3.226197	20.90889
#1	.0166728	.0403822	.0103138	.0238547	.0521420	.1305769
#2	.0135619	.0383558	.0137588	.0237228	.0530637	.1257170
#3	.0123717	.0365073	.0103686	.0207434	.0554876	.0869283

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1039622	.0063258	.0055123	1.930063	.0106590	.0290724
Stddev	.0007042	.0002374	.0000533	.026043	.0002062	.0003063
%RSD	.6773592	3.753373	.9671517	1.349324	1.934426	1.053657
#1	.1031494	.0062294	.0055534	1.902619	.0106672	.0292592
#2	.1043872	.0065962	.0054520	1.933140	.0108609	.0287188
#3	.1043502	.0061516	.0055313	1.954431	.0104488	.0292390

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240682	.1186547	.0226073	2.060034	.0382423	.0115914
Stddev	.0022602	.0026035	.0005706	.099864	.0006280	.0019987
%RSD	9.390993	2.194184	2.523870	4.847708	1.642187	17.24333
#1	.0263450	.1210895	.0219903	2.064455	.0381838	.0094944
#2	.0218249	.1189644	.0231159	1.958033	.0376457	.0118049
#3	.0240348	.1159102	.0227159	2.157615	.0388976	.0134748

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.833872	.0320270	.0431394	1.709791	.0242425	.0999538
Stddev	.005419	.0060037	.0009859	.012156	.0029883	.0013079
%RSD	.2954935	18.74568	2.285354	.7109827	12.32678	1.308541
#1	1.840081	.0374262	.0424935	1.720669	.0210768	.1009371
#2	1.830093	.0255617	.0426504	1.696669	.0246364	.0984694
#3	1.831443	.0330930	.0442742	1.712035	.0270144	.1004549

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CRI01 Acquired: 7/9/2025 10:26:42 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2033312	.0179964	.3860551	.0391818	.0362253	F .0267715
Stddev	.0012010	.0041009	.0054993	.0008577	.0070995	.0049674
%RSD	.5906554	22.78743	1.424476	2.188917	19.59823	18.55465
#1	.2025032	.0135251	.3921441	.0392711	.0280293	.0318403
#2	.2027819	.0215823	.3814502	.0382830	.0404753	.0265621
#3	.2047087	.0188817	.3845708	.0399913	.0401712	.0219122

Elem	Sr4077
Units	ppm
Avg	.0210202
Stddev	.0002769
%RSD	1.317511
#1	.0213378
#2	.0208930
#3	.0208296

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3423.255	33900.08	2666.481	2113.560	5004.500
Stddev	1.904	286.65	18.821	15.099	3.470
%RSD	.0556105	.8455620	.7058272	.7143904	.0693432
#1	3424.720	34206.78	2649.597	2129.848	5005.538
#2	3421.104	33638.95	2686.773	2100.030	5007.333
#3	3423.942	33854.53	2663.073	2110.803	5000.629

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSA01 Acquired: 7/9/2025 10:31:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054599**	**.0166599**	**-.005640**	**-.011150**	**.0232560**	**245.4509**
Stddev	.0042754	.0034538	.003133	.002693	.0050309	.4104
%RSD	78.30494	20.73116	55.54575	24.15449	21.63282	.1672157
#1	.0007000	.0204307	-.003672	-.014192	.0174670	245.5829
#2	.0089740	.0136501	-.009253	-.009070	.0265698	244.9908
#3	.0067057	.0158987	-.003996	-.010187	.0257313	245.7791

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080238**	**.0015005**	**-.000426**	**241.5676**	**.0521826**	**.0270468**
Stddev	.0002683	.0001395	.000123	.8497	.0005946	.0004154
%RSD	3.344385	9.296894	28.94254	.3517342	1.139520	1.535703
#1	.0079976	.0013936	-.000348	241.8261	.0521895	.0274374
#2	.0083042	.0016583	-.000361	240.6187	.0515846	.0270926
#3	.0077695	.0014495	-.000568	242.2579	.0527738	.0266105

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004738**	**96.82066**	**.0033734**	**242.2692**	**.0134623**	**-.002413**
Stddev	.000761	.58571	.0021689	.3198	.0003227	.000991
%RSD	16.06145	.6049459	64.29509	.1320063	2.396886	41.05784
#1	-.005023	97.47394	.0011499	242.6054	.0138127	-.001552
#2	-.005315	96.34244	.0054834	241.9688	.0133966	-.003495
#3	-.003876	96.64560	.0034869	242.2334	.0131775	-.002190

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1192904**	**.0017496**	**.0109219**	**.0105834**	**.0167105**	**.0364229**
Stddev	.0116508	.0053289	.0003618	.0004910	.0016100	.0018453
%RSD	9.766745	304.5777	3.312599	4.638911	9.634668	5.066204
#1	.1081321	-.000164	.0106809	.0111216	.0153558	.0356849
#2	.1183611	-.002358	.0113379	.0104687	.0162852	.0385230
#3	.1313780	.007771	.0107469	.0101600	.0184904	.0350609

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSA01 Acquired: 7/9/2025 10:31:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008440	F .0304854	-.009988	.0085715	-.006759	F .0245939
Stddev	.000596	.0012627	.002174	.0013541	.003052	.0068042
%RSD	7.064355	4.142035	21.77198	15.79773	45.15170	27.66641
#1	-.007897	.0301369	-.008146	.0072673	-.006453	.0173001
#2	-.009078	.0294336	-.012387	.0099705	-.003872	.0257112
#3	-.008345	.0318858	-.009430	.0084767	-.009953	.0307703

Elem	Sr4077
Units	ppm
Avg	F .1049710
Stddev	.0008758
%RSD	.8343458
#1	.1055952
#2	.1039699
#3	.1053480

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.439	29702.84	2542.018	1930.619	4017.099
Stddev	2.514	109.65	19.491	9.328	4.541
%RSD	.0798683	.3691712	.7667495	.4831578	.1130404
#1	3148.245	29726.67	2525.578	1933.473	4012.202
#2	3144.621	29583.23	2563.549	1920.198	4017.925
#3	3149.450	29798.62	2536.928	1938.187	4021.170

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSAB01 Acquired: 7/9/2025 10:35:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0986193**	**.1008295**	**.0385619**	**.0401878**	**.6210472**	**244.9279**
Stddev	.0015609	.0043842	.0008536	.0059479	.0034731	.4378
%RSD	1.582731	4.348128	2.213599	14.80027	.5592351	.1787489
#1	.0975015	.1034676	.0389595	.0468461	.6248374	244.6288
#2	.1004026	.1032522	.0391441	.0354000	.6180171	245.4304
#3	.0979536	.0957686	.0375820	.0383174	.6202872	244.7246

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5285781**	**.5140792**	**.9844558**	**240.7704**	**.5545486**	**.5057381**
Stddev	.0028388	.0043165	.0079647	.5977	.0033543	.0015233
%RSD	.5370684	.8396566	.8090500	.2482476	.6048664	.3012024
#1	.5278993	.5104926	.9922764	240.1114	.5528870	.5073336
#2	.5261402	.5188699	.9847366	241.2774	.5523495	.5055816
#3	.5316948	.5128752	.9763544	240.9225	.5584094	.5042990

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4794237**	**98.19819**	**.4976462**	**242.8435**	**.9663593**	**.2085198**
Stddev	.0046937	.52573	.0021554	.6254	.0059458	.0002515
%RSD	.9790337	.5353777	.4331122	.2575173	.6152778	.1206115
#1	.4776695	97.73462	.4951743	242.3105	.9722178	.2087785
#2	.4847418	98.76942	.4986314	243.5319	.9665302	.2082762
#3	.4758597	98.09054	.4991329	242.6880	.9603299	.2085048

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1001519**	**.4889499**	**1.030500**	**.0094004**	F **.0258309**	**1.037506**
Stddev	.0229350	.0049207	.003954	.0027132	.0037024	.009206
%RSD	22.90018	1.006390	.3836855	28.86302	14.33332	.8873043
#1	.1014936	.4833878	1.030028	.0101835	.0216651	1.029737
#2	.1223866	.4907253	1.026803	.0116360	.0287458	1.047674
#3	.0765756	.4927365	1.034669	.0063817	.0270818	1.035108

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSAB01 Acquired: 7/9/2025 10:35:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009865	F .0387250	.9212299	1.042677	1.033026	F .0132480
Stddev	.000234	.0041970	.0072344	.005837	.006235	.0014228
%RSD	.0232153	10.83790	.7852953	.5597819	.6035312	10.73974
#1	1.009819	.0434204	.9129833	1.047197	1.031373	.0120223
#2	1.010118	.0353381	.9241997	1.044745	1.027785	.0129134
#3	1.009656	.0374166	.9265068	1.036087	1.039921	.0148083

Elem	Sr4077
Units	ppm
Avg	F .1040315
Stddev	.0002593
%RSD	.2492862
#1	.1043298
#2	.1038597
#3	.1039050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3109.315	29226.81	2473.079	1899.302	3962.540
Stddev	5.923	54.25	17.729	1.570	14.345
%RSD	.1904873	.1856060	.7168826	.0826423	.3620119
#1	3109.780	29230.39	2488.642	1900.610	3960.815
#2	3103.174	29279.18	2453.780	1897.562	3949.135
#3	3114.992	29170.87	2476.815	1899.736	3977.669

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSADLX20 Acquired: 7/9/2025 10:39:57 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**-.001927**	**-.001052**	**.0012057**	**.0045670**	**.0028223**	**12.77911**	**.0001675**
Stddev	.000617	.002082	.0021647	.0016588	.0030462	.09472	.0016800
%RSD	32.02802	197.8278	179.5434	36.32181	107.9335	.7412452	1003.224
#1	-.001476	.000857	-.000022	.0033085	-.000695	12.85177	.0013126
#2	-.002631	-.000743	-.000066	.0064468	.004554	12.81359	-.001761
#3	-.001676	-.003271	.003705	.0039458	.004608	12.67198	.000951

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001796**	**-.000236**	**12.66777**	**.0015271**	**.0059819**	**.0019901**	**5.412567**
Stddev	.0002074	.000030	.08630	.0004310	.0005185	.0005633	.016212
%RSD	115.5027	12.66825	.6812372	28.22398	8.667259	28.30338	.2995250
#1	.0000320	-.000216	12.71582	.0020082	.0063753	.0014390	5.405072
#2	.0004167	-.000222	12.71935	.0011762	.0061759	.0025648	5.401458
#3	.0000900	-.000270	12.56814	.0013969	.0053944	.0019665	5.431170

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012802**	**12.94484**	**-.000200**	**-.000314**	**-.006158**	**-.007971**	**.0010760**
Stddev	.0000284	.02433	.000119	.000401	.008843	.007377	.0001616
%RSD	2.214686	.1879147	59.48511	127.8336	143.5954	92.55180	15.02142
#1	.0012474	12.96974	-.000192	.000118	.001692	-.013751	.0011959
#2	.0012964	12.94363	-.000322	-.000386	-.004429	-.010499	.0008922
#3	.0012967	12.92114	-.000085	-.000674	-.015738	.000338	.0011401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029529**	**.0056838**	**.0020674**	**-.001641**	**.0012311**	**-.001322**	**.0023958**
Stddev	.0009961	.0038371	.0013119	.000586	.0052957	.001653	.0008029
%RSD	33.73135	67.50882	63.45471	35.71163	430.1566	125.0302	33.51405
#1	.0021621	.0043077	.0028123	-.001096	.0071949	.000261	.0033113
#2	.0040716	.0027246	.0028372	-.001566	-.000581	-.003036	.0018116
#3	.0026251	.0100192	.0005527	-.002261	-.002921	-.001191	.0020644

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSADLX20 Acquired: 7/9/2025 10:39:57 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.004404**	**.0057244**	**.0055370**
Stddev	.002208	.0044045	.0000904
%RSD	50.13819	76.94292	1.632856
#1	-.005942	.0020730	.0054748
#2	-.005397	.0044840	.0054955
#3	-.001874	.0106160	.0056407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3428.774**	**33034.13**	**2605.826**	**2087.984**	**4847.218**
Stddev	4.206	163.86	6.274	14.719	4.937
%RSD	.1226823	.4960297	.2407821	.7049575	.1018471
#1	3432.294	32991.16	2610.367	2077.328	4843.587
#2	3424.115	32896.04	2598.667	2081.845	4845.229
#3	3429.913	33215.20	2608.446	2104.779	4852.839

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSABDLX20 Acquired: 7/9/2025 10:44:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**.0047927**	**.0054558**	**.0007810**	**-.000756**	**.0294122**	**11.95593**	**.0277489**
Stddev	.0029989	.0014089	.0011784	.003796	.0007909	.07048	.0010053
%RSD	62.57242	25.82434	150.8869	502.2412	2.689095	.5894750	3.623040
#1	.0021817	.0065088	-.000476	-.004580	.0289720	11.87764	.0281166
#2	.0041283	.0060033	.001861	-.000698	.0303253	12.01431	.0285186
#3	.0080681	.0038553	.000958	.003011	.0289393	11.97583	.0266114

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0248416**	**.0442429**	**11.80406**	**.0263688**	**.0281552**	**.0258311**	**5.066721**
Stddev	.0004120	.0002458	.05185	.0002079	.0001428	.0013416	.059894
%RSD	1.658640	.5556582	.4392254	.7884059	.5072066	5.193669	1.182100
#1	.0244631	.0442436	11.74779	.0261291	.0282183	.0242884	5.013276
#2	.0247811	.0439966	11.81449	.0265004	.0282555	.0267249	5.055432
#3	.0252805	.0444883	11.84989	.0264769	.0279917	.0264798	5.131457

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0278914**	**12.24692**	**.0441474**	**.0090511**	**-.000406**	**.0152665**	**.0495648**
Stddev	.0014718	.13773	.0002921	.0015077	.018372	.0075022	.0004164
%RSD	5.276934	1.124594	.6615741	16.65776	4522.305	49.14176	.8400924
#1	.0267843	12.16799	.0442525	.0073418	-.001482	.0218732	.0494563
#2	.0273282	12.16681	.0438173	.0101918	.018480	.0071106	.0500247
#3	.0295616	12.40595	.0443723	.0096197	-.018216	.0168154	.0492134

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002942**	**.0033719**	**.0476502**	**.0473602**	**.0014658**	**.0403665**	**.0491396**
Stddev	.001489	.0010369	.0009687	.0003120	.0070977	.0018941	.0013671
%RSD	50.60191	30.75063	2.033007	.6587000	484.2384	4.692272	2.782171
#1	-.004597	.0032182	.0467517	.0476122	-.006001	.0399521	.0491355
#2	-.001713	.0044771	.0486765	.0470113	.008126	.0387139	.0505087
#3	-.002516	.0024205	.0475225	.0474572	.002272	.0424335	.0477745

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: ICSABDLX20 Acquired: 7/9/2025 10:44:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0437210	-.001514	.0050979
Stddev	.0025281	.003053	.0002284
%RSD	5.782447	201.6870	4.480397
#1	.0435993	-.000710	.0049942
#2	.0412558	.001057	.0049397
#3	.0463077	-.004888	.0053597

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3420.077	33545.37	2670.376	2106.023	4849.224
Stddev	12.239	47.79	22.289	11.973	16.627
%RSD	.3578714	.1424722	.8346687	.5685037	.3428750
#1	3432.938	33498.13	2692.239	2093.338	4865.309
#2	3408.572	33544.28	2671.203	2107.604	4832.104
#3	3418.721	33593.70	2647.685	2117.127	4850.261

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV01 Acquired: 7/9/2025 10:48:44 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.992276**	**5.098130**	**5.035488**	**5.082507**	**5.066875**	**10.25188**	**10.70072**
Stddev	.016902	.010034	.015799	.010903	.007606	.02250	.01950
%RSD	.3385592	.1968166	.3137566	.2145105	.1501084	.2194853	.1822514
#1	4.978855	5.086582	5.020133	5.075489	5.064182	10.27780	10.70523
#2	4.986716	5.103091	5.034634	5.076965	5.060983	10.24046	10.71757
#3	5.011258	5.104718	5.051697	5.095067	5.075462	10.23738	10.67936

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2593458**	**2.515740**	**25.40773**	**1.027164**	**2.476944**	**1.293129**	**5.013823**
Stddev	.0012220	.004806	.13955	.003826	.007009	.006679	.027429
%RSD	.4711842	.1910332	.5492511	.3724474	.2829610	.5164820	.5470590
#1	.2605401	2.511099	25.56844	1.031401	2.469073	1.296616	5.041444
#2	.2580979	2.515424	25.33766	1.026128	2.479249	1.285428	4.986591
#3	.2593994	2.520695	25.31710	1.023964	2.482510	1.297341	5.013433

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.619839**	**24.67952**	**2.467577**	**1.258885**	**26.53214**	**2.627522**	**2.631170**
Stddev	.009216	.16604	.004798	.000937	.01949	.010897	.010385
%RSD	.3517623	.6727789	.1944308	.0744111	.0734500	.4147336	.3947039
#1	2.612601	24.86283	2.462880	1.259967	26.55438	2.618262	2.619239
#2	2.630213	24.53921	2.467382	1.258347	26.51803	2.639530	2.636089
#3	2.616701	24.63652	2.472469	1.258341	26.52402	2.624774	2.638182

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.83155**	**5.096281**	**5.269900**	**5.140093**	**4.977891**	**5.199053**	**5.065958**
Stddev	.18012	.010035	.031039	.017226	.012453	.022822	.002667
%RSD	.6972966	.1968995	.5889792	.3351305	.2501609	.4389664	.0526512
#1	25.82702	5.101994	5.295974	5.122775	4.966056	5.215257	5.062982
#2	26.01389	5.084694	5.235567	5.140277	4.976735	5.172953	5.066757
#3	25.65373	5.102154	5.278158	5.157226	4.990881	5.208949	5.068134

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV01 Acquired: 7/9/2025 10:48:44 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.242764**	**5.036789**	**5.288418**
Stddev	.023464	.009495	.008973
%RSD	.4475583	.1885082	.1696813
#1	5.249538	5.047002	5.295686
#2	5.262097	5.035136	5.291181
#3	5.216658	5.028230	5.278389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3282.439**	**31779.85**	**2519.152**	**1998.874**	**4374.613**
Stddev	15.816	117.22	4.372	12.069	24.324
%RSD	.4818271	.3688455	.1735488	.6038093	.5560293
#1	3299.900	31878.17	2515.500	2012.320	4400.585
#2	3269.075	31650.13	2523.996	1988.977	4352.367
#3	3278.341	31811.25	2517.959	1995.327	4370.887

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB01 Acquired: 7/9/2025 10:57:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**.0016790**	**-.001254**	**-.000802**	**.0030205**	**-.000130**	**.0021405**	**.0024010**
Stddev	.0006760	.001110	.000940	.0075838	.002066	.0287497	.0008268
%RSD	40.26262	88.55351	117.1695	251.0816	1591.776	1343.148	34.43679
#1	.0014399	-.002273	-.000657	.0105750	.000988	-.026789	.0022718
#2	.0011550	-.001417	-.001807	.0030785	.001136	.002504	.0032848
#3	.0024420	-.000071	.000056	-.004592	-.002514	.030706	.0016464

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000091**	**-.000058**	**-.082393**	**.0004647**	**-.000141**	**.0012215**	**.0001466**
Stddev	.000034	.000040	.022047	.0006104	.000572	.0008406	.0037151
%RSD	37.76718	68.11514	26.75825	131.3446	405.2093	68.82036	2534.110
#1	-.000114	-.000104	-.106807	.0005086	-.000722	.0003844	.0043153
#2	-.000051	-.000033	-.063939	.0010520	.000421	.0012144	-.001061
#3	-.000106	-.000038	-.076433	-.000166	-.000122	.0020657	-.002814

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015684**	**-.061753**	**.0001496**	**-.000735**	**-.005683**	**-.000499**	**.0002667**
Stddev	.0011757	.031295	.0005064	.000475	.003278	.001225	.0004741
%RSD	74.95896	50.67804	338.5656	64.63823	57.68948	245.4465	177.7353
#1	.0002518	-.028403	-.000010	-.000937	-.008911	-.000891	.0002495
#2	.0019400	-.066377	-.000258	-.000192	-.005782	.000874	.0007492
#3	.0025133	-.090479	.000716	-.001077	-.002356	-.001480	-.000198

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010642**	**.0020705**	**.0019810**	**-.000066**	**-.000650**	**-.003813**	**-.000017**
Stddev	.0001132	.0022335	.0008540	.000828	.004563	.001078	.001055
%RSD	10.64066	107.8728	43.11245	1250.309	701.5005	28.26281	6150.264
#1	.0010622	.0046246	.0009968	-.000509	-.003796	-.003157	.000427
#2	.0011784	.0011026	.0025272	.000890	.004582	-.005057	-.001222
#3	.0009519	.0004842	.0024189	-.000579	-.002737	-.003224	.000743

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB01 Acquired: 7/9/2025 10:57:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006744	.0106232	.0001952
Stddev	.008499	.0052324	.0002632
%RSD	126.0208	49.25448	134.8428
#1	.002916	.0048107	.0004469
#2	-.010078	.0121015	-.000078
#3	-.013071	.0149575	.000217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3437.555	33567.19	2598.024	2094.646	5090.960
Stddev	6.379	68.47	23.472	10.255	19.506
%RSD	.1855695	.2039822	.9034648	.4895746	.3831450
#1	3443.961	33592.95	2615.718	2102.291	5104.838
#2	3437.501	33489.57	2606.958	2082.992	5099.384
#3	3431.203	33619.05	2571.397	2098.654	5068.658

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-01 Acquired: 7/9/2025 11:02:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1145396**	**-.012740**	**1.814207**	**.0530036**	**.0172840**	**139.3261**
Stddev	.0069398	.004317	.001334	.0014245	.0008054	.3691
%RSD	6.058851	33.88265	.0735408	2.687646	4.659942	.2649326
#1	.1216898	-.009601	1.812976	.0537706	.0170547	139.1992
#2	.1078314	-.017662	1.814020	.0538802	.0166180	139.7419
#3	.1140975	-.010956	1.815624	.0513598	.0181792	139.0371

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.333148**	**.0132598**	**.0032041**	**33.73924**	**.1801930**	**.1385046**
Stddev	.003053	.0001074	.0000421	.10560	.0006568	.0003638
%RSD	.2289912	.8096811	1.314203	.3129978	.3644718	.2626670
#1	1.331244	.0131542	.0032482	33.70135	.1794671	.1389119
#2	1.336669	.0133688	.0031997	33.85856	.1807460	.1382119
#3	1.331532	.0132564	.0031643	33.65780	.1803660	.1383898

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.203134**	**240.2032**	**5.960093**	**22.12050**	**.1997925**	**-.005477**
Stddev	.019378	1.7257	.019828	.01435	.0006166	.001421
%RSD	1.610600	.7184325	.3326737	.0648907	.3085949	25.94607
#1	1.182211	240.1644	5.937955	22.11937	.1991876	-.006976
#2	1.220463	241.9480	5.976217	22.13539	.2004201	-.004148
#3	1.206729	238.4973	5.966106	22.10675	.1997698	-.005308

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8985008**	**.3476265**	**1.196643**	**9.923057**	F **18.19115**	**.1054573**
Stddev	.0095393	.0050638	.003355	.091120	.01675	.0020823
%RSD	1.061695	1.456693	.2803753	.9182649	.0920558	1.974527
#1	.8892212	.3500234	1.196935	9.900699	18.17656	.1078576
#2	.9082802	.3510470	1.199843	10.02328	18.20944	.1043789
#3	.8980010	.3418092	1.193152	9.84520	18.18746	.1041354

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-01 Acquired: 7/9/2025 11:02:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018087**	**1.047461**	F **23.75074**	**.2065049**	**3.815637**	**.1635742**
Stddev	.0005212	.003710	.36447	.0004735	.006174	.0055600
%RSD	28.81870	.3541632	1.534547	.2293148	.1618126	3.399038
#1	.0018131	1.051745	23.35117	.2060617	3.813758	.1585942
#2	.0023277	1.045304	24.06494	.2070038	3.822532	.1625554
#3	.0012852	1.045335	23.83611	.2064492	3.810620	.1695732

Elem	Sr4077
Units	ppm
Avg	**.3011059**
Stddev	.0008664
%RSD	.2877239
#1	.3008201
#2	.3020790
#3	.3004185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4749.996**	**45564.43**	**3760.582**	**2884.883**	**4465.717**
Stddev	6.328	402.67	25.593	27.130	5.387
%RSD	.1332225	.8837430	.6805557	.9404153	.1206247
#1	4756.435	45136.26	3779.056	2854.636	4471.185
#2	4749.767	45621.52	3731.369	2892.946	4460.415
#3	4743.785	45935.52	3771.320	2907.068	4465.553

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-02 Acquired: 7/9/2025 11:06:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1175003**	**.0038586**	**2.016991**	**.0315439**	**.0089508**	**102.9638**
Stddev	.0015698	.0031381	.005659	.0023897	.0017931	.1687
%RSD	1.335952	81.32812	.2805912	7.575781	20.03324	.1638646
#1	.1165328	.0054672	2.020028	.0327520	.0070379	102.7881
#2	.1193115	.0002423	2.020484	.0330884	.0092209	103.1246
#3	.1166566	.0058662	2.010461	.0287914	.0105936	102.9786

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.573420**	**.0127801**	**.0040108**	**30.11456**	**.1322777**	**.1341860**
Stddev	.005537	.0000991	.0001255	.05340	.0011053	.0003915
%RSD	.3519394	.7750971	3.129873	.1773197	.8355849	.2917653
#1	1.570691	.0127709	.0041294	30.08964	.1313184	.1346352
#2	1.569777	.0128834	.0040238	30.07817	.1334864	.1339176
#3	1.579792	.0126860	.0038794	30.17586	.1320282	.1340052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2629199**	**143.1129**	**7.868459**	**13.84610**	**.1848441**	**-.000663**
Stddev	.0017102	1.1632	.021921	.01888	.0011317	.000862
%RSD	.6504705	.8127939	.2785951	.1363367	.6122553	130.0955
#1	.2611329	143.0606	7.861257	13.86340	.1858485	.000070
#2	.2645414	141.9768	7.851045	13.84894	.1836179	-.001613
#3	.2630853	144.3014	7.893076	13.82597	.1850659	-.000445

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.015200**	**.2093640**	**.6489535**	**10.69820**	F **36.07074**	**.0641566**
Stddev	.005233	.0065821	.0039461	.03350	.02117	.0021763
%RSD	.5155113	3.143874	.6080670	.3131139	.0586844	3.392232
#1	1.009160	.2095503	.6453029	10.66548	36.08461	.0631310
#2	1.018390	.2026907	.6531402	10.69668	36.04637	.0626827
#3	1.018051	.2158510	.6484175	10.73242	36.08124	.0666563

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-02 Acquired: 7/9/2025 11:06:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008538**	**2.230049**	F **18.40649**	**.2073219**	**2.133012**	**.1004566**
Stddev	.0002939	.012217	.13632	.0006998	.007737	.0060072
%RSD	34.41878	.5478445	.7406126	.3375289	.3627167	5.979927
#1	.0009585	2.240436	18.26035	.2066164	2.133656	.0941215
#2	.0005219	2.233122	18.53022	.2073335	2.124973	.1011774
#3	.0010809	2.216588	18.42889	.2080158	2.140406	.1060710

Elem	Sr4077
Units	ppm
Avg	**.2850147**
Stddev	.0011613
%RSD	.4074570
#1	.2845975
#2	.2841196
#3	.2863269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6255.371**	**60153.29**	**5001.756**	**3813.893**	**4423.781**
Stddev	20.557	108.72	12.451	3.273	14.529
%RSD	.3286328	.1807408	.2489314	.0858186	.3284378
#1	6241.756	60030.87	5015.996	3816.087	4413.091
#2	6245.340	60238.61	4996.348	3810.131	4417.929
#3	6279.019	60190.38	4992.923	3815.461	4440.324

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03 Acquired: 7/9/2025 11:11:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1471406**	**-.032102**	**.2877480**	**.0855396**	**.0233488**	**230.9598**
Stddev	.0046038	.002912	.0027456	.0066609	.0018721	.7074
%RSD	3.128874	9.072144	.9541775	7.786905	8.017741	.3062667
#1	.1523504	-.033399	.2909017	.0931658	.0218621	231.5319
#2	.1436197	-.034139	.2864527	.0808613	.0254511	231.1786
#3	.1454517	-.028766	.2858897	.0825917	.0227331	230.1689

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9173856**	**.0180180**	**-.000594**	**24.19836**	**.3162212**	**.1438557**
Stddev	.0028053	.0002095	.000155	.12238	.0026544	.0004814
%RSD	.3057892	1.162508	26.03529	.5057257	.8394110	.3346671
#1	.9189709	.0177800	-.000772	24.29158	.3132234	.1433002
#2	.9190392	.0180998	-.000506	24.24372	.3171672	.1441151
#3	.9141466	.0181742	-.000503	24.05978	.3182730	.1441519

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1448368**	**358.2885**	**3.442519**	**31.08788**	**.2399170**	**-.011309**
Stddev	.0016179	2.8302	.017838	.07086	.0002359	.001711
%RSD	1.117030	.7899138	.5181604	.2279422	.0983278	15.13384
#1	.1467027	361.3237	3.456340	31.16285	.2401098	-.009402
#2	.1438254	357.8200	3.448835	31.02200	.2399872	-.012712
#3	.1439822	355.7218	3.422383	31.07879	.2396540	-.011812

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.523975**	**.5918504**	**.5554637**	**16.12947**	**13.09515**	**.1494802**
Stddev	.015971	.0057196	.0056143	.29080	.01591	.0023551
%RSD	.6327531	.9663897	1.010738	1.802900	.1215116	1.575506
#1	2.530589	.5876240	.5494942	15.79501	13.11347	.1521595
#2	2.505759	.5895685	.5562590	16.32257	13.08475	.1485436
#3	2.535575	.5983586	.5606380	16.27082	13.08724	.1477375

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03 Acquired: 7/9/2025 11:11:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036074	.6116855	F 30.60821	.0157193	6.129853	.1690236
Stddev	.0006448	.0036226	.20023	.0018703	.018933	.0040097
%RSD	17.87506	.5922380	.6541594	11.89807	.3088588	2.372265
#1	.0034085	.6156872	30.83543	.0137769	6.142305	.1728781
#2	.0043282	.6107396	30.53161	.0175080	6.139189	.1648749
#3	.0030854	.6086296	30.45760	.0158732	6.108066	.1693177

Elem	Sr4077
Units	ppm
Avg	.1896346
Stddev	.0006119
%RSD	.3226505
#1	.1894387
#2	.1903204
#3	.1891446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4120.228	38790.42	3149.799	2521.158	4425.209
Stddev	7.164	258.45	21.367	16.312	7.860
%RSD	.1738852	.6662828	.6783612	.6469864	.1776237
#1	4115.707	39079.93	3131.706	2538.358	4416.158
#2	4128.488	38582.93	3144.318	2505.911	4430.315
#3	4116.488	38708.39	3173.372	2519.204	4429.154

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03DUP Acquired: 7/9/2025 11:15:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1503429**	**-.036544**	**.2912667**	**.0818897**	**.0234041**	**232.7620**
Stddev	.0008500	.003906	.0036354	.0018929	.0022880	.4790
%RSD	.5654035	10.68789	1.248130	2.311528	9.776230	.2057844
#1	.1511307	-.034567	.2870846	.0798981	.0224351	233.3138
#2	.1504560	-.034022	.2936711	.0836654	.0217601	232.4537
#3	.1494419	-.041043	.2930446	.0821056	.0260172	232.5185

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8909804**	**.0183020**	**-.001147**	**24.23886**	**.3172368**	**.1399488**
Stddev	.0019446	.0007696	.000582	.09034	.0025092	.0005458
%RSD	.2182509	4.205147	50.70839	.3726873	.7909457	.3899810
#1	.8920370	.0175987	-.000551	24.33529	.3198362	.1393447
#2	.8887363	.0191242	-.001714	24.22509	.3148289	.1400953
#3	.8921680	.0181832	-.001176	24.15620	.3170453	.1404063

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1514421**	**371.0572**	**3.064423**	**31.14558**	**.2333159**	**-.008953**
Stddev	.0060844	13.6240	.016063	.03575	.0008208	.002337
%RSD	4.017646	3.671668	.5241641	.1147961	.3518011	26.10892
#1	.1469170	358.9013	3.070948	31.15194	.2326741	-.011253
#2	.1583590	385.7832	3.046124	31.10707	.2342408	-.006580
#3	.1490504	368.4870	3.076195	31.17773	.2330328	-.009024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.515333**	**.5986919**	**.5597903**	**16.59799**	**12.75172**	**.1494198**
Stddev	.077724	.0027427	.0023602	.75653	.05252	.0059868
%RSD	3.090008	.4581211	.4216194	4.557970	.4118278	4.006700
#1	2.437487	.6008161	.5623562	15.77634	12.70777	.1457473
#2	2.592934	.5955955	.5593027	17.26574	12.73752	.1563281
#3	2.515578	.5996640	.5577120	16.75189	12.80988	.1461839

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03DUP Acquired: 7/9/2025 11:15:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042501	.5859993	F 32.25475	.0141811	6.249748	.1667932
Stddev	.0008675	.0028682	1.03665	.0015296	.024748	.0118170
%RSD	20.41172	.4894507	3.213960	10.78594	.3959782	7.084789
#1	.0051859	.5862828	31.31462	.0148292	6.265759	.1737996
#2	.0040917	.5829998	33.36651	.0124342	6.221244	.1531499
#3	.0034727	.5887151	32.08313	.0152799	6.262240	.1734303

Elem	Sr4077
Units	ppm
Avg	.1882178
Stddev	.0002779
%RSD	.1476718
#1	.1884371
#2	.1879053
#3	.1883112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3965.458	36834.98	2931.632	2380.202	4364.582
Stddev	10.597	315.52	113.168	21.095	13.802
%RSD	.2672369	.8565774	3.860233	.8862498	.3162192
#1	3956.202	37092.35	3031.769	2384.306	4366.335
#2	3977.018	36482.97	2808.856	2357.357	4377.423
#3	3963.155	36929.62	2954.270	2398.943	4349.988

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03LX5 Acquired: 7/9/2025 11:20:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0332767**	**-.008574**	**.0626513**	**.0249616**	**.0043941**	**56.55456**	**.2266283**
Stddev	.0015906	.000176	.0004460	.0019929	.0017804	.17409	.0005599
%RSD	4.779997	2.048740	.7119621	7.983697	40.51829	.3078222	.2470367
#1	.0326371	-.008648	.0626877	.0256320	.0023886	56.35448	.2271856
#2	.0321055	-.008700	.0621881	.0265329	.0050054	56.67142	.2266335
#3	.0350876	-.008373	.0630780	.0227200	.0057883	56.63778	.2260659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043439**	**-.001057**	**5.935548**	**.0733776**	**.0296711**	**.0377415**	**95.17360**
Stddev	.0001083	.000140	.047148	.0014401	.0001800	.0009734	2.35363
%RSD	2.492196	13.28713	.7943246	1.962640	.6065457	2.579093	2.472987
#1	.0043235	-.000901	5.915558	.0750151	.0298786	.0369070	92.83773
#2	.0044609	-.001172	5.989397	.0723079	.0295766	.0388108	97.54460
#3	.0042473	-.001099	5.901688	.0728099	.0295581	.0375066	95.13845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8566242**	**7.697321**	**.0479851**	**-.001117**	**.5641064**	**.1360695**	**.1369889**
Stddev	.0086065	.034103	.0004979	.000842	.0085066	.0015650	.0003476
%RSD	1.004695	.4430552	1.037579	75.36437	1.507978	1.150131	.2537685
#1	.8492634	7.665793	.0475716	-.002077	.5675877	.1371304	.1367561
#2	.8660870	7.692651	.0485377	-.000770	.5703202	.1342721	.1373885
#3	.8545223	7.733519	.0478459	-.000504	.5544113	.1368058	.1368220

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.941092**	**2.558264**	**.0424273**	**.0006004**	**.1162259**	**7.591138**	**.0042537**
Stddev	.030228	.002961	.0014575	.0005102	.0041225	.107576	.0006866
%RSD	1.027795	.1157437	3.435263	84.98898	3.546948	1.417127	16.14161
#1	2.908811	2.555520	.0413647	.0011484	.1115566	7.493642	.0047623
#2	2.968731	2.557870	.0440888	.0005137	.1177584	7.706546	.0045262
#3	2.945734	2.561402	.0418285	.0001390	.1193625	7.573226	.0034727

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03LX5 Acquired: 7/9/2025 11:20:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.484049**	**.0531864**	**.0464337**
Stddev	.006632	.0099493	.0005928
%RSD	.4468955	18.70648	1.276669
#1	1.477138	.0459383	.0458492
#2	1.490361	.0645298	.0470345
#3	1.484649	.0490911	.0464175

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3528.575**	**33942.00**	**2706.212**	**2127.417**	**4710.984**
Stddev	15.335	60.72	40.586	5.074	9.760
%RSD	.4345815	.1788924	1.499742	.2384948	.2071775
#1	3510.902	33933.21	2746.165	2129.938	4699.968
#2	3536.460	33886.15	2665.020	2121.576	4714.431
#3	3538.363	34006.63	2707.451	2130.736	4718.553

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03MS Acquired: 7/9/2025 11:24:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8903041**	**1.855447**	**1.200328**	**1.569670**	**.1504185**	**273.0694**
Stddev	.0076817	.005036	.003380	.009088	.0039574	.4641
%RSD	.8628190	.2714125	.2816154	.5790045	2.630916	.1699644
#1	.8818924	1.860065	1.201450	1.575672	.1489719	272.5893
#2	.8920723	1.850078	1.203005	1.559214	.1473879	273.1030
#3	.8969475	1.856199	1.196530	1.574124	.1548956	273.5158

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.133402**	**.1890689**	**.1920102**	**25.74926**	**.7083363**	**.3410359**
Stddev	.003977	.0034809	.0002971	.04199	.0015601	.0001667
%RSD	.3509253	1.841089	.1547173	.1630547	.2202437	.0488650
#1	1.129556	.1929630	.1920812	25.71247	.7065402	.3410395
#2	1.137499	.1879845	.1922653	25.74031	.7093535	.3412007
#3	1.133151	.1862593	.1916840	25.79500	.7091154	.3408675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4103893**	**383.3511**	**3.363678**	**35.98014**	**.7432364**	**.0489372**
Stddev	.0067507	3.2578	.004233	.20930	.0010108	.0015089
%RSD	1.644952	.8498287	.1258436	.5817138	.1359978	3.083380
#1	.4178008	386.3713	3.358816	35.76309	.7444034	.0498605
#2	.4087753	379.8988	3.365681	35.99661	.7426646	.0471960
#3	.4045920	383.7834	3.366539	36.18072	.7426411	.0497552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.674374**	**.9300888**	**.8000880**	**26.00162**	F **18.26104**	**.3481494**
Stddev	.077722	.0050517	.0004914	.07768	.03487	.0057087
%RSD	1.662728	.5431425	.0614209	.2987516	.1909713	1.639731
#1	4.761720	.9317818	.8005847	25.97035	18.25440	.3530601
#2	4.648556	.9340765	.7996020	26.09006	18.29875	.3418858
#3	4.612847	.9244080	.8000774	25.94444	18.22996	.3495025

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03MS Acquired: 7/9/2025 11:24:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2914926	.5377538	F 28.66009	.6778571	7.014136	.3866038
Stddev	.0009141	.0060401	.43283	.0016621	.033329	.0019981
%RSD	.3135797	1.123211	1.510204	.2451983	.4751730	.5168230
#1	.2923923	.5365385	29.13715	.6790688	6.976204	.3844681
#2	.2915207	.5443091	28.55059	.6785403	7.027472	.3869157
#3	.2905648	.5324137	28.29253	.6759623	7.038732	.3884275

Elem	Sr4077
Units	ppm
Avg	.3824742
Stddev	.0007773
%RSD	.2032361
#1	.3819410
#2	.3821154
#3	.3833661

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3919.612	36934.14	3096.912	2350.023	4375.633
Stddev	7.494	302.18	15.626	11.551	12.823
%RSD	.1912020	.8181522	.5045576	.4915404	.2930548
#1	3927.939	37275.40	3081.516	2363.000	4386.480
#2	3913.408	36826.51	3096.461	2346.206	4361.481
#3	3917.488	36700.51	3112.758	2340.864	4378.937

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03MSD Acquired: 7/9/2025 11:29:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9264946**	**1.902524**	**1.250145**	**1.633932**	**.1685782**	**279.3772**
Stddev	.0060015	.003032	.004337	.006901	.0028515	.5058
%RSD	.6477683	.1593801	.3469175	.4223852	1.691488	.1810322
#1	.9212469	1.904542	1.254087	1.636822	.1683506	279.5068
#2	.9330382	1.903993	1.250849	1.626055	.1658474	279.8056
#3	.9251988	1.899037	1.245499	1.638918	.1715367	278.8193

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.129904**	**.2020075**	**.1978683**	**26.18820**	**.7257780**	**.3479793**
Stddev	.005552	.0020541	.0005068	.05473	.0032885	.0007639
%RSD	.4913572	1.016869	.2561191	.2089807	.4530973	.2195111
#1	1.134084	.2033382	.1976641	26.15621	.7234917	.3478876
#2	1.132024	.2030427	.1974954	26.25139	.7242957	.3472654
#3	1.123605	.1996417	.1984453	26.15700	.7295468	.3487849

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4391351**	**413.6375**	**3.216195**	**36.49895**	**.7628319**	**.0505669**
Stddev	.0033470	2.5395	.010700	.08831	.0002169	.0005454
%RSD	.7621826	.6139468	.3326771	.2419449	.0284264	1.078547
#1	.4409495	416.0934	3.220203	36.46615	.7626585	.0510289
#2	.4411831	413.7970	3.224312	36.43173	.7630750	.0499653
#3	.4352726	411.0219	3.204070	36.59896	.7627622	.0507064

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.235825**	**.9679328**	**.8093940**	**30.41372**	F **18.53715**	**.3719537**
Stddev	.051867	.0039726	.0043820	.44845	.01006	.0009391
%RSD	.9906162	.4104183	.5413980	1.474487	.0542661	.2524873
#1	5.291843	.9722604	.8104376	30.83595	18.54838	.3728105
#2	5.226166	.9644518	.8045844	30.46222	18.53409	.3721009
#3	5.189467	.9670860	.8131600	29.94300	18.52897	.3709496

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03MSD Acquired: 7/9/2025 11:29:13 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2961064	.5525091	F 29.51932	.7004527	7.223789	.3899316
Stddev	.0012769	.0018155	.22970	.0011121	.018516	.0053973
%RSD	.4312361	.3285965	.7781389	.1587711	.2563149	1.384171
#1	.2946770	.5528848	29.65150	.6999361	7.212375	.3941350
#2	.2971343	.5541075	29.65238	.7017291	7.245153	.3918148
#3	.2965080	.5505352	29.25409	.6996928	7.213840	.3838450

Elem	Sr4077
Units	ppm
Avg	.3861249
Stddev	.0010993
%RSD	.2847001
#1	.3869626
#2	.3865321
#3	.3848801

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3901.964	36583.91	2944.027	2382.733	4353.132
Stddev	7.285	138.22	23.432	15.159	5.230
%RSD	.1866998	.3778028	.7959164	.6362137	.1201526
#1	3896.810	36443.92	2919.884	2373.304	4350.252
#2	3898.784	36720.28	2945.521	2400.220	4349.974
#3	3910.298	36587.54	2966.677	2374.676	4359.169

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03A Acquired: 7/9/2025 11:33:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8657622**	**1.789910**	**1.174696**	**1.539011**	**.6348229**	**229.8836**
Stddev	.0026336	.005687	.000433	.004549	.0032327	.3728
%RSD	.3041966	.3177073	.0368178	.2955639	.5092289	.1621491
#1	.8656933	1.795798	1.175187	1.533938	.6385557	230.2380
#2	.8631636	1.784449	1.174371	1.540369	.6329503	229.4948
#3	.8684295	1.789482	1.174530	1.542727	.6329626	229.9180

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.079873**	**.1746134**	**.1826852**	**24.77936**	**.6208335**	**.3232191**
Stddev	.005567	.0017114	.0004607	.03578	.0005487	.0004504
%RSD	.5155024	.9800890	.2521854	.1443879	.0883764	.1393365
#1	1.086218	.1764011	.1823493	24.81014	.6214404	.3229644
#2	1.075806	.1729903	.1824958	24.74010	.6203726	.3229539
#3	1.077596	.1744488	.1832104	24.78784	.6206875	.3237391

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3753495**	**344.1670**	**3.589031**	**32.10660**	**.6944597**	**.0448395**
Stddev	.0055423	.5861	.022821	.24176	.0004905	.0010396
%RSD	1.476572	.1703009	.6358663	.7529875	.0706234	2.318417
#1	.3803138	344.0961	3.612108	32.31147	.6941812	.0452680
#2	.3693696	343.6196	3.588512	32.16838	.6941720	.0436542
#3	.3763649	344.7853	3.566474	31.83994	.6950260	.0455963

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.404764**	**.8342677**	**.7144313**	**22.40428**	F **18.29034**	**.3606963**
Stddev	.034265	.0102073	.0012110	.19495	.04467	.0024071
%RSD	.7779122	1.223499	.1695079	.8701370	.2442018	.6673458
#1	4.437389	.8266602	.7156207	22.62524	18.26986	.3585651
#2	4.369065	.8302751	.7131998	22.25656	18.25959	.3602169
#3	4.407837	.8458678	.7144734	22.33105	18.34157	.3633071

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2425-03A Acquired: 7/9/2025 11:33:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3164514	.5947074	F 29.88781	.6709312	6.253409	.3489367
Stddev	.0010930	.0071884	.27349	.0016366	.025414	.0002494
%RSD	.3453929	1.208734	.9150473	.2439221	.4063995	.0714653
#1	.3158907	.6026690	30.14841	.6699399	6.281643	.3492219
#2	.3157526	.5886935	29.60304	.6700335	6.246220	.3487598
#3	.3177110	.5927597	29.91197	.6728201	6.232364	.3488284

Elem	Sr4077
Units	ppm
Avg	.3518080
Stddev	.0010696
%RSD	.3040140
#1	.3530333
#2	.3510614
#3	.3513294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4069.317	38714.87	3208.767	2451.937	4408.672
Stddev	.229	174.14	22.626	6.115	7.117
%RSD	.0056368	.4497936	.7051156	.2494058	.1614336
#1	4069.400	38825.13	3186.781	2446.532	4413.431
#2	4069.494	38514.12	3231.982	2458.575	4412.095
#3	4069.058	38805.37	3207.538	2450.705	4400.490

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168628BL Acquired: 7/9/2025 11:38:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004627**	**-.001844**	**-.000288**	**.0024243**	**.0003367**	**.0110000**	**.0017222**
Stddev	.002863	.001614	.000324	.0057332	.0016778	.0233953	.0008094
%RSD	61.87174	87.52666	112.5616	236.4932	498.3452	212.6843	46.99636
#1	-.006044	-.001067	-.000163	.0081068	.0003021	.0131633	.0008328
#2	-.001332	-.003699	-.000655	-.003358	-.001324	-.013402	.0024155
#3	-.006506	-.000765	-.000045	.002524	.002031	.033238	.0019185

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000003**	**-.000012**	**-.092254**	**-.000573**	**.0001513**	**.0019015**	**.0014248**
Stddev	.0001147	.000060	.007907	.000327	.0003732	.0012930	.0016426
%RSD	41621.96	510.8175	8.570529	57.02403	246.6525	67.99996	115.2874
#1	.0001199	-.000077	-.092139	-.000879	.0001427	.0028330	.0004867
#2	-.000109	.000042	-.100218	-.000611	.0005288	.0004252	.0004661
#3	-.000010	-.000000	-.084406	-.000229	-.000218	.0024463	.0033215

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003963**	**-.027749**	**.0001389**	**-.000072**	**-.027827**	**-.004043**	**-.000117**
Stddev	.0015599	.058367	.0002251	.000154	.017896	.005354	.000746
%RSD	393.6158	210.3403	162.1077	215.0274	64.31218	132.4189	637.1216
#1	.0015329	-.083421	.0001411	.000031	-.010999	-.005426	-.000526
#2	.0010382	.032984	-.000087	.000003	-.046628	-.008570	.000744
#3	-.001382	-.032810	.000363	-.000249	-.025855	.001867	-.000569

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.031177**	**-.000586**	**-.002423**	**.0003734**	**-.002592**	**-.007104**	**-.014165**
Stddev	.000599	.002833	.002056	.0005843	.000894	.000475	.000965
%RSD	1.919923	483.8684	84.86623	156.4741	34.48420	6.687556	6.809741
#1	-.031747	.002014	-.004021	-.000251	-.001992	-.007056	-.013129
#2	-.031232	-.003606	-.000103	.000908	-.003620	-.007602	-.014329
#3	-.030553	-.000165	-.003143	.000463	-.002165	-.006655	-.015037

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168628BL Acquired: 7/9/2025 11:38:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005972	.0009347	-.000050
Stddev	.001888	.0039469	.000308
%RSD	31.61698	422.2724	609.6310
#1	-.008096	.0044545	-.000364
#2	-.004484	.0016820	.000251
#3	-.005335	-.003332	-.000038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.402	34046.32	2599.100	2096.580	5224.946
Stddev	10.436	191.69	6.460	19.247	12.231
%RSD	.3038529	.5630250	.2485659	.9180107	.2340819
#1	3428.828	34267.38	2592.564	2115.118	5212.262
#2	3446.441	33945.53	2599.255	2076.695	5236.666
#3	3427.937	33926.05	2605.482	2097.927	5225.911

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168628BS Acquired: 7/9/2025 11:42:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6882267**	**1.964134**	**.9163913**	**1.933021**	**.7901528**	**2.025592**
Stddev	.0036217	.002806	.0031844	.006140	.0014671	.019132
%RSD	.5262395	.1428659	.3474969	.3176543	.1856742	.9445206
#1	.6848397	1.966367	.9148956	1.934271	.7908057	2.017761
#2	.6920445	1.965052	.9200483	1.938439	.7911800	2.047398
#3	.6877959	1.960985	.9142301	1.926351	.7884725	2.011619

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2171787**	**.2119933**	**.1820883**	**1.064644**	**.4000048**	**.1864672**
Stddev	.0017267	.0044734	.0002507	.004065	.0005638	.0002994
%RSD	.7950618	2.110150	.1376586	.3818450	.1409469	.1605635
#1	.2191605	.2166923	.1820212	1.066854	.4004292	.1867321
#2	.2163772	.2115014	.1818780	1.059952	.3993651	.1861423
#3	.2159985	.2077862	.1823656	1.067125	.4002202	.1865271

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3308011**	**3.295486**	**.2118651**	**1.983235**	**.4677267**	**.0689973**
Stddev	.0104517	.070539	.0016250	.108095	.0012694	.0005717
%RSD	3.159516	2.140489	.7669982	5.450415	.2713951	.8285852
#1	.3416979	3.367048	.2134857	1.968021	.4677218	.0688495
#2	.3298452	3.293393	.2118739	1.883553	.4664598	.0696284
#3	.3208602	3.226016	.2102357	2.098131	.4689986	.0685140

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.900819**	**.3030003**	**.2121268**	**8.793306**	**5.460831**	**.3078888**
Stddev	.077822	.0014095	.0014673	.245779	.011715	.0050429
%RSD	2.682764	.4651876	.6917231	2.795070	.2145246	1.637893
#1	2.988252	.3033039	.2105563	9.055225	5.447454	.3134811
#2	2.875068	.3014637	.2123613	8.756985	5.469262	.3064979
#3	2.839135	.3042333	.2134627	8.567709	5.465776	.3036873

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168628BS Acquired: 7/9/2025 11:42:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4006217	F .0022697	.9533268	.6523039	.2020990	.2292093
Stddev	.0014671	.0008574	.0233583	.0004415	.0023345	.0058530
%RSD	.3661988	37.77640	2.450184	.0676893	1.155130	2.553547
#1	.4000347	.0015565	.9783601	.6519141	.2042489	.2307478
#2	.4022914	.0032210	.9495056	.6527834	.2024324	.2227407
#3	.3995390	.0020317	.9321148	.6522142	.1996158	.2341393

Elem	Sr4077
Units	ppm
Avg	.2134300
Stddev	.0016361
%RSD	.7665941
#1	.2153022
#2	.2127134
#3	.2122745

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3377.740	32910.86	2508.736	2048.629	4900.372
Stddev	4.697	110.83	59.115	6.813	15.103
%RSD	.1390604	.3367471	2.356362	.3325615	.3082016
#1	3378.968	32849.31	2443.597	2048.276	4908.957
#2	3381.700	33038.80	2523.636	2055.611	4909.225
#3	3372.550	32844.46	2558.976	2041.999	4882.933

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV02 Acquired: 7/9/2025 11:47:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.800607**	**4.988540**	**4.860847**	**4.955680**	**5.005333**	**9.890657**	**10.65940**
Stddev	.008194	.004774	.001488	.026898	.013614	.033383	.05671
%RSD	.1706941	.0957060	.0306139	.5427739	.2719989	.3375240	.5320008
#1	4.792787	4.983072	4.862174	4.934878	4.991489	9.892643	10.67296
#2	4.799904	4.991885	4.859238	4.946108	5.005803	9.923004	10.59714
#3	4.809130	4.990663	4.861128	4.986055	5.018705	9.856326	10.70810

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2536787**	**2.425366**	**25.20502**	**.9973654**	**2.403941**	**1.258259**	**4.857102**
Stddev	.0009960	.003031	.10707	.0010724	.002181	.007742	.012955
%RSD	.3926031	.1249523	.4248122	.1075248	.0907206	.6152743	.2667174
#1	.2525514	2.422077	25.08446	.9973126	2.401625	1.249559	4.856553
#2	.2540457	2.425976	25.24153	.9984632	2.404240	1.264389	4.844431
#3	.2544392	2.428045	25.28906	.9963203	2.405956	1.260829	4.870323

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.582670**	**24.20874**	**2.397864**	**1.236524**	**24.49617**	**2.596994**	**2.593810**
Stddev	.006641	.21487	.003836	.001912	.08307	.016024	.014705
%RSD	.2571342	.8875668	.1599833	.1546231	.3391132	.6170091	.5669435
#1	2.584907	24.04716	2.393461	1.235451	24.41523	2.602279	2.581415
#2	2.575199	24.45259	2.400484	1.238732	24.58122	2.578995	2.610059
#3	2.587903	24.12648	2.399649	1.235389	24.49208	2.609708	2.589957

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06899**	**4.985736**	**5.109684**	**5.098462**	**4.800655**	**5.054255**	**4.913631**
Stddev	.12179	.009184	.030938	.021432	.017713	.026042	.008104
%RSD	.5059977	.1841983	.6054741	.4203570	.3689631	.5152506	.1649329
#1	24.19423	4.975857	5.074029	5.075421	4.780810	5.025606	4.904304
#2	24.06176	4.987335	5.129435	5.102164	4.814863	5.076491	4.917629
#3	23.95097	4.994015	5.125588	5.117802	4.806293	5.060669	4.918958

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV02 Acquired: 7/9/2025 11:47:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.223777**	**5.021907**	**5.231594**
Stddev	.016178	.033508	.010203
%RSD	.3096979	.6672451	.1950217
#1	5.212835	4.987464	5.237780
#2	5.216135	5.023860	5.219818
#3	5.242360	5.054396	5.237183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3282.594**	**32254.30**	**2570.348**	**2003.206**	**4435.666**
Stddev	12.884	121.61	8.743	6.756	9.082
%RSD	.3924994	.3770348	.3401527	.3372713	.2047562
#1	3297.454	32221.91	2576.247	2001.172	4444.954
#2	3275.793	32152.17	2560.303	1997.701	4426.805
#3	3274.535	32388.83	2574.494	2010.746	4435.239

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB02 Acquired: 7/9/2025 11:56:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi 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	**-.001707**	**.0012453**	**.0001627**	**.0046547**	**-.001340**	**.0275112**	**.0030760**
Stddev	.001641	.0010961	.0027680	.0027724	.002571	.0029939	.0007869
%RSD	96.08886	88.01274	1701.170	59.56081	191.9388	10.88258	25.58109
#1	-.003569	.0017436	-.001121	.0074141	.000689	.0249867	.0026970
#2	-.001079	-.000011	.003339	.0018695	-.004231	.0308189	.0039807
#3	-.000474	.002004	-.001731	.0046806	-.000476	.0267280	.0025504

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001639**	**-.000078**	**-.087280**	**-.000196**	**.0001491**	**.0008025**	**-.000427**
Stddev	.0001765	.000065	.002018	.000558	.0001715	.0007080	.001764
%RSD	107.6994	82.95171	2.311872	285.2468	115.0381	88.22181	413.3055
#1	.0002027	-.000036	-.089610	-.000336	.0001601	.0014478	-.001795
#2	-.000029	-.000153	-.086110	.000419	.0003148	.0009147	-.001050
#3	.000318	-.000045	-.086121	-.000670	-.000028	.0000451	.001564

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000111**	**-.034508**	**-.000342**	**.0000936**	**-.037418**	**.0034508**	**.0000549**
Stddev	.000928	.082414	.000253	.0012639	.006568	.0112786	.0000301
%RSD	834.0828	238.8233	74.02551	1350.012	17.55293	326.8394	54.85806
#1	.000912	-.118654	-.000361	-.000896	-.041195	.0143769	.0000896
#2	-.000899	.046057	-.000080	-.000340	-.029834	-.008150	.0000381
#3	-.000346	-.030928	-.000585	.001517	-.041225	.004126	.0000369

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003102**	**.0018656**	**.0028768**	**.0004981**	**-.001319**	**-.002585**	**.0008940**
Stddev	.000366	.0021000	.0009846	.0005044	.002784	.001440	.0004584
%RSD	11.79898	112.5672	34.22630	101.2724	211.1251	55.69969	51.27177
#1	-.003250	.0005018	.0032632	-.000079	.001765	-.000997	.0006958
#2	-.003371	.0042839	.0036097	.000853	-.003650	-.002954	.0005682
#3	-.002686	.0008110	.0017576	.000721	-.002072	-.003804	.0014182

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB02 Acquired: 7/9/2025 11:56:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006379	.0121413	.0001179
Stddev	.004225	.0092259	.0001504
%RSD	66.23972	75.98755	127.6236
#1	-.008653	.0073506	.0002453
#2	-.008979	.0227770	.0001563
#3	-.001503	.0062963	-.000048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3400.841	33535.93	2601.777	2079.877	5062.121
Stddev	8.790	234.78	22.669	10.844	18.125
%RSD	.2584660	.7000824	.8712979	.5213821	.3580467
#1	3393.528	33376.50	2576.824	2074.167	5052.744
#2	3398.404	33425.75	2621.103	2073.081	5050.606
#3	3410.593	33805.53	2607.403	2092.383	5083.014

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-01 Acquired: 7/9/2025 12:10:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001450**	**.0012397**	**-.000150**	**.0058934**	**.0005208**	**1.950582**	**.4353880**
Stddev	.003879	.0003868	.001278	.0031536	.0036252	.031758	.0028259
%RSD	267.5482	31.19681	850.6850	53.51073	696.1362	1.628114	.6490571
#1	.000225	.0012139	.000674	.0031835	-.003524	1.913932	.4328455
#2	.001310	.0008665	.000498	.0051418	.001609	1.967821	.4384306
#3	-.005884	.0016387	-.001622	.0093550	.003477	1.969991	.4348881

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000939**	**.0000066**	**5.541388**	**-.000445**	**.0032426**	**.0484523**	**7.072534**
Stddev	.0000965	.0000819	.005160	.000474	.0002203	.0008094	.053399
%RSD	102.7510	1239.596	.0931223	106.4978	6.795503	1.670539	.7550130
#1	.0001413	-.000013	5.536651	-.000812	.0030983	.0476621	7.064140
#2	.0001574	-.000064	5.540627	-.000614	.0034962	.0484152	7.129633
#3	-.000017	.000097	5.546886	.000090	.0031332	.0492797	7.023830

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8084207**	**1.339618**	**.0037637**	**.0008874**	**10.85618**	**-.003999**	**.0416272**
Stddev	.0020566	.042204	.0007758	.0021459	.12107	.004307	.0007107
%RSD	.2543943	3.150459	20.61196	241.8108	1.115234	107.7117	1.707347
#1	.8103175	1.332657	.0046227	.0029363	10.91782	-.001649	.0411935
#2	.8087098	1.384870	.0035544	-.001344	10.93402	-.008970	.0412407
#3	.8062349	1.301328	.0031141	.001070	10.71669	-.001378	.0424474

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.948814**	**.0146367**	**.0204002**	**-.000056**	**.4222530**	**.4041717**	**-.012203**
Stddev	.040492	.0041787	.0016779	.000589	.0044291	.0023592	.000724
%RSD	1.373152	28.54937	8.224674	1059.705	1.048909	.5837005	5.930836
#1	2.973680	.0165168	.0218990	-.000041	.4247717	.4016317	-.012245
#2	2.970672	.0175450	.0207138	-.000651	.4171390	.4062943	-.011460
#3	2.902091	.0098482	.0185876	.000526	.4248483	.4045890	-.012905

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-01 Acquired: 7/9/2025 12:10:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0081575	.0063351	.0376312
Stddev	.0046262	.0091673	.0004660
%RSD	56.71081	144.7068	1.238311
#1	.0134976	-.003729	.0380867
#2	.0053672	.008527	.0371553
#3	.0056079	.014208	.0376515

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3433.424	33793.74	2541.894	2106.278	5082.400
Stddev	7.808	232.91	29.000	11.786	12.265
%RSD	.2274098	.6891959	1.140890	.5595881	.2413282
#1	3441.739	33716.93	2548.279	2108.214	5096.523
#2	3426.248	33608.94	2510.233	2093.644	5074.414
#3	3432.286	34055.35	2567.170	2116.977	5076.264

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-01DUP Acquired: 7/9/2025 12:14:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012015**	**.0006482**	**.0046178**	**.0070463**	**-.001275**	**1.912859**	**.4257312**
Stddev	.0073544	.0009199	.0015807	.0033153	.001321	.012629	.0013173
%RSD	612.0937	141.9244	34.23161	47.05080	103.6352	.6602015	.3094151
#1	.0050454	.0001977	.0056438	.0079291	-.001640	1.927434	.4248974
#2	.0058375	.0017065	.0054121	.0098308	-.002375	1.905172	.4272498
#3	-.007278	.0000403	.0027974	.0033789	.000190	1.905970	.4250463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002074**	**-.000122**	**5.424039**	**.0007903**	**.0034004**	**.0497597**	**7.420814**
Stddev	.0000207	.000062	.086919	.0004839	.0000984	.0049337	.641328
%RSD	9.966794	50.41344	1.602482	61.23007	2.893210	9.914987	8.642286
#1	.0002104	-.000088	5.498761	.0013490	.0035087	.0456408	6.918229
#2	.0001854	-.000085	5.328649	.0005071	.0033760	.0552275	8.143124
#3	.0002264	-.000193	5.444709	.0005147	.0033166	.0484107	7.201089

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7902054**	**1.231076**	**.0040195**	**-.000870**	**11.80685**	**-.005663**	**.0409620**
Stddev	.0032001	.071128	.0006683	.000795	.98326	.002710	.0001049
%RSD	.4049701	5.777689	16.62629	91.34403	8.327881	47.84909	.2561639
#1	.7922037	1.289179	.0047884	-.001788	11.01640	-.003035	.0410769
#2	.7865145	1.151753	.0036922	-.000415	12.90790	-.005507	.0408712
#3	.7918981	1.252295	.0035780	-.000407	11.49625	-.008447	.0409380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.275971**	**.0176632**	**.0200558**	**-.000852**	**.4192094**	**.4192261**	**-.012585**
Stddev	.288134	.0008609	.0023304	.000332	.0051564	.0391622	.000457
%RSD	8.795389	4.874053	11.61977	39.00126	1.230030	9.341550	3.633317
#1	3.046017	.0174190	.0173888	-.000468	.4249098	.3895399	-.012208
#2	3.599184	.0169508	.0216996	-.001033	.4178481	.4636112	-.013093
#3	3.182713	.0186199	.0210789	-.001053	.4148702	.4045273	-.012454

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-01DUP Acquired: 7/9/2025 12:14:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0041005	.0006490	.0366939
Stddev	.0044880	.0055090	.0002570
%RSD	109.4522	848.8836	.7004238
#1	.0090662	.0070073	.0368119
#2	.0003337	-.002696	.0368708
#3	.0029014	-.002364	.0363991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3462.698	33695.32	2448.187	2132.943	5115.132
Stddev	12.113	153.91	193.910	11.505	17.856
%RSD	.3498188	.4567729	7.920569	.5393896	.3490774
#1	3473.309	33523.01	2596.527	2119.894	5131.136
#2	3465.285	33819.17	2228.767	2137.308	5118.389
#3	3449.501	33743.77	2519.267	2141.627	5095.872

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1LX5 Acquired: 7/9/2025 12:18:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006104**	**-.000382**	**-.000809**	**.0030165**	**.0023119**	**.4243894**	**.0878662**
Stddev	.0029428	.000889	.000473	.0037464	.0013452	.0275581	.0002842
%RSD	482.1147	232.8655	58.45644	124.1961	58.18750	6.493578	.3234244
#1	.0015340	.000558	-.000338	.0016553	.0038530	.4389492	.0876021
#2	.0029805	-.001209	-.001284	.0072532	.0017095	.3926053	.0878296
#3	-.002683	-.000494	-.000806	.0001410	.0013731	.4416136	.0881669

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001176**	**-.000077**	**1.103351**	**.0001714**	**.0009605**	**.0111569**	**1.384901**
Stddev	.0000373	.000048	.037046	.0000650	.0001079	.0006179	.009857
%RSD	31.69920	62.28077	3.357610	37.90573	11.23707	5.538084	.7117656
#1	.0001009	-.000047	1.133680	.0001623	.0009362	.0104509	1.392735
#2	.0000916	-.000051	1.114313	.0002404	.0008668	.0114206	1.373833
#3	.0001603	-.000132	1.062061	.0001114	.0010785	.0115991	1.388135

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1610395**	**.2571053**	**.0002602**	**-.000339**	**1.887270**	**-.005851**	**.0083916**
Stddev	.0016114	.0953695	.0002223	.000451	.034371	.008054	.0000691
%RSD	1.000623	37.09355	85.41928	133.0235	1.821215	137.6545	.8237391
#1	.1610773	.1470741	.0001363	-.000623	1.926063	-.001481	.0083485
#2	.1626317	.3082233	.0001275	.000181	1.875137	-.000926	.0083549
#3	.1594096	.3160186	.0005168	-.000576	1.860611	-.015146	.0084713

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4342589**	**.0065800**	**-.000449**	**-.000093**	**.0833103**	**.0751992**	**-.001334**
Stddev	.0027842	.0011881	.001683	.000235	.0036422	.0015326	.001145
%RSD	.6411439	18.05617	374.4409	253.4278	4.371815	2.037996	85.78612
#1	.4373700	.0078859	-.000143	-.000043	.0815980	.0750158	-.000194
#2	.4334054	.0055631	.001059	.000114	.0874931	.0737666	-.002483
#3	.4320014	.0062910	-.002264	-.000349	.0808399	.0768152	-.001326

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1LX5 Acquired: 7/9/2025 12:18:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001240	.0084718	.0076579
Stddev	.003877	.0033156	.0004541
%RSD	312.5566	39.13713	5.929477
#1	-.005034	.0061954	.0080982
#2	-.001403	.0069440	.0076843
#3	.002715	.0122758	.0071912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3365.641	32865.96	2564.016	2046.334	4991.354
Stddev	4.612	95.50	23.364	5.938	9.367
%RSD	.1370206	.2905637	.9112459	.2901545	.1876688
#1	3361.588	32765.61	2543.012	2039.631	4981.804
#2	3370.659	32955.72	2589.182	2050.933	5000.527
#3	3364.675	32876.55	2559.854	2048.438	4991.733

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1MS Acquired: 7/9/2025 12:23:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6894334**	**1.942549**	**.9216470**	**1.881464**	**.7937004**	**3.978732**	**.6398027**
Stddev	.0046009	.006474	.0014563	.009499	.0015579	.038390	.0014751
%RSD	.6673438	.3332484	.1580129	.5048857	.1962792	.9648881	.2305597
#1	.6860250	1.947880	.9202539	1.872830	.7924597	3.935737	.6414338
#2	.6946668	1.935345	.9231592	1.879923	.7954488	3.990878	.6385622
#3	.6876084	1.944420	.9215280	1.891640	.7931928	4.009579	.6394123

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2081666**	**.1812731**	**6.552400**	**.4044850**	**.1888803**	**.3726329**	**9.589568**
Stddev	.0016333	.0003038	.054113	.0011042	.0001972	.0031121	.055077
%RSD	.7845962	.1675758	.8258554	.2729870	.1043850	.8351768	.5743450
#1	.2097935	.1810764	6.612852	.4057124	.1891076	.3758093	9.641475
#2	.2065270	.1811198	6.508482	.4041704	.1887549	.3695892	9.531791
#3	.2081793	.1816229	6.535866	.4035723	.1887784	.3725002	9.595438

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.003687**	**3.259997**	**.4688237**	**.0693625**	**13.54749**	**.3114926**	**.2547842**
Stddev	.002106	.035543	.0003985	.0005756	.11995	.0104935	.0016315
%RSD	.2098233	1.090267	.0849983	.8298124	.8853950	3.368779	.6403610
#1	1.006024	3.299178	.4691062	.0696478	13.68281	.3031711	.2566058
#2	1.001936	3.229828	.4683679	.0697397	13.45423	.3232808	.2542898
#3	1.003102	3.250985	.4689970	.0687000	13.50544	.3080259	.2534570

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.12262**	**5.558170**	**.3160095**	**.4036533**	**.4266429**	**1.331873**	**.6454889**
Stddev	.13702	.004115	.0024849	.0005966	.0040827	.009437	.0033848
%RSD	1.044186	.0740296	.7863400	.1477974	.9569354	.7085479	.5243716
#1	13.25260	5.558104	.3143828	.4035119	.4219650	1.340452	.6490906
#2	12.97950	5.562318	.3147758	.4043078	.4294882	1.321765	.6423737
#3	13.13576	5.554089	.3188698	.4031400	.4284754	1.333402	.6450024

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1MS Acquired: 7/9/2025 12:23:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2112507	.2143672	.2499582
Stddev	.0021332	.0061244	.0003022
%RSD	1.009809	2.856957	.1208785
#1	.2093596	.2114584	.2502827
#2	.2108292	.2214039	.2499071
#3	.2135632	.2102392	.2496849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3393.712	33166.36	2571.378	2067.704	4931.897
Stddev	7.727	57.23	16.013	4.000	7.658
%RSD	.2276799	.1725426	.6227449	.1934395	.1552683
#1	3389.188	33102.49	2557.329	2064.646	4923.560
#2	3389.314	33212.96	2588.813	2066.237	4933.515
#3	3402.634	33183.63	2567.991	2072.231	4938.617

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1MSD Acquired: 7/9/2025 12:27:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6633596**	**1.875511**	**.8916918**	**1.810342**	**.7786327**	**3.837643**	**.6279315**
Stddev	.0028783	.005628	.0043219	.009108	.0022235	.011011	.0015909
%RSD	.4339036	.3000782	.4846823	.5030884	.2855663	.2869158	.2533481
#1	.6666832	1.869077	.8867282	1.800315	.7764618	3.833060	.6261157
#2	.6617088	1.877935	.8937261	1.812607	.7809053	3.850205	.6285987
#3	.6616868	1.879521	.8946212	1.818103	.7785311	3.829664	.6290800

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1983288**	**.1754765**	**6.388874**	**.3898057**	**.1827895**	**.3589011**	**11.90459**
Stddev	.0022672	.0007556	.033404	.0032098	.0008647	.0039033	.12578
%RSD	1.143133	.4306262	.5228447	.8234334	.4730429	1.087571	1.056602
#1	.1984261	.1746084	6.373986	.3915692	.1821022	.3590172	11.92291
#2	.2005457	.1758345	6.365502	.3861008	.1825060	.3627450	12.02021
#3	.1960145	.1759867	6.427133	.3917472	.1837604	.3549410	11.77065

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9907650**	**3.114394**	**.4533506**	**.0651120**	**13.04069**	**.3076429**	**.2455043**
Stddev	.0050140	.024492	.0013365	.0008461	.09078	.0082272	.0015674
%RSD	.5060725	.7864221	.2948123	1.299512	.6960942	2.674261	.6384526
#1	.9871312	3.088566	.4527157	.0660890	13.01888	.3122225	.2451913
#2	.9886785	3.117329	.4524498	.0646349	13.14038	.2981450	.2441169
#3	.9964853	3.137286	.4548862	.0646122	12.96281	.3125612	.2472046

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.58284**	**5.353644**	**.3012144**	**.3996790**	**.4206717**	**1.352047**	**.6371936**
Stddev	.24743	.021978	.0023590	.0018624	.0032140	.011832	.0024961
%RSD	1.966439	.4105212	.7831695	.4659771	.7640037	.8751397	.3917294
#1	12.46204	5.331676	.3012445	.3978234	.4200868	1.350022	.6343449
#2	12.86747	5.353626	.3035582	.3996655	.4177903	1.364761	.6389976
#3	12.41901	5.375631	.2988405	.4015482	.4241378	1.341357	.6382382

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1MSD Acquired: 7/9/2025 12:27:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2090340	.2113758	.2421613
Stddev	.0074407	.0080950	.0002071
%RSD	3.559581	3.829676	.0855381
#1	.2143518	.2077997	.2421745
#2	.2005308	.2056846	.2423615
#3	.2122193	.2206430	.2419479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3393.230	33219.06	2582.635	2069.004	4930.362
Stddev	12.029	247.77	14.913	11.071	18.755
%RSD	.3545090	.7458576	.5774169	.5350910	.3803977
#1	3405.992	33314.09	2593.756	2062.475	4951.731
#2	3391.597	33405.24	2565.689	2081.786	4922.722
#3	3382.100	32937.84	2588.458	2062.749	4916.632

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1A Acquired: 7/9/2025 12:31:57 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6840742**	**1.922410**	**.9148882**	**1.871020**	**.7929063**	**3.923805**	**.6365397**
Stddev	.0050040	.008127	.0005282	.006907	.0067069	.034617	.0053016
%RSD	.7315037	.4227581	.0577287	.3691553	.8458624	.8822260	.8328743
#1	.6831226	1.917663	.9143528	1.864166	.7855775	3.931055	.6310477
#2	.6894856	1.917773	.9149028	1.870913	.7944030	3.886138	.6369437
#3	.6796142	1.931794	.9154088	1.877979	.7987383	3.954224	.6416277

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2026861**	**.1802202**	**6.439248**	**.4019047**	**.1873321**	**.3639145**	**10.70842**
Stddev	.0017859	.0003642	.027355	.0006019	.0002666	.0033716	.08907
%RSD	.8811120	.2020917	.4248190	.1497571	.1423327	.9264673	.8317760
#1	.2006868	.1798855	6.409749	.4025611	.1875456	.3603004	10.60877
#2	.2041234	.1801671	6.444218	.4013787	.1870333	.3669750	10.78031
#3	.2032479	.1806080	6.463778	.4017743	.1874174	.3644682	10.73617

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.003096**	**3.253979**	**.4658648**	**.0676103**	**13.24224**	**.3193373**	**.2530517**
Stddev	.007732	.047574	.0000897	.0021476	.08440	.0055025	.0015134
%RSD	.7708531	1.462011	.0192584	3.176490	.6373456	1.723101	.5980589
#1	.994546	3.279490	.4657663	.0663292	13.14609	.3243992	.2528987
#2	1.009598	3.199091	.4659419	.0664119	13.27658	.3201320	.2516207
#3	1.005145	3.283355	.4658861	.0700897	13.30406	.3134807	.2546359

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.76316**	**5.521866**	**.3082820**	**.4049085**	**.4304303**	**1.340860**	**.6468359**
Stddev	.02316	.010543	.0044259	.0013677	.0020241	.014516	.0017807
%RSD	.1814960	.1909313	1.435658	.3377725	.4702484	1.082576	.2752960
#1	12.78749	5.512076	.3031754	.4040917	.4325408	1.324102	.6448113
#2	12.74137	5.520494	.3110103	.4041465	.4285054	1.348953	.6475376
#3	12.76062	5.533028	.3106603	.4064875	.4302445	1.349526	.6481589

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2477-1A Acquired: 7/9/2025 12:31:57 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2123168	.2212157	.2471200
Stddev	.0023363	.0029254	.0011219
%RSD	1.100402	1.322397	.4540041
#1	.2130002	.2195368	.2463178
#2	.2097149	.2245935	.2466402
#3	.2142352	.2195166	.2484021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3388.384	32994.49	2583.647	2058.478	4922.083
Stddev	13.140	340.00	5.856	22.005	11.392
%RSD	.3877990	1.030474	.2266678	1.068982	.2314494
#1	3389.935	32657.76	2584.334	2042.839	4922.606
#2	3400.680	33337.67	2589.129	2083.640	4933.204
#3	3374.537	32988.03	2577.477	2048.954	4910.438

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-07 Acquired: 7/9/2025 12:36:16 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012501**	**.0116990**	**.0151999**	**-.025890**	**.0177018**	**.0765629**	**.0836978**
Stddev	.004579	.0051667	.0027310	.007087	.0053170	.0547684	.0016787
%RSD	36.62595	44.16339	17.96731	27.37323	30.03648	71.53390	2.005614
#1	-.014956	.0062653	.0183354	-.018462	.0190850	.0279637	.0824132
#2	-.007218	.0122825	.0139236	-.032578	.0221904	.1359077	.0855972
#3	-.015329	.0165491	.0133407	-.026630	.0118299	.0658173	.0830832

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000058**	**.0000296**	**162.9423**	**.0249617**	**.0242444**	**.0053526**	**.0246780**
Stddev	.000075	.0000677	.6187	.0013408	.0006584	.0019490	.0049238
%RSD	129.0202	228.1393	.3797236	5.371420	2.715581	36.41145	19.95225
#1	-.000051	.0001071	162.4207	.0264385	.0249953	.0031447	.0191149
#2	-.000137	-.000018	163.6259	.0238209	.0237660	.0060794	.0264432
#3	.000013	.000000	162.7804	.0246257	.0239720	.0068339	.0284758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052725**	**3.429866**	**-.002399**	**.0007977**	**321.7593**	**.0016459**	**.0084159**
Stddev	.0027064	.066538	.000737	.0013321	20.1359	.0026835	.0004593
%RSD	51.32978	1.939947	30.70710	166.9780	6.258076	163.0406	5.457703
#1	.0081442	3.442292	-.002643	.0014971	299.0187	.0032848	.0082569
#2	.0027691	3.357992	-.001571	-.000738	337.3254	-.001451	.0080571
#3	.0049044	3.489316	-.002983	.001635	328.9338	.003104	.0089335

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.193116**	**.0622919**	**.0510629**	**-.008770**	**10.69425**	**3.490941**	**-.008747**
Stddev	.153887	.0039770	.0017728	.000190	.46653	.198376	.001474
%RSD	2.963286	6.384402	3.471864	2.165211	4.362456	5.682598	16.85426
#1	5.231564	.0612915	.0490673	-.008641	11.16929	3.261880	-.008483
#2	5.324133	.0666736	.0524559	-.008681	10.67676	3.604312	-.007423
#3	5.023650	.0589107	.0516656	-.008988	10.23672	3.606630	-.010336

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-07 Acquired: 7/9/2025 12:36:16 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002317	.0033250	.5609918
Stddev	.001688	.0052958	.0021044
%RSD	72.84335	159.2754	.3751206
#1	-.000579	.0076609	.5592197
#2	-.002424	.0048913	.5633177
#3	-.003950	-.002577	.5604379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2996.057	29880.00	2332.096	1938.837	3920.293
Stddev	138.715	281.48	141.344	17.067	179.251
%RSD	4.629916	.9420315	6.060822	.8802635	4.572400
#1	2918.717	29559.85	2495.114	1954.096	3792.519
#2	2913.252	29991.55	2257.449	1942.008	3843.160
#3	3156.200	30088.62	2243.726	1920.407	4125.199

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-08 Acquired: 7/9/2025 12:40:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005420**	**.0194775**	**.0202417**	**-.026373**	**.0198659**	**.0449514**
Stddev	.003362	.0046527	.0026657	.000636	.0033264	.0469840
%RSD	62.02986	23.88756	13.16946	2.411439	16.74452	104.5220
#1	-.001942	.0145643	.0200823	-.026477	.0161902	.0761812
#2	-.008653	.0200517	.0229834	-.026951	.0226693	-.009083
#3	-.005664	.0238164	.0176591	-.025692	.0207380	.067755

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0682956**	**.0001177**	**.0000049**	**229.5178**	**.0249076**	**.0273448**
Stddev	.0022849	.0002014	.0000955	3.9691	.0014679	.0001514
%RSD	3.345649	171.2175	1932.951	1.729329	5.893219	.5536836
#1	.0695462	-.000114	.0001007	232.5895	.0232615	.0272152
#2	.0696824	.000221	-.000090	225.0362	.0253809	.0273080
#3	.0656584	.000247	.000004	230.9277	.0260804	.0275112

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199057**	**.0230658**	**.0001454**	**1.895288**	**-.001560**	**.0016574**
Stddev	.0061579	.0075863	.0011271	.037796	.000658	.0006881
%RSD	30.93554	32.89000	775.2285	1.994191	42.19398	41.51893
#1	.0156530	.0175418	.0012028	1.885003	-.000894	.0022087
#2	.0269673	.0317156	-.001040	1.937162	-.002211	.0018772
#3	.0170969	.0199399	.000274	1.863699	-.001576	.0008862

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**487.0422**	**.0063584**	**.0050368**	^ *****	**.0652897**	**.0752035**
Stddev	108.0923	.0053128	.0002282	-----	.0030121	.0158642
%RSD	22.19361	83.55540	4.531236	-----	4.613362	21.09501
#1	436.7346	.0047900	.0052889	7.636923	.0636092	.0676172
#2	611.1191	.0122789	.0049773	11.03612	.0634928	.0934365
#3	413.2728	.0020064	.0048443	^ -----	.0687670	.0645568

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-08 Acquired: 7/9/2025 12:40:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008887	F 23.92896	2.491005	-.004256	-.001175	-.026838
Stddev	.000224	.36074	.496418	.000751	.002220	.015346
%RSD	2.523418	1.507566	19.92842	17.63762	188.9451	57.17813
#1	-.009088	23.89521	2.223819	-.005048	-.000069	-.010665
#2	-.008928	23.58628	3.063790	-.004164	-.003731	-.041194
#3	-.008645	24.30540	2.185406	-.003555	.000275	-.028655

Elem	Sr4077
Units	ppm
Avg	.9354033
Stddev	.0095416
%RSD	1.020056
#1	.9456520
#2	.9267767
#3	.9337813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3028.618	28500.18	2231.443	1886.036	3890.312
Stddev	50.415	993.95	383.005	49.027	68.124
%RSD	1.664622	3.487520	17.16400	2.599483	1.751128
#1	2982.271	29342.48	2477.520	1916.258	3848.478
#2	3082.298	28754.19	1790.163	1912.380	3968.921
#3	3021.284	27403.88	2426.645	1829.468	3853.536

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168748BL Acquired: 7/9/2025 12:45:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000993**	**-.000174**	**-.000056**	**.0079440**	**-.000166**	**.0491650**
Stddev	.001567	.001867	.000524	.0008865	.001645	.0160195
%RSD	157.8508	1074.703	942.7933	11.15900	988.4516	32.58306
#1	.000036	-.001357	-.000040	.0081495	-.001609	.0533365
#2	-.002796	.001978	-.000587	.0069728	-.000516	.0626861
#3	-.000218	-.001143	.000461	.0087096	.001626	.0314725

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025974**	**.0001456**	**-.000012**	**-.073240**	**-.000177**	**.0002457**
Stddev	.0006295	.0001455	.000029	.013605	.000661	.0000649
%RSD	24.23468	99.93381	236.5775	18.57629	374.2821	26.42021
#1	.0033238	.0001089	-.000005	-.085212	.000315	.0002872
#2	.0022545	.0003059	.000012	-.076062	.000084	.0002790
#3	.0022138	.0000219	-.000044	-.058445	-.000928	.0001709

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022440**	**.0153391**	**.0035642**	**-.029392**	**-.000057**	**.0006312**
Stddev	.0014553	.0017495	.0017717	.053174	.000176	.0016908
%RSD	64.85321	11.40514	49.70655	180.9155	311.5718	267.8886
#1	.0005701	.0146288	.0055614	.031396	-.000108	-.001280
#2	.0032088	.0173320	.0029494	-.067281	-.000201	.001933
#3	.0029531	.0140566	.0021819	-.052290	.000140	.001240

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002352**	**.0072137**	**.0046634**	**.0045498**	**.0044043**	**-.003474**
Stddev	.020190	.0022399	.0005611	.0007388	.0026440	.001217
%RSD	858.6020	31.05079	12.03205	16.23859	60.03303	35.03875
#1	.012799	.0052360	.0046483	.0037795	.0067089	-.002513
#2	.005418	.0096461	.0041100	.0046175	.0015178	-.003065
#3	-.025272	.0067592	.0052319	.0052524	.0049862	-.004842

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168748BL Acquired: 7/9/2025 12:45:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005816	.0076586	-.006762	-.008947	-.001704	F .0280193
Stddev	.0005980	.0037214	.000779	.000804	.004935	.0060445
%RSD	102.8073	48.59044	11.52206	8.980960	289.5445	21.57279
#1	-.000003	.0085504	-.006576	-.009731	-.006813	.0314213
#2	.001192	.0108530	-.007617	-.008125	.003037	.0315961
#3	.000556	.0035724	-.006092	-.008986	-.001337	.0210404

Elem	Sr4077
Units	ppm
Avg	.0001278
Stddev	.0001585
%RSD	123.9723
#1	.0000428
#2	.0000300
#3	.0003107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3366.545	33484.69	2583.567	2082.842	4985.290
Stddev	8.746	73.60	10.540	2.160	12.300
%RSD	.2598051	.2197984	.4079699	.1037149	.2467241
#1	3376.465	33568.68	2583.894	2080.380	4998.295
#2	3363.226	33453.86	2572.867	2083.724	4983.732
#3	3359.943	33431.51	2593.939	2084.422	4973.843

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168748BS Acquired: 7/9/2025 12:49:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6807527**	**1.960806**	**.9080569**	**1.935732**	**.7866084**	**1.993252**
Stddev	.0053802	.001027	.0018859	.003849	.0011797	.035647
%RSD	.7903260	.0523707	.2076864	.1988300	.1499671	1.788387
#1	.6846524	1.961286	.9061845	1.937213	.7861011	1.962935
#2	.6746147	1.961505	.9080300	1.931363	.7857673	2.032522
#3	.6829909	1.959627	.9099561	1.938621	.7879569	1.984299

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2169411**	**.2132844**	**.1814329**	**1.034030**	**.3981046**	**.1845751**
Stddev	.0001949	.0049469	.0004281	.037005	.0008845	.0003016
%RSD	.0898594	2.319389	.2359689	3.578728	.2221715	.1634105
#1	.2168355	.2102671	.1817151	1.025213	.3991133	.1845687
#2	.2168216	.2105926	.1809402	1.074648	.3977387	.1842768
#3	.2171660	.2189935	.1816432	1.002230	.3974618	.1848799

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3344055**	**3.337295**	**.2116118**	**1.988652**	**.4639038**	**.0717428**
Stddev	.0068616	.070513	.0009775	.071008	.0020782	.0006854
%RSD	2.051865	2.112875	.4619195	3.570648	.4479702	.9553050
#1	.3307318	3.290112	.2113016	2.037846	.4657438	.0720998
#2	.3301630	3.303420	.2108270	2.020862	.4616498	.0709526
#3	.3423217	3.418353	.2127067	1.907248	.4643176	.0721760

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.044909**	**.3091916**	**.2096523**	**9.389308**	**5.511525**	**.3079023**
Stddev	.033038	.0157583	.0006413	.165995	.024165	.0041579
%RSD	1.085031	5.096607	.3058845	1.767919	.4384379	1.350402
#1	3.055622	.3146538	.2101519	9.524904	5.535833	.3055964
#2	3.007844	.3214921	.2098759	9.204187	5.487506	.3054083
#3	3.071261	.2914290	.2089292	9.438833	5.511238	.3127022

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168748BS Acquired: 7/9/2025 12:49:47 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3993153	F -.000569	.9611694	.6515158	.1997556	F .2457174
Stddev	.0008697	.007737	.0217590	.0006810	.0026730	.0041431
%RSD	.2178046	1358.690	2.263807	.1045278	1.338117	1.686142
#1	.3992329	.007532	.9473305	.6520967	.1970519	.2430634
#2	.3984897	-.007882	.9499281	.6507663	.1998181	.2504915
#3	.4002233	-.001359	.9862498	.6516844	.2023967	.2435971

Elem	Sr4077
Units	ppm
Avg	.2140382
Stddev	.0006155
%RSD	.2875639
#1	.2135123
#2	.2147151
#3	.2138870

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3365.261	32901.04	2481.324	2051.139	4892.792
Stddev	9.358	13.93	59.143	10.773	20.017
%RSD	.2780899	.0423253	2.383517	.5252077	.4091052
#1	3355.155	32902.03	2519.233	2056.845	4871.645
#2	3373.629	32914.44	2511.564	2057.857	4911.444
#3	3367.000	32886.64	2413.176	2038.713	4895.287

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV03 Acquired: 7/9/2025 12:54:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.825587**	**5.032300**	**4.885871**	**5.012153**	**5.020768**	**10.02072**	**10.75360**
Stddev	.004839	.007469	.006640	.007967	.003152	.07877	.04119
%RSD	.1002872	.1484228	.1358936	.1589456	.0627711	.7860561	.3830661
#1	4.828926	5.026460	4.880033	5.012447	5.021957	10.02882	10.78659
#2	4.827797	5.029724	4.884486	5.019969	5.017195	10.09513	10.76678
#3	4.820037	5.040716	4.893094	5.004044	5.023152	9.93822	10.70743

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2568920**	**2.440013**	**25.54272**	**1.004955**	**2.414328**	**1.271386**	**4.930685**
Stddev	.0012940	.003510	.11906	.000970	.004535	.005985	.022157
%RSD	.5037336	.1438396	.4661121	.0965031	.1878448	.4707374	.4493715
#1	.2573355	2.437868	25.48546	1.005044	2.411251	1.273923	4.925858
#2	.2579059	2.438107	25.67959	1.003944	2.412196	1.275685	4.954858
#3	.2554345	2.444063	25.46311	1.005877	2.419536	1.264551	4.911340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.586041**	**24.53015**	**2.412482**	**1.242858**	**24.98604**	**2.590049**	**2.603795**
Stddev	.004148	.08710	.004933	.004041	.18648	.009362	.012979
%RSD	.1604164	.3550547	.2044704	.3251121	.7463439	.3614628	.4984588
#1	2.590821	24.61756	2.410723	1.245135	25.13814	2.597162	2.618313
#2	2.583924	24.52950	2.408669	1.238193	25.04199	2.593542	2.593315
#3	2.583379	24.44338	2.418053	1.245247	24.77798	2.579442	2.599757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.71175**	**5.083437**	**5.180457**	**5.138123**	**4.831801**	**5.111558**	**4.953432**
Stddev	.24090	.018388	.023249	.007364	.002368	.028885	.012433
%RSD	.9748476	.3617191	.4487909	.1433277	.0490065	.5650865	.2510015
#1	24.61456	5.096830	5.186656	5.129899	4.834001	5.120444	4.945904
#2	24.98606	5.062472	5.199979	5.140361	4.832108	5.134956	4.946609
#3	24.53462	5.091008	5.154737	5.144108	4.829295	5.079275	4.967783

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV03 Acquired: 7/9/2025 12:54:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.265576**	**5.125939**	**5.252164**
Stddev	.012246	.012631	.016524
%RSD	.2325623	.2464093	.3146066
#1	5.271515	5.119932	5.261156
#2	5.273719	5.140452	5.262241
#3	5.251493	5.117432	5.233094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3247.746**	**31755.75**	**2520.080**	**1979.052**	**4389.675**
Stddev	2.954	53.12	17.930	5.498	6.428
%RSD	.0909610	.1672765	.7114698	.2778269	.1464452
#1	3248.612	31701.91	2513.681	1972.735	4387.977
#2	3250.170	31757.24	2506.228	1981.657	4396.782
#3	3244.455	31808.12	2540.331	1982.763	4384.266

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB03 Acquired: 7/9/2025 12:58:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002003**	**-.002521**	**-.000795**	**.0074535**	**-.001169**	**.0658540**
Stddev	.001048	.000285	.003051	.0004197	.004042	.0312229
%RSD	52.34803	11.29056	383.7218	5.631016	345.7668	47.41231
#1	-.002293	-.002307	-.003011	.0079136	-.005184	.1019071
#2	-.000840	-.002844	-.002060	.0070916	-.001223	.0478580
#3	-.002876	-.002411	.002685	.0073553	.002900	.0477969

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020363**	**.0000922**	**.0000418**	**.0072051**	**-.000210**	**.0001294**
Stddev	.0012266	.0001209	.0000300	.0147648	.000383	.0002025
%RSD	60.23740	131.0158	71.80030	204.9219	182.4307	156.4493
#1	.0034104	.0002214	.0000447	.0227745	-.000639	.0001115
#2	.0016463	.0000734	.0000703	-.006596	-.000090	-.000063
#3	.0010520	-.000018	.0000105	.005436	.000099	.000340

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009574**	**.0000191**	**.0008792**	**.0061884**	**-.000312**	**.0005949**
Stddev	.0005829	.0019795	.0002996	.0488524	.000396	.0011321
%RSD	60.88396	10350.67	34.08109	789.4234	126.6966	190.2858
#1	.0006535	.0018715	.0006151	.0263769	-.000631	.0009655
#2	.0016296	.0002527	.0008177	.0417107	-.000437	-.000676
#3	.0005893	-.002067	.0012049	-.049523	.000131	.001495

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006331**	**-.002052**	**.0003282**	**.0007727**	**.0004004**	F **.0108561**
Stddev	.005983	.003125	.0007944	.0017356	.0004123	.0011328
%RSD	94.48964	152.3214	242.0747	224.6140	102.9574	10.43506
#1	-.001479	.000762	.0001114	.0024938	.0001150	.0109936
#2	-.004500	-.001502	-.000335	-.000977	.0002132	.0119139
#3	-.013016	-.005415	.001208	.000801	.0008731	.0096607

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB03 Acquired: 7/9/2025 12:58:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001246	.0024352	-.001146	.0013888	-.003515	F .0276202
Stddev	.0003533	.0032420	.000393	.0006876	.001354	.0035849
%RSD	283.5996	133.1264	34.28512	49.51309	38.51267	12.97933
#1	-.000208	-.000243	-.001569	.0007927	-.002233	.0314937
#2	.000495	.006040	-.001075	.0012326	-.004931	.0269478
#3	.000087	.001509	-.000793	.0021410	-.003382	.0244191

Elem	Sr4077
Units	ppm
Avg	.0001024
Stddev	.0002483
%RSD	242.4996
#1	-.000057
#2	.000388
#3	-.000024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3380.568	33501.41	2572.933	2075.730	5027.160
Stddev	1.867	189.13	4.894	14.099	5.278
%RSD	.0552197	.5645449	.1901972	.6792494	.1049946
#1	3378.514	33700.63	2570.500	2091.901	5032.644
#2	3382.162	33479.30	2569.733	2066.009	5026.719
#3	3381.026	33324.31	2578.567	2069.281	5022.116

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01DLX10 Acquired: 7/9/2025 13:06:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009109**	**.0013267**	**.0316181**	**.0060106**	**-.016485**	**.0519956**
Stddev	.001343	.0005381	.0011057	.0036950	.000816	.0397483
%RSD	14.74210	40.56010	3.497064	61.47556	4.950759	76.44545
#1	-.008074	.0017785	.0305390	.0017450	-.016346	.0825410
#2	-.010627	.0014702	.0327486	.0082272	-.017361	.0663904
#3	-.008628	.0007314	.0315668	.0080596	-.015747	.0070554

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070596**	**.0001421**	**.0007572**	**.5083441**	**.0296581**	**.0023624**
Stddev	.0020475	.0001715	.0001255	.0156321	.0005598	.0004005
%RSD	29.00313	120.6652	16.57114	3.075107	1.887439	16.95229
#1	.0066020	-.000013	.0007883	.4903885	.0303021	.0019752
#2	.0052796	.000113	.0006191	.5157219	.0293849	.0027749
#3	.0092972	.000326	.0008642	.5189219	.0292874	.0023369

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1279469**	**.2722798**	**.0065620**	**.2054950**	**.0854623**	**.0025832**
Stddev	.0078724	.0169984	.0027774	.0187625	.0009946	.0008414
%RSD	6.152838	6.243008	42.32484	9.130400	1.163799	32.57208
#1	.1254572	.2623545	.0097667	.2262254	.0865456	.0032417
#2	.1216204	.2625775	.0048542	.1896782	.0852509	.0016353
#3	.1367631	.2919075	.0050651	.2005815	.0845904	.0028728

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**257.5504**	**.0017002**	F **119.1564**	**46.25607**	**.0139113**	**.0182942**
Stddev	12.1991	.0141817	1.5854	1.76104	.0015628	.0014540
%RSD	4.736573	834.1045	1.330545	3.807152	11.23404	7.947785
#1	253.5618	-.007550	120.8933	45.80848	.0124628	.0193013
#2	247.8449	-.005377	118.7891	44.76202	.0137036	.0189539
#3	271.2445	.018028	117.7869	48.19772	.0155676	.0166273

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01DLX10 Acquired: 7/9/2025 13:06:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210604	F 651.6498	.1548865	-.007687	-.000769	.0566562
Stddev	.0014842	2.8553	.0103482	.000123	.005567	.0160375
%RSD	7.047591	.4381597	6.681124	1.601739	723.5177	28.30668
#1	.0227408	653.4905	.1501736	-.007558	-.000351	.0519799
#2	.0205125	653.0982	.1477337	-.007702	-.006533	.0434767
#3	.0199281	648.3606	.1667522	-.007803	.004576	.0745121

Elem	Sr4077
Units	ppm
Avg	.0050686
Stddev	.0002646
%RSD	5.219719
#1	.0048166
#2	.0050450
#3	.0053441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3174.166	30358.88	2398.360	1941.991	4241.610
Stddev	11.787	268.08	112.451	17.046	22.071
%RSD	.3713352	.8830388	4.688649	.8777646	.5203481
#1	3161.594	30187.49	2464.309	1931.920	4224.377
#2	3175.934	30221.34	2462.251	1932.381	4233.966
#3	3184.968	30667.81	2268.518	1961.673	4266.487

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01DUPDLX10 Acquired: 7/9/2025 13:11:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009037**	**.0022690**	**.0298520**	**.0025516**	**-.016140**	**.0595751**
Stddev	.001598	.0016544	.0017757	.0039861	.003559	.0235697
%RSD	17.67919	72.91572	5.948315	156.2213	22.05105	39.56291
#1	-.009074	.0018067	.0318932	.0003709	-.016269	.0497856
#2	-.007422	.0008948	.0286629	.0001316	-.012518	.0864620
#3	-.010616	.0041053	.0290000	.0071522	-.019633	.0424778

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054708**	**.0002557**	**.0007671**	**.4710847**	**.0287089**	**.0017247**
Stddev	.0009183	.0001412	.0000481	.0184828	.0011522	.0002023
%RSD	16.78625	55.23288	6.268283	3.923466	4.013332	11.72949
#1	.0064013	.0003911	.0007221	.4841378	.0285474	.0014917
#2	.0045651	.0002668	.0007613	.4499353	.0276459	.0018277
#3	.0054460	.0001093	.0008178	.4791810	.0299332	.0018548

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1235438**	**.2653965**	**.0040181**	**.0773372**	**.0853560**	**.0008417**
Stddev	.0034037	.0056690	.0009698	.0539804	.0012345	.0016565
%RSD	2.755028	2.136037	24.13565	69.79875	1.446282	196.8071
#1	.1273417	.2718590	.0045368	.1385347	.0867043	.0006322
#2	.1225205	.2630674	.0046184	.0569870	.0842812	-.000700
#3	.1207691	.2612630	.0028993	.0364899	.0850826	.002593

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**239.4922**	**.0028747**	F **116.9761**	**42.32989**	**.0145610**	**.0165478**
Stddev	2.6487	.0003583	.9396	.78479	.0001709	.0024263
%RSD	1.105959	12.46243	.8032393	1.853974	1.173333	14.66210
#1	240.8577	.0030257	117.9655	43.23432	.0147164	.0139893
#2	241.1794	.0024657	116.8668	41.92652	.0145885	.0168385
#3	236.4394	.0031328	116.0959	41.82882	.0143781	.0188157

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01DUPDLX10 Acquired: 7/9/2025 13:11:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217290	F 643.9865	.1466682	-.009265	.0005916	.0698066
Stddev	.0006294	2.9629	.0007916	.002713	.0042671	.0123534
%RSD	2.896626	.4600832	.5397103	29.27849	721.3142	17.69666
#1	.0214636	647.2705	.1475820	-.006770	.0035002	.0605586
#2	.0212758	643.1753	.1462284	-.008873	.0025815	.0838361
#3	.0224477	641.5138	.1461940	-.012153	-.004307	.0650252

Elem	Sr4077
Units	ppm
Avg	.0047523
Stddev	.0001037
%RSD	2.181121
#1	.0048406
#2	.0047780
#3	.0046381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3199.276	30781.20	2504.263	1947.948	4297.246
Stddev	15.106	110.78	18.209	5.055	16.727
%RSD	.4721616	.3599041	.7271353	.2595211	.3892511
#1	3186.750	30734.53	2483.939	1943.855	4280.501
#2	3216.052	30907.68	2509.755	1946.389	4313.956
#3	3195.028	30701.39	2519.094	1953.599	4297.280

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01LDLX50 Acquired: 7/9/2025 13:16:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006556**	**-.001990**	**.0063876**	**.0002240**	**-.005512**	**.0712180**
Stddev	.000324	.001871	.0013007	.0064172	.002756	.0153246
%RSD	4.947633	93.98796	20.36356	2865.327	49.99625	21.51793
#1	-.006248	-.000970	.0069324	-.006865	-.002537	.0569399
#2	-.006895	-.000852	.0049030	.005636	-.006022	.0693046
#3	-.006525	-.004150	.0073273	.001902	-.007978	.0874095

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046275**	**.0002129**	**.0001540**	**.0744902**	**.0062226**	**.0001533**
Stddev	.0015081	.0000680	.0000669	.0061458	.0001786	.0003499
%RSD	32.58973	31.92679	43.43448	8.250435	2.869399	228.2136
#1	.0062726	.0002884	.0000920	.0810950	.0062935	-.000142
#2	.0033103	.0001566	.0002248	.0689399	.0063549	.000540
#3	.0042998	.0001937	.0001452	.0734358	.0060195	.000062

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0300258**	**.0596042**	**.0008608**	**.0267348**	**.0165180**	**-.000197**
Stddev	.0001588	.0017652	.0002412	.0252098	.0006122	.000548
%RSD	.5289712	2.961567	28.01838	94.29608	3.706291	278.1022
#1	.0301827	.0605472	.0010070	.0310460	.0167635	.000231
#2	.0298652	.0606977	.0005824	.0495110	.0158211	-.000008
#3	.0300296	.0575678	.0009930	-.000353	.0169693	-.000815

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.68738**	**.0011534**	F **41.04126**	**8.171000**	**.0047837**	**.0000841**
Stddev	.50048	.0041711	.23914	.092032	.0014773	.0021081
%RSD	.9873855	361.6358	.5826913	1.126330	30.88062	2505.068
#1	51.24454	.0018614	41.30186	8.276672	.0037230	-.000163
#2	50.27591	-.003326	40.99006	8.127913	.0064710	-.001889
#3	50.54169	.004925	40.83187	8.108415	.0041572	.002305

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01LDLX50 Acquired: 7/9/2025 13:16:02 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041212	F 128.7356	.0290601	-.009473	.0033742	.0409885
Stddev	.0013341	.8270	.0055584	.000843	.0045064	.0058459
%RSD	32.37161	.6424292	19.12710	8.899916	133.5532	14.26239
#1	.0040292	129.5844	.0302593	-.009979	.0012202	.0443391
#2	.0028354	128.6903	.0230000	-.008500	.0085533	.0342382
#3	.0054988	127.9322	.0339210	-.009941	.0003490	.0443881

Elem	Sr4077
Units	ppm
Avg	.0013476
Stddev	.0001830
%RSD	13.57833
#1	.0014758
#2	.0014289
#3	.0011380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3301.819	32327.27	2509.032	2019.920	4709.547
Stddev	17.113	36.77	15.583	9.879	21.759
%RSD	.5182797	.1137437	.6210886	.4890648	.4620211
#1	3316.474	32285.19	2498.451	2021.708	4732.006
#2	3283.012	32353.19	2526.927	2009.269	4688.562
#3	3305.971	32343.43	2501.718	2028.783	4708.074

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01MSDLX10 Acquired: 7/9/2025 13:20:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0740604**	**.2129460**	**.1401544**	**.2173257**	**.0674145**	**.2701185**
Stddev	.0042586	.0031532	.0072265	.0044957	.0037215	.0163651
%RSD	5.750134	1.480750	5.156122	2.068670	5.520343	6.058487
#1	.0784485	.2159000	.1474782	.2206756	.0715794	.2656852
#2	.0699444	.2133125	.1399558	.2190851	.0662485	.2564268
#3	.0737882	.2096256	.1330292	.2122163	.0644156	.2882435

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0319580**	**.0234277**	**.0229969**	**.7000468**	**.0784118**	**.0244976**
Stddev	.0011065	.0002304	.0004198	.0042832	.0004496	.0004004
%RSD	3.462222	.9833598	1.825408	.6118517	.5734073	1.634603
#1	.0331507	.0231789	.0234706	.6972089	.0780219	.0249380
#2	.0309649	.0236336	.0228489	.6979577	.0789036	.0241554
#3	.0317585	.0234706	.0226711	.7049737	.0783099	.0243995

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1859452**	**.6700723**	**.0279578**	**.3588586**	**.1565450**	**.0090363**
Stddev	.0013533	.0014003	.0014360	.1029995	.0025561	.0008869
%RSD	.7277916	.2089696	5.136202	28.70198	1.632834	9.815055
#1	.1854991	.6692072	.0264829	.4470579	.1587163	.0094783
#2	.1874653	.6716878	.0280391	.2456607	.1571908	.0080152
#3	.1848713	.6693219	.0293514	.3838573	.1537280	.0096153

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**301.8951**	**.0328276**	F **126.9872**	**55.75292**	**.7023074**	**.0522529**
Stddev	4.6214	.0037552	1.2305	.62462	.0152132	.0010155
%RSD	1.530807	11.43914	.9690161	1.120338	2.166170	1.943382
#1	303.6092	.0311873	128.0902	55.89403	.7135506	.0514523
#2	305.4146	.0301717	127.2116	56.29492	.7083749	.0533951
#3	296.6615	.0371239	125.6600	55.06982	.6849968	.0519114

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01MSDLX10 Acquired: 7/9/2025 13:20:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0693966	F 769.2994	.2894778	.0698025	.0245508	.0787767
Stddev	.0005863	13.9575	.0037350	.0018945	.0015125	.0102462
%RSD	.8449016	1.814318	1.290243	2.714057	6.160637	13.00669
#1	.0696507	784.0945	.2871530	.0717531	.0259039	.0895084
#2	.0698131	767.4371	.2937861	.0696848	.0229180	.0690971
#3	.0687261	756.3664	.2874943	.0679696	.0248305	.0777244

Elem	Sr4077
Units	ppm
Avg	.0293906
Stddev	.0002876
%RSD	.9785368
#1	.0295950
#2	.0290618
#3	.0295151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3189.774	30404.33	2417.833	1959.437	4233.660
Stddev	8.028	125.69	15.719	13.740	3.830
%RSD	.2516937	.4134094	.6501462	.7011965	.0904632
#1	3199.031	30339.66	2430.633	1947.130	4229.257
#2	3184.714	30324.13	2400.288	1956.922	4236.216
#3	3185.578	30549.19	2422.579	1974.261	4235.508

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01MSDDLX10 Acquired: 7/9/2025 13:25:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0725813**	**.2132476**	**.1409189**	**.2163704**	**.0682907**	**.2772891**
Stddev	.0021732	.0039807	.0010412	.0013983	.0021756	.0190688
%RSD	2.994109	1.866728	.7388773	.6462420	3.185801	6.876873
#1	.0750350	.2113840	.1406665	.2171017	.0704684	.2609004
#2	.0718096	.2178183	.1420631	.2147581	.0661172	.2727486
#3	.0708993	.2105405	.1400270	.2172514	.0682866	.2982183

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0306315**	**.0230734**	**.0229498**	**.7118785**	**.0775026**	**.0245709**
Stddev	.0005669	.0004048	.0002622	.0054614	.0013903	.0003487
%RSD	1.850729	1.754255	1.142284	.7671790	1.793926	1.419194
#1	.0311893	.0232820	.0232346	.7170051	.0780883	.0247708
#2	.0300559	.0233314	.0228963	.7061347	.0785042	.0247737
#3	.0306493	.0226069	.0227186	.7124957	.0759152	.0241682

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1847364**	**.6603174**	**.0298835**	**.3557041**	**.1581351**	**.0081326**
Stddev	.0051580	.0144457	.0033472	.1117354	.0013651	.0008637
%RSD	2.792098	2.187685	11.20091	31.41244	.8632342	10.62030
#1	.1873010	.6717354	.0267417	.4772066	.1594821	.0085769
#2	.1881094	.6651394	.0334040	.2573677	.1581704	.0086836
#3	.1787987	.6440775	.0295048	.3325380	.1567526	.0071372

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**289.6747**	**.0414352**	F **127.4544**	**52.96864**	**.7051333**	**.0509978**
Stddev	4.7697	.0202653	1.5263	1.60199	.0109996	.0021013
%RSD	1.646560	48.90849	1.197494	3.024412	1.559935	4.120347
#1	292.9122	.0604181	128.9254	54.37353	.7136033	.0501343
#2	291.9145	.0437936	127.5594	53.30835	.7090951	.0533932
#3	284.1973	.0200939	125.8784	51.22404	.6927016	.0494658

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01MSDDLX10 Acquired: 7/9/2025 13:25:32 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0695490	F 776.1566	.2864060	.0697657	.0246360	.1006854
Stddev	.0015172	7.6629	.0044541	.0018244	.0035920	.0062684
%RSD	2.181433	.9872926	1.555178	2.615062	14.58039	6.225696
#1	.0710726	783.9390	.2891661	.0682629	.0283318	.1079157
#2	.0695360	775.9117	.2887843	.0717957	.0211577	.0973600
#3	.0680384	768.6190	.2812676	.0692386	.0244185	.0967804

Elem	Sr4077
Units	ppm
Avg	.0299680
Stddev	.0003398
%RSD	1.133827
#1	.0303552
#2	.0298291
#3	.0297196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3116.135	29855.28	2427.309	1897.754	4151.864
Stddev	17.452	143.50	38.278	13.628	20.432
%RSD	.5600404	.4806639	1.576988	.7181230	.4921067
#1	3099.161	29718.72	2406.642	1884.044	4136.857
#2	3115.215	29842.28	2403.806	1897.918	4143.602
#3	3134.028	30004.85	2471.479	1911.299	4175.133

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01ADLX10 Acquired: 7/9/2025 13:30:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0723521	.2169688	.1362941	.2242596	.0652305	.2801132
Stddev	.0036576	.0012710	.0015144	.0073150	.0037909	.0299307
%RSD	5.055239	.5857734	1.111127	3.261842	5.811482	10.68521
#1	.0685384	.2184287	.1378999	.2285998	.0695778	.2614023
#2	.0726874	.2161091	.1360909	.2283650	.0626140	.2643038
#3	.0758304	.2163687	.1348916	.2158141	.0634996	.3146336

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305885	.0231319	.0231461	.6410603	.0748604	.0241798
Stddev	.0007999	.0002172	.0001423	.0374832	.0005619	.0000632
%RSD	2.614929	.9390942	.6148259	5.847056	.7505318	.2613871
#1	.0302054	.0233795	.0233095	.6104740	.0751723	.0242495
#2	.0300523	.0230427	.0230495	.6828741	.0751971	.0241263
#3	.0315079	.0229735	.0230794	.6298329	.0742118	.0241635

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1691242	.6296739	.0271521	.3531651	.1478709	.0084390
Stddev	.0029909	.0052892	.0021336	.0822767	.0010575	.0019549
%RSD	1.768489	.8399915	7.858006	23.29696	.7151313	23.16478
#1	.1725414	.6355544	.0290393	.3252557	.1488088	.0061928
#2	.1678483	.6253054	.0248370	.4457662	.1480791	.0097553
#3	.1669827	.6281618	.0275799	.2884734	.1467248	.0093690

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	259.4446	.0293500	F 120.9657	46.59139	.7121748	.0499312
Stddev	3.6805	.0077879	.3566	.69145	.0040727	.0006990
%RSD	1.418588	26.53446	.2947918	1.484082	.5718669	1.399915
#1	263.4881	.0356282	120.8148	47.28730	.7144796	.0505644
#2	258.5560	.0206351	120.7093	46.58239	.7145723	.0491812
#3	256.2899	.0317867	121.3729	45.90447	.7074723	.0500481

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-01ADLX10 Acquired: 7/9/2025 13:30:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0670042	F 699.2696	.2625877	.0696097	.0219149	.0876751
Stddev	.0007503	4.5797	.0005715	.0011815	.0032878	.0078886
%RSD	1.119751	.6549261	.2176589	1.697303	15.00268	8.997536
#1	.0667750	703.6174	.2632460	.0702669	.0195265	.0893011
#2	.0678424	699.7026	.2622998	.0682457	.0205536	.0946240
#3	.0663953	694.4888	.2622175	.0703164	.0256648	.0791002

Elem	Sr4077
Units	ppm
Avg	.0295131
Stddev	.0002963
%RSD	1.003865
#1	.0298536
#2	.0293718
#3	.0293139

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3123.811	30307.34	2473.321	1926.626	4179.547
Stddev	10.106	125.59	10.106	11.946	13.523
%RSD	.3235189	.4144024	.4086193	.6200264	.3235448
#1	3115.137	30436.26	2465.079	1938.659	4167.759
#2	3121.388	30300.39	2484.597	1926.450	4176.574
#3	3134.908	30185.36	2470.288	1914.769	4194.309

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-02DLX10 Acquired: 7/9/2025 13:35:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010108**	**-.002909**	**.2725931**	**.0072691**	**-.006438**	**.0191918**
Stddev	.001860	.001370	.0012015	.0045087	.001182	.0291945
%RSD	18.39862	47.10720	.4407755	62.02578	18.36293	152.1198
#1	-.008876	-.004450	.2736401	.0022761	-.006844	.0398684
#2	-.012247	-.001827	.2712813	.0110426	-.005106	-.014205
#3	-.009201	-.002450	.2728580	.0084885	-.007363	.031911

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048609**	**.0000581**	**.0146506**	**.1434536**	**.0026146**	**.0020035**
Stddev	.0007287	.0000943	.0001156	.0104074	.0002947	.0003325
%RSD	14.99057	162.2376	.7891122	7.254909	11.26949	16.59616
#1	.0040343	.0001012	.0145616	.1326599	.0025643	.0018275
#2	.0054103	-.000050	.0146090	.1534261	.0029312	.0023870
#3	.0051382	.000123	.0147813	.1442747	.0023484	.0017960

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.083193**	**.1507716**	**.0039923**	**.0314342**	**.0581368**	**.1006591**
Stddev	.010896	.0031222	.0020413	.0406903	.0005343	.0007446
%RSD	.3534067	2.070835	51.13045	129.4461	.9190829	.7397319
#1	3.091949	.1483143	.0017465	.0782388	.0583050	.1011151
#2	3.070990	.1497156	.0044956	.0115952	.0585668	.0997998
#3	3.086638	.1542849	.0057349	.0044686	.0575387	.1010623

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.609482**	**-.002505**	F **52.09661**	**108.6418**	**.1202280**	**.0007283**
Stddev	.021920	.004186	.65722	1.2206	.0015783	.0014182
%RSD	.6073016	167.1165	1.261550	1.123526	1.312761	194.7205
#1	3.631757	-.003428	51.34842	110.0321	.1190516	-.000560
#2	3.587934	.002065	52.58070	107.7460	.1220216	.000497
#3	3.608754	-.006152	52.36072	108.1474	.1196107	.002248

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-02DLX10 Acquired: 7/9/2025 13:35:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004169	.4872287	.0060132	-.004626	-.000910	.0289600
Stddev	.0005221	.0103060	.0030499	.000529	.004062	.0026389
%RSD	125.2378	2.115226	50.71921	11.43000	446.3497	9.112133
#1	-.000048	.4989780	.0086341	-.005206	-.005508	.0320069
#2	.000982	.4829909	.0026656	-.004502	.000588	.0274648
#3	.000317	.4797171	.0067399	-.004170	.002190	.0274081

Elem	Sr4077
Units	ppm
Avg	.0029236
Stddev	.0001746
%RSD	5.973029
#1	.0031247
#2	.0028111
#3	.0028349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3251.628	31757.25	2537.421	1977.107	4515.813
Stddev	11.862	63.85	9.742	4.559	18.632
%RSD	.3648152	.2010534	.3839234	.2306099	.4125930
#1	3259.155	31685.03	2532.200	1982.364	4531.739
#2	3237.953	31780.53	2548.661	1974.741	4495.323
#3	3257.776	31806.19	2531.403	1974.218	4520.377

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-03DLX10 Acquired: 7/9/2025 13:40:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0339294**	**-.003542**	**.0034134**	**.0995802**	**.0605534**	**.1335422**
Stddev	.0023781	.002642	.0026025	.0015546	.0027854	.0161820
%RSD	7.009135	74.59275	76.24370	1.561103	4.599850	12.11753
#1	.0341996	-.004670	.0057191	.0980256	.0636817	.1488613
#2	.0314277	-.005434	.0005914	.0995804	.0583424	.1351482
#3	.0361609	-.000523	.0039297	.1011347	.0596360	.1166171

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0118768**	**.0002722**	**.0183202**	**-.021968**	**.0044607**	**-.000119**
Stddev	.0016793	.0002806	.0000642	.027503	.0008251	.000250
%RSD	14.13932	103.0749	.3501796	125.1981	18.49620	211.3363
#1	.0101719	.0005827	.0182946	-.053706	.0053330	.000138
#2	.0119294	.0001974	.0182729	-.007055	.0043563	-.000362
#3	.0135292	.0000367	.0183932	-.005141	.0036928	-.000131

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0245315**	**.0037468**	**.0002034**	**.0580545**	**-.000536**	**4.035100**
Stddev	.0023324	.0033886	.0022531	.0966482	.001093	.185899
%RSD	9.507827	90.44017	1107.550	166.4784	204.0703	4.607047
#1	.0222839	.0033303	.0011692	-.049753	.000714	4.243822
#2	.0269404	.0005857	-.002372	.136939	-.001009	3.974153
#3	.0243703	.0073245	.001813	.086978	-.001312	3.887325

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**721.9859**	**-.007460**	F **26.63473**	^ *****	**.1507246**	**.0307152**
Stddev	47.7803	.013379	.33314	-----	.0056610	.0017871
%RSD	6.617897	179.3554	1.250781	-----	3.755878	5.818446
#1	684.5739	-.007869	26.99771	^ -----	.1443506	.0290854
#2	775.8090	.006120	26.56354	^ -----	.1526559	.0326263
#3	705.5747	-.020629	26.34294	^ -----	.1551672	.0304339

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-03DLX10 Acquired: 7/9/2025 13:40:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010352	21.82460	.4144992	.0630021	-.000471	.3204240
Stddev	.0004679	.04681	.0343715	.0030745	.006327	.0373556
%RSD	45.19847	.2144735	8.292304	4.880062	1342.106	11.65817
#1	.0014824	21.77731	.3856311	.0599522	-.007705	.2786750
#2	.0005491	21.82560	.4525209	.0629534	.004035	.3506903
#3	.0010741	21.87091	.4053456	.0661007	.002256	.3319067

Elem	Sr4077
Units	ppm
Avg	.0102997
Stddev	.0004508
%RSD	4.377086
#1	.0100920
#2	.0108169
#3	.0099902

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2952.764	26940.96	2287.892	1826.511	3700.526
Stddev	8.211	444.26	166.992	5.799	10.911
%RSD	.2780952	1.649027	7.298942	.3174666	.2948389
#1	2944.496	26493.88	2427.070	1820.609	3691.916
#2	2952.878	26946.65	2102.724	1826.725	3696.867
#3	2960.918	27382.35	2333.882	1832.200	3712.796

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-03DL2X20 Acquired: 7/9/2025 13:44:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084317**	**-.002906**	**.0026188**	**.0846622**	**.0274986**	**.0998529**	**.0085005**
Stddev	.0023440	.001298	.0007765	.0029703	.0009152	.0292710	.0012947
%RSD	27.79970	44.65699	29.64995	3.508377	3.328070	29.31414	15.23033
#1	.0095574	-.003539	.0025190	.0823579	.0275263	.0677801	.0074543
#2	.0057372	-.003765	.0034403	.0836144	.0283996	.1251248	.0080988
#3	.0100004	-.001413	.0018970	.0880144	.0265699	.1066537	.0099484

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000862**	**.0090503**	**-.034145**	**.0019241**	**.0002920**	**.0132331**	**.0009359**
Stddev	.0002087	.0000827	.015074	.0010562	.0001309	.0002657	.0020893
%RSD	242.0028	.9134834	44.14775	54.89458	44.83118	2.008162	223.2453
#1	.0001834	.0090185	-.049442	.0014569	.0003867	.0133508	-.000189
#2	-.000153	.0091441	-.019304	.0011821	.0001426	.0134196	.003347
#3	.000229	.0089882	-.033688	.0031334	.0003467	.0129288	-.000350

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000505**	**-.090369**	**-.000652**	**7.227381**	**408.7799**	**-.014933**	**13.82840**
Stddev	.000787	.055790	.000332	.042628	7.4539	.013332	.10687
%RSD	155.9487	61.73589	50.85295	.5898096	1.823445	89.28147	.7727955
#1	-.000861	-.146800	-.000604	7.270125	400.8867	-.025263	13.77915
#2	-.001050	-.089062	-.000347	7.227145	409.7543	.000117	13.95102
#3	.000398	-.035244	-.001006	7.184871	415.6986	-.019654	13.75505

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0766872**	**.0134465**	**.0008071**	**10.52989**	**.1953699**	**.0190152**
Stddev	-----	.0023712	.0025804	.0002414	.07145	.0008079	.0005387
%RSD	-----	3.092098	19.19017	29.91173	.6785396	.4135414	2.833229
#1	^ -----	.0747486	.0142948	.0010739	10.58341	.1945328	.0185382
#2	^ -----	.0793311	.0105487	.0006036	10.44876	.1961451	.0189078
#3	^ -----	.0759820	.0154960	.0007440	10.55751	.1954318	.0195995

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-03DL2X20 Acquired: 7/9/2025 13:44:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002070	.1504797	.0056740
Stddev	.001677	.0090510	.0000718
%RSD	81.00740	6.014734	1.265652
#1	-.000980	.1565207	.0056752
#2	-.001229	.1400734	.0056016
#3	-.004002	.1548450	.0057452

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.985	28817.96	2504.925	1869.060	3901.446
Stddev	10.779	52.90	18.004	16.328	18.639
%RSD	.3526117	.1835667	.7187371	.8735921	.4777399
#1	3066.101	28852.17	2521.461	1886.633	3922.424
#2	3045.087	28757.03	2507.570	1854.358	3895.122
#3	3059.766	28844.67	2485.746	1866.189	3886.792

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-04DLX5 Acquired: 7/9/2025 13:49:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005585**	**-.001124**	**.0003285**	**.0238615**	**.0063528**	**.0423002**	**.0067933**
Stddev	.0019750	.000346	.0012320	.0021740	.0009631	.0076982	.0017713
%RSD	353.6224	30.77655	374.9876	9.111105	15.16048	18.19887	26.07475
#1	-.001719	-.000740	.0002368	.0214043	.0069577	.0444392	.0062751
#2	.001602	-.001412	.0016039	.0255350	.0052422	.0487026	.0087659
#3	.001793	-.001220	-.000855	.0246453	.0068585	.0337587	.0053389

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002943**	**.0025811**	**-.062911**	**.0005245**	**.0113660**	**.0278646**	**.0054710**
Stddev	.0000843	.0000030	.016764	.0008814	.0004903	.0011366	.0019081
%RSD	28.63621	.1161889	26.64724	168.0505	4.313687	4.078965	34.87595
#1	.0003716	.0025845	-.063475	-.000332	.0116662	.0280053	.0032716
#2	.0003070	.0025799	-.079385	.001429	.0116315	.0266642	.0066829
#3	.0002045	.0025788	-.045872	.000477	.0108002	.0289243	.0064586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017421**	**.0075102**	**-.000252**	**.3686762**	**28.45453**	**-.007783**	**.0211755**
Stddev	.0028888	.0865320	.000265	.0737186	.18813	.006275	.0006136
%RSD	165.8249	1152.192	105.3279	19.99549	.6611510	80.62271	2.897685
#1	.0047773	.0633128	-.000072	.4432059	28.32525	-.014817	.0218625
#2	.0014226	-.092171	-.000556	.3670262	28.67036	-.002763	.0206819
#3	-.000974	.051389	-.000127	.2957964	28.36799	-.005768	.0209821

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**129.3410**	**.0138324**	**-.003078**	**.0005070**	**2.160404**	**-.000572**	**.0001950**
Stddev	1.4695	.0047072	.001269	.0001489	.002261	.002065	.0003749
%RSD	1.136130	34.02994	41.23258	29.35848	.1046729	360.8817	192.3184
#1	129.9584	.0170700	-.004527	.0003967	2.162368	-.001550	.0004943
#2	130.4011	.0084326	-.002163	.0006764	2.160913	.001800	-.000226
#3	127.6636	.0159946	-.002544	.0004481	2.157932	-.001967	.000316

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-04DLX5 Acquired: 7/9/2025 13:49:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006723	.0308661	.0003996
Stddev	.0027947	.0008737	.0001094
%RSD	415.7049	2.830568	27.37863
#1	.0038950	.0298821	.0005136
#2	-.001084	.0311655	.0002954
#3	-.000794	.0315508	.0003900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3308.856	32162.89	2493.697	2037.786	4576.786
Stddev	24.354	284.43	17.403	10.306	35.045
%RSD	.7360286	.8843529	.6978986	.5057305	.7657041
#1	3284.085	32059.01	2497.094	2028.190	4544.001
#2	3309.714	31944.99	2474.845	2036.488	4572.636
#3	3332.771	32484.66	2509.151	2048.679	4613.720

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV04 Acquired: 7/9/2025 14:05:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.862570**	**5.075089**	**4.928366**	**5.046240**	**5.008228**	**10.06158**	**10.71875**
Stddev	.005763	.007430	.007424	.006646	.010928	.02788	.03927
%RSD	.1185134	.1464025	.1506280	.1317119	.2181935	.2770799	.3664030
#1	4.861783	5.073304	4.924843	5.038617	5.001019	10.08129	10.74348
#2	4.857242	5.068714	4.923360	5.049288	5.002864	10.02968	10.67346
#3	4.868686	5.083249	4.936895	5.050816	5.020801	10.07376	10.73930

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2591304**	**2.459933**	**25.67012**	**1.001220**	**2.412000**	**1.280274**	**4.997832**
Stddev	.0019981	.003676	.07073	.002204	.003923	.008039	.042285
%RSD	.7710906	.1494158	.2755510	.2201254	.1626399	.6278753	.8460758
#1	.2581899	2.460710	25.72574	1.001127	2.408777	1.279159	4.978433
#2	.2577761	2.455931	25.59051	.999064	2.410856	1.272851	4.968725
#3	.2614252	2.463158	25.69410	1.003469	2.416368	1.288812	5.046336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.586548**	**24.52236**	**2.418039**	**1.262547**	**25.78863**	**2.582774**	**2.579041**
Stddev	.003320	.16629	.003811	.004403	.56867	.021687	.016134
%RSD	.1283421	.6781343	.1576155	.3487214	2.205118	.8396968	.6255696
#1	2.583410	24.70228	2.416505	1.264046	25.50707	2.560705	2.593605
#2	2.586211	24.37429	2.415234	1.257591	25.41568	2.583558	2.581821
#3	2.590024	24.49051	2.422379	1.266005	26.44315	2.604058	2.561699

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.34770**	**5.184058**	**5.220626**	**5.131066**	**4.886389**	**5.149872**	**5.004881**
Stddev	.39429	.012348	.045263	.001692	.012665	.055863	.003734
%RSD	1.555532	.2381943	.8670042	.0329793	.2591978	1.084736	.0746065
#1	25.03912	5.181350	5.205562	5.130419	4.871907	5.129617	5.006786
#2	25.21207	5.173289	5.184816	5.129793	4.891864	5.106962	5.000579
#3	25.79190	5.197536	5.271501	5.132986	4.895396	5.213036	5.007280

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV04 Acquired: 7/9/2025 14:05:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.252771	5.107012	5.220772
Stddev	.016980	.007503	.019424
%RSD	.3232589	.1469228	.3720496
#1	5.265505	5.098836	5.231634
#2	5.233492	5.108618	5.198346
#3	5.259315	5.113582	5.232334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3297.853	32319.72	2534.622	2022.178	4438.867
Stddev	1.232	113.98	13.691	20.802	2.519
%RSD	.0373481	.3526711	.5401513	1.028695	.0567416
#1	3297.279	32188.13	2535.686	2004.241	4438.488
#2	3299.267	32387.66	2547.751	2017.312	4441.554
#3	3297.014	32383.36	2520.431	2044.982	4436.559

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB04 Acquired: 7/9/2025 14:28:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002711	-.000187	-.000537	.0028122	.0003556	.0472991
Stddev	.001433	.002189	.000481	.0024888	.0019057	.0195211
%RSD	52.87628	1170.242	89.58019	88.49817	535.9414	41.27164
#1	-.003784	.001883	.000016	.0056773	-.000254	.0392061
#2	-.003265	-.002477	-.000772	.0015729	.002491	.0331261
#3	-.001083	.000033	-.000855	.0011864	-.001171	.0695652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025966	-.000047	.0000658	-.002292	.0006237	.0003239
Stddev	.0009193	.000048	.0000526	.015358	.0007777	.0001976
%RSD	35.40486	102.2223	79.97791	670.0199	124.6856	61.02270
#1	.0036580	.000004	.0000221	-.020006	.0001642	.0001556
#2	.0020502	-.000092	.0000511	.005827	.0001853	.0005415
#3	.0020816	-.000054	.0001242	.007302	.0015216	.0002745

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007675	.0013941	.0006853	-.024342	-.000522	.0078579
Stddev	.0004823	.0023176	.0010263	.057994	.000444	.0002491
%RSD	62.83965	166.2440	149.7527	238.2436	85.15376	3.169982
#1	.0002188	.0039188	.0012290	-.039831	-.000391	.0079204
#2	.0011241	.0009003	-.000498	.039823	-.001017	.0075835
#3	.0009597	-.000637	.001325	-.073019	-.000157	.0080698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244155	-.002097	.0005388	.0132453	.0046619	-.007714
Stddev	.0152946	.015194	.0006729	.0010336	.0005670	.000961
%RSD	62.64284	724.4496	124.8898	7.803608	12.16212	12.45577
#1	.0115947	.000895	.0010946	.0142700	.0043860	-.008270
#2	.0413447	-.018564	.0007311	.0122030	.0053140	-.008268
#3	.0203072	.011378	-.000209	.0132629	.0042856	-.006605

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB04 Acquired: 7/9/2025 14:28:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001744	.0068637	-.004201	.0000231	-.000061	F .0387504
Stddev	.0003539	.0048848	.001947	.0006955	.002831	.0025144
%RSD	202.9981	71.16854	46.35918	3010.711	4678.269	6.488809
#1	.0000579	.0061575	-.006067	-.000332	.002971	.0391996
#2	-.000107	.0120632	-.002181	.000825	-.000516	.0360416
#3	.000572	.0023705	-.004354	-.000423	-.002636	.0410100

Elem	Sr4077
Units	ppm
Avg	.0001528
Stddev	.0001248
%RSD	81.66478
#1	.0000192
#2	.0001728
#3	.0002663

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.647	34333.18	2625.140	2124.404	5141.104
Stddev	8.447	24.23	13.327	5.947	16.290
%RSD	.2455814	.0705608	.5076549	.2799228	.3168568
#1	3442.202	34323.66	2621.873	2130.740	5145.247
#2	3446.521	34360.72	2639.797	2118.943	5154.923
#3	3430.217	34315.16	2613.751	2123.529	5123.143

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-06DLX5 Acquired: 7/9/2025 14:33:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-06DLX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000318**	**.0229217**	**.0034663**	**.0022481**	**-.000681**	**.0492516**	**.0038200**
Stddev	.000933	.0031196	.0015287	.0055479	.001443	.0098304	.0002703
%RSD	293.1770	13.60989	44.10232	246.7875	212.0370	19.95950	7.074726
#1	.000688	.0248211	.0049639	.0083633	.000945	.0393436	.0040718
#2	-.000487	.0193213	.0035266	-.002462	-.001176	.0494086	.0035345
#3	-.001155	.0246226	.0019083	.000843	-.001811	.0590024	.0038539

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0013983**	**-.050480**	**.0005484**	**.0004823**	**.1039313**	**-.000054**
Stddev	.000012	.0000322	.016763	.0007582	.0003247	.0019127	.002836
%RSD	144.9135	2.305407	33.20824	138.2706	67.32147	1.840361	5239.759
#1	-.000014	.0014061	-.069626	.0013971	.0001647	.1049582	.003195
#2	.000005	.0013629	-.043372	.0003103	.0008138	.1017244	-.001325
#3	-.000016	.0014259	-.038441	-.000062	.0004685	.1051112	-.002033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007070**	**-.103885**	**.0017221**	**.0553188**	**63.72543**	**-.003706**	**.2371409**
Stddev	.0005318	.058865	.0002310	.0020525	1.78196	.006336	.0007486
%RSD	75.21423	56.66341	13.41226	3.710339	2.796313	170.9949	.3156677
#1	.0012015	-.079634	.0019886	.0545237	61.86209	-.005114	.2377841
#2	.0001445	-.171000	.0015989	.0576500	65.41298	-.009220	.2363192
#3	.0007750	-.061019	.0015790	.0537828	63.90124	.003216	.2373193

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0296532**	**.0363315**	**.0008406**	**1.053574**	**.0085441**	**-.000014**
Stddev	-----	.0039650	.0011767	.0003165	.036163	.0020229	.002602
%RSD	-----	13.37121	3.238774	37.65074	3.432455	23.67600	18241.48
#1	^ -----	.0306036	.0375542	.0011804	1.042668	.0107184	-.001388
#2	^ -----	.0330566	.0362332	.0005542	1.093935	.0067178	-.001641
#3	^ -----	.0252994	.0352070	.0007872	1.024119	.0081960	.002987

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-06DLX5 Acquired: 7/9/2025 14:33:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-06DLX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003226	.0211431	.0002637
Stddev	.001348	.0186631	.0000364
%RSD	41.79471	88.27023	13.80836
#1	-.003748	.0393932	.0002447
#2	-.004236	.0020928	.0003057
#3	-.001695	.0219434	.0002408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.061	30326.96	2339.416	1959.744	3964.076
Stddev	47.554	379.30	15.598	11.225	58.375
%RSD	1.582999	1.250709	.6667579	.5727585	1.472592
#1	3057.056	30527.26	2331.818	1947.538	4016.239
#2	2965.111	29889.49	2357.358	1962.071	3901.023
#3	2990.015	30564.12	2329.073	1969.622	3974.965

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-07DLX5 Acquired: 7/9/2025 14:37:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-07DLX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020598**	**-.001028**	**-.000296**	**.0086792**	**.0019842**	**.0357901**	**.0047104**
Stddev	.0015054	.003459	.000898	.0052812	.0004226	.0309003	.0008677
%RSD	73.08273	336.5983	302.9558	60.84926	21.29982	86.33757	18.42075
#1	.0018388	-.002860	-.000459	.0141829	.0022571	.0292669	.0044256
#2	.0036635	.002962	-.001102	.0036529	.0014974	.0086722	.0040209
#3	.0006772	-.003185	.000672	.0082018	.0021982	.0694312	.0056847

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003807**	**.0000014**	**-.087407**	**.0014427**	**.1229827**	**.0684166**	**.0029705**
Stddev	.0000866	.0000535	.029529	.0002279	.0005161	.0037281	.0023586
%RSD	22.73727	3877.883	33.78391	15.79472	.4196452	5.449051	79.39862
#1	.0004681	.0000050	-.060748	.0011832	.1226002	.0647735	.0049536
#2	.0002950	-.000054	-.119147	.0015352	.1227781	.0682521	.0035956
#3	.0003789	.000053	-.082324	.0016099	.1235697	.0722241	.0003624

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021866**	**-.089370**	**.0008473**	**.0353207**	**28.51355**	**-.008163**	**.0026739**
Stddev	.0013454	.100800	.0007170	.0022626	.61621	.002698	.0001138
%RSD	61.52956	112.7902	84.61766	6.405758	2.161122	33.04622	4.256129
#1	.0036195	-.185186	.0011487	.0340726	28.41796	-.011275	.0027781
#2	.0009504	.015767	.0013643	.0339571	29.17197	-.006728	.0025525
#3	.0019898	-.098690	.0000288	.0379325	27.95071	-.006487	.0026912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.5285349**	**.0242058**	**.0026980**	**.6668697**	**.0029414**	**.0007135**
Stddev	-----	.0123210	.0006274	.0010520	.0102015	.0004426	.0008295
%RSD	-----	2.331158	2.592110	38.99260	1.529759	15.04750	116.2582
#1	^ -----	.5147796	.0235718	.0017103	.6551122	.0032109	-.000232
#2	^ -----	.5322662	.0248265	.0025793	.6721225	.0031827	.001051
#3	^ -----	.5385591	.0242190	.0038043	.6733744	.0024306	.001321

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-07DLX5 Acquired: 7/9/2025 14:37:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-07DLX5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003041	.0526288	.0003041
Stddev	.000693	.0052456	.0001461
%RSD	22.79265	9.967129	48.03019
#1	-.002567	.0471698	.0004368
#2	-.002720	.0530855	.0001476
#3	-.003837	.0576311	.0003279

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3185.116	28861.77	2414.070	1893.518	4232.412
Stddev	13.562	1446.59	53.981	85.275	37.407
%RSD	.4258035	5.012141	2.236082	4.503542	.8838238
#1	3194.115	27376.08	2419.918	1819.239	4268.163
#2	3191.716	30265.81	2464.888	1986.638	4235.529
#3	3169.517	28943.41	2357.403	1874.676	4193.544

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-08 Acquired: 7/9/2025 14:42:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039147**	**.0022514**	**.0103841**	**.0058596**	**.0132980**	**.6086932**
Stddev	.0021006	.0012755	.0032170	.0059638	.0034680	.0536456
%RSD	53.65840	56.65312	30.98028	101.7774	26.07921	8.813246
#1	.0027566	.0036235	.0066709	-.000142	.0151686	.6354579
#2	.0026481	.0020288	.0123308	.005936	.0092963	.5469312
#3	.0063394	.0011018	.0121508	.011785	.0154290	.6436905

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0178255**	**.0002404**	**.0014497**	**.7619884**	**.6207391**	**.0102299**
Stddev	.0002584	.0000158	.0000532	.0163955	.0019732	.0001659
%RSD	1.449477	6.552615	3.667933	2.151676	.3178842	1.622097
#1	.0177877	.0002248	.0013884	.7708071	.6227602	.0100392
#2	.0181006	.0002564	.0014779	.7430709	.6188175	.0103408
#3	.0175880	.0002402	.0014828	.7720872	.6206397	.0103098

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.68672**	**9.494453**	**.1222491**	**.1542804**	**2.079202**	**.0049096**
Stddev	.44012	.034486	.0018959	.0263511	.023861	.0008176
%RSD	1.482551	.3632258	1.550813	17.07999	1.147596	16.65218
#1	29.32376	9.475430	.1231708	.1348860	2.051938	.0058282
#2	29.56013	9.534261	.1235079	.1436731	2.096276	.0042620
#3	30.17626	9.473668	.1200686	.1842821	2.089393	.0046385

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.245956**	**-.016572**	**8.521488**	**55.77186**	**.6660921**	**.0242021**
Stddev	.009531	.004259	.034112	.74005	.0169907	.0011912
%RSD	.1525931	25.70113	.4003007	1.326926	2.550806	4.921824
#1	6.240711	-.013602	8.521301	55.13864	.6484696	.0232792
#2	6.256957	-.021451	8.487469	56.58541	.6674353	.0255468
#3	6.240199	-.014662	8.555692	55.59152	.6823713	.0237803

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-08 Acquired: 7/9/2025 14:42:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-08 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8333537	F 1144.255	.2027950	-.004706	.0516722	.0644309
Stddev	.0071767	78.070	.0019126	.000638	.0020844	.0024859
%RSD	.8611835	6.822807	.9431338	13.55410	4.033943	3.858188
#1	.8283273	1056.459	.2008190	-.004073	.0500452	.0616324
#2	.8415727	1205.869	.2046373	-.004696	.0540217	.0663833
#3	.8301610	1170.438	.2029288	-.005349	.0509496	.0652770

Elem	Sr4077
Units	ppm
Avg	.0095060
Stddev	.0001310
%RSD	1.377887
#1	.0094317
#2	.0094291
#3	.0096572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.388	32279.30	2400.236	2013.393	4401.997
Stddev	176.741	96.90	10.325	8.673	260.283
%RSD	5.773225	.3002072	.4301834	.4307747	5.912829
#1	3247.497	32383.69	2408.533	2023.061	4687.372
#2	2895.809	32261.99	2388.673	2010.822	4177.653
#3	3040.859	32192.22	2403.503	2006.296	4340.966

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-09DLX10 Acquired: 7/9/2025 14:46:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-09DLX1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0101539**	**-.001629**	**.0040759**	**.0766457**	**.0188809**	**.0436760**	**.0201512**
Stddev	.0010281	.001272	.0017018	.0021234	.0032290	.0351765	.0011848
%RSD	10.12518	78.09302	41.75212	2.770416	17.10211	80.53977	5.879711
#1	.0091960	-.002754	.0047503	.0741943	.0226062	.0033454	.0188747
#2	.0112402	-.001885	.0053372	.0779145	.0168825	.0680214	.0212157
#3	.0100254	-.000248	.0021403	.0778283	.0171541	.0596611	.0203632

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001466**	**.0105656**	**-.050883**	**.0018385**	**.0004568**	**.0094534**	**.0057719**
Stddev	.0000928	.0001071	.014031	.0005849	.0002921	.0012573	.0016683
%RSD	63.30337	1.014043	27.57447	31.81332	63.95759	13.29978	28.90436
#1	.0000501	.0106490	-.064866	.0012357	.0004457	.0098338	.0039725
#2	.0002352	.0106030	-.036805	.0018761	.0001703	.0104765	.0060760
#3	.0001545	.0104447	-.050977	.0024036	.0007543	.0080498	.0072673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019433**	**.0586309**	**.0014604**	**1.773808**	**503.1569**	**-.005904**	**10.42259**
Stddev	.0009834	.0939797	.0003692	.032426	3.9793	.014770	.02718
%RSD	50.60664	160.2904	25.28170	1.828034	.7908674	250.1906	.2608115
#1	.0023329	-.029768	.0016442	1.786601	506.8291	.007708	10.39296
#2	.0008247	.048319	.0017015	1.797886	503.7128	-.003809	10.44638
#3	.0026723	.157341	.0010353	1.736938	498.9289	-.021609	10.42842

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.1206520**	**.0194609**	**.0007329**	**2.139772**	**.0337471**	**.0245528**
Stddev	-----	.0054837	.0005150	.0001783	.045208	.0036301	.0002091
%RSD	-----	4.545053	2.646246	24.32625	2.112726	10.75680	.8515057
#1	^ -----	.1268794	.0193421	.0005855	2.188334	.0353435	.0244358
#2	^ -----	.1165458	.0190157	.0009311	2.132076	.0363054	.0247942
#3	^ -----	.1185307	.0200249	.0006822	2.098907	.0295924	.0244284

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-09DLX10 Acquired: 7/9/2025 14:46:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-09DLX1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004393	.1759267	.0005281
Stddev	.002676	.0043817	.0002457
%RSD	60.91559	2.490639	46.52785
#1	-.001308	.1737845	.0002664
#2	-.006090	.1809674	.0007538
#3	-.005782	.1730283	.0005640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.918	27662.38	2434.833	1815.000	3776.068
Stddev	15.924	127.17	25.085	3.418	20.101
%RSD	.5331214	.4597348	1.030262	.1883206	.5323197
#1	2993.423	27517.95	2405.876	1812.251	3780.205
#2	2968.771	27711.57	2448.712	1818.827	3754.221
#3	2998.558	27757.60	2449.912	1813.923	3793.778

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-10DLX5 Acquired: 7/9/2025 14:51:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004132**	**-.005789**	**.0004447**	**.0246422**	**.0103692**	**.1208316**
Stddev	.001551	.000538	.0030719	.0092043	.0042724	.0231642
%RSD	37.53884	9.292606	690.8189	37.35161	41.20321	19.17065
#1	-.005225	-.006333	-.002666	.0265414	.0152904	.1310971
#2	-.002357	-.005257	.000524	.0327488	.0076084	.0943086
#3	-.004815	-.005776	.003476	.0146365	.0082088	.1370891

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0357901**	**.0002566**	**.0000379**	**.0338492**	**.0008667**	**.0004681**
Stddev	.0011714	.0001767	.0000542	.0251214	.0009889	.0002344
%RSD	3.273021	68.84523	142.9434	74.21552	114.0992	50.06568
#1	.0345050	.0002439	-.000015	.0064357	.0001780	.0002135
#2	.0367982	.0000867	.000035	.0393427	.0004223	.0006749
#3	.0360670	.0004393	.000093	.0557693	.0019998	.0005159

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062675**	**.0541162**	**.0083737**	**-.047297**	**.0005928**	**.0540920**
Stddev	.0002314	.0019673	.0022718	.072523	.0009915	.0041197
%RSD	3.692089	3.635346	27.13054	153.3351	167.2570	7.616117
#1	.0061389	.0518738	.0069724	-.116954	.0008360	.0535912
#2	.0065346	.0549231	.0109949	.027786	.0014400	.0584392
#3	.0061289	.0555518	.0071538	-.052722	-.000498	.0502456

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.005195**	**.0294292**	**2.841199**	**.0531393**	**.0189684**
Stddev	-----	.013647	.0005729	.040716	.0015027	.0010578
%RSD	-----	262.7152	1.946570	1.433062	2.827767	5.576826
#1	^ -----	-.020568	.0289407	2.795834	.0523167	.0198916
#2	^ -----	.005492	.0292872	2.853187	.0548737	.0178141
#3	^ -----	-.000508	.0300597	2.874575	.0522276	.0191993

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-10DLX5 Acquired: 7/9/2025 14:51:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2481-10 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018288	F 2692.005	.3878311	-.010265	-.002272	.5043214
Stddev	.0004587	17.779	.0014248	.001639	.004739	.0112514
%RSD	25.08138	.6604304	.3673752	15.96348	208.5560	2.230992
#1	.0023390	2676.303	.3894653	-.010200	-.004292	.5172858
#2	.0014505	2711.309	.3868492	-.011935	-.005667	.4971057
#3	.0016969	2688.404	.3871788	-.008660	.003142	.4985729

Elem	Sr4077
Units	ppm
Avg	.0262904
Stddev	.0001083
%RSD	.4117999
#1	.0261741
#2	.0263087
#3	.0263883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.651	23273.61	2315.101	1582.296	3090.661
Stddev	1.264	94.91	10.078	3.828	4.455
%RSD	.0494463	.4077812	.4353315	.2418964	.1441380
#1	2555.641	23381.88	2317.861	1583.051	3090.356
#2	2558.069	23204.79	2303.930	1578.147	3086.366
#3	2556.244	23234.16	2323.512	1585.689	3095.260

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-05DLX5 Acquired: 7/9/2025 14:56:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168705TB Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0276873	.0199779	.0037668	.0116604	.0596361	.2280805
Stddev	.0012198	.0034275	.0028857	.0059935	.0002949	.0351459
%RSD	4.405712	17.15664	76.60911	51.40027	.4945027	15.40942
#1	.0277103	.0215543	.0055900	.0068291	.0592977	.1882077
#2	.0264561	.0223337	.0052705	.0183674	.0597726	.2414707
#3	.0288955	.0160458	.0004398	.0097847	.0598381	.2545630

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238897	.0000646	-.000324	.8203171	2.770865	.0410893
Stddev	.0013794	.0001384	.000061	.0445760	.012440	.0003831
%RSD	5.773820	214.1753	18.91510	5.434000	.4489412	.9323816
#1	.0224355	-.000027	-.000380	.8450667	2.784602	.0412136
#2	.0251795	.000224	-.000259	.8470270	2.767633	.0406595
#3	.0240540	-.000003	-.000333	.7688576	2.760361	.0413948

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0760557	3.163534	.2279853	.2304990	21.64835	.0146225
Stddev	.0064292	.175881	.0014570	.0456648	.11846	.0007428
%RSD	8.453320	5.559621	.6390634	19.81128	.5472238	5.079842
#1	.0711511	2.989480	.2265573	.2570372	21.60670	.0140977
#2	.0833343	3.341186	.2294696	.1777702	21.55633	.0154724
#3	.0736816	3.159935	.2279292	.2566896	21.78201	.0142975

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	503.0024	-.056264	.6571222	^ *****	.1240237	.1033401
Stddev	42.0451	.017003	.0041840	-----	.0024018	.0046621
%RSD	8.358819	30.22037	.6367137	-----	1.936584	4.511434
#1	464.1646	-.045515	.6590562	^ -----	.1224658	.0982810
#2	547.6504	-.047410	.6599894	^ -----	.1228156	.1074632
#3	497.1924	-.075867	.6523211	^ -----	.1267897	.1042762

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2481-05DLX5 Acquired: 7/9/2025 14:56:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168705TB Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.163519	F 4699.837	.0909936	-.004555	-.013705	.2013779
Stddev	.022666	303.852	.0122579	.001340	.006201	.0106956
%RSD	.3164100	6.465150	13.47119	29.43033	45.25037	5.311208
#1	7.183656	4988.053	.0786822	-.005546	-.020095	.1892330
#2	7.167929	4729.005	.1031974	-.003030	-.013309	.2055082
#3	7.138972	4382.454	.0911013	-.005089	-.007711	.2093924

Elem	Sr4077
Units	ppm
Avg	.0368334
Stddev	.0003634
%RSD	.9866563
#1	.0371790
#2	.0368667
#3	.0364545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.834	28103.85	2168.574	1813.825	3820.552
Stddev	35.250	26.40	129.912	10.614	64.031
%RSD	1.188526	.0939456	5.990646	.5851854	1.675950
#1	2985.721	28133.57	2303.973	1826.008	3855.911
#2	2986.647	28083.12	2044.951	1808.894	3859.107
#3	2925.135	28094.85	2156.797	1806.573	3746.639

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2509-01 Acquired: 7/9/2025 15:00:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2509-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0880339**	**.0040915**	**.4726555**	**.0172838**	**.0151325**	**15.68564**
Stddev	.0020326	.0015472	.0015692	.0014435	.0028401	.00888
%RSD	2.308823	37.81572	.3319869	8.351815	18.76785	.0566213
#1	.0879433	.0046842	.4742151	.0161879	.0132055	15.69574
#2	.0860481	.0023356	.4710770	.0167442	.0183940	15.68211
#3	.0901102	.0052548	.4726745	.0189194	.0137981	15.67906

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1824330**	**.0017930**	**-.000178**	**50.45820**	**.0352081**	**.0381738**
Stddev	.0024817	.0000957	.000079	.12599	.0004729	.0001729
%RSD	1.360332	5.337224	44.55833	.2496941	1.343223	.4529421
#1	.1798618	.0017908	-.000195	50.44575	.0357541	.0380763
#2	.1826229	.0018898	-.000247	50.58995	.0349262	.0380716
#3	.1848143	.0016985	-.000091	50.33890	.0349441	.0383734

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0804733**	**85.93220**	**.8851910**	**8.324136**	**.0432028**	**.0014402**
Stddev	.0042332	1.33301	.0064141	.109799	.0005364	.0011324
%RSD	5.260387	1.551235	.7245951	1.319046	1.241685	78.63242
#1	.0799590	85.50079	.8781491	8.241693	.0436313	.0013853
#2	.0849401	87.42749	.8867249	8.448773	.0426012	.0025991
#3	.0765207	84.86832	.8906991	8.281942	.0433758	.0003362

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**199.3579**	**.0517581**	**.6041443**	**16.76255**	**1.310102**	**1.344668**
Stddev	4.5038	.0120299	.0027549	.43450	.002328	.025200
%RSD	2.259133	23.24262	.4559988	2.592072	.1776909	1.874090
#1	198.8276	.0653894	.6064561	16.38553	1.309444	1.341633
#2	204.1033	.0472580	.6010960	17.23773	1.308174	1.371248
#3	195.1427	.0426271	.6048807	16.66439	1.312689	1.321123

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2509-01 Acquired: 7/9/2025 15:00:59 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2509-01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001329	F 34.66846	F 28.72037	-.002155	.3069826	.0422708
Stddev	.000763	.05785	.40967	.001831	.0034265	.0104561
%RSD	57.40957	.1668658	1.426423	84.95902	1.116174	24.73604
#1	-.001848	34.67133	28.66026	-.002031	.3092322	.0542951
#2	-.000453	34.60923	29.15677	-.004046	.3030391	.0372031
#3	-.001685	34.72482	28.34407	-.000390	.3086765	.0353141

Elem	Sr4077
Units	ppm
Avg	.4670452
Stddev	.0012864
%RSD	.2754432
#1	.4662947
#2	.4663102
#3	.4685306

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3329.646	32042.16	2434.953	2059.798	4338.548
Stddev	25.998	111.00	41.310	1.783	29.700
%RSD	.7807888	.3464329	1.696524	.0865535	.6845665
#1	3341.670	31953.09	2452.427	2060.266	4353.306
#2	3299.813	32166.52	2387.778	2057.828	4304.360
#3	3347.456	32006.88	2464.653	2061.301	4357.980

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01 Acquired: 7/9/2025 15:05:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007265**	**-.003299**	**.0009950**	**-.000071**	**.0042481**	**22.20480**
Stddev	.002007	.002718	.0017514	.002938	.0012839	.02898
%RSD	27.63109	82.37643	176.0269	4163.139	30.22368	.1305015
#1	-.006506	-.006392	.0028721	.003225	.0054916	22.20246
#2	-.005747	-.001293	-.000595	-.001019	.0043253	22.17706
#3	-.009541	-.002213	.000708	-.002417	.0029273	22.23487

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070370**	**.0000629**	**-.000040**	**12.79989**	**.2660619**	**.0069298**
Stddev	.0006565	.0001152	.000089	.04876	.0003608	.0004066
%RSD	9.329457	183.2880	223.5036	.3809098	.1356000	5.867702
#1	.0077223	.0001006	-.000035	12.75364	.2664434	.0066368
#2	.0069751	.0001545	.000047	12.85081	.2657261	.0073941
#3	.0064137	-.000066	-.000132	12.79520	.2660163	.0067586

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0169343**	**.3377271**	**.0167274**	**2.378797**	**.0731815**	**.0015914**
Stddev	.0002802	.0047118	.0007232	.054172	.0018977	.0006006
%RSD	1.654831	1.395160	4.323175	2.277274	2.593154	37.74250
#1	.0167976	.3418996	.0166196	2.426204	.0748363	.0018736
#2	.0167487	.3326169	.0174984	2.390436	.0735980	.0009016
#3	.0172567	.3386649	.0160642	2.319752	.0711101	.0019988

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1353.019**	**.0050783**	**.6401878**	**^ *****	**7.732860**	**5.884275**
Stddev	13.418	.0075946	.0053215	-----	.041565	.051895
%RSD	.9916838	149.5502	.8312386	-----	.5375054	.8819248
#1	1365.000	.0113074	.6340432	^ -----	7.756683	5.868767
#2	1355.536	-.003382	.6432222	^ -----	7.684865	5.841902
#3	1338.521	.007310	.6432978	^ -----	7.757030	5.942156

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01 Acquired: 7/9/2025 15:05:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206364	F 1232.507	1.016138	.0001000	-.003073	.0307395
Stddev	.0005761	9.441	.014208	.0011401	.004364	.0134312
%RSD	2.791896	.7659848	1.398194	1140.377	142.0301	43.69344
#1	.0204280	1241.288	1.010420	.0013152	.001889	.0178036
#2	.0212877	1222.522	1.005680	-.000069	-.006316	.0446164
#3	.0201934	1233.712	1.032313	-.000946	-.004791	.0297986

Elem	Sr4077
Units	ppm
Avg	.0554026
Stddev	.0001776
%RSD	.3205366
#1	.0555156
#2	.0554942
#3	.0551979

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.003	28415.08	2463.101	1860.122	3794.763
Stddev	6.534	235.61	8.365	9.617	13.513
%RSD	.2134619	.8291556	.3395984	.5170250	.3561077
#1	3064.847	28433.24	2466.739	1869.390	3795.802
#2	3064.703	28170.92	2469.030	1850.190	3807.727
#3	3053.458	28641.08	2453.533	1860.787	3780.760

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2488-01 Acquired: 7/9/2025 15:10:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2488-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005724**	**-.000204**	**.0108177**	**.0034703**	**.0002859**	**.0878003**	**.0068558**
Stddev	.0016235	.001280	.0013834	.0051379	.0009456	.0385828	.0003007
%RSD	283.6281	626.9393	12.78822	148.0545	330.6735	43.94384	4.386551
#1	-.001287	-.001633	.0119040	.0000523	-.000733	.1313030	.0071581
#2	.001294	.000836	.0112889	.0009797	.001136	.0743718	.0065566
#3	.001710	.000185	.0092603	.0093787	.000455	.0577261	.0068525

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002101**	**-.000078**	**4.319440**	**-.000053**	**.0083876**	**.0325582**	**2.070250**
Stddev	.0001552	.000059	.073075	.001192	.0005135	.0084654	.334224
%RSD	73.89249	75.16970	1.691781	2255.933	6.122331	26.00087	16.14413
#1	.0000543	-.000093	4.375661	-.000400	.0089787	.0279805	1.916398
#2	.0002111	-.000013	4.345821	.001275	.0080520	.0273672	1.840658
#3	.0003647	-.000128	4.236837	-.001033	.0081320	.0423268	2.453693

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0226186**	**1.533414**	**.0151192**	**.0001701**	**17.71594**	**-.004294**	**.0514590**
Stddev	.0016367	.029776	.0004432	.0009373	2.73098	.018912	.0003123
%RSD	7.235914	1.941787	2.931391	550.8402	15.41539	440.4567	.6068929
#1	.0211963	1.516176	.0155497	.0012014	16.56622	-.023590	.0518066
#2	.0222519	1.567796	.0151435	-.000061	15.74780	-.003501	.0512020
#3	.0244075	1.516270	.0146643	-.000630	20.83381	.014210	.0513686

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.493012**	**.0241062**	**.0303718**	**-.000425**	**4.917829**	**7.714508**	**-.012830**
Stddev	.237056	.0018168	.0068953	.000287	.009510	1.230616	.000624
%RSD	15.87768	7.536720	22.70288	67.45777	.1933873	15.95197	4.864095
#1	1.398718	.0220605	.0282049	-.000282	4.921062	7.141888	-.012248
#2	1.317614	.0247264	.0248203	-.000238	4.925303	6.874543	-.013489
#3	1.762706	.0255318	.0380903	-.000755	4.907124	9.127092	-.012753

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2488-01 Acquired: 7/9/2025 15:10:08 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2488-01 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002575	.0070925	.0237808
Stddev	.0094751	.0195689	.0001530
%RSD	3679.611	275.9106	.6434694
#1	.0045315	.0052786	.0236217
#2	.0068427	.0275052	.0237937
#3	-.010602	-.011506	.0239269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3453.954	34398.60	2198.975	2142.963	5118.899
Stddev	22.965	127.41	317.750	11.535	32.533
%RSD	.6648790	.3703917	14.44991	.5382953	.6355483
#1	3462.643	34400.38	2339.139	2147.532	5125.222
#2	3471.306	34270.31	2422.542	2129.842	5147.807
#3	3427.912	34525.11	1835.242	2151.513	5083.669

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168705TB Acquired: 7/9/2025 15:14:31 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2488-02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002612	-.003844	-.001505	.0073131	.0004438	.0276762	.0036984
Stddev	.004608	.001350	.002622	.0013606	.0013081	.0315804	.0014094
%RSD	176.4023	35.13121	174.2414	18.60498	294.7286	114.1068	38.10815
#1	.002708	-.004614	.000983	.0057737	-.000872	.0347725	.0035696
#2	-.005312	-.004634	-.001254	.0078110	.001744	-.006849	.0023579
#3	-.005232	-.002285	-.004243	.0083546	.000460	.055105	.0051678

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000181	-.000019	-.038774	.0007212	.0002121	.0021745	.0080895
Stddev	.0000578	.000164	.022484	.0006975	.0003673	.0013969	.0026382
%RSD	319.2761	859.8808	57.98813	96.71154	173.1866	64.24039	32.61192
#1	.0000740	.000090	-.017651	.0011139	.0006347	.0031302	.0082374
#2	.0000218	-.000208	-.036261	.0011339	-.000030	.0005713	.0053806
#3	-.000041	.000061	-.062409	-.000084	.000032	.0028219	.0106507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033064	-.025602	.0003878	.0001565	413.1314	-.006560	.0141807
Stddev	.0021315	.049240	.0012335	.0010149	3.7530	.007058	.0005369
%RSD	64.46495	192.3262	318.1121	648.4031	.9084199	107.5883	3.786354
#1	.0051633	-.008174	-.000008	.0008660	412.4245	-.001861	.0136372
#2	.0009790	-.081186	-.000599	.0006096	417.1875	-.014676	.0147108
#3	.0037768	.012553	.001771	-.001006	409.7821	-.003143	.0141941

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1806220	.0155376	.0032849	.0009008	.6288998	.0092637	-.012895
Stddev	.0014986	.0024371	.0026003	.0004009	.0055124	.0014267	.000700
%RSD	.8296878	15.68482	79.16001	44.50560	.8765076	15.40063	5.430070
#1	.1792257	.0127931	.0019257	.0005095	.6351699	.0079408	-.012752
#2	.1822054	.0163716	.0062832	.0013106	.6267141	.0107753	-.012276
#3	.1804348	.0174482	.0016458	.0008822	.6248155	.0090750	-.013655

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168705TB Acquired: 7/9/2025 15:14:31 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2488-02 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000198	.0231152	.0002795
Stddev	.0020090	.0041922	.0002984
%RSD	10125.45	18.13596	106.7570
#1	.0018753	.0272246	.0006142
#2	.0002978	.0188449	.0001832
#3	-.002114	.0232761	.0000412

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3174.846	30548.48	2417.054	1962.636	4226.171
Stddev	14.088	123.26	8.641	18.762	15.478
%RSD	.4437478	.4034849	.3574908	.9559729	.3662417
#1	3191.103	30571.07	2427.012	1958.533	4243.007
#2	3167.234	30415.48	2412.621	1946.265	4222.948
#3	3166.200	30658.87	2411.530	1983.110	4212.558

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV05 Acquired: 7/9/2025 15:27:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.066734**	**5.274388**	**5.133286**	**5.255948**	**5.170873**	**10.23752**
Stddev	.006731	.003791	.020046	.019512	.003568	.06992
%RSD	.1328537	.0718684	.3905151	.3712343	.0690024	.6829683
#1	5.069629	5.270644	5.156420	5.252493	5.169808	10.16172
#2	5.059039	5.274298	5.122410	5.238395	5.167958	10.29950
#3	5.071533	5.278223	5.121028	5.276957	5.174852	10.25134

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.82570**	**.2718559**	**2.564010**	**26.09402**	**1.029424**	**2.498975**
Stddev	.04840	.0032302	.003982	.11006	.004865	.000637
%RSD	.4470820	1.188193	.1552851	.4217918	.4726274	.0254733
#1	10.79807	.2698825	2.567446	25.98481	1.023946	2.498316
#2	10.88159	.2755836	2.559646	26.20491	1.031082	2.499587
#3	10.79745	.2701016	2.564937	26.09235	1.033243	2.499023

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.337004**	**5.356390**	**2.604754**	**25.11998**	**2.510502**	**1.278543**
Stddev	.013154	.052973	.012461	.18989	.002036	.002528
%RSD	.9838353	.9889636	.4783759	.7559389	.0811140	.1977178
#1	1.329383	5.321095	2.592442	24.91685	2.511978	1.276555
#2	1.352193	5.417302	2.617358	25.15005	2.508179	1.277685
#3	1.329437	5.330772	2.604461	25.29305	2.511350	1.281388

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.10828**	**2.597762**	**2.624957**	**26.80877**	**5.460780**	**5.447100**
Stddev	.27432	.019900	.005503	.08038	.006740	.047645
%RSD	1.011931	.7660566	.2096339	.2998211	.1234210	.8746849
#1	26.84415	2.576493	2.626458	26.87918	5.465733	5.416759
#2	27.39176	2.615929	2.618860	26.82593	5.453105	5.502015
#3	27.08892	2.600866	2.629554	26.72120	5.463502	5.422526

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV05 Acquired: 7/9/2025 15:27:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.281681	F 5.620592	5.406479	5.216543	5.312447	5.195407
Stddev	.008145	.029651	.064323	.013266	.022053	.018609
%RSD	.1542120	.5275346	1.189742	.2543078	.4151239	.3581893
#1	5.276393	5.653818	5.354875	5.230904	5.290717	5.174037
#2	5.277589	5.596825	5.478544	5.204746	5.334810	5.208046
#3	5.291060	5.611134	5.386019	5.213979	5.311814	5.204137

Elem	Sr4077
Units	ppm
Avg	5.296927
Stddev	.022539
%RSD	.4255061
#1	5.276205
#2	5.320924
#3	5.293652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3270.082	32079.84	2467.848	2012.819	4385.961
Stddev	3.274	94.01	19.029	5.406	4.805
%RSD	.1001205	.2930402	.7710614	.2685931	.1095440
#1	3271.863	32108.36	2479.120	2007.247	4388.303
#2	3272.079	32156.29	2445.878	2018.043	4380.434
#3	3266.304	31974.88	2478.546	2013.168	4389.145

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB05 Acquired: 7/9/2025 15:33:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000028**	**-.000258**	**-.001607**	**.0055006**	**.0008326**	**.0266149**
Stddev	.003350	.000380	.003109	.0052645	.0020845	.0335899
%RSD	11795.11	147.1601	193.4438	95.70873	250.3709	126.2069
#1	.000895	-.000656	-.003894	-.000454	.0032288	-.011464
#2	.002762	.000102	-.002860	.007420	-.000562	.052039
#3	-.003743	-.000221	.001933	.009536	-.000169	.039270

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036794**	**.0002356**	**.0000040**	**-.005215**	**.0004562**	**-.000055**
Stddev	.0012356	.0001588	.0000248	.007609	.0004301	.000149
%RSD	33.58059	67.40704	619.3825	145.9121	94.26311	270.0273
#1	.0051021	.0001854	.0000291	-.000200	.0000991	.000034
#2	.0030599	.0004135	.0000034	-.013971	.0009337	-.000227
#3	.0028761	.0001080	-.000020	-.001475	.0003359	.000027

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016220**	**.0021166**	**.0012028**	**.0632607**	**-.000410**	**.0069244**
Stddev	.0006514	.0015151	.0005887	.0698168	.000738	.0009441
%RSD	40.15995	71.58192	48.94544	110.3635	179.9048	13.63468
#1	.0008961	.0038288	.0010440	.1338772	.000399	.0059632
#2	.0018144	.0009492	.0018546	.0616329	-.000582	.0069594
#3	.0021556	.0015719	.0007098	-.005728	-.001047	.0078505

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1739197**	**-.002982**	**.0001003**	**.0411499**	**.0053747**	F **.0147806**
Stddev	.0203432	.010050	.0001710	.0006868	.0016423	.0033480
%RSD	11.69686	337.0341	170.4873	1.669077	30.55595	22.65108
#1	.1595419	-.014303	.0002070	.0415298	.0055871	.0182078
#2	.1650212	.000472	-.000097	.0403570	.0036366	.0115179
#3	.1971959	.004885	.000191	.0415628	.0069005	.0146161

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB05 Acquired: 7/9/2025 15:33:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005202	F .3319723	-.000975	-.008216	-.002751	F .0369407
Stddev	.0001216	.0112059	.001636	.001416	.004624	.0063070
%RSD	23.38263	3.375562	167.7739	17.23291	168.0748	17.07319
#1	.0006394	.3430468	-.000138	-.006664	.001903	.0415350
#2	.0003963	.3322305	-.002860	-.009436	-.007345	.0297500
#3	.0005250	.3206394	.000073	-.008549	-.002811	.0395372

Elem	Sr4077
Units	ppm
Avg	.0000984
Stddev	.0000695
%RSD	70.67169
#1	.0000266
#2	.0001654
#3	.0001032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3378.806	33406.69	2493.583	2095.177	4995.041
Stddev	13.010	136.58	11.852	2.003	19.155
%RSD	.3850568	.4088387	.4753123	.0956035	.3834721
#1	3365.193	33534.43	2505.258	2093.606	4974.150
#2	3380.110	33422.90	2493.930	2097.433	5011.777
#3	3391.116	33262.72	2481.561	2094.492	4999.196

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-01 Acquired: 7/9/2025 15:37:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2503-01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4281283	k -.025849	k 27.79228	.1202379	k .0409250	^ *****
Stddev	.0068043	.006758	.43655	.0170316	.0030386	-----
%RSD	1.589323	26.14420	1.570775	14.16490	7.424764	-----
#1	.4258354	-.022039	27.37827	.1090544	.0375071	179.0708
#2	.4227667	-.021856	27.75024	.1118200	.0433206	179.8238
#3	.4357830	k -.033651	k 28.24833	.1398394	k .0419474	^ -----

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0222261	.0287332	^ *****	s .4785725	.2838912
Stddev	-----	.0025965	.0009880	-----	.0887645	.0024339
%RSD	-----	11.68213	3.438647	-----	18.54778	.8573240
#1	7.448413	.0207509	.0295225	364.9337	.4235595	.2818111
#2	7.494436	.0207032	.0290520	366.6995	.4311836	.2832947
#3	^ -----	.0252241	.0276252	^ -----	s .5809744	.2865679

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	352.4683	5.649482	28.91410	1.184352	s .0325810
Stddev	-----	36.6282	.017816	.29438	.010247	.0012971
%RSD	-----	10.39190	.3153641	1.018114	.8652316	3.981063
#1	5.444373	323.7730	5.646255	29.17576	1.173843	.0312209
#2	5.417663	339.9078	5.668691	28.97117	1.184896	.0327179
#3	^ -----	393.7243	5.633499	28.59536	1.194316	s .0338042

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.87902	k .8137090	F 18.71691	40.71824	kF 47.11187	k .3603597
Stddev	4.56758	.0082942	.19965	3.07646	.85577	.0357633
%RSD	11.45360	1.019315	1.066669	7.555487	1.816454	9.924348
#1	35.74242	.8067684	18.51530	37.74717	46.35985	.3323428
#2	39.11374	.8114639	18.91453	40.51733	46.93273	.3480944
#3	44.78091	k .8228947	18.72090	43.89024	k 48.04302	k .4006418

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-01 Acquired: 7/9/2025 15:37:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2503-01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0689871	F 27.98382	F 114.5127	.3390041	2.639575	.4056034
Stddev	.0005952	.55783	14.0661	.0085812	.022530	.0291970
%RSD	.8626921	1.993399	12.28346	2.531293	.8535498	7.198424
#1	.0687806	27.50414	106.1735	.3308570	2.650027	.4213705
#2	.0696580	27.85137	106.6116	.3381935	2.654981	.4235272
#3	.0685227	28.59596	130.7528	.3479618	2.613718	.3719126

Elem	Sr4077
Units	ppm
Avg	^ *****
Stddev	-----
%RSD	-----
#1	3.195050
#2	3.212419
#3	^ -----

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4399.730	^ *****	3142.002	2723.683	4081.473
Stddev	24.282	-----	343.016	32.930	36.810
%RSD	.5519010	-----	10.91712	1.209013	.9018852
#1	4404.675	41807.53	3392.465	2761.679	4105.867
#2	4421.160	40218.07	3282.497	2705.942	4099.420
#3	4373.357	^ -----	2751.042	2703.427	4039.131

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01DUP Acquired: 7/9/2025 15:43:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01DUP Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007596	-.002384	-.000358	.0002253	.0061682	22.35854
Stddev	.000578	.001426	.001741	.0053451	.0023531	.13307
%RSD	7.606349	59.83075	486.8823	2372.726	38.14956	.5951473
#1	-.007564	-.003435	.001242	.0020978	.0067252	22.50995
#2	-.008188	-.000760	-.000104	.0043822	.0081928	22.26020
#3	-.007034	-.002956	-.002211	-.005804	.0035865	22.30546

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060119	.0001202	-.000030	12.94616	.2702151	.0072166
Stddev	.0010246	.0001533	.000107	.07289	.0011415	.0005303
%RSD	17.04272	127.5558	354.0331	.5630165	.4224309	7.347785
#1	.0050808	.0000732	.000064	13.00989	.2715187	.0078277
#2	.0071096	.0002914	-.000146	12.86669	.2693950	.0068787
#3	.0058452	-.000004	-.000009	12.96191	.2697315	.0069432

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180563	.3524212	.0176031	2.401901	.0747653	.0002799
Stddev	.0007500	.0009015	.0017637	.039197	.0008409	.0006533
%RSD	4.153672	.2557997	10.01941	1.631906	1.124687	233.4225
#1	.0171950	.3516453	.0157310	2.438154	.0748994	.0010340
#2	.0184091	.3522082	.0192335	2.407242	.0738654	-.000114
#3	.0185649	.3534101	.0178448	2.360308	.0755310	-.000080

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1428.424	-.003259	.6438771	^ *****	7.859981	6.181650
Stddev	18.183	.015312	.0054405	-----	.045874	.057183
%RSD	1.272947	469.7790	.8449581	-----	.5836364	.9250400
#1	1443.498	-.002082	.6488682	^ -----	7.848488	6.194916
#2	1408.230	.011430	.6380777	^ -----	7.820946	6.119000
#3	1433.542	-.019126	.6446855	^ -----	7.910508	6.231033

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01DUP Acquired: 7/9/2025 15:43:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01DUP Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0209829	F 1251.781	1.080196	-.001832	-.000302	.0168272
Stddev	.0002938	5.382	.012999	.001262	.004472	.0101237
%RSD	1.400394	.4299484	1.203356	68.86087	1483.084	60.16257
#1	.0206656	1250.562	1.084115	-.003276	-.002261	.0052903
#2	.0210373	1247.114	1.065689	-.000944	-.003459	.0242276
#3	.0212457	1257.669	1.090785	-.001277	.004816	.0209637

Elem	Sr4077
Units	ppm
Avg	.0564484
Stddev	.0000759
%RSD	.1344119
#1	.0565346
#2	.0564186
#3	.0563918

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3048.205	28378.02	2384.321	1888.397	3773.523
Stddev	7.921	234.09	9.672	18.315	15.291
%RSD	.2598478	.8248837	.4056394	.9698506	.4052167
#1	3052.775	28225.45	2375.046	1879.788	3784.526
#2	3052.782	28261.08	2383.573	1875.972	3779.980
#3	3039.059	28647.54	2394.345	1909.429	3756.062

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01LX5 Acquired: 7/9/2025 15:47:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01LX5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001544**	**-.002158**	**-.002256**	**.0058429**	**.0031189**	**4.574201**
Stddev	.005157	.001112	.001336	.0063520	.0022609	.003045
%RSD	333.8899	51.55645	59.22247	108.7144	72.48944	.0665704
#1	-.005152	-.003216	-.000720	.0016085	.0014103	4.570692
#2	.004362	-.000998	-.003145	.0027734	.0056826	4.576145
#3	-.003843	-.002259	-.002903	.0131466	.0022639	4.575767

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036849**	**.0003247**	**.0000050**	**2.561271**	**.0545831**	**.0016124**
Stddev	.0025353	.0003150	.0000963	.008706	.0004182	.0002577
%RSD	68.80184	97.02081	1945.425	.3398951	.7661704	15.98257
#1	.0066104	.0005023	.0001156	2.558414	.0550264	.0013668
#2	.0021303	-.000039	-.000060	2.571046	.0541956	.0018807
#3	.0023139	.000511	-.000040	2.554353	.0545272	.0015898

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059585**	**.0785120**	**.0039535**	**.4791997**	**.0145162**	**.0017271**
Stddev	.0014206	.0030891	.0016286	.1024881	.0006657	.0008382
%RSD	23.84068	3.934507	41.19221	21.38734	4.585633	48.53242
#1	.0050696	.0817788	.0034512	.3626828	.0142562	.0008275
#2	.0052091	.0781187	.0026353	.5553930	.0152726	.0018677
#3	.0075969	.0756384	.0057741	.5195233	.0140198	.0024861

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**447.4621**	**-.008506**	**.1279945**	**50.48873**	**1.463645**	**1.387195**
Stddev	10.4504	.000044	.0009122	.62574	.002295	.027814
%RSD	2.335489	.5163325	.7127273	1.239364	.1567926	2.005084
#1	447.0670	-.008535	.1285732	50.29922	1.466150	1.393865
#2	458.1045	-.008528	.1284674	51.18732	1.463140	1.411068
#3	437.2149	-.008456	.1269429	49.97965	1.461644	1.356652

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01LX5 Acquired: 7/9/2025 15:47:38 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01LX5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047427	F 252.4787	.2265662	.0024439	-.004029	.1091640
Stddev	.0010504	.6840	.0037974	.0012717	.001623	.0072949
%RSD	22.14649	.2709324	1.676079	52.03559	40.29144	6.682529
#1	.0035832	251.8101	.2294472	.0036738	-.005903	.1053586
#2	.0056304	253.1772	.2279885	.0011341	-.003147	.1175747
#3	.0050147	252.4490	.2222630	.0025240	-.003038	.1045585

Elem	Sr4077
Units	ppm
Avg	.0116467
Stddev	.0003897
%RSD	3.345991
#1	.0112423
#2	.0120198
#3	.0116781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3218.449	30405.15	2418.683	1963.792	4206.716
Stddev	9.841	116.50	41.806	8.710	15.832
%RSD	.3057807	.3831430	1.728456	.4435181	.3763408
#1	3220.578	30290.85	2411.218	1954.570	4205.565
#2	3207.718	30523.72	2381.112	1964.926	4191.491
#3	3227.052	30400.87	2463.718	1971.879	4223.092

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01MS Acquired: 7/9/2025 15:52:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01MS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9281858**	**2.028655**	**1.055660**	**2.209720**	**.8584854**	**25.40700**
Stddev	.0069776	.005951	.005552	.011343	.0051796	.04415
%RSD	.7517451	.2933310	.5259158	.5133367	.6033368	.1737567
#1	.9237158	2.024851	1.055714	2.197264	.8570306	25.38864
#2	.9246156	2.025601	1.050081	2.212439	.8541887	25.45736
#3	.9362261	2.035512	1.061185	2.219456	.8642367	25.37499

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2266010**	**.2192215**	**.2309782**	**14.65597**	**.6997641**	**.2215095**
Stddev	.0016205	.0077230	.0006251	.03630	.0028910	.0007465
%RSD	.7151375	3.522899	.2706448	.2477021	.4131370	.3370036
#1	.2250162	.2276316	.2305084	14.66465	.6982621	.2206558
#2	.2282550	.2124482	.2307386	14.61612	.6979332	.2218335
#3	.2265318	.2175846	.2316877	14.68716	.7030969	.2220393

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3171467**	**3.706829**	**.3796444**	**4.497857**	**.6229856**	**.0747123**
Stddev	.0124409	.135321	.0050549	.063155	.0004784	.0024766
%RSD	3.922768	3.650588	1.331477	1.404104	.0767840	3.314912
#1	.3306796	3.855407	.3757220	4.436019	.6227803	.0754524
#2	.3062063	3.590643	.3853490	4.495302	.6235323	.0767345
#3	.3145541	3.674439	.3778621	4.562251	.6226442	.0719500

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1486.192**	**.3225816**	**.8999117**	**^ *****	**15.92655**	**6.739001**
Stddev	79.548	.0092478	.0027788	-----	.08563	.240430
%RSD	5.352493	2.866819	.3087917	-----	.5376854	3.567745
#1	1572.260	.3176303	.8968724	^ -----	15.88326	6.996008
#2	1415.370	.3332509	.9023224	^ -----	15.87120	6.519573
#3	1470.946	.3168636	.9005403	^ -----	16.02518	6.701421

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01MS Acquired: 7/9/2025 15:52:19 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01MS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4503428	F 1304.145	2.036136	.8093726	.2112717	.2259365
Stddev	.0011917	9.463	.075674	.0008624	.0033316	.0122786
%RSD	.2646228	.7256407	3.716543	.1065499	1.576918	5.434525
#1	.4497305	1298.368	2.117100	.8091976	.2148502	.2198696
#2	.4495818	1299.002	1.967192	.8086111	.2082597	.2400676
#3	.4517162	1315.067	2.024115	.8103090	.2107052	.2178723

Elem	Sr4077
Units	ppm
Avg	.2766551
Stddev	.0004741
%RSD	.1713674
#1	.2763444
#2	.2772008
#3	.2764201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2937.660	27478.98	2283.453	1804.940	3638.428
Stddev	29.700	114.97	92.985	8.329	32.300
%RSD	1.010995	.4183820	4.072136	.4614284	.8877549
#1	2949.963	27346.76	2181.715	1795.330	3653.474
#2	2959.231	27555.34	2364.042	1809.447	3660.461
#3	2903.786	27534.84	2304.602	1810.045	3601.350

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01MSD Acquired: 7/9/2025 15:56:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01MSD Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9000701**	**1.980550**	**1.024960**	**2.141561**	**.8362972**	**24.80672**
Stddev	.0070173	.008054	.004001	.007351	.0047557	.24762
%RSD	.7796340	.4066703	.3903810	.3432650	.5686623	.9981861
#1	.9001218	1.975135	1.024421	2.135062	.8417472	24.52080
#2	.8930271	1.976710	1.021255	2.149540	.8329893	24.95096
#3	.9070613	1.989806	1.029203	2.140082	.8341551	24.94840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2221072**	**.2099142**	**.2239399**	**14.25051**	**.6910323**	**.2162929**
Stddev	.0026984	.0004862	.0004623	.10748	.0037141	.0003990
%RSD	1.214907	.2316039	.2064299	.7542341	.5374641	.1844855
#1	.2189925	.2096848	.2237093	14.13916	.6911107	.2158483
#2	.2237381	.2104726	.2236382	14.35365	.6872796	.2164101
#3	.2235910	.2095852	.2244721	14.25871	.6947064	.2166201

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3020144**	**3.624040**	**.4722110**	**4.356240**	**.6086165**	**.0728126**
Stddev	.0015246	.008917	.0056445	.103715	.0010968	.0014417
%RSD	.5048003	.2460611	1.195341	2.380839	.1802054	1.979945
#1	.3022629	3.632514	.4657115	4.236572	.6083892	.0712036
#2	.3003809	3.624871	.4750393	4.412007	.6076512	.0732477
#3	.3033995	3.614737	.4758823	4.420141	.6098091	.0739866

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1421.874**	**.3278709**	**.8818596**	**^ *****	**15.44539**	**6.464366**
Stddev	6.679	.0108001	.0051079	-----	.04649	.008856
%RSD	.4696977	3.294021	.5792188	-----	.3009765	.1369952
#1	1425.669	.3396058	.8827429	^ -----	15.41480	6.474581
#2	1425.791	.3256591	.8763676	^ -----	15.42249	6.458845
#3	1414.163	.3183480	.8864682	^ -----	15.49889	6.459673

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01MSD Acquired: 7/9/2025 15:56:43 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01MSD Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4436647	F 1263.443	1.948164	.7823677	.2069783	.2259067
Stddev	.0009718	3.294	.000661	.0005964	.0050231	.0021470
%RSD	.2190485	.2606838	.0339513	.0762257	2.426893	.9504047
#1	.4436661	1262.794	1.947613	.7816971	.2012130	.2263303
#2	.4426921	1260.522	1.947983	.7825673	.2104111	.2235795
#3	.4446358	1267.012	1.948898	.7828386	.2093108	.2278104

Elem	Sr4077
Units	ppm
Avg	.2698797
Stddev	.0021209
%RSD	.7858725
#1	.2674343
#2	.2712183
#3	.2709864

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3022.715	28179.63	2408.770	1864.859	3754.712
Stddev	9.780	47.95	9.375	4.496	10.720
%RSD	.3235490	.1701525	.3892113	.2410767	.2854983
#1	3011.663	28232.56	2408.937	1869.381	3742.617
#2	3026.227	28167.22	2399.312	1860.390	3763.037
#3	3030.253	28139.10	2418.061	1864.806	3758.483

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01A Acquired: 7/9/2025 16:01:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8923133**	**1.961262**	**1.017674**	**2.129173**	**.8228201**	**23.90232**
Stddev	.0010796	.006536	.007351	.009181	.0053556	.10527
%RSD	.1209906	.3332459	.7223057	.4312059	.6508820	.4404199
#1	.8934214	1.954570	1.022356	2.125868	.8186549	23.98353
#2	.8922540	1.967630	1.021463	2.139549	.8288613	23.78339
#3	.8912646	1.961587	1.009201	2.122101	.8209441	23.94005

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2175650**	**.2113654**	**.2222367**	**13.68238**	**.6739003**	**.2142093**
Stddev	.0030631	.0035106	.0009377	.04186	.0014752	.0010158
%RSD	1.407907	1.660900	.4219291	.3059380	.2188994	.4742129
#1	.2167559	.2133811	.2229025	13.65938	.6747250	.2151449
#2	.2149876	.2134033	.2226432	13.65706	.6747788	.2143541
#3	.2209514	.2073118	.2211644	13.73070	.6721972	.2131288

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3051493**	**3.455763**	**.2218556**	**4.202146**	**.5998535**	**.0623360**
Stddev	.0053297	.061626	.0013826	.091011	.0019409	.0015482
%RSD	1.746570	1.783282	.6231806	2.165824	.3235568	2.483644
#1	.3097550	3.501776	.2204034	4.154435	.6013699	.0633993
#2	.3063815	3.479765	.2231561	4.144911	.6005244	.0605598
#3	.2993115	3.385747	.2220072	4.307093	.5976662	.0630490

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1417.838**	**.3187566**	**.8581809**	**^ *****	**15.12323**	**6.369830**
Stddev	25.614	.0018467	.0063078	-----	.11382	.099995
%RSD	1.806568	.5793494	.7350200	-----	.7526427	1.569826
#1	1446.549	.3169564	.8627524	^ -----	15.17888	6.450527
#2	1409.634	.3186668	.8509845	^ -----	15.19853	6.401000
#3	1397.330	.3206466	.8608058	^ -----	14.99229	6.257962

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2512-01A Acquired: 7/9/2025 16:01:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Q2512-01A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4354384	F 1226.739	1.998154	.7789598	.2071784	.2194582
Stddev	.0013164	6.795	.032768	.0032134	.0042518	.0090719
%RSD	.3023060	.5538992	1.639938	.4125212	2.052231	4.133766
#1	.4344428	1231.079	2.023413	.7811385	.2027605	.2107431
#2	.4349415	1230.229	2.009922	.7804716	.2112419	.2187823
#3	.4369309	1218.908	1.961127	.7752693	.2075327	.2288491

Elem	Sr4077
Units	ppm
Avg	.2646562
Stddev	.0020504
%RSD	.7747280
#1	.2638277
#2	.2631497
#3	.2669912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.339	28512.29	2388.347	1879.812	3789.488
Stddev	1.270	132.08	44.371	8.752	8.136
%RSD	.0415814	.4632432	1.857821	.4655730	.2146992
#1	3055.459	28365.20	2352.694	1875.100	3780.445
#2	3054.598	28550.90	2374.307	1889.910	3796.214
#3	3052.959	28620.75	2438.039	1874.425	3791.806

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168712BL Acquired: 7/9/2025 16:05:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168712BL Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003519**	**-.001493**	**-.001038**	**.0038926**	**.0004802**	**-.004916**
Stddev	.002136	.001024	.001027	.0020140	.0028950	.032126
%RSD	60.70481	68.60758	98.97804	51.74029	602.8437	653.4440
#1	-.002007	-.000943	.000109	.0061996	-.000608	-.030518
#2	-.002587	-.002674	-.001347	.0024844	.003762	-.015363
#3	-.005962	-.000861	-.001874	.0029939	-.001713	.031133

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017469**	**.0002173**	**-.000023**	**-.002291**	**.0011958**	**.0002303**
Stddev	.0010156	.0001952	.000067	.020208	.0009722	.0006515
%RSD	58.13715	89.80980	284.0001	882.2025	81.30393	282.9189
#1	.0019758	.0003577	-.000086	-.022766	.0023031	.0003533
#2	.0006364	.0002998	.000047	-.001745	.0004820	.0008115
#3	.0026284	-.000006	-.000032	.017639	.0008023	-.000474

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014119**	**.0030155**	**.0002844**	**-.018730**	**-.000123**	**.0028303**
Stddev	.0004944	.0020541	.0010328	.014818	.000560	.0013958
%RSD	35.01487	68.11740	363.2273	79.11364	453.4765	49.31789
#1	.0019620	.0047940	.0009919	-.006463	-.000758	.0043842
#2	.0012687	.0034852	.0007620	-.014534	.000089	.0016827
#3	.0010049	.0007672	-.000901	-.035194	.000299	.0024239

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9750781**	**-.000179**	**.0011977**	**.1121432**	**.0027535**	F **.0385010**
Stddev	.1755140	.004074	.0004870	.0267386	.0019175	.0012707
%RSD	17.99999	2275.754	40.66218	23.84329	69.63957	3.300464
#1	1.169252	-.003253	.0017594	.1428323	.0049674	.0373008
#2	.928266	-.001726	.0008947	.0997288	.0016729	.0383700
#3	.827716	.004442	.0009388	.0938684	.0016202	.0398321

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168712BL Acquired: 7/9/2025 16:05:29 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168712BL Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004435	F .9792715	.0007074	-.009752	-.005975	F .1097030
Stddev	.0000851	.1716619	.0012061	.000960	.004506	.0103746
%RSD	19.19784	17.52955	170.4849	9.846181	75.40920	9.456943
#1	.0004791	1.156761	.0000344	-.009615	-.005316	.1178180
#2	.0005051	.966953	-.000012	-.010773	-.001835	.1132770
#3	.0003463	.814100	.002100	-.008868	-.010775	.0980139

Elem	Sr4077
Units	ppm
Avg	.0000931
Stddev	.0002204
%RSD	236.7043
#1	-.000146
#2	.000139
#3	.000287

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3323.161	32721.64	2539.527	2070.430	4879.683
Stddev	12.556	391.85	20.151	11.750	14.424
%RSD	.3778342	1.197540	.7934910	.5674963	.2955911
#1	3321.063	32311.69	2557.924	2082.636	4870.448
#2	3336.634	33092.46	2542.667	2069.456	4896.304
#3	3311.787	32760.79	2517.991	2059.197	4872.298

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168712BS Acquired: 7/9/2025 16:09:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168712BS Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6622553**	**1.923832**	**.8858717**	**1.901285**	**.7813241**	**1.968693**
Stddev	.0042750	.018079	.0060678	.016586	.0053335	.019699
%RSD	.6455218	.9397419	.6849485	.8723561	.6826172	1.000605
#1	.6630745	1.911285	.8821006	1.892255	.7790051	1.945983
#2	.6576299	1.915655	.8826433	1.891173	.7775428	1.981156
#3	.6660613	1.944555	.8928711	1.920427	.7874245	1.978941

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2026600**	**.2044608**	**.1774600**	**.9600034**	**.3794104**	**.1790898**
Stddev	.0011754	.0015212	.0013396	.0088328	.0007283	.0009381
%RSD	.5799740	.7440151	.7548784	.9200768	.1919465	.5238175
#1	.2028054	.2031456	.1766628	.9586780	.3795356	.1787696
#2	.2014187	.2041099	.1767106	.9519082	.3800680	.1783537
#3	.2037560	.2061268	.1790066	.9694240	.3786277	.1801461

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3144406**	**3.191779**	**.2016385**	**1.941345**	**.4513204**	**.0698085**
Stddev	.0021073	.015690	.0015803	.017011	.0024289	.0024198
%RSD	.6701635	.4915704	.7837478	.8762517	.5381712	3.466281
#1	.3120605	3.174604	.2011406	1.947297	.4502248	.0690074
#2	.3151928	3.195375	.2003670	1.922158	.4496323	.0678910
#3	.3160686	3.205359	.2034078	1.954580	.4541041	.0725273

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.087305**	**.2863739**	**.1993435**	**8.341945**	**5.530854**	**.3113379**
Stddev	.020383	.0057115	.0017716	.034913	.038430	.0048408
%RSD	.6602248	1.994435	.8887001	.4185226	.6948300	1.554831
#1	3.110472	.2896098	.1973281	8.381525	5.512771	.3071366
#2	3.072124	.2897327	.2006548	8.328787	5.504800	.3102455
#3	3.079320	.2797791	.2000475	8.315523	5.574990	.3166315

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168712BS Acquired: 7/9/2025 16:09:56 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: PB168712BS Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3958762	F .3833616	.9279220	.6406209	.1903369	F .2568936
Stddev	.0025870	.0199018	.0068488	.0035549	.0023957	.0068371
%RSD	.6534744	5.191384	.7380809	.5549146	1.258644	2.661458
#1	.3950530	.4039429	.9213367	.6396273	.1889628	.2534361
#2	.3938010	.3819248	.9274223	.6376685	.1931031	.2524757
#3	.3987746	.3642172	.9350070	.6445668	.1889446	.2647689

Elem	Sr4077
Units	ppm
Avg	.2023199
Stddev	.0006017
%RSD	.2973939
#1	.2019786
#2	.2019665
#3	.2030147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3376.820	33219.10	2529.231	2068.308	4894.707
Stddev	12.028	167.21	9.254	12.068	20.000
%RSD	.3561808	.5033640	.3658665	.5834571	.4086134
#1	3373.236	33150.53	2538.658	2071.674	4893.957
#2	3390.232	33097.07	2520.161	2054.914	4915.071
#3	3366.991	33409.70	2528.876	2078.334	4875.091

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV06 Acquired: 7/9/2025 16:39:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.883682**	**5.110422**	**4.935637**	**5.090627**	**5.038603**	**10.06983**	**10.57405**
Stddev	.017469	.020022	.015534	.023776	.031749	.06285	.00455
%RSD	.3577057	.3917887	.3147331	.4670639	.6301156	.6241702	.0430106
#1	4.874967	5.100763	4.941906	5.066643	5.009299	10.08442	10.57909
#2	4.872284	5.097059	4.917948	5.091048	5.034176	10.00097	10.57026
#3	4.903794	5.133442	4.947057	5.114190	5.072333	10.12411	10.57280

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2598199**	**2.474214**	**25.62194**	**.9995620**	**2.427133**	**1.282278**	**5.077080**
Stddev	.0007793	.007697	.04031	.0024655	.009669	.004531	.028033
%RSD	.2999551	.3110897	.1573200	.2466581	.3983703	.3533939	.5521462
#1	.2601701	2.472863	25.64139	1.000943	2.422205	1.287445	5.101921
#2	.2589269	2.467282	25.57559	1.001028	2.420921	1.280409	5.046686
#3	.2603627	2.482497	25.64882	.996715	2.438273	1.278980	5.082633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.577950**	**24.73798**	**2.432196**	**1.247659**	**25.27159**	**2.569838**	**2.555421**
Stddev	.008420	.06910	.010189	.000742	.18076	.011246	.017781
%RSD	.3265986	.2793398	.4189016	.0594974	.7152761	.4376277	.6958100
#1	2.587625	24.66180	2.424565	1.247901	25.16867	2.562467	2.541563
#2	2.572283	24.79663	2.428256	1.248251	25.16579	2.582782	2.575470
#3	2.573943	24.75551	2.443766	1.246826	25.48031	2.564264	2.549229

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.32019**	**5.273722**	**5.229440**	**5.148709**	**5.127448**	**5.238580**	**5.025187**
Stddev	.32155	.017614	.007735	.033775	.008704	.009111	.011526
%RSD	1.269920	.3339941	.1479199	.6559944	.1697501	.1739209	.2293735
#1	24.99868	5.267486	5.238177	5.113342	5.120944	5.248920	5.014490
#2	25.32011	5.260075	5.223463	5.152156	5.124065	5.231731	5.023676
#3	25.64177	5.293606	5.226682	5.180628	5.137336	5.235089	5.037394

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV06 Acquired: 7/9/2025 16:39:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.228226**	**5.109269**	**5.224569**
Stddev	.007143	.011116	.012773
%RSD	.1366295	.2175603	.2444761
#1	5.235400	5.114253	5.237583
#2	5.221113	5.096533	5.212052
#3	5.228165	5.117020	5.224072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3324.211**	**32867.74**	**2572.246**	**2061.457**	**4470.976**
Stddev	15.719	65.99	3.597	11.287	16.597
%RSD	.4728618	.2007680	.1398225	.5475024	.3712189
#1	3336.292	32886.45	2568.108	2072.651	4473.073
#2	3329.902	32794.42	2574.007	2050.080	4486.425
#3	3306.440	32922.36	2574.622	2061.639	4453.430

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB06 Acquired: 7/9/2025 16:43:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001279**	**-.000956**	**-.001108**	**.0014774**	**-.000450**	**.0188099**
Stddev	.001986	.001767	.000778	.0040129	.002615	.0481541
%RSD	155.3488	184.8032	70.19083	271.6121	580.9593	256.0045
#1	.000988	.000658	-.001896	.0059964	-.003330	.0065004
#2	-.002107	-.002844	-.001088	.0001054	.001775	.0719238
#3	-.002717	-.000682	-.000341	-.001670	.000204	-.021995

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030775**	**.0000634**	**.0000599**	**-.023181**	**-.000061**	**.0001941**
Stddev	.0008625	.0000756	.0000581	.022431	.001215	.0001784
%RSD	28.02622	119.1595	97.00397	96.76566	1997.022	91.91540
#1	.0040188	-.000023	.0001165	-.014108	-.000068	.0000059
#2	.0028888	.000099	.0000626	-.006707	-.001272	.0003607
#3	.0023250	.000115	.0000005	-.048727	.001157	.0002156

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010571**	**.0004795**	**-.000261**	**-.045070**	**-.000517**	**.0035056**
Stddev	.0006270	.0028995	.002005	.056712	.000792	.0010916
%RSD	59.31414	604.6977	768.7173	125.8318	153.1916	31.13878
#1	.0003739	.0037923	.000567	-.021652	.000378	.0044534
#2	.0016062	-.001597	-.002547	-.003816	-.001126	.0037514
#3	.0011912	-.000757	.001198	-.109740	-.000802	.0023121

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0353902**	**-.004459**	**-.000087**	**.0181542**	**.0030620**	F **.0175545**
Stddev	.0170372	.008998	.000109	.0016225	.0021187	.0021608
%RSD	48.14111	201.8074	124.8109	8.937440	69.19182	12.30901
#1	.0257501	-.004346	.000033	.0200191	.0054951	.0194189
#2	.0253587	-.013512	-.000114	.0173772	.0020661	.0180581
#3	.0550618	.004482	-.000181	.0170663	.0016248	.0151863

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB06 Acquired: 7/9/2025 16:43:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002616	F .1310322	-.000118	-.008762	-.005489	.0153089
Stddev	.0004622	.0053466	.002511	.000964	.005044	.0053977
%RSD	176.6798	4.080382	2126.054	11.00547	91.89550	35.25892
#1	-.000204	.1356216	-.002373	-.009632	-.009665	.0201488
#2	.000720	.1323136	.002588	-.007725	-.006919	.0162900
#3	.000268	.1251613	-.000570	-.008930	.000116	.0094879

Elem	Sr4077
Units	ppm
Avg	.0002645
Stddev	.0002869
%RSD	108.4903
#1	-.000064
#2	.000394
#3	.000464

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.699	33823.99	2558.734	2116.692	5073.814
Stddev	8.198	251.69	20.474	7.923	5.840
%RSD	.2385411	.7441057	.8001690	.3743293	.1150968
#1	3441.804	34113.87	2579.688	2125.674	5074.210
#2	3441.050	33661.11	2557.739	2113.709	5079.446
#3	3427.243	33696.98	2538.776	2110.693	5067.787

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2488-02 Acquired: 7/9/2025 16:52:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000786**	**-.002436**	**.0055760**	**.0009109**	**-.003172**	**.0306797**	**.0074122**
Stddev	.0050265	.001351	.0004624	.0089470	.001481	.0629418	.0013948
%RSD	6395.212	55.47447	8.293438	982.2351	46.68500	205.1579	18.81734
#1	.0058499	-.003585	.0060716	.0010882	-.004456	.0072480	.0066481
#2	-.002273	-.002776	.0055006	.0097679	-.001552	.1019764	.0065663
#3	-.003341	-.000947	.0051560	-.008123	-.003508	-.017185	.0090220

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004126**	**.0000337**	**3.890636**	**.0008176**	**.0080440**	**.0113777**	**.2173177**
Stddev	.0002281	.0000988	.228962	.0003972	.0001334	.0051862	.0528379
%RSD	55.27343	292.8379	5.884959	48.58309	1.658105	45.58207	24.31366
#1	.0003515	-.000027	4.021800	.0003599	.0079778	.0091936	.1988537
#2	.0002213	-.000020	4.023852	.0010730	.0081976	.0076407	.1761895
#3	.0006650	.000148	3.626256	.0010198	.0079568	.0172986	.2769100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0226958**	**1.477193**	**.0078849**	**.0026055**	**18.84875**	**-.006914**	**.0287543**
Stddev	.0047571	.111130	.0002972	.0020409	5.26605	.013743	.0014299
%RSD	20.96015	7.523056	3.768835	78.33053	27.93845	198.7744	4.972880
#1	.0254579	1.527994	.0075660	.0012515	17.57073	-.017636	.0271218
#2	.0254266	1.553843	.0079344	.0049529	14.33934	-.011684	.0293563
#3	.0172028	1.349742	.0081541	.0016120	24.63619	.008579	.0297848

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.0337539**	**.0095032**	**-.000581**	**4.107727**	**7.036720**	**-.012522**
Stddev	-----	.0029350	.0038532	.000375	.249714	1.707643	.000065
%RSD	-----	8.695435	40.54641	64.56582	6.079117	24.26759	.5183462
#1	^ -----	.0331376	.0089860	-.000149	4.395657	6.343058	-.012522
#2	^ -----	.0311760	.0059347	-.000775	3.950378	5.785061	-.012457
#3	^ -----	.0369482	.0135889	-.000819	3.977146	8.982040	-.012587

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2488-02 Acquired: 7/9/2025 16:52:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003018	-.022458	.0239969
Stddev	.007724	.032692	.0009784
%RSD	255.9240	145.5715	4.077053
#1	-.006796	-.005445	.0241750
#2	-.008126	-.001780	.0248739
#3	.005868	-.060148	.0229417

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3398.657	29445.41	2236.483	1926.666	5024.117
Stddev	165.306	2239.27	483.708	143.293	269.890
%RSD	4.863858	7.604831	21.62805	7.437367	5.371879
#1	3208.970	31822.04	2503.636	2081.709	4714.646
#2	3511.941	27375.01	2527.694	1799.102	5210.651
#3	3475.062	29139.18	1678.118	1899.188	5147.055

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-15 Acquired: 7/9/2025 17:14:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1997987	-.002827	k 11.15251	.0646431	.0776899	^ *****
Stddev	.0107400	.002288	.01529	.0153847	.0048276	-----
%RSD	5.375410	80.93913	.1370873	23.79941	6.213958	-----
#1	.2006479	-.005161	k 11.15091	.0557133	.0739986	^ -----
#2	.2100889	-.000588	11.13808	.0824077	.0831531	97.48180
#3	.1886593	-.002732	11.16853	.0558082	.0759179	97.91798

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0122127	.0304624	^ *****	.4472603	.3851476
Stddev	-----	.0006052	.0013270	-----	.0054893	.0015231
%RSD	-----	4.955433	4.356207	-----	1.227307	.3954645
#1	^ -----	.0118682	.0315990	^ -----	.4534002	.3852607
#2	5.984387	.0129115	.0290041	812.2111	.4428270	.3835710
#3	5.980137	.0118584	.0307841	814.5707	.4455538	.3866109

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.844744	391.5787	4.911937	207.9368	.3788153	.0165429
Stddev	.263446	28.0803	.016641	.7300	.0017967	.0059966
%RSD	6.852102	7.171041	.3387824	.3510551	.4743048	36.24881
#1	3.614719	368.3060	4.893053	208.3941	.3804686	.0104678
#2	4.132151	422.7672	4.924455	207.0949	.3769032	.0224578
#3	3.787361	383.6628	4.918303	208.3212	.3790742	.0167030

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.14007	.5480949	F 18.92630	27.58218	11.57020	.2253919
Stddev	.79956	.0128308	.04752	2.14939	.01571	.0131411
%RSD	6.084933	2.340978	.2510639	7.792693	.1358205	5.830324
#1	12.66594	.5423249	18.94485	26.09761	11.58411	.2146074
#2	14.06321	.5391622	18.87231	30.04694	11.55315	.2400286
#3	12.69106	.5627977	18.96175	26.60198	11.57333	.2215399

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-15 Acquired: 7/9/2025 17:14:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2258029	F 27.02684	F 20.19867	1.185721	6.035090	.1459055
Stddev	.0013916	.03657	1.34236	.006033	.015717	.0111834
%RSD	.6162846	.1353003	6.645764	.5087795	.2604294	7.664821
#1	.2248512	27.02995	19.11460	1.185588	6.018972	.1585413
#2	.2251575	26.98882	21.70014	1.179756	6.035924	.1418944
#3	.2274000	27.06175	19.78129	1.191819	6.050373	.1372808

Elem	Sr4077
Units	ppm
Avg	^ *****
Stddev	-----
%RSD	-----
#1	^ -----
#2	2.705573
#3	2.706145

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3414.933	32600.65	2605.080	2111.095	3763.192
Stddev	3.656	138.55	161.641	16.354	3.916
%RSD	.1070618	.4250047	6.204852	.7746548	.1040662
#1	3419.120	32485.62	2743.352	2116.996	3766.751
#2	3413.308	32754.46	2427.369	2123.678	3763.828
#3	3412.371	32561.86	2644.521	2092.609	3758.997

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-02 Acquired: 7/9/2025 17:19:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1439868**	**-.013632**	**1.006264**	**.1122323**	**.0260368**	**94.85533**	**.5362752**
Stddev	.0069935	.001148	.001550	.0013170	.0015542	.45734	.0017769
%RSD	4.857032	8.419625	.1539973	1.173437	5.969133	.4821473	.3313480
#1	.1519743	-.012320	1.006767	.1137374	.0277836	95.29767	.5380207
#2	.1410219	-.014449	1.004526	.1112918	.0255198	94.38434	.5344684
#3	.1389642	-.014128	1.007500	.1116676	.0248071	94.88397	.5363365

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0115708**	**-.002104**	**18.72632**	**.2248878**	**.0340775**	**.1225846**	**445.3570**
Stddev	.0002733	.000042	.11440	.0008886	.0002497	.0009336	2.2007
%RSD	2.361893	2.006881	.6109240	.3951218	.7328476	.7616291	.4941445
#1	.0116735	-.002153	18.76850	.2255704	.0343604	.1234547	446.6453
#2	.0117778	-.002076	18.59681	.2238831	.0338875	.1215983	442.8159
#3	.0112610	-.002084	18.81364	.2252099	.0339848	.1227007	446.6097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8765291**	**4.274266**	**.0649743**	**.0021214**	**4.418189**	**.4885158**	**.5871086**
Stddev	.0054934	.104279	.0007246	.0019872	.020323	.0128686	.0022677
%RSD	.6267188	2.439702	1.115268	93.67239	.4599768	2.634231	.3862420
#1	.8785036	4.264661	.0658109	.0023190	4.434122	.5029460	.5885430
#2	.8703214	4.175122	.0645686	.0000428	4.395302	.4843712	.5844943
#3	.8807623	4.383016	.0645435	.0040025	4.425143	.4782302	.5882886

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.495803**	**8.144852**	**.1558996**	**.0021918**	**11.11071**	**6.428609**	**.2370697**
Stddev	.029477	.023810	.0029367	.0001756	.03718	.046112	.0020979
%RSD	.4537899	.2923361	1.883686	8.010576	.3345993	.7172929	.8849522
#1	6.523227	8.136847	.1577190	.0022879	11.10864	6.420661	.2376639
#2	6.464631	8.126076	.1525117	.0022984	11.07462	6.386988	.2347388
#3	6.499552	8.171633	.1574680	.0019892	11.14889	6.478179	.2388065

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-02 Acquired: 7/9/2025 17:19:09 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.102113	.0530796	.1761672
Stddev	.007275	.0089599	.0009676
%RSD	.6601335	16.88014	.5492399
#1	1.097805	.0557492	.1769164
#2	1.098020	.0604013	.1750748
#3	1.110513	.0430883	.1765104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3530.504	34362.62	2753.868	2163.848	4680.963
Stddev	14.273	31.24	6.515	4.300	23.288
%RSD	.4042797	.0909040	.2365632	.1987421	.4975014
#1	3522.429	34341.79	2746.839	2160.625	4669.650
#2	3546.984	34398.54	2759.703	2168.731	4707.746
#3	3522.098	34347.54	2755.064	2162.188	4665.492

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-03 Acquired: 7/9/2025 17:23:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1132776**	**-.016689**	**.2242331**	**.0532019**	**.0350783**	**118.1861**	**.4066558**
Stddev	.0024804	.002000	.0020421	.0055814	.0030277	.3047	.0009244
%RSD	2.189702	11.98353	.9107183	10.49105	8.631210	.2577932	.2273086
#1	.1108980	-.015867	.2262466	.0483112	.0376634	118.4723	.4075279
#2	.1130868	-.015231	.2221635	.0592822	.0358241	118.2203	.4067528
#3	.1158479	-.018969	.2242890	.0520122	.0317474	117.8658	.4056868

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114701**	**-.000609**	**286.1966**	**.2465764**	**.0999872**	**.3423934**	**355.5538**
Stddev	.0002181	.000255	.8222	.0024329	.0003624	.0077594	5.1012
%RSD	1.901479	41.94069	.2872716	.9866632	.3624117	2.266215	1.434727
#1	.0112274	-.000379	285.8960	.2483700	.1001335	.3334683	351.6470
#2	.0116496	-.000883	287.1268	.2438072	.0995746	.3475376	361.3249
#3	.0115334	-.000564	285.5671	.2475521	.1002536	.3461742	353.6894

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.455046**	**84.57628**	**.1422823**	**-.000751**	**7.263863**	**.7344381**	**.4111479**
Stddev	.004493	.46039	.0010895	.000302	.006940	.0029111	.0028840
%RSD	.3087744	.5443524	.7657141	40.21705	.0955445	.3963642	.7014379
#1	1.459615	84.75298	.1433782	-.000538	7.256419	.7323989	.4113707
#2	1.450634	84.92215	.1411993	-.000618	7.270155	.7377719	.4139140
#3	1.454888	84.05371	.1422695	-.001097	7.265015	.7331435	.4081590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.804740**	**7.727171**	**.2275961**	**-.006408**	**9.391096**	**13.35971**	**.0138179**
Stddev	.295530	.032620	.0041167	.000668	.049572	.24442	.0008129
%RSD	3.356482	.4221498	1.808796	10.42078	.5278572	1.829566	5.882700
#1	8.659622	7.762100	.2234462	-.005817	9.445697	13.08958	.0145359
#2	8.609824	7.697497	.2316788	-.007133	9.348917	13.56561	.0129354
#3	9.144775	7.721915	.2276633	-.006275	9.378673	13.42393	.0139824

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-03 Acquired: 7/9/2025 17:23:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.600420**	**.0756899**	**.8460702**
Stddev	.007354	.0081936	.0014060
%RSD	.2042555	10.82527	.1661782
#1	3.605567	.0754360	.8459453
#2	3.603696	.0676261	.8475344
#3	3.591997	.0840075	.8447308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3630.379**	**34458.72**	**2760.344**	**2224.208**	**4196.073**
Stddev	8.817	374.57	33.037	23.835	17.166
%RSD	.2428686	1.087013	1.196854	1.071598	.4090945
#1	3631.482	34027.83	2787.734	2205.128	4194.864
#2	3638.593	34641.77	2723.653	2216.572	4213.811
#3	3621.063	34706.57	2769.646	2250.925	4179.543

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-04 Acquired: 7/9/2025 17:28:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2239695**	**-.039208**	**.2263992**	**.1407693**	**.0316553**	**176.4285**	**.5320982**
Stddev	.0019529	.000870	.0040027	.0180656	.0024478	.6076	.0019308
%RSD	.8719418	2.218889	1.767991	12.83347	7.732607	.3443983	.3628556
#1	.2218581	-.038204	.2218726	.1299892	.0330627	175.7780	.5340101
#2	.2243394	-.039692	.2294715	.1616257	.0330744	176.9814	.5321353
#3	.2257109	-.039729	.2278534	.1306930	.0288289	176.5261	.5301491

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172210**	**-.001347**	**9.093812**	**.5021841**	**.0780708**	**.0561254**	**526.1144**
Stddev	.0011286	.001319	.033426	.0028003	.0009938	.0044125	30.2150
%RSD	6.553765	97.89199	.3675688	.5576272	1.272898	7.861863	5.743041
#1	.0165613	-.000724	9.073581	.5043443	.0784076	.0540950	512.2681
#2	.0185242	-.002862	9.132393	.4990203	.0788524	.0611876	560.7712
#3	.0165776	-.000456	9.075460	.5031877	.0769524	.0530935	505.3039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.365178**	**10.59336**	**.1117045**	**-.000777**	**2.705571**	**.8211873**	**.3345945**
Stddev	.009042	.05337	.0008322	.006653	.160124	.0106316	.0009404
%RSD	.6623428	.5037977	.7450007	856.5823	5.918317	1.294663	.2810626
#1	1.374859	10.53181	.1116973	-.003718	2.635646	.8269422	.3347258
#2	1.363726	10.62138	.1125403	.006840	2.888765	.8089188	.3354625
#3	1.356950	10.62687	.1108760	-.005452	2.592302	.8277010	.3335954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.761224**	**5.621650**	**.1325941**	**.0064631**	**3.669225**	**2.744922**	**.0059450**
Stddev	.352857	.016551	.0075308	.0000326	.010542	.166408	.0011200
%RSD	6.124679	.2944081	5.679611	.5044299	.2873017	6.062390	18.83948
#1	5.567051	5.614598	.1360664	.0064657	3.664387	2.662955	.0050725
#2	6.168521	5.609794	.1377625	.0064293	3.661971	2.936414	.0072080
#3	5.548101	5.640559	.1239536	.0064944	3.681317	2.635398	.0055546

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-04 Acquired: 7/9/2025 17:28:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.823186**	**.0725807**	**.0623795**
Stddev	.011198	.0029941	.0007302
%RSD	.3966344	4.125162	1.170548
#1	2.835941	.0702061	.0627837
#2	2.814972	.0715920	.0628182
#3	2.818645	.0759441	.0615366

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.025**	**36863.10**	**2872.141**	**2336.229**	**4451.792**
Stddev	13.187	59.70	165.185	5.321	10.252
%RSD	.3442248	.1619394	5.751288	.2277721	.2302985
#1	3817.710	36913.68	2965.967	2340.591	4442.451
#2	3831.284	36878.36	2681.410	2330.300	4450.163
#3	3844.081	36797.25	2969.047	2337.795	4462.761

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-05 Acquired: 7/9/2025 17:32:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2152559**	**-.034234**	**.1985096**	**.1342507**	**.0374965**	**192.2276**	**.3877251**
Stddev	.0037038	.003768	.0029927	.0009626	.0020028	.5444	.0016780
%RSD	1.720647	11.00573	1.507564	.7170252	5.341231	.2832041	.4327893
#1	.2156083	-.030426	.2000483	.1347580	.0389674	192.2052	.3867982
#2	.2113886	-.037960	.1950607	.1348536	.0383066	191.6947	.3867149
#3	.2187710	-.034316	.2004199	.1331406	.0352156	192.7828	.3896621

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0213063**	**.0001810**	**7.896729**	**.7774522**	**.1016379**	**.0542461**	**552.2733**
Stddev	.0002676	.0004770	.025846	.0023709	.0004668	.0007120	6.7471
%RSD	1.255853	263.6165	.3273003	.3049536	.4592486	1.312487	1.221701
#1	.0212921	.0001455	7.923334	.7776897	.1021650	.0550385	555.9910
#2	.0210461	.0006747	7.895138	.7749715	.1014719	.0536604	544.4850
#3	.0215807	-.000277	7.871715	.7796953	.1012768	.0540393	556.3438

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.210109**	**10.95272**	**.1371515**	**-.007305**	**6.464154**	**.7780394**	**.3959409**
Stddev	.004181	.11241	.0006604	.002002	.094108	.0072188	.0038936
%RSD	.3455033	1.026320	.4815135	27.40581	1.455850	.9278239	.9833793
#1	1.206846	10.95465	.1378556	-.006221	6.477546	.7794059	.3945659
#2	1.208658	11.06414	.1370529	-.009616	6.364067	.7844773	.3929213
#3	1.214822	10.83935	.1365459	-.006079	6.550849	.7702350	.4003354

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.484806**	**6.823907**	**.1684568**	**.0054582**	**2.282452**	**3.513464**	**.0124300**
Stddev	.098856	.020019	.0088436	.0003051	.009906	.044144	.0007011
%RSD	1.165090	.2933608	5.249789	5.590419	.4340229	1.256425	5.640255
#1	8.429993	6.846118	.1784967	.0052610	2.293755	3.516244	.0128448
#2	8.425500	6.807256	.1650529	.0053039	2.278319	3.467995	.0128246
#3	8.598925	6.818346	.1618210	.0058097	2.275281	3.556152	.0116205

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-05 Acquired: 7/9/2025 17:32:28 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.974404**	**.0966423**	**.0612391**
Stddev	.008906	.0027133	.0001587
%RSD	.2994163	2.807622	.2591898
#1	2.966718	.0992269	.0611614
#2	2.972331	.0968836	.0611342
#3	2.984164	.0938164	.0614217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3886.054**	**37625.31**	**3052.995**	**2388.118**	**4491.985**
Stddev	14.048	14.49	36.631	9.361	17.328
%RSD	.3614866	.0385098	1.199829	.3919643	.3857472
#1	3870.191	37618.41	3048.991	2390.947	4472.300
#2	3896.920	37641.96	3091.463	2395.738	4504.927
#3	3891.051	37615.56	3018.531	2377.669	4498.729

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06 Acquired: 7/9/2025 17:37:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1689696**	**-.028894**	**.2188455**	**.1013358**	**.0203521**	**177.3509**	**.5173486**
Stddev	.0107739	.002537	.0005262	.0041246	.0028091	.3903	.0009131
%RSD	6.376214	8.779440	.2404476	4.070202	13.80269	.2200723	.1765000
#1	.1813862	-.026540	.2182629	.1007560	.0220903	177.4791	.5182780
#2	.1620915	-.028563	.2189870	.1057195	.0171112	177.6609	.5173151
#3	.1634313	-.031581	.2192864	.0975317	.0218547	176.9126	.5164527

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0158914**	**.0003824**	**7.287486**	**.3040913**	**.0939018**	**.0944626**	**396.7727**
Stddev	.0002960	.0001502	.059352	.0003895	.0002969	.0008776	3.4849
%RSD	1.862529	39.28742	.8144333	.1280775	.3161659	.9290430	.8783097
#1	.0160580	.0003263	7.331385	.3043563	.0936170	.0947216	396.1577
#2	.0160664	.0002682	7.311114	.3042736	.0942094	.0951816	400.5241
#3	.0155496	.0005526	7.219959	.3036442	.0938790	.0934847	393.6362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.517096**	**13.96470**	**.1418393**	**-.002151**	**5.066361**	**.6284879**	**.3306500**
Stddev	.005467	.02207	.0001000	.001008	.042137	.0122673	.0017751
%RSD	.3603400	.1580483	.0705006	46.83904	.8317111	1.951870	.5368568
#1	1.523309	13.97565	.1419340	-.002348	5.106644	.6157872	.3315968
#2	1.514955	13.97915	.1417347	-.001060	5.069853	.6294064	.3317510
#3	1.513023	13.93929	.1418491	-.003046	5.022586	.6402701	.3286022

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.899105**	**5.493865**	**.1477813**	**.0055607**	**1.994573**	**3.375548**	**.0119679**
Stddev	.052910	.018540	.0054376	.0005609	.002414	.008797	.0017112
%RSD	.6698268	.3374687	3.679462	10.08639	.1210192	.2606201	14.29827
#1	7.947644	5.477011	.1418867	.0057425	1.996971	3.371179	.0100000
#2	7.906968	5.490860	.1526014	.0060082	1.992143	3.385674	.0127976
#3	7.842703	5.513724	.1488558	.0049315	1.994605	3.369790	.0131061

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06 Acquired: 7/9/2025 17:37:01 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.943385**	**.1077500**	**.0602251**
Stddev	.014981	.0023515	.0002852
%RSD	.5089623	2.182390	.4735940
#1	2.946797	.1051534	.0604910
#2	2.956366	.1083609	.0602605
#3	2.926993	.1097359	.0599239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4157.288**	**40173.72**	**3266.618**	**2555.859**	**4579.561**
Stddev	5.094	244.35	32.999	13.579	.580
%RSD	.1225247	.6082346	1.010189	.5313056	.0126717
#1	4151.733	40307.43	3254.125	2565.325	4578.903
#2	4158.393	39891.69	3241.690	2540.300	4579.782
#3	4161.739	40322.03	3304.040	2561.951	4580.000

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06DUP Acquired: 7/9/2025 17:41:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1842875	-.037205	.2419494	.1168926	.0222579	178.1762	.5181436
Stddev	.0084628	.004167	.0036287	.0118370	.0048809	.4680	.0025605
%RSD	4.592159	11.20010	1.499767	10.12641	21.92885	.2626754	.4941666
#1	.1892130	-.041508	.2455987	.1054803	.0275727	178.0413	.5183163
#2	.1891338	-.036917	.2419078	.1291129	.0212248	177.7905	.5206134
#3	.1745156	-.033189	.2383417	.1160845	.0179763	178.6969	.5155012

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168933	-.000304	7.385237	.3110103	.0960277	.0957734	418.8634
Stddev	.0008162	.000761	.049726	.0028231	.0002142	.0029265	17.9664
%RSD	4.831629	250.4850	.6733152	.9077112	.2230742	3.055635	4.289310
#1	.0160987	.000356	7.328629	.3096391	.0958973	.0946467	405.7070
#2	.0177296	-.001136	7.421868	.3091348	.0959108	.0990957	439.3330
#3	.0168516	-.000131	7.405214	.3142571	.0962749	.0935776	411.5503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.626285	13.84060	.1430887	.0018555	5.527572	.6312142	.3294169
Stddev	.007011	.05611	.0010927	.0031037	.378309	.0057009	.0017942
%RSD	.4311279	.4054270	.7636586	167.2726	6.844033	.9031673	.5446683
#1	1.624704	13.82177	.1440942	.0008184	5.093666	.6248059	.3314870
#2	1.633952	13.79633	.1432461	.0053449	5.788244	.6357225	.3283102
#3	1.620199	13.90371	.1419259	-.000597	5.700807	.6331144	.3284534

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.770945	5.748954	.1537444	.0057854	2.180687	2.629099	.0182969
Stddev	.731186	.141121	.0078458	.0004995	.056703	.103412	.0006034
%RSD	8.336455	2.454720	5.103127	8.634638	2.600237	3.933374	3.297790
#1	8.015661	5.906353	.1496153	.0052089	2.245887	2.542526	.0189882
#2	8.821797	5.706782	.1627925	.0060556	2.153288	2.743610	.0178761
#3	9.475378	5.633727	.1488256	.0060916	2.142888	2.601161	.0180265

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06DUP Acquired: 7/9/2025 17:41:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.074337	.1097269	.0601619
Stddev	.017692	.0057936	.0001928
%RSD	.5754600	5.280037	.3203947
#1	3.054161	.1030837	.0603706
#2	3.087197	.1137314	.0601247
#3	3.081654	.1123658	.0599905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4136.181	39869.38	3127.737	2579.179	4489.448
Stddev	29.565	279.07	124.593	18.209	57.436
%RSD	.7147876	.6999491	3.983485	.7060082	1.279348
#1	4102.368	40148.73	3233.516	2558.533	4425.722
#2	4149.017	39868.81	2990.399	2586.053	4505.401
#3	4157.159	39590.60	3159.295	2592.950	4537.220

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06LX5 Acquired: 7/9/2025 17:46:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0401227**	**-.005757**	**.0485273**	**.0310358**	**.0056102**	**41.08069**	**.1191342**
Stddev	.0008164	.001602	.0020434	.0009930	.0006706	.03955	.0015017
%RSD	2.034650	27.82522	4.210903	3.199398	11.95411	.0962752	1.260508
#1	.0394697	-.007369	.0477899	.0303794	.0063701	41.05399	.1198704
#2	.0410380	-.005735	.0508371	.0305499	.0051011	41.12613	.1201257
#3	.0398605	-.004166	.0469549	.0321781	.0053594	41.06195	.1174065

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037672**	**-.000925**	**1.630189**	**.0687768**	**.0186531**	**.0253779**	**102.7262**
Stddev	.0002971	.000122	.010411	.0012187	.0001907	.0003950	1.3680
%RSD	7.886889	13.14545	.6386608	1.771919	1.022439	1.556523	1.331689
#1	.0034625	-.000819	1.622886	.0691398	.0188535	.0249605	101.8152
#2	.0040561	-.001058	1.625571	.0697727	.0186319	.0254273	104.2993
#3	.0037829	-.000899	1.642111	.0674179	.0184738	.0257458	102.0641

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3662581**	**3.282353**	**.0280072**	**.0019823**	**1.159705**	**.1405019**	**.0773701**
Stddev	.0053101	.081053	.0001785	.0012719	.023192	.0010118	.0002332
%RSD	1.449814	2.469351	.6372128	64.16272	1.999848	.7201559	.3014073
#1	.3604926	3.284795	.0281873	.0012469	1.142575	.1416593	.0773277
#2	.3709480	3.362158	.0278305	.0034510	1.186097	.1397850	.0776216
#3	.3673337	3.200107	.0280037	.0012490	1.150443	.1400614	.0771610

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.475344**	**1.051109**	**.0400418**	**.0009278**	**.4151544**	**.5548361**	**.0040092**
Stddev	.016352	.002075	.0018937	.0002734	.0010308	.0054510	.0004447
%RSD	1.108356	.1973728	4.729228	29.46992	.2482862	.9824578	11.09208
#1	1.464070	1.052916	.0382633	.0008229	.4149143	.5583574	.0037240
#2	1.494098	1.051568	.0420327	.0012382	.4162841	.5575938	.0045216
#3	1.467862	1.048843	.0398293	.0007224	.4142649	.5485573	.0037819

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06LX5 Acquired: 7/9/2025 17:46:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6800503	.0313650	.0143088
Stddev	.0018972	.0065426	.0000884
%RSD	.2789734	20.85951	.6176787
#1	.6779020	.0321476	.0143803
#2	.6814957	.0374812	.0143361
#3	.6807532	.0244664	.0142100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3629.614	35838.23	2807.607	2236.630	4898.502
Stddev	15.960	82.09	17.333	7.102	20.037
%RSD	.4397131	.2290476	.6173566	.3175157	.4090492
#1	3638.970	35805.17	2822.793	2236.202	4905.118
#2	3638.687	35931.69	2788.724	2243.936	4914.396
#3	3611.186	35777.82	2811.305	2229.752	4875.994

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV07 Acquired: 7/9/2025 17:50:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.771605**	**5.042006**	**4.831093**	**5.008122**	**4.976171**	**10.04295**	**10.54178**
Stddev	.012997	.002505	.009363	.016669	.008808	.03263	.05621
%RSD	.2723829	.0496908	.1938081	.3328314	.1770066	.3249323	.5332104
#1	4.785463	5.043926	4.841301	4.988910	4.967205	10.03789	10.52497
#2	4.759686	5.042919	4.822904	5.018735	4.976497	10.01314	10.60449
#3	4.769666	5.039172	4.829074	5.016720	4.984812	10.07782	10.49591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2579010**	**2.422122**	**25.48295**	**.9816567**	**2.378565**	**1.268443**	**5.065618**
Stddev	.0013289	.002461	.05540	.0020444	.002102	.008652	.033888
%RSD	.5152868	.1016021	.2174012	.2082644	.0883791	.6821022	.6689758
#1	.2578710	2.424887	25.41973	.9834716	2.380992	1.268529	5.049888
#2	.2592447	2.420171	25.50611	.9820567	2.377413	1.277052	5.104512
#3	.2565874	2.421309	25.52302	.9794418	2.377291	1.259748	5.042455

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.567543**	**24.72266**	**2.393192**	**1.236918**	**24.04787**	**2.543995**	**2.516368**
Stddev	.008735	.07009	.001496	.003521	.11608	.004167	.015719
%RSD	.3401954	.2834866	.0625072	.2846622	.4827062	.1638015	.6246674
#1	2.562625	24.72703	2.394913	1.239631	24.06848	2.543344	2.534316
#2	2.577627	24.65049	2.392455	1.238185	24.15227	2.548449	2.505051
#3	2.562375	24.79045	2.392207	1.232939	23.92286	2.540192	2.509737

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.93959**	**5.196753**	**5.147093**	**5.104310**	**4.838706**	**5.231276**	**4.909808**
Stddev	.30084	.012826	.022166	.005719	.014805	.025129	.010164
%RSD	1.256684	.2468169	.4306448	.1120342	.3059749	.4803638	.2070198
#1	23.98185	5.197751	5.144828	5.102294	4.854506	5.223437	4.916022
#2	24.21707	5.183457	5.170304	5.099873	4.836461	5.259391	4.898078
#3	23.61985	5.209052	5.126147	5.110764	4.825152	5.211002	4.915324

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV07 Acquired: 7/9/2025 17:50:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.219042**	**5.103943**	**5.205975**
Stddev	.031965	.003452	.017922
%RSD	.6124701	.0676406	.3442573
#1	5.189932	5.106812	5.205454
#2	5.253249	5.100112	5.224152
#3	5.213945	5.104907	5.188319

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.037**	**33323.56**	**2605.473**	**2070.537**	**4520.825**
Stddev	6.399	76.55	10.242	7.329	3.113
%RSD	.1916888	.2297319	.3931025	.3539449	.0688658
#1	3345.192	33331.89	2615.217	2063.972	4520.508
#2	3336.058	33395.60	2594.797	2078.444	4524.085
#3	3332.862	33243.17	2606.406	2069.197	4517.883

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB07 Acquired: 7/9/2025 17:54:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004497**	**-.000009**	**.0016791**	**.0045227**	**-.000688**	**.0074048**
Stddev	.0027779	.001659	.0017570	.0077846	.001493	.0093975
%RSD	617.7298	18246.63	104.6339	172.1243	217.0606	126.9105
#1	.0034875	.000224	.0016645	.0017744	.000665	.0110164
#2	-.001961	.001521	-.000070	.0133087	-.002290	.0144607
#3	-.000177	-.001772	.003443	-.001515	-.000439	-.003263

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007006**	**.0000833**	**-.000017**	**-.019929**	**-.000116**	**.0004985**
Stddev	.0010996	.0000848	.000065	.032177	.000709	.0002057
%RSD	156.9561	101.7502	383.9998	161.4521	610.3393	41.26080
#1	-.000046	.0001808	-.000088	.017149	-.000431	.0004048
#2	.000185	.0000272	-.000004	-.036411	.000696	.0007344
#3	.001963	.0000419	.000040	-.040526	-.000613	.0003564

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011754**	**.0022652**	**-.000685**	**-.011273**	**.0010041**	**.0022342**
Stddev	.0005831	.0028616	.000087	.081975	.0004331	.0012740
%RSD	49.61136	126.3332	12.64626	727.1908	43.12777	57.02206
#1	.0018474	-.000156	-.000605	-.105887	.0005283	.0030256
#2	.0008757	.001528	-.000673	.033575	.0011089	.0029124
#3	.0008030	.005423	-.000778	.038493	.0013752	.0007646

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005207**	**-.005377**	**.0001372**	**.0100622**	**.0036190**	F **.0111002**
Stddev	.019188	.006860	.0001805	.0013558	.0023760	.0011273
%RSD	368.5091	127.5860	131.4857	13.47404	65.65298	10.15583
#1	-.016581	-.001857	.0003252	.0115218	.0023366	.0113586
#2	.016947	-.000991	-.000035	.0098224	.0063606	.0120759
#3	-.015986	-.013283	.000121	.0088422	.0021597	.0098661

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB07 Acquired: 7/9/2025 17:54:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004333	.0179192	-.003834	-.008981	-.009364	.0168268
Stddev	.0002488	.0021697	.001294	.000512	.004660	.0040822
%RSD	57.43391	12.10799	33.74054	5.702906	49.75951	24.26031
#1	.0004714	.0171826	-.005147	-.009131	-.014585	.0143470
#2	.0006608	.0203613	-.002560	-.008411	-.005626	.0215383
#3	.0001675	.0162138	-.003795	-.009402	-.007883	.0145950

Elem	Sr4077
Units	ppm
Avg	-.000011
Stddev	.000057
%RSD	525.9545
#1	-.000062
#2	.000050
#3	-.000021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3448.972	34336.52	2632.106	2123.363	5140.442
Stddev	4.471	216.55	35.803	3.566	8.571
%RSD	.1296220	.6306762	1.360233	.1679306	.1667301
#1	3453.348	34397.89	2590.812	2126.220	5137.350
#2	3449.158	34095.90	2654.470	2119.367	5150.129
#3	3444.412	34515.76	2651.036	2124.501	5133.846

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06MS Acquired: 7/9/2025 17:59:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.000263	1.968101	k 1.247784	1.717196	.3020101	^ *****	^ *****
Stddev	.033200	.016035	.020970	.072945	.0024401	-----	-----
%RSD	3.319084	.8147208	1.680544	4.247899	.8079380	-----	-----
#1	.962705	1.950324	1.226525	1.635728	.2992759	227.3713	.7314754
#2	1.025693	1.972507	1.268452	1.776453	.3027880	223.5490	.7308404
#3	1.012391	1.981471	k 1.248376	1.739408	.3039663	^ -----	^ -----

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2079161	.2051980	11.31578	.6521788	.2926140	.4203653	462.0903
Stddev	.0216128	.0015990	.04507	.0039411	.0014556	.0464940	74.2868
%RSD	10.39497	.7792637	.3983275	.6042939	.4974390	11.06038	16.07626
#1	.1874044	.2048253	11.35690	.6564502	.2914057	.3753074	384.3147
#2	.2304832	.2038183	11.32286	.6514029	.2922065	.4681733	532.3109
#3	.2058608	.2069505	11.26759	.6486834	.2942300	.4176151	469.6452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.532638	17.15492	.6632999	.0641994	9.077588	.8962476	.5142782
Stddev	.005897	.05027	.0033007	.0154705	1.425121	.0043926	.0011358
%RSD	.3847838	.2930417	.4976185	24.09754	15.69934	.4901104	.2208504
#1	1.537859	17.18229	.6596150	.0482022	7.810200	.9012576	.5130997
#2	1.526241	17.09691	.6642991	.0790830	10.62027	.8930571	.5153658
#3	1.533814	17.18557	.6659855	.0653129	8.80229	.8944282	.5143690

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.43462	14.38461	.4010762	.3050891	2.210550	10.93145	.7393933
Stddev	1.56115	.35708	.0665195	.0008307	.063805	1.23223	.0097873
%RSD	6.661739	2.482360	16.58525	.2722889	2.886392	11.27234	1.323694
#1	22.62505	13.97246	.3302263	.3042602	2.136875	9.78909	.7294353
#2	25.23426	14.60077	.4621928	.3059216	2.247070	12.23724	.7397441
#3	22.44453	14.58059	.4108094	.3050853	2.247706	10.76803	.7490005

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06MS Acquired: 7/9/2025 17:59:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.765177	.2777824	.2438337
Stddev	.009855	.0199966	.0007545
%RSD	.2617456	7.198666	.3094498
#1	3.776271	.2954987	.2441939
#2	3.757436	.2560999	.2429666
#3	3.761824	.2817485	.2443407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3862.018	38709.08	2779.541	2527.408	4083.949
Stddev	109.195	438.68	308.168	3.409	122.187
%RSD	2.827414	1.133278	11.08700	.1348766	2.991879
#1	3983.558	39058.28	3081.422	2525.444	4222.601
#2	3772.185	38216.70	2465.449	2531.344	3992.013
#3	3830.311	38852.27	2791.750	2525.435	4037.232

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06MSD Acquired: 7/9/2025 18:03:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9625201	1.948755	k 1.207286	1.701649	.3021427	^ *****	.6846999
Stddev	.0220566	.015100	.018051	.051535	.0036912	-----	.0041778
%RSD	2.291543	.7748343	1.495178	3.028513	1.221668	-----	.6101699
#1	.9503100	1.949650	k 1.194945	1.660948	.2984132	^ -----	.6799902
#2	.9492686	1.933228	1.198909	1.684404	.3022205	218.7063	.6879592
#3	.9879817	1.963387	1.228004	1.759594	.3057944	215.5511	.6861504

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2130371	.2011508	9.592064	.6367447	.2843393	.4283373	464.0728
Stddev	.0263164	.0034065	.107625	.0146117	.0012802	.0567697	67.5582
%RSD	12.35296	1.693502	1.122026	2.294748	.4502339	13.25351	14.55767
#1	.1879402	.2045618	9.626305	.6520197	.2856954	.3732993	393.6135
#2	.2107478	.1977488	9.678403	.6353125	.2831517	.4250194	470.3073
#3	.2404234	.2011419	9.471484	.6229018	.2841708	.4866932	528.2977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.451943	16.55045	.6487453	.0720304	9.304182	.8752267	.4991470
Stddev	.017764	.08332	.0030211	.0140852	.160742	.0029093	.0022393
%RSD	1.223488	.5034192	.4656794	19.55453	1.727627	.3324076	.4486235
#1	1.446938	16.54295	.6514385	.0579181	9.302197	.8727000	.5016158
#2	1.471673	16.63727	.6454786	.0720849	9.144443	.8784073	.4985787
#3	1.437218	16.47114	.6493190	.0860883	9.465908	.8745726	.4972467

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.02970	13.02634	.4181074	.3082536	2.239165	11.51020	.7255802
Stddev	14.51250	.24642	.0732099	.0006518	.043837	1.23386	.0118111
%RSD	48.32717	1.891688	17.50982	.2114559	1.957739	10.71972	1.627817
#1	21.40032	12.98043	.3415156	.3078602	2.226433	10.35716	.7264728
#2	21.90400	12.80611	.4254202	.3078946	2.203103	11.36196	.7133481
#3	46.78476	13.29249	.4873865	.3090060	2.287958	12.81149	.7369197

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06MSD Acquired: 7/9/2025 18:03:45 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.717997	.2742023	.2408153
Stddev	.019925	.0141324	.0005705
%RSD	.5359033	5.154002	.2369111
#1	3.698056	.2902207	.2403766
#2	3.737906	.2688921	.2414603
#3	3.718031	.2634942	.2406090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3962.438	37966.06	2664.797	2478.168	4250.687
Stddev	62.835	1288.20	249.885	29.753	69.495
%RSD	1.585773	3.393027	9.377258	1.200614	1.634906
#1	4016.109	36545.79	2904.014	2444.771	4293.232
#2	3977.886	38293.36	2684.917	2487.884	4288.337
#3	3893.320	39059.04	2405.461	2501.849	4170.491

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06A Acquired: 7/9/2025 18:08:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8928448**	**1.859623**	**1.119780**	**1.618497**	**.6451184**	**177.4121**	**.6785376**
Stddev	.0011211	.006305	.001832	.005518	.0043654	.4203	.0055872
%RSD	.1255637	.3390645	.1636409	.3409449	.6766815	.2369149	.8234191
#1	.8920286	1.860531	1.120488	1.613119	.6491564	177.8910	.6836988
#2	.8941230	1.852913	1.121152	1.624146	.6404864	177.1046	.6793093
#3	.8923827	1.865425	1.117699	1.618225	.6457124	177.2405	.6726046

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1782029**	**.1863369**	**7.951832**	**.6146774**	**.2785067**	**.3378972**	**396.2074**
Stddev	.0010783	.0003299	.059269	.0014671	.0003803	.0023076	4.5567
%RSD	.6050853	.1770171	.7453469	.2386821	.1365635	.6829352	1.150079
#1	.1783877	.1864799	8.003357	.6157382	.2783567	.3380873	395.7862
#2	.1791769	.1859597	7.965077	.6152909	.2782243	.3401038	400.9601
#3	.1770442	.1865711	7.887061	.6130031	.2789392	.3355004	391.8759

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.577968**	**15.56484**	**.6093555**	**.0562055**	**7.241883**	**.8556902**	**.4925456**
Stddev	.011236	.04893	.0012669	.0009255	.029377	.0029264	.0024139
%RSD	.7120284	.3143688	.2079043	1.646580	.4056486	.3419936	.4900818
#1	1.589192	15.60215	.6102178	.0554998	7.238384	.8580106	.4905562
#2	1.577993	15.50944	.6079010	.0558634	7.272852	.8524027	.4918497
#3	1.566720	15.58293	.6099478	.0572534	7.214412	.8566575	.4952310

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.29595**	**11.42242**	**.3645291**	**.3295756**	**1.911651**	**3.922826**	**.6845005**
Stddev	.20460	.01264	.0059924	.0010134	.011514	.018708	.0010756
%RSD	1.255542	.1106760	1.643879	.3074734	.6023012	.4769128	.1571366
#1	16.48112	11.42292	.3632086	.3292260	1.922392	3.922127	.6832934
#2	16.33044	11.40953	.3710716	.3287834	1.899495	3.941875	.6848510
#3	16.07630	11.43480	.3593070	.3307175	1.913065	3.904477	.6853572

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2484-06A Acquired: 7/9/2025 18:08:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.982437**	**.2735811**	**.2261566**
Stddev	.005644	.0075166	.0011072
%RSD	.1892447	2.747495	.4895650
#1	2.987796	.2821238	.2271711
#2	2.982969	.2679806	.2263233
#3	2.976546	.2706390	.2249756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4147.432**	**40193.54**	**3273.190**	**2554.685**	**4556.526**
Stddev	6.022	101.50	15.858	11.626	9.716
%RSD	.1452078	.2525383	.4844726	.4551029	.2132242
#1	4142.401	40078.83	3269.117	2564.009	4547.475
#2	4145.789	40230.08	3259.766	2558.388	4555.311
#3	4154.105	40271.72	3290.687	2541.658	4566.792

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-09 Acquired: 7/9/2025 18:12:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1544855**	**.0079036**	**6.781129**	**.0738085**	**.0634910**	**92.51061**
Stddev	.0063646	.0030383	.025197	.0027666	.0026161	.63074
%RSD	4.119895	38.44160	.3715696	3.748283	4.120465	.6818056
#1	.1473742	.0046048	6.760828	.0747765	.0641614	93.13867
#2	.1596475	.0105872	6.773229	.0759611	.0657067	92.51596
#3	.1564349	.0085188	6.809329	.0706881	.0606049	91.87721

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.930447**	**.0117601**	**.0283482**	**514.5384**	**.2683046**	**.1296770**
Stddev	.018284	.0000765	.0003898	3.7369	.0012588	.0012173
%RSD	.6239233	.6505080	1.374917	.7262707	.4691650	.9387280
#1	2.946414	.0118301	.0280214	518.5261	.2684196	.1287311
#2	2.934426	.0117718	.0282436	513.9721	.2695019	.1292495
#3	2.910502	.0116785	.0287796	511.1169	.2669922	.1310504

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.058375**	**393.8595**	**3.808790**	**67.20221**	**.3471684**	**.0107856**
Stddev	.032413	4.9749	.025525	.68166	.0014062	.0021376
%RSD	1.574669	1.263104	.6701499	1.014347	.4050423	19.81916
#1	2.094845	397.8188	3.831090	67.88677	.3470417	.0088293
#2	2.047420	395.4844	3.814330	67.19639	.3458298	.0130672
#3	2.032858	388.2754	3.780951	66.52348	.3486336	.0104603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.562166**	**.3475476**	**14.70468**	**19.63463**	**8.056808**	**.1803135**
Stddev	.231971	.0111281	.08189	.37304	.046500	.0048380
%RSD	2.425930	3.201884	.5568764	1.899918	.5771508	2.683081
#1	9.829550	.3597423	14.76632	20.02032	8.019445	.1787371
#2	9.442259	.3449575	14.73595	19.60789	8.042094	.1857431
#3	9.414689	.3379430	14.61176	19.27568	8.108885	.1764604

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-09 Acquired: 7/9/2025 18:12:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479041	F 102.4824	3.326396	.4114025	5.095078	.1405770
Stddev	.0006724	.4277	.058566	.0015284	.035851	.0025761
%RSD	1.403601	.4173343	1.760639	.3715005	.7036448	1.832512
#1	.0485601	102.2020	3.390372	.4101114	5.130035	.1404660
#2	.0472165	102.2704	3.313390	.4110060	5.096805	.1380582
#3	.0479357	102.9746	3.275427	.4130900	5.058395	.1432068

Elem	Sr4077
Units	ppm
Avg	3.217843
Stddev	.021299
%RSD	.6618990
#1	3.237973
#2	3.220016
#3	3.195542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3482.603	33218.38	2620.614	2132.540	3997.410
Stddev	13.715	224.89	35.264	14.422	10.059
%RSD	.3938252	.6770189	1.345630	.6762877	.2516298
#1	3467.073	33280.22	2586.576	2140.167	3985.797
#2	3487.683	32969.04	2618.279	2115.905	4003.035
#3	3493.054	33405.89	2656.987	2141.547	4003.398

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-10 Acquired: 7/9/2025 18:17:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1369333**	**-.014615**	**2.574023**	**.0805070**	**.0315577**	**144.1649**
Stddev	.0065650	.000637	.020263	.0070483	.0018037	.2553
%RSD	4.794303	4.361227	.7872287	8.754927	5.715459	.1770906
#1	.1443591	-.014659	2.593441	.0870208	.0304798	144.4388
#2	.1345404	-.015229	2.553008	.0730244	.0336399	143.9335
#3	.1319004	-.013956	2.575619	.0814758	.0305533	144.1224

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.900605**	**.0133218**	**.0111064**	**122.4439**	**.3159167**	**.1650698**
Stddev	.010000	.0001105	.0001796	.6852	.0043216	.0006518
%RSD	.5261439	.8297596	1.617184	.5595793	1.367965	.3948489
#1	1.912119	.0134490	.0108991	123.1905	.3137052	.1652086
#2	1.894091	.0132490	.0112140	121.8439	.3208965	.1643598
#3	1.895605	.0132675	.0112062	122.2972	.3131484	.1656410

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.598281**	**282.9223**	**3.417064**	**55.42039**	**.3083833**	**.0062465**
Stddev	.032410	2.9808	.020602	.09920	.0011944	.0004114
%RSD	2.027773	1.053579	.6029062	.1789987	.3873117	6.586082
#1	1.632423	286.3590	3.440314	55.52463	.3097605	.0063437
#2	1.567940	281.0391	3.401081	55.40940	.3076308	.0057952
#3	1.594479	281.3689	3.409796	55.32714	.3077586	.0066006

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.223952**	**.5494054**	**2.566663**	**15.05627**	**12.45484**	**.1551741**
Stddev	.110268	.0028707	.006857	.14465	.08568	.0030370
%RSD	3.420285	.5225072	.2671509	.9607456	.6879104	1.957174
#1	3.163577	.5473159	2.571907	14.94938	12.53499	.1583566
#2	3.351223	.5482217	2.569178	14.99856	12.36454	.1523072
#3	3.157055	.5526787	2.558904	15.22087	12.46498	.1548585

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-10 Acquired: 7/9/2025 18:17:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033626	F 58.26256	3.008993	.1562805	4.546233	.1881060
Stddev	.0004219	.39134	.044308	.0015631	.023506	.0023736
%RSD	12.54672	.6716897	1.472503	1.000190	.5170436	1.261845
#1	.0030280	58.52505	3.058585	.1575296	4.565940	.1908178
#2	.0032231	57.81277	2.973305	.1545276	4.520216	.1870944
#3	.0038365	58.44988	2.995091	.1567842	4.552543	.1864058

Elem	Sr4077
Units	ppm
Avg	.7165786
Stddev	.0029903
%RSD	.4173048
#1	.7199551
#2	.7142646
#3	.7155160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4125.866	39755.70	3178.099	2546.658	4414.215
Stddev	14.209	455.44	42.052	18.538	7.349
%RSD	.3443903	1.145593	1.323195	.7279472	.1664822
#1	4119.551	39984.28	3131.757	2530.095	4406.402
#2	4115.909	39231.25	3188.710	2543.195	4415.256
#3	4142.137	40051.58	3213.829	2566.683	4420.988

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-11 Acquired: 7/9/2025 18:21:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2902046	.0120872	41.02504	.1475280	.2176559	115.6633
Stddev	.0041414	.0010012	.19076	.0106756	.0015803	.6287
%RSD	1.427072	8.283364	.4649818	7.236307	.7260389	.5435887
#1	.2949053	.0110149	40.90428	.1575118	.2159554	115.0048
#2	.2870931	.0129976	40.92589	.1362742	.2179332	116.2573
#3	.2886155	.0122490	41.24496	.1487979	.2190792	115.7279

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.14512	.0242986	.0828402	647.6887	1.745958	.9087114
Stddev	.44582	.0008874	.0011821	.6129	.005293	.0037446
%RSD	2.456975	3.652001	1.426921	.0946247	.3031798	.4120798
#1	18.65437	.0252676	.0814864	647.7242	1.747596	.9069093
#2	17.95574	.0241026	.0833660	647.0589	1.750239	.9062085
#3	17.82526	.0235256	.0836680	648.2831	1.740039	.9130163

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.64992	906.0821	7.434322	109.4729	.8149442	-.016436
Stddev	.29406	20.0821	.016623	.7109	.0033460	.003717
%RSD	2.154301	2.216364	.2235990	.6494262	.4105800	22.61171
#1	13.98264	928.1068	7.452997	108.7167	.8132430	-.012493
#2	13.42485	888.7868	7.421143	109.5742	.8127906	-.019874
#3	13.54227	901.3527	7.428827	110.1277	.8187990	-.016942

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.34041	.5492972	F 74.94487	24.14440	8.101185	.8044050
Stddev	.41864	.0071655	.48019	.59453	.030279	.0184798
%RSD	1.873916	1.304478	.6407302	2.462378	.3737580	2.297331
#1	22.81594	.5448754	75.36598	24.81151	8.083934	.8242202
#2	22.02743	.5575644	75.04669	23.67055	8.083474	.7876401
#3	22.17784	.5454516	74.42193	23.95115	8.136147	.8013548

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-11 Acquired: 7/9/2025 18:21:41 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.432692	F 43.32845	F 23.43491	11.58724	5.583507	.1853867
Stddev	.000389	.16811	.38858	.04558	.020835	.0085207
%RSD	.0271490	.3880007	1.658110	.3933950	.3731598	4.596156
#1	1.432641	43.23838	23.88222	11.55239	5.570285	.1756484
#2	1.433105	43.22455	23.18082	11.57051	5.572710	.1890407
#3	1.432332	43.52240	23.24169	11.63883	5.607525	.1914709

Elem	Sr4077
Units	ppm
Avg	2.795474
Stddev	.005957
%RSD	.2130791
#1	2.792230
#2	2.791844
#3	2.802348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3362.533	32878.86	2717.805	2070.755	3998.271
Stddev	14.419	154.74	61.292	15.451	10.897
%RSD	.4288170	.4706453	2.255214	.7461387	.2725437
#1	3364.955	32705.25	2647.146	2054.625	4010.488
#2	3347.056	32929.08	2756.635	2072.219	3989.553
#3	3375.588	33002.26	2749.633	2085.423	3994.773

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-12 Acquired: 7/9/2025 18:26:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1267692**	**-.010927**	**11.11451**	**.0978579**	**.0471495**	**125.3499**
Stddev	.0047210	.002470	.05955	.0174680	.0029628	.4311
%RSD	3.724069	22.60027	.5357532	17.85033	6.283761	.3439111
#1	.1258111	-.013763	11.06469	.0960536	.0486005	125.8433
#2	.1318957	-.009771	11.09837	.1161580	.0437409	125.0464
#3	.1226007	-.009248	11.18046	.0813621	.0491070	125.1600

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.806252**	**.0141206**	**.0067977**	**147.1989**	**.4093344**	**.2315356**
Stddev	.016133	.0011076	.0015528	.8786	.0022553	.0006986
%RSD	.5749036	7.843945	22.84343	.5968598	.5509781	.3017112
#1	2.816766	.0141886	.0069955	147.3634	.4109365	.2308875
#2	2.814312	.0151927	.0051554	147.9836	.4067553	.2314437
#3	2.787676	.0129806	.0082422	146.2497	.4103114	.2322756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.703350**	**413.2912**	**5.277437**	**67.93560**	**.3700773**	**.0117556**
Stddev	.134772	33.4209	.024140	.31672	.0001761	.0070164
%RSD	7.912185	8.086537	.4574195	.4662103	.0475915	59.68585
#1	1.675482	410.5746	5.293905	68.22841	.3700581	.0114727
#2	1.849877	447.9876	5.288680	67.97895	.3699115	.0189092
#3	1.584690	381.3115	5.249726	67.59943	.3702622	.0048849

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.793413**	**.4877852**	**8.904695**	**16.80673**	**11.03635**	**.2013633**
Stddev	.361766	.0121345	.054372	1.83086	.06177	.0184512
%RSD	9.536698	2.487674	.6105938	10.89363	.5596923	9.163125
#1	3.716838	.4844966	8.855413	16.15012	10.98283	.2083172
#2	4.187337	.4776339	8.895650	18.87536	11.02228	.2153271
#3	3.476065	.5012250	8.963022	15.39472	11.10394	.1804457

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-12 Acquired: 7/9/2025 18:26:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1026042	F 45.02894	7.058022	.9682351	6.342779	.2063799
Stddev	.0004413	.30668	.585592	.0068876	.018036	.0157748
%RSD	.4300751	.6810776	8.296831	.7113540	.2843554	7.643589
#1	.1027061	44.76857	6.945732	.9622292	6.359742	.2197604
#2	.1021209	44.95126	7.691629	.9667231	6.344759	.1889861
#3	.1029856	45.36700	6.536706	.9757531	6.323834	.2103932

Elem	Sr4077
Units	ppm
Avg	.5575421
Stddev	.0022997
%RSD	.4124670
#1	.5588782
#2	.5588614
#3	.5548867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3990.678	38071.86	2913.365	2463.888	4357.630
Stddev	9.933	173.89	243.324	14.896	2.180
%RSD	.2489142	.4567529	8.351977	.6045563	.0500298
#1	3987.616	38197.63	2953.747	2481.069	4360.147
#2	3982.636	37873.42	2652.376	2456.000	4356.330
#3	4001.782	38144.52	3133.971	2454.595	4356.414

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-13 Acquired: 7/9/2025 18:31:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2553399	.0025583	19.10088	.0423598	.0496714	103.6669	9.302608
Stddev	.0048791	.0072179	.03309	.0057387	.0024561	.3658	.029121
%RSD	1.910843	282.1394	.1732203	13.54760	4.944593	.3529078	.3130364
#1	.2522746	-.004648	19.08167	.0470043	.0495650	103.2895	9.285527
#2	.2609663	.009788	19.08189	.0441307	.0521790	104.0200	9.286064
#3	.2527788	.002534	19.13909	.0359443	.0472704	103.6911	9.336232

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097211	.0237929	620.5160	.3531540	.1771824	4.087898	317.7503
Stddev	.0001644	.0001885	.6721	.0021958	.0010023	.023255	2.9112
%RSD	1.691569	.7921666	.1083124	.6217576	.5657174	.5688653	.9162051
#1	.0095630	.0236521	619.8041	.3514696	.1778210	4.100321	320.5938
#2	.0097091	.0237196	621.1395	.3523550	.1760272	4.102302	317.8813
#3	.0098913	.0240070	620.6044	.3556374	.1776992	4.061070	314.7758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.811264	74.69469	.3551621	.0070120	10.63506	.4931658	12.59456
Stddev	.005223	.23208	.0013708	.0006854	.04082	.0069096	.05822
%RSD	.1085563	.3107047	.3859594	9.774112	.3837819	1.401064	.4622321
#1	4.807125	74.49598	.3565472	.0074608	10.62476	.5001214	12.59386
#2	4.809534	74.94975	.3538061	.0073520	10.68004	.4863032	12.53670
#3	4.817132	74.63833	.3551329	.0062231	10.60039	.4930727	12.65312

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.94903	11.86410	.1706525	.0568102	15.19041	6.317388	.8162498
Stddev	.25116	.02145	.0040305	.0010833	.02057	.031381	.0021578
%RSD	1.325454	.1808208	2.361824	1.906952	.1354335	.4967425	.2643511
#1	18.98095	11.83951	.1751343	.0556118	15.17085	6.322100	.8176046
#2	19.18270	11.87382	.1694977	.0577200	15.21187	6.346147	.8137615
#3	18.68343	11.87898	.1673254	.0570988	15.18851	6.283918	.8173833

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-13 Acquired: 7/9/2025 18:31:05 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.455810**	**.1669764**	**1.933427**
Stddev	.020469	.0040573	.004796
%RSD	.3751863	2.429867	.2480656
#1	5.436012	.1710767	1.928497
#2	5.454527	.1668890	1.933707
#3	5.476891	.1629635	1.938077

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3478.098**	**33735.45**	**2846.637**	**2138.935**	**3970.698**
Stddev	13.326	131.61	14.379	14.407	18.408
%RSD	.3831531	.3901322	.5051262	.6735533	.4635965
#1	3482.893	33725.57	2832.728	2129.089	3975.720
#2	3488.363	33871.72	2845.737	2155.471	3986.074
#3	3463.037	33609.05	2861.444	2132.246	3950.300

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168689TB Acquired: 7/9/2025 18:35:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003946**	**-.007239**	**.0037453**	**.0063833**	**.0040988**	**.0036029**	**.0009043**
Stddev	.003015	.002632	.0000584	.0018711	.0028106	.0402476	.0014879
%RSD	76.41351	36.36445	1.558054	29.31253	68.57222	1117.079	164.5276
#1	-.007408	-.005487	.0037036	.0078062	.0073408	.0356282	.0008536
#2	-.001899	-.010266	.0037205	.0042638	.0026069	-.041576	.0024170
#3	-.002531	-.005963	.0038120	.0070799	.0023487	.016756	-.000558

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003961**	**-.000024**	**-.083934**	**.0017725**	**-.000015**	**.0031584**	**.0091541**
Stddev	.0003928	.000024	.019444	.0017033	.000172	.0025225	.0006341
%RSD	99.17790	98.27768	23.16549	96.09467	1172.959	79.86674	6.927211
#1	-.000050	-.000048	-.103022	-.000040	-.000157	.0007897	.0084219
#2	.000689	-.000024	-.084626	.003340	.000176	.0058107	.0095236
#3	.000550	-.000001	-.064153	.002018	-.000063	.0028748	.0095168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052480**	**-.037402**	**.0002502**	**.0015013**	**437.5377**	**-.007195**	**.0018760**
Stddev	.0009739	.070261	.0004495	.0016711	29.9053	.009664	.0003183
%RSD	18.55663	187.8519	179.6382	111.3123	6.834908	134.3129	16.96843
#1	.0061800	-.047509	.0001213	.0000198	405.8706	-.006657	.0015179
#2	.0053269	.037365	-.000121	.0011712	441.4455	.002189	.0019830
#3	.0042371	-.102063	.000750	.0033128	465.2969	-.017118	.0021270

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**^ *****	**.0307712**	**-.005726**	**.0004160**	**.0793099**	**.0241913**	**-.013374**
Stddev	-----	.0029656	.001034	.0005880	.0070293	.0027627	.000679
%RSD	-----	9.637598	18.05074	141.3447	8.863107	11.42031	5.078613
#1	.0660155	.0293716	-.004719	.0009857	.0874032	.0239921	-.013217
#2	^ -----	.0287644	-.006784	.0004512	.0757973	.0270482	-.012787
#3	^ -----	.0341776	-.005674	-.000189	.0747291	.0215336	-.014118

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168689TB Acquired: 7/9/2025 18:35:35 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005575	-.022660	.0002903
Stddev	.002731	.013832	.0001425
%RSD	48.98260	61.04184	49.09259
#1	-.006388	-.009583	.0001481
#2	-.007806	-.021257	.0002898
#3	-.002530	-.037140	.0004331

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3109.833	28728.68	2183.009	1871.501	4107.367
Stddev	97.954	3310.09	202.529	199.103	110.065
%RSD	3.149826	11.52191	9.277494	10.63869	2.679691
#1	3001.049	31458.11	2414.536	1998.803	3984.730
#2	3191.050	29681.16	2095.779	1973.643	4197.570
#3	3137.399	25046.78	2038.712	1642.056	4139.802

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-02 Acquired: 7/9/2025 18:40:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0921848**	**.0001592**	**2.133709**	**.0251485**	**.0319723**	**112.9899**
Stddev	.0054706	.0013901	.001701	.0078636	.0028753	.6316
%RSD	5.934434	873.2929	.0797173	31.26857	8.993243	.5589978
#1	.0880310	-.001155	2.135582	.0212606	.0287262	112.5707
#2	.0983833	.001615	2.132260	.0341987	.0341994	113.7163
#3	.0901402	.000018	2.133285	.0199862	.0329911	112.6826

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.801471**	**.0087849**	**.0041047**	**546.9833**	**.2988746**	**.1413658**
Stddev	.009479	.0003064	.0002558	2.0041	.0020217	.0005034
%RSD	.5261560	3.487929	6.232765	.3663888	.6764351	.3561154
#1	1.793505	.0086821	.0039198	546.0827	.3008984	.1418623
#2	1.811954	.0091295	.0039976	549.2797	.2968550	.1408557
#3	1.798955	.0085432	.0043967	545.5876	.2988705	.1413794

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5647707**	**225.4374**	**4.332342**	**82.00075**	**.3402425**	**.0031034**
Stddev	.0106924	4.7514	.023175	.67326	.0016406	.0003059
%RSD	1.893233	2.107618	.5349354	.8210461	.4821830	9.857180
#1	.5708466	227.1821	4.319795	81.57836	.3419854	.0034522
#2	.5710409	229.0698	4.359085	82.77716	.3387282	.0029777
#3	.5524247	220.0604	4.318145	81.64672	.3400139	.0028804

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.934300**	**.4215693**	**1.865986**	**21.67036**	**8.248871**	**.1137002**
Stddev	.085000	.0102074	.007046	.46721	.011012	.0050483
%RSD	1.722636	2.421287	.3776248	2.156000	.1335010	4.439977
#1	4.968546	.4210259	1.862003	21.65129	8.257185	.1124940
#2	4.996835	.4320376	1.861833	22.14682	8.236381	.1192423
#3	4.837519	.4116445	1.874122	21.21298	8.253046	.1093643

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2473-02 Acquired: 7/9/2025 18:40:11 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001651	19.55637	F 27.81729	.1095074	5.806477	.1728098
Stddev	.000558	.02379	.53179	.0014804	.023264	.0046715
%RSD	33.80437	.1216328	1.911741	1.351896	.4006632	2.703267
#1	-.002122	19.58374	28.08978	.1094393	5.789450	.1767344
#2	-.001797	19.54468	28.15760	.1080622	5.832985	.1740523
#3	-.001035	19.54069	27.20447	.1110207	5.796997	.1676426

Elem	Sr4077
Units	ppm
Avg	1.337631
Stddev	.007072
%RSD	.5286923
#1	1.332841
#2	1.345753
#3	1.334299

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3538.826	34328.52	2874.225	2184.713	4009.167
Stddev	16.790	176.34	43.603	13.789	17.776
%RSD	.4744382	.5136882	1.517050	.6311374	.4433904
#1	3552.534	34288.04	2851.452	2190.286	4023.683
#2	3543.843	34521.58	2846.723	2194.843	4014.477
#3	3520.099	34175.94	2924.500	2169.011	3989.341

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV08 Acquired: 7/9/2025 18:54:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.699800**	**5.010255**	**4.782595**	**4.970222**	**4.930418**	**9.886377**	**10.35560**
Stddev	.014743	.014672	.006785	.012909	.009193	.029069	.04276
%RSD	.3137028	.2928314	.1418585	.2597243	.1864543	.2940326	.4129561
#1	4.700145	5.003299	4.780477	4.955316	4.919891	9.912899	10.32030
#2	4.684888	5.000356	4.777121	4.977740	4.934505	9.890934	10.40315
#3	4.714368	5.027111	4.790185	4.977609	4.936860	9.855299	10.34333

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2551714**	**2.401554**	**25.07405**	**.9656381**	**2.340883**	**1.250674**	**5.016660**
Stddev	.0023388	.005803	.03558	.0030821	.005745	.015199	.053230
%RSD	.9165579	.2416180	.1419152	.3191810	.2454160	1.215282	1.061063
#1	.2544527	2.398981	25.03524	.9691819	2.338932	1.248912	5.006966
#2	.2577852	2.397484	25.10515	.9641494	2.336368	1.266677	5.074071
#3	.2532763	2.408199	25.08174	.9635828	2.347350	1.236432	4.968943

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.518093**	**24.34505**	**2.366077**	**1.220975**	**23.58462**	**2.514176**	**2.493552**
Stddev	.012172	.17749	.005394	.004679	.28799	.017266	.011725
%RSD	.4833691	.7290636	.2279902	.3831816	1.221083	.6867398	.4702076
#1	2.515835	24.14056	2.363275	1.224056	23.50887	2.521178	2.485268
#2	2.531235	24.45919	2.362659	1.223276	23.90291	2.526840	2.506968
#3	2.507208	24.43540	2.372295	1.215591	23.34208	2.494509	2.488420

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.50357**	**5.162509**	**5.090466**	**5.074341**	**4.758869**	**5.208793**	**4.886144**
Stddev	.19124	.012204	.061453	.003646	.005349	.060275	.012536
%RSD	.8136485	.2363999	1.207218	.0718474	.1123938	1.157170	.2565578
#1	23.30252	5.149416	5.078886	5.070613	4.752750	5.191417	4.881188
#2	23.68318	5.164542	5.156885	5.074512	4.761204	5.275847	4.876843
#3	23.52500	5.173569	5.035627	5.077898	4.762653	5.159116	4.900400

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV08 Acquired: 7/9/2025 18:54:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.123029**	**5.064412**	**5.115747**
Stddev	.019609	.020920	.015393
%RSD	.3827666	.4130795	.3008868
#1	5.100391	5.040623	5.102560
#2	5.134771	5.079941	5.132661
#3	5.133924	5.072673	5.112018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3328.102**	**33096.74**	**2593.184**	**2049.265**	**4513.459**
Stddev	7.196	150.08	16.075	7.495	10.829
%RSD	.2162062	.4534566	.6198820	.3657537	.2399183
#1	3319.879	33123.51	2605.055	2057.077	4504.114
#2	3333.241	33231.64	2574.891	2048.583	4525.327
#3	3331.187	32935.08	2599.606	2042.133	4510.938

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB08 Acquired: 7/9/2025 18:58:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001594**	**.0002875**	**.0033649**	**.0045634**	**-.001854**	**.0444594**
Stddev	.001274	.0005747	.0020780	.0029938	.001094	.0036678
%RSD	79.93263	199.8794	61.75614	65.60440	59.00623	8.249769
#1	-.001639	-.000168	.0014050	.0063472	-.001260	.0477860
#2	-.000298	.000097	.0031460	.0062360	-.001186	.0450661
#3	-.002844	.000933	.0055437	.0011071	-.003117	.0405260

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006953**	**.0000530**	**.0000068**	**-.044457**	**.0001638**	**.0002563**
Stddev	.0011488	.0001091	.0000461	.020088	.0006365	.0001211
%RSD	165.2047	205.8412	681.1646	45.18434	388.5154	47.25312
#1	.0007549	.0001615	-.000014	-.022112	-.000012	.0003915
#2	.0018132	.0000541	.000060	-.050241	.000870	.0002198
#3	-.000482	-.000057	-.000025	-.061018	-.000366	.0001577

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017331**	**.0026187**	**.0009138**	**-.013916**	**.0006069**	**.0029553**
Stddev	.0006519	.0034233	.0015642	.051304	.0006171	.0012963
%RSD	37.61043	130.7240	171.1790	368.6690	101.6800	43.86137
#1	.0010383	-.001147	.0001209	.036523	.0010094	.0016758
#2	.0018300	.005542	-.000095	-.012228	-.000104	.0042677
#3	.0023312	.003462	.002716	-.066043	.000915	.0029225

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005611**	**-.004523**	**.0008960**	**.0090664**	**.0019485**	F **.0141646**
Stddev	.016403	.003237	.0006392	.0016338	.0028161	.0012260
%RSD	292.3614	71.56598	71.33326	18.02032	144.5262	8.655468
#1	-.022188	-.001115	.0011303	.0107089	.0047112	.0148052
#2	-.005257	-.004898	.0013850	.0090488	.0020526	.0127510
#3	.010613	-.007555	.0001728	.0074415	-.000918	.0149375

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB08 Acquired: 7/9/2025 18:58:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001825**	**.0038569**	**-.003518**	**-.008271**	**-.006805**	**.0151252**
Stddev	.0005573	.0011793	.001790	.001031	.006679	.0019085
%RSD	305.2918	30.57582	50.88168	12.46931	98.15333	12.61818
#1	.0000013	.0051668	-.004415	-.007883	-.013525	.0139832
#2	.0008079	.0035240	-.001457	-.007490	-.006722	.0173285
#3	-.000262	.0028798	-.004682	-.009440	-.000167	.0140640

Elem	Sr4077
Units	ppm
Avg	**-.000056**
Stddev	.000152
%RSD	271.0329
#1	-.000189
#2	.000109
#3	-.000089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.957**	**33401.18**	**2546.751**	**2058.280**	**5010.928**
Stddev	3.509	227.53	11.566	1.023	4.322
%RSD	.1047876	.6812167	.4541429	.0496933	.0862567
#1	3348.787	33232.03	2557.548	2057.282	5015.875
#2	3352.548	33659.86	2534.546	2059.326	5007.883
#3	3345.536	33311.65	2548.158	2058.232	5009.025

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-16 Acquired: 7/9/2025 19:03:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4982760**	**.0136779**	**32.19862**	**.1317794**	**.0394923**	**120.9030**
Stddev	.0032804	.0058286	.07199	.0064781	.0045047	.1738
%RSD	.6583452	42.61346	.2235817	4.915839	11.40653	.1437623
#1	.5007639	.0189385	32.28171	.1387437	.0355875	120.9280
#2	.4995056	.0146831	32.15940	.1306615	.0384687	120.7181
#3	.4945585	.0074120	32.15476	.1259331	.0444207	121.0630

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.66444**	**.0236137**	**.0863300**	**640.2007**	**2.455768**	**1.024098**
Stddev	.03980	.0002281	.0000881	1.5172	.005733	.001641
%RSD	.3142397	.9658588	.1020947	.2369804	.2334394	.1602158
#1	12.67064	.0234303	.0862786	640.7179	2.461181	1.025894
#2	12.62192	.0235416	.0862796	638.4925	2.449762	1.022678
#3	12.70078	.0238691	.0864318	641.3916	2.456362	1.023723

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.08621**	**852.0115**	**8.169077**	**84.36588**	**.5732348**	**-.030414**
Stddev	.05569	9.8614	.041759	.33959	.0012483	.002237
%RSD	.4607566	1.157429	.5111795	.4025214	.2177704	7.354678
#1	12.13664	863.1466	8.174754	84.66160	.5742839	-.028846
#2	12.02645	848.5068	8.124771	84.44104	.5718542	-.029421
#3	12.09555	844.3812	8.207707	83.99501	.5735664	-.032976

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.35639**	**.4929371**	F **77.45123**	**21.37173**	**12.47450**	**.4646250**
Stddev	.08994	.0215462	.70033	.15004	.03767	.0130376
%RSD	.6733745	4.370980	.9042229	.7020709	.3019469	2.806052
#1	13.45831	.4680872	77.46006	21.42755	12.51732	.4761160
#2	13.28814	.5064114	78.14710	21.20178	12.44648	.4673027
#3	13.32274	.5043125	76.74652	21.48587	12.45970	.4504565

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-16 Acquired: 7/9/2025 19:03:15 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.225194	F 120.1039	F 26.96132	11.86449	5.961247	.1575643
Stddev	.003915	.2006	.14685	.02431	.023326	.0070466
%RSD	.3195141	.1669809	.5446766	.2048748	.3912964	4.472202
#1	1.228227	120.2400	27.06578	11.89251	5.968882	.1500200
#2	1.220775	119.8736	26.79341	11.85195	5.935060	.1639760
#3	1.226581	120.1981	27.02476	11.84901	5.979798	.1586969

Elem	Sr4077
Units	ppm
Avg	3.295149
Stddev	.008965
%RSD	.2720704
#1	3.298450
#2	3.285001
#3	3.301995

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3403.814	33478.44	2881.408	2091.196	3999.410
Stddev	7.152	40.36	6.801	11.441	3.648
%RSD	.2101120	.1205584	.2360247	.5471210	.0912231
#1	3396.927	33436.89	2875.661	2093.351	3996.809
#2	3403.312	33480.92	2888.916	2078.830	3997.841
#3	3411.204	33517.50	2879.646	2101.407	4003.581

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-01DLX5 Acquired: 7/9/2025 19:08:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0626682	.0078179	5.142353	.0184607	.0163863	44.77757
Stddev	.0029830	.0010858	.037910	.0055910	.0037653	.13342
%RSD	4.759992	13.88851	.7372180	30.28605	22.97857	.2979692
#1	.0623328	.0082622	5.099209	.0224410	.0207231	44.65765
#2	.0658048	.0065805	5.157510	.0120686	.0144856	44.75377
#3	.0598671	.0086112	5.170341	.0208726	.0139501	44.92129

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.826495	.0048684	.0043935	91.91103	.1012489	.0664245
Stddev	.000605	.0000623	.0000387	.07532	.0006907	.0008952
%RSD	.0331425	1.280149	.8800508	.0819518	.6821833	1.347704
#1	1.826451	.0048245	.0043712	91.86186	.1013682	.0655067
#2	1.827122	.0048409	.0044381	91.87350	.1018721	.0672952
#3	1.825914	.0049397	.0043711	91.99775	.1005063	.0664716

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.390791	86.82675	1.433505	7.461488	.2205053	.0099170
Stddev	.004646	.42251	.004671	.076609	.0007189	.0019258
%RSD	.3340696	.4866140	.3258387	1.026732	.3260270	19.41887
#1	1.385970	86.54753	1.428793	7.405372	.2198326	.0105017
#2	1.395240	86.61989	1.433588	7.548768	.2204205	.0077666
#3	1.391163	87.31283	1.438134	7.430324	.2212629	.0114825

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.297272	.1996362	4.663760	6.763578	8.780623	.0916433
Stddev	.012470	.0055864	.041060	.004294	.053269	.0016034
%RSD	.1502943	2.798312	.8804128	.0634916	.6066658	1.749625
#1	8.285950	.2053556	4.647656	6.758640	8.720675	.0903482
#2	8.295227	.1941929	4.633193	6.765653	8.798673	.0911451
#3	8.310638	.1993601	4.710432	6.766440	8.822523	.0934367

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-01DLX5 Acquired: 7/9/2025 19:08:00 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097482**	**4.983343**	F **26.71354**	**.0586143**	**.6563488**	**.1250109**
Stddev	.0002747	.028474	.07991	.0008485	.0025893	.0032306
%RSD	2.818113	.5713811	.2991181	1.447571	.3944990	2.584242
#1	.0094511	4.951432	26.62179	.0589992	.6534410	.1260745
#2	.0098006	4.992443	26.76790	.0592020	.6572003	.1275757
#3	.0099930	5.006155	26.75092	.0576415	.6584052	.1213827

Elem	Sr4077
Units	ppm
Avg	**.7945190**
Stddev	.0004830
%RSD	.0607935
#1	.7939759
#2	.7946806
#3	.7949005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3584.929**	**35550.87**	**2815.189**	**2227.548**	**4552.415**
Stddev	6.249	172.82	12.918	20.119	10.537
%RSD	.1743238	.4861330	.4588740	.9031978	.2314577
#1	3592.067	35606.95	2825.103	2234.141	4563.377
#2	3580.442	35688.68	2819.884	2243.544	4551.505
#3	3582.278	35356.97	2800.580	2204.960	4542.362

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168740BL Acquired: 7/9/2025 19:12:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006025**	**.0001289**	**.0042036**	**-.000586**	**-.001284**	**-.005638**	**.0010119**
Stddev	.0029170	.0007857	.0006820	.003530	.001460	.012400	.0005841
%RSD	484.1084	609.5252	16.22451	602.3140	113.7212	219.9472	57.72510
#1	.0039321	-.000339	.0047137	.003485	-.002543	.008643	.0003675
#2	-.001503	.001036	.0034289	-.002439	.000316	-.011884	.0011616
#3	-.000621	-.000310	.0044681	-.002804	-.001625	-.013673	.0015066

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000936**	**-.000100**	**-.011450**	**.0000740**	**.0003037**	**.0009378**	**.0027733**
Stddev	.0002103	.000044	.008664	.0003119	.0002249	.0010022	.0027379
%RSD	224.7204	43.65184	75.67053	421.5128	74.03560	106.8677	98.72616
#1	.0002735	-.000051	-.009090	.0001858	.0002296	.0003269	.0022956
#2	.0001449	-.000113	-.004210	-.000278	.0005563	.0003921	.0003056
#3	-.000138	-.000136	-.021049	.000315	.0001253	.0020943	.0057186

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015387**	**-.040654**	**-.000036**	**.0007041**	**-.014557**	**-.005937**	**.0032358**
Stddev	.0021889	.085256	.000539	.0012020	.014438	.004022	.0004606
%RSD	142.2615	209.7101	1517.320	170.7004	99.18194	67.74009	14.23509
#1	.0038427	-.008141	.000540	-.000653	-.011449	-.010100	.0036903
#2	-.000513	-.137383	-.000120	.001131	-.001926	-.005635	.0027693
#3	.001287	.023562	-.000527	.001635	-.030296	-.002074	.0032480

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081022**	**.0002269**	**-.002041**	**.0002960**	**.0146830**	**-.000714**	**-.008430**
Stddev	.0014701	.0019333	.000358	.0000347	.0038878	.002199	.001230
%RSD	18.14398	851.9108	17.53403	11.73258	26.47830	308.1090	14.59160
#1	.0081367	-.001251	-.002416	.0002959	.0187891	.001744	-.008448
#2	.0066152	.002415	-.001704	.0003308	.0142016	-.002496	-.007191
#3	.0095547	-.000483	-.002004	.0002613	.0110583	-.001389	-.009651

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168740BL Acquired: 7/9/2025 19:12:25 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003748	.0087227	-.000035
Stddev	.006296	.0073106	.000275
%RSD	167.9856	83.81078	782.8308
#1	-.004291	.0136165	-.000309
#2	-.009755	.0003191	.000241
#3	.002802	.0122327	-.000038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3441.538	34633.39	2638.400	2137.202	5124.627
Stddev	9.472	182.55	15.863	23.174	5.378
%RSD	.2752149	.5270985	.6012174	1.084321	.1049531
#1	3451.119	34809.41	2632.442	2163.952	5130.434
#2	3441.314	34645.84	2626.379	2124.425	5123.631
#3	3432.180	34444.94	2656.379	2123.228	5119.816

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168740BS Acquired: 7/9/2025 19:16:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6507392**	**1.918902**	**.8723017**	**1.880737**	**.7670042**	**1.884539**	**.1984276**
Stddev	.0030383	.006676	.0006014	.005918	.0009776	.017864	.0026273
%RSD	.4668942	.3479266	.0689411	.3146508	.1274534	.9479128	1.324068
#1	.6479436	1.926611	.8717764	1.885164	.7677153	1.879487	.2013802
#2	.6503014	1.915137	.8729577	1.874016	.7674078	1.904385	.1975550
#3	.6539726	1.914959	.8721711	1.883031	.7658894	1.869746	.1963477

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1984054**	**.1749200**	**.9681519**	**.3700823**	**.1748407**	**.3049141**	**3.098726**
Stddev	.0049869	.0003509	.0145341	.0010516	.0003178	.0072054	.071527
%RSD	2.513496	.2006241	1.501220	.2841406	.1817576	2.363080	2.308276
#1	.2035853	.1751897	.9763580	.3712647	.1746406	.3117551	3.175196
#2	.1979938	.1745233	.9767271	.3697299	.1746745	.3055946	3.087517
#3	.1936370	.1750471	.9513708	.3692521	.1752072	.2973927	3.033465

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1983423**	**1.924072**	**.4455676**	**.0686458**	**2.555342**	**.2730629**	**.1971109**
Stddev	.0016476	.008482	.0007070	.0003627	.076041	.0126995	.0012803
%RSD	.8307041	.4408153	.1586706	.5283257	2.975777	4.650747	.6495108
#1	.1996016	1.930462	.4463799	.0682694	2.623238	.2829781	.1984650
#2	.1989478	1.927304	.4450905	.0689929	2.569612	.2587489	.1959202
#3	.1964776	1.914449	.4452326	.0686751	2.473177	.2774618	.1969476

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.740575**	**5.507840**	**.2835765**	**.3939007**	**.0125677**	**.8907515**	**.6314899**
Stddev	.169229	.016311	.0056299	.0003438	.0048059	.0232552	.0029824
%RSD	2.186257	.2961454	1.985317	.0872930	38.24034	2.610744	.4722790
#1	7.920454	5.524813	.2889129	.3942924	.0165946	.9122423	.6336820
#2	7.716749	5.492283	.2841234	.3937609	.0138611	.8939494	.6280937
#3	7.584522	5.506424	.2776931	.3936487	.0072474	.8660628	.6326942

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: PB168740BS Acquired: 7/9/2025 19:16:54 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1914944	.2246713	.1985478
Stddev	.0010190	.0107865	.0021105
%RSD	.5321403	4.801005	1.062982
#1	.1905879	.2371137	.2003602
#2	.1912980	.2179630	.1990525
#3	.1925974	.2189371	.1962307

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3423.068	34333.10	2662.916	2122.381	4974.587
Stddev	11.427	252.36	47.156	15.987	8.700
%RSD	.3338183	.7350390	1.770852	.7532747	.1748927
#1	3420.513	34620.87	2617.779	2139.838	4968.519
#2	3413.135	34228.89	2659.109	2118.851	4970.687
#3	3435.556	34149.52	2711.861	2108.453	4984.555

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-05 Acquired: 7/9/2025 19:21:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2551406**	**-.004247**	**6.848828**	**.0613082**	**.0485640**	**57.45652**
Stddev	.0054667	.001662	.112651	.0050553	.0011137	.44353
%RSD	2.142631	39.12906	1.644817	8.245647	2.293181	.7719475
#1	.2494368	-.003947	6.721931	.0623095	.0479149	57.48597
#2	.2603345	-.006038	6.937035	.0657878	.0498500	57.88459
#3	.2556505	-.002755	6.887518	.0558272	.0479272	56.99899

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.400983**	**.0088518**	**.0076004**	**139.8172**	**.2170170**	**.1335241**
Stddev	.031816	.0002025	.0003949	.9228	.0010904	.0010314
%RSD	.9354818	2.287779	5.196361	.6599849	.5024339	.7724675
#1	3.407868	.0088557	.0072557	139.9324	.2180792	.1324925
#2	3.428793	.0090523	.0075143	140.6769	.2159005	.1335244
#3	3.366289	.0086473	.0080314	138.8422	.2170713	.1345554

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.30250**	**232.5646**	**2.511262**	**8.289435**	**.3308569**	**.4212239**
Stddev	1.16412	3.1438	.022600	.079248	.0023771	.0016703
%RSD	2.461007	1.351797	.8999507	.9560122	.7184580	.3965462
#1	48.54918	234.3178	2.515669	8.356898	.3282468	.4231248
#2	47.11449	234.4410	2.531334	8.309245	.3328975	.4205566
#3	46.24383	228.9352	2.486783	8.202161	.3314263	.4199904

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.456402**	**.5758872**	**10.80644**	**7.092221**	F **30.94958**	**.1070605**
Stddev	.042833	.0048300	.04834	.075269	.51231	.0016953
%RSD	1.239237	.8387060	.4473530	1.061288	1.655304	1.583478
#1	3.468247	.5792487	10.85062	7.088119	30.38537	.1088573
#2	3.492067	.5703523	10.81389	7.169457	31.38568	.1068350
#3	3.408894	.5780606	10.75480	7.019087	31.07769	.1054893

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2503-05 Acquired: 7/9/2025 19:21:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0672322	3.537359	2.848869	2.254723	1.254087	.1009330
Stddev	.0003324	.049650	.055513	.033309	.006925	.0041166
%RSD	.4943567	1.403604	1.948585	1.477301	.5522122	4.078498
#1	.0672342	3.483609	2.890138	2.217937	1.260009	.0977570
#2	.0668988	3.581507	2.870712	2.282841	1.255780	.1055838
#3	.0675636	3.546960	2.785758	2.263390	1.246472	.0994582

Elem	Sr4077
Units	ppm
Avg	1.462317
Stddev	.011898
%RSD	.8136249
#1	1.465178
#2	1.472522
#3	1.449249

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3579.252	35693.01	2893.796	2200.876	4339.718
Stddev	10.793	145.58	30.300	3.433	13.857
%RSD	.3015324	.4078740	1.047073	.1559667	.3193147
#1	3566.790	35757.78	2876.380	2197.183	4345.846
#2	3585.460	35794.98	2876.224	2203.970	4323.854
#3	3585.506	35526.29	2928.784	2201.476	4349.456

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2513-01 Acquired: 7/9/2025 19:25:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1455582**	**.0081158**	**.6865543**	**.0593641**	**.0249618**	**100.6745**	**1.202550**
Stddev	.0026323	.0023138	.0022721	.0030948	.0030479	.1688	.001203
%RSD	1.808427	28.50927	.3309471	5.213257	12.21006	.1676768	.1000489
#1	.1440600	.0107810	.6842402	.0557906	.0222986	100.6946	1.203885
#2	.1485976	.0066222	.6866407	.0611386	.0243010	100.4965	1.201548
#3	.1440169	.0069442	.6887821	.0611632	.0282858	100.8324	1.202219

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100479**	**.0006297**	**114.7309**	**.1489082**	**.1423025**	**.6843749**	**277.6854**
Stddev	.0000851	.0000751	.1114	.0005674	.0004142	.0070465	.2540
%RSD	.8472957	11.92304	.0971247	.3810362	.2910581	1.029625	.0914874
#1	.0100509	.0006367	114.7089	.1487923	.1426556	.6810787	277.7207
#2	.0101315	.0005514	114.6321	.1495246	.1418466	.6924654	277.9200
#3	.0099613	.0007010	114.8517	.1484077	.1424054	.6795806	277.4155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.623290**	**67.64463**	**.2253669**	**.0103391**	**6.194809**	**.3695484**	**2.360084**
Stddev	.029917	.14378	.0010555	.0012457	.073957	.0026192	.017862
%RSD	.3108834	.2125565	.4683654	12.04854	1.193862	.7087496	.7568206
#1	9.652232	67.49005	.2241682	.0100999	6.214613	.3665918	2.339643
#2	9.592485	67.66944	.2257752	.0116871	6.256848	.3715778	2.372688
#3	9.625153	67.77439	.2261573	.0092303	6.112965	.3704757	2.367920

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.064405**	**7.106419**	**.1800207**	**-.000643**	**8.343244**	**4.617729**	**.0619951**
Stddev	.149676	.020975	.0042118	.000432	.010916	.044907	.0009141
%RSD	1.651248	.2951563	2.339631	67.14939	.1308348	.9724954	1.474556
#1	9.215612	7.084533	.1838752	-.000146	8.333047	4.597208	.0626699
#2	9.061295	7.108379	.1755251	-.000861	8.341925	4.669231	.0609547
#3	8.916309	7.126345	.1806617	-.000923	8.354759	4.586749	.0623605

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2513-01 Acquired: 7/9/2025 19:25:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.071693	.1485250	.5899163
Stddev	.016814	.0097775	.0006823
%RSD	.5473769	6.583048	.1156550
#1	3.090192	.1515850	.5894146
#2	3.057339	.1375835	.5896411
#3	3.067549	.1564065	.5906932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3776.960	36805.41	2833.216	2315.062	4373.111
Stddev	5.307	129.84	26.764	19.278	13.710
%RSD	.1405051	.3527650	.9446395	.8327136	.3135062
#1	3782.603	36906.88	2852.904	2336.126	4388.888
#2	3772.070	36850.25	2802.742	2310.764	4366.347
#3	3776.206	36659.09	2844.003	2298.296	4364.097

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2513-03 Acquired: 7/9/2025 19:30:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0462083**	**-.000116**	**.3474428**	**.0346622**	**.0207184**	**64.21966**	**.4837584**
Stddev	.0033662	.004187	.0073146	.0059799	.0003352	.20504	.0019310
%RSD	7.284742	3613.257	2.105267	17.25188	1.618132	.3192789	.3991767
#1	.0423732	.002743	.3421929	.0333725	.0210803	64.02275	.4816926
#2	.0486735	-.004922	.3557977	.0294325	.0204184	64.43196	.4855181
#3	.0475782	.001832	.3443377	.0411818	.0206564	64.20428	.4840646

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057775**	**-.000146**	**63.10012**	**.1798678**	**.0900724**	**.2554066**	**194.0653**
Stddev	.0001039	.000204	.17047	.0010886	.0012679	.0001082	.5594
%RSD	1.797433	140.3514	.2701553	.6052234	1.407600	.0423444	.2882686
#1	.0057844	-.000364	62.97188	.1810269	.0887433	.2555161	194.5496
#2	.0058778	.000040	63.29357	.1788671	.0912685	.2552998	194.1934
#3	.0056704	-.000113	63.03491	.1797095	.0902053	.2554039	193.4530

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.372296**	**29.37715**	**.1166814**	**.0064984**	**2.691119**	**.2520847**	**.4507711**
Stddev	.006876	.02687	.0014257	.0001263	.012404	.0029918	.0012511
%RSD	.2898515	.0914698	1.221900	1.943203	.4609132	1.186842	.2775520
#1	2.364948	29.38152	.1153460	.0065153	2.702627	.2500065	.4503073
#2	2.378575	29.40157	.1181829	.0063644	2.677981	.2507337	.4521878
#3	2.373365	29.34836	.1165153	.0066153	2.692749	.2555138	.4498180

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.111365**	**2.830536**	**.1821364**	**-.003193**	**3.276773**	**6.389699**	**.0255737**
Stddev	.043230	.104683	.0032274	.000078	.113520	.044280	.0016464
%RSD	1.051480	3.698361	1.771985	2.456805	3.464371	.6929978	6.437908
#1	4.151446	2.764987	.1839071	-.003126	3.205488	6.424921	.0236735
#2	4.065557	2.951266	.1784112	-.003174	3.407681	6.339989	.0265756
#3	4.117091	2.775355	.1840909	-.003279	3.217150	6.404187	.0264719

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2513-03 Acquired: 7/9/2025 19:30:12 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.889714**	**.0685299**	**.1759342**
Stddev	.014942	.0062182	.0006087
%RSD	.5170654	9.073678	.3459627
#1	2.872599	.0677642	.1754454
#2	2.896386	.0750955	.1766159
#3	2.900158	.0627301	.1757412

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3626.774**	**35863.24**	**2839.746**	**2253.480**	**4520.926**
Stddev	49.899	99.32	9.398	13.800	87.512
%RSD	1.375863	.2769297	.3309450	.6124052	1.935711
#1	3644.336	35907.38	2830.377	2260.789	4568.269
#2	3570.467	35749.50	2849.173	2237.562	4419.942
#3	3665.517	35932.83	2839.689	2262.089	4574.569

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-01 Acquired: 7/9/2025 19:34:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1346120**	**-.022305**	**.2384003**	**.1257791**	**.0265109**	**168.0311**	**1.060561**
Stddev	.0030090	.002647	.0038455	.0038685	.0036169	.3217	.003578
%RSD	2.235304	11.86776	1.613059	3.075614	13.64319	.1914780	.3373353
#1	.1319264	-.024762	.2369325	.1294223	.0305923	167.9347	1.057050
#2	.1340456	-.019502	.2427636	.1261959	.0237030	168.3900	1.064202
#3	.1378639	-.022652	.2355049	.1217191	.0252372	167.7686	1.060431

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157232**	**-.001666**	**3.609464**	**.2283550**	**.0454309**	**.0251581**	**470.1018**
Stddev	.0000973	.000150	.023079	.0007529	.0004679	.0006829	1.2441
%RSD	.6187248	9.019282	.6393923	.3296936	1.029842	2.714543	.2646498
#1	.0156348	-.001499	3.625218	.2274920	.0455218	.0247309	469.0328
#2	.0158274	-.001791	3.582973	.2288776	.0458466	.0259457	471.4675
#3	.0157075	-.001709	3.620200	.2286954	.0449242	.0247977	469.8052

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7667527**	**7.071162**	**.0963862**	**.0038013**	**7.291468**	**.4582267**	**.4343889**
Stddev	.0054101	.125456	.0006914	.0006854	.055441	.0039260	.0011203
%RSD	.7055931	1.774188	.7172840	18.03054	.7603512	.8567736	.2579079
#1	.7703629	7.082140	.0966255	.0041674	7.267978	.4540301	.4336942
#2	.7693629	7.190768	.0969261	.0030106	7.354786	.4618098	.4337912
#3	.7605324	6.940578	.0956070	.0042260	7.251638	.4588403	.4356813

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.192979**	**6.804467**	**.1826224**	**.0017705**	**1.758180**	**4.858614**	**.0067414**
Stddev	.103247	.008720	.0038840	.0002830	.007327	.036835	.0020115
%RSD	1.260183	.1281502	2.126786	15.98143	.4167359	.7581305	29.83810
#1	8.160285	6.814410	.1786676	.0020266	1.752730	4.829753	.0090239
#2	8.308615	6.800866	.1827682	.0014668	1.755302	4.900101	.0052277
#3	8.110038	6.798123	.1864314	.0018182	1.766509	4.845986	.0059727

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-01 Acquired: 7/9/2025 19:34:36 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.491593**	**.0411787**	**.0407970**
Stddev	.012519	.0025086	.0003619
%RSD	.5024420	6.092022	.8871181
#1	2.500890	.0405145	.0410871
#2	2.496531	.0390691	.0409125
#3	2.477359	.0439526	.0403915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3641.766**	**35446.03**	**2862.489**	**2239.230**	**4549.923**
Stddev	4.469	21.41	13.706	6.807	5.889
%RSD	.1227153	.0604122	.4788242	.3039769	.1294212
#1	3644.870	35465.21	2873.761	2247.077	4550.631
#2	3643.785	35449.96	2847.231	2235.692	4555.426
#3	3636.644	35422.92	2866.475	2234.921	4543.713

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-02 Acquired: 7/9/2025 19:39:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2050248**	**-.040528**	**.2195851**	**.1331316**	**.0322765**	**158.1166**	**.3400230**
Stddev	.0042307	.004357	.0035242	.0059235	.0007067	.6758	.0012467
%RSD	2.063519	10.75169	1.604929	4.449392	2.189572	.4274123	.3666376
#1	.2010207	-.042769	.2156580	.1382255	.0327316	158.8399	.3413430
#2	.2046030	-.035506	.2206252	.1266315	.0326355	157.5014	.3398601
#3	.2094506	-.043309	.2224723	.1345378	.0314623	158.0084	.3388658

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0163410**	**.0002982**	**7.632160**	**.4485209**	**.0498836**	**.0820642**	**504.9977**
Stddev	.0002933	.0002153	.028620	.0009644	.0010458	.0001277	5.5262
%RSD	1.794565	72.20656	.3749910	.2150188	2.096435	.1556015	1.094301
#1	.0162661	.0003788	7.663228	.4483750	.0487537	.0821911	503.9910
#2	.0166645	.0004616	7.626381	.4476378	.0508175	.0820658	500.0440
#3	.0160925	.0000542	7.606870	.4495500	.0500797	.0819357	510.9580

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8759597**	**7.716740**	**.1007078**	**.0033955**	**14.06703**	**.7992148**	**.3283670**
Stddev	.0044092	.100344	.0005933	.0012373	.01892	.0098583	.0007293
%RSD	.5033580	1.300342	.5890815	36.44051	.1344669	1.233497	.2221046
#1	.8724723	7.832174	.1008491	.0033479	14.08882	.8102950	.3283130
#2	.8744910	7.650356	.1000567	.0021827	14.05747	.7959350	.3276661
#3	.8809158	7.667690	.1012177	.0046560	14.05480	.7914145	.3291218

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.703488**	**7.457070**	**.1698861**	**.0069371**	**2.576204**	**1.786633**	**.0088300**
Stddev	.035202	.029065	.0032777	.0005355	.004942	.006859	.0006491
%RSD	.5251305	.3897623	1.929373	7.719575	.1918486	.3838840	7.351083
#1	6.730549	7.442722	.1683601	.0064941	2.581905	1.779416	.0080911
#2	6.716224	7.490519	.1676497	.0075322	2.573584	1.787416	.0093084
#3	6.663690	7.437969	.1736486	.0067852	2.573123	1.793066	.0090905

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-02 Acquired: 7/9/2025 19:39:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.722190**	**.0480664**	**.0518603**
Stddev	.005292	.0025355	.0000923
%RSD	.1944103	5.274934	.1778811
#1	2.722515	.0460539	.0518188
#2	2.716743	.0472312	.0519660
#3	2.727312	.0509141	.0517961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3883.146**	**37940.93**	**3047.012**	**2388.860**	**4453.186**
Stddev	4.897	291.96	26.680	19.342	8.586
%RSD	.1261153	.7695075	.8756061	.8096941	.1927967
#1	3883.420	37818.70	3051.486	2376.797	4457.583
#2	3878.117	38274.14	3071.173	2411.170	4443.292
#3	3887.900	37729.96	3018.379	2378.612	4458.682

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-03 Acquired: 7/9/2025 19:43:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1931978**	**-.036500**	**.3228651**	**.1346209**	**.0299333**	**195.0115**	**.4772949**
Stddev	.0025506	.002826	.0032050	.0052698	.0028977	.7609	.0063441
%RSD	1.320196	7.741369	.9926700	3.914579	9.680659	.3901657	1.329179
#1	.1955563	-.033661	.3224317	.1318555	.0300744	195.8349	.4846003
#2	.1904909	-.036528	.3198989	.1406979	.0269675	194.8651	.4741128
#3	.1935461	-.039312	.3262647	.1313095	.0327578	194.3344	.4731717

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166896**	**-.000460**	**2.505054**	**.3592865**	**.0712562**	**.0851926**	**495.6282**
Stddev	.0004103	.000267	.029455	.0005778	.0000563	.0005737	4.4571
%RSD	2.458585	58.02394	1.175837	.1608273	.0789817	.6734436	.8992889
#1	.0168439	-.000745	2.485863	.3588142	.0711914	.0856996	500.5010
#2	.0162244	-.000417	2.490332	.3599308	.0712930	.0853085	494.6261
#3	.0170003	-.000217	2.538968	.3591146	.0712842	.0845698	491.7574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.074664**	**14.32720**	**.1382570**	**.0013039**	**5.117470**	**.7391138**	**.3966522**
Stddev	.009461	.00916	.0006676	.0008249	.030264	.0237382	.0006013
%RSD	.8804120	.0639263	.4828331	63.26022	.5913776	3.211707	.1515876
#1	1.085579	14.31935	.1390111	.0012100	5.151343	.7664359	.3969518
#2	1.069605	14.32498	.1380182	.0021717	5.093094	.7235478	.3959600
#3	1.068807	14.33726	.1377417	.0005300	5.107973	.7273578	.3970448

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.790188**	**5.198318**	**.1425603**	**.0086225**	**4.060346**	**2.575490**	**.0090373**
Stddev	.154329	.010443	.0020889	.0002204	.001283	.014473	.0011139
%RSD	1.981067	.2008929	1.465284	2.555832	.0315974	.5619548	12.32571
#1	7.898963	5.210364	.1427806	.0084270	4.058895	2.591091	.0091130
#2	7.613557	5.192782	.1445304	.0088614	4.061330	2.562499	.0078875
#3	7.858043	5.191809	.1403700	.0085793	4.060815	2.572880	.0101114

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-03 Acquired: 7/9/2025 19:43:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.113691	.1198500	.0270735
Stddev	.035848	.0064208	.0005557
%RSD	1.151298	5.357367	2.052451
#1	3.154638	.1150985	.0277128
#2	3.098469	.1172969	.0268020
#3	3.087967	.1271547	.0267059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3786.317	36886.99	2976.245	2340.026	4513.897
Stddev	3.419	330.55	35.109	16.962	8.080
%RSD	.0903058	.8961204	1.179656	.7248751	.1790116
#1	3785.112	36522.29	2938.654	2321.875	4511.893
#2	3783.663	37166.87	3008.188	2355.475	4507.008
#3	3790.175	36971.81	2981.895	2342.729	4522.791

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV09 Acquired: 7/9/2025 19:48:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.798991**	**5.116059**	**4.871513**	**5.081587**	**5.030200**	**9.969881**	**10.42955**
Stddev	.003172	.005381	.009493	.009025	.013721	.097630	.02103
%RSD	.0661005	.1051842	.1948731	.1775981	.2727675	.9792538	.2016267
#1	4.801409	5.109855	4.867227	5.079050	5.026330	9.902634	10.44826
#2	4.795399	5.118853	4.864918	5.074102	5.018829	10.08186	10.43360
#3	4.800165	5.119468	4.882393	5.091609	5.045439	9.92515	10.40680

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2554463**	**2.448048**	**25.40523**	**.9832268**	**2.387406**	**1.258252**	**5.050330**
Stddev	.0011218	.002986	.05455	.0003279	.001567	.007249	.034025
%RSD	.4391541	.1219948	.2147233	.0333539	.0656565	.5760944	.6737221
#1	.2542048	2.446254	25.38064	.9832786	2.387024	1.256047	5.052362
#2	.2563871	2.446394	25.46775	.9828760	2.386065	1.266348	5.083293
#3	.2557470	2.451496	25.36731	.9835257	2.389129	1.252362	5.015334

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.549631**	**24.37645**	**2.413986**	**1.245453**	**23.74515**	**2.537926**	**2.536086**
Stddev	.003864	.14663	.002356	.000634	.09551	.007773	.003249
%RSD	.1515631	.6015143	.0976135	.0509132	.4022498	.3062726	.1281174
#1	2.553279	24.27019	2.413121	1.244799	23.82956	2.533670	2.535025
#2	2.550032	24.54374	2.412184	1.246065	23.76441	2.533210	2.533500
#3	2.545581	24.31542	2.416652	1.245495	23.64147	2.546897	2.539733

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.76568**	**5.289790**	**5.101316**	**5.179981**	**4.857203**	**5.207117**	**4.987031**
Stddev	.08860	.021240	.026249	.005137	.010428	.027431	.008555
%RSD	.3727887	.4015198	.5145577	.0991779	.2146985	.5267902	.1715420
#1	23.76504	5.266383	5.100594	5.176839	4.850536	5.201580	4.986398
#2	23.85459	5.307834	5.127919	5.177194	4.851853	5.236894	4.978811
#3	23.67740	5.295153	5.075436	5.185909	4.869221	5.182877	4.995885

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV09 Acquired: 7/9/2025 19:48:06 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.171392**	**5.105125**	**5.177249**
Stddev	.012593	.011950	.008216
%RSD	.2435058	.2340725	.1587006
#1	5.158441	5.091336	5.169053
#2	5.183593	5.111588	5.185486
#3	5.172141	5.112452	5.177207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.095**	**32909.29**	**2614.831**	**2036.509**	**4472.377**
Stddev	10.922	130.37	12.546	3.845	12.978
%RSD	.3311735	.3961418	.4798033	.1888161	.2901809
#1	3307.332	32783.77	2608.360	2032.262	4485.066
#2	3300.913	33044.02	2606.843	2037.510	4472.936
#3	3286.039	32900.09	2629.292	2039.755	4459.128

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB09 Acquired: 7/9/2025 19:52:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008299**	**-.000098**	**.0027458**	**.0026013**	**-.000294**	**-.001068**
Stddev	.0014513	.001856	.0018976	.0034978	.002996	.035837
%RSD	174.8808	1891.056	69.10838	134.4601	1019.378	3356.218
#1	.0006473	.002042	.0049365	.0059365	-.000789	.038777
#2	.0023637	-.001078	.0016108	.0029065	.002919	-.030665
#3	-.000522	-.001259	.0016902	-.001039	-.003011	-.011315

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013689**	**.0001019**	**.0000352**	**-.082778**	**-.000706**	**.0002477**
Stddev	.0008725	.0001239	.0000598	.032996	.000615	.0003449
%RSD	63.73770	121.6018	169.8425	39.86104	87.09889	139.2397
#1	.0011019	.0002330	.0000617	-.068208	-.000062	.0006317
#2	.0023438	-.000013	.0000773	-.120551	-.001288	.0001468
#3	.0006611	.000086	-.000033	-.059575	-.000769	-.000036

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015494**	**.0032130**	**.0027438**	**-.076635**	**.0003412**	**.0025941**
Stddev	.0003791	.0020207	.0033065	.037138	.0003335	.0004733
%RSD	24.46934	62.88940	120.5078	48.46148	97.72065	18.24341
#1	.0011696	.0047610	.0052422	-.076126	.0000299	.0026643
#2	.0019279	.0009271	-.001006	-.114026	.0006932	.0020897
#3	.0015507	.0039510	.003995	-.039754	.0003007	.0030284

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.031046**	**-.004582**	**.0003870**	**.0048700**	**.0015260**	F **.0103837**
Stddev	.010173	.003540	.0001780	.0012859	.0011810	.0022851
%RSD	32.76741	77.25834	45.98736	26.40522	77.39305	22.00688
#1	-.030538	-.005778	.0001815	.0033854	.0023982	.0115416
#2	-.041464	-.007369	.0004911	.0056373	.0001820	.0077514
#3	-.021137	-.000599	.0004885	.0055872	.0019978	.0118581

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB09 Acquired: 7/9/2025 19:52:22 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004372	.0055434	-.001635	.0018976	-.003143	.0122926
Stddev	.0006394	.0030086	.000420	.0012223	.006092	.0032333
%RSD	146.2407	54.27403	25.66749	64.41488	193.8104	26.30254
#1	.0001096	.0032556	-.001391	.0032325	-.010178	.0099068
#2	.0011740	.0044232	-.001395	.0016270	.000352	.0159725
#3	.0000280	.0089515	-.002120	.0008332	.000396	.0109985

Elem	Sr4077
Units	ppm
Avg	.0001823
Stddev	.0001818
%RSD	99.71813
#1	-.000025
#2	.000257
#3	.000315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.762	33823.72	2586.919	2088.672	5011.572
Stddev	3.756	235.54	14.752	10.667	6.680
%RSD	.1119160	.6963714	.5702578	.5107011	.1332959
#1	3359.460	33570.71	2593.315	2077.236	5004.793
#2	3351.951	34036.64	2597.394	2098.352	5011.775
#3	3355.874	33863.81	2570.048	2090.429	5018.149

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-04 Acquired: 7/9/2025 19:56:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2129442**	**-.036434**	**.3363500**	**.1364878**	**.0311264**	**221.9117**	**.4784578**
Stddev	.0043945	.002111	.0006382	.0027904	.0013597	.9503	.0073644
%RSD	2.063686	5.793609	.1897295	2.044415	4.368332	.4282275	1.539195
#1	.2082410	-.037483	.3370667	.1369046	.0300558	221.5136	.4790028
#2	.2169455	-.037816	.3361401	.1335125	.0326563	221.2253	.4708361
#3	.2136462	-.034004	.3358433	.1390464	.0306671	222.9963	.4855347

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0173729**	**-.001086**	**5.290529**	**.4114549**	**.0589090**	**.0738702**	**490.4064**
Stddev	.0004947	.000255	.061271	.0014282	.0005879	.0007229	2.5748
%RSD	2.847688	23.51846	1.158127	.3471186	.9979712	.9786628	.5250248
#1	.0175995	-.001057	5.257543	.4124835	.0595191	.0743271	489.7980
#2	.0168054	-.000846	5.252817	.4120569	.0588616	.0730367	488.1903
#3	.0177137	-.001354	5.361226	.4098242	.0583462	.0742467	493.2308

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.125860**	**11.98548**	**.1269218**	**.0021838**	**4.555192**	**.7456800**	**.3909786**
Stddev	.012007	.19542	.0005005	.0017561	.072494	.0045419	.0015801
%RSD	1.066485	1.630437	.3943237	80.41708	1.591462	.6090911	.4041364
#1	1.122354	12.03409	.1272666	.0009839	4.546116	.7404359	.3912506
#2	1.115997	11.77034	.1271511	.0013680	4.487663	.7483582	.3924050
#3	1.139231	12.15200	.1263478	.0041994	4.631797	.7482460	.3892801

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.557588**	**6.104723**	**.1347614**	**.0101764**	**6.522982**	**2.294789**	**.0089125**
Stddev	.119935	.025537	.0027439	.0001835	.006578	.044164	.0015311
%RSD	1.401502	.4183125	2.036115	1.802836	.1008364	1.924539	17.17897
#1	8.541510	6.132779	.1330753	.0100471	6.530255	2.302596	.0101016
#2	8.446503	6.098552	.1379276	.0103864	6.521241	2.247242	.0071849
#3	8.684750	6.082837	.1332813	.0100958	6.517451	2.334528	.0094510

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-04 Acquired: 7/9/2025 19:56:51 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.274005**	**.1232928**	**.0607590**
Stddev	.027127	.0025228	.0007470
%RSD	.8285681	2.046208	1.229373
#1	3.286663	.1236851	.0604739
#2	3.242863	.1255964	.0601966
#3	3.292491	.1205968	.0616065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.095**	**34712.90**	**2832.452**	**2212.302**	**4324.313**
Stddev	21.359	206.28	37.965	16.032	22.779
%RSD	.5941148	.5942344	1.340371	.7246636	.5267653
#1	3570.433	34863.57	2838.100	2221.683	4298.014
#2	3607.216	34477.80	2867.277	2193.791	4337.069
#3	3607.637	34797.32	2791.979	2221.434	4337.856

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-05 Acquired: 7/9/2025 20:01:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1832338**	**-.036475**	**.2943694**	**.1269799**	**.0275054**	**218.4311**	**.5958374**
Stddev	.0043311	.004611	.0026769	.0003398	.0033625	.2413	.0016898
%RSD	2.363709	12.64120	.9093653	.2676101	12.22470	.1104694	.2836035
#1	.1881401	-.034905	.2974593	.1273720	.0276189	218.3001	.5949695
#2	.1799410	-.041666	.2927537	.1267716	.0308098	218.7095	.5977849
#3	.1816203	-.032855	.2928951	.1267960	.0240877	218.2835	.5947580

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0164194**	**-.000940**	**5.007280**	**.3328526**	**.0712197**	**.0929197**	**461.3590**
Stddev	.0002121	.000088	.014923	.0006757	.0001371	.0017915	4.9881
%RSD	1.291918	9.406625	.2980268	.2029928	.1924370	1.928047	1.081180
#1	.0165571	-.000838	5.015763	.3324973	.0712765	.0927945	459.1407
#2	.0165261	-.000990	5.016028	.3324287	.0710634	.0947706	467.0715
#3	.0161752	-.000992	4.990049	.3336318	.0713193	.0911942	457.8648

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9721868**	**14.70038**	**.1419030**	**.0024035**	**12.38886**	**.7349057**	**.3741300**
Stddev	.0014558	.06591	.0003235	.0003930	.13188	.0180834	.0017240
%RSD	.1497425	.4483800	.2279522	16.35138	1.064529	2.460643	.4607984
#1	.9725813	14.64508	.1416600	.0028573	12.33865	.7215962	.3751222
#2	.9734047	14.77332	.1417788	.0021802	12.53847	.7554943	.3721393
#3	.9705745	14.68274	.1422702	.0021730	12.28945	.7276266	.3751285

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.447356**	**4.907492**	**.1294312**	**.0084699**	**2.692043**	**6.122291**	**.0061842**
Stddev	.018588	.007077	.0027114	.0000839	.003804	.038251	.0007313
%RSD	.2200431	.1441981	2.094817	.9908298	.1413202	.6247761	11.82546
#1	8.467733	4.911699	.1272828	.0085593	2.696342	6.094951	.0064793
#2	8.443007	4.899322	.1324776	.0084575	2.689112	6.166003	.0067219
#3	8.431329	4.911456	.1285330	.0083929	2.690673	6.105919	.0053514

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-05 Acquired: 7/9/2025 20:01:23 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.668674**	**.1369660**	**.0468013**
Stddev	.005009	.0036122	.0002801
%RSD	.1365465	2.637259	.5985515
#1	3.672950	.1374490	.0466490
#2	3.663162	.1403123	.0466302
#3	3.669909	.1331366	.0471245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3732.806**	**36048.64**	**2946.103**	**2300.290**	**4481.280**
Stddev	12.521	126.44	23.243	13.612	10.066
%RSD	.3354412	.3507587	.7889269	.5917546	.2246127
#1	3735.364	36181.86	2970.341	2313.770	4480.749
#2	3719.203	36033.77	2924.003	2300.550	4471.491
#3	3743.851	35930.29	2943.966	2286.550	4491.601

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-06 Acquired: 7/9/2025 20:05:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1891571**	**-.032743**	**.2253023**	**.1283562**	**.0264172**	**192.5059**	**.4515416**
Stddev	.0017953	.002655	.0007724	.0043193	.0006831	.5372	.0007423
%RSD	.9490959	8.108787	.3428410	3.365065	2.585764	.2790708	.1643832
#1	.1910370	-.031001	.2261725	.1256428	.0267862	192.3524	.4522394
#2	.1874605	-.035799	.2250369	.1260889	.0268365	193.1032	.4516236
#3	.1889738	-.031430	.2246976	.1333370	.0256290	192.0621	.4507617

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172032**	**.0005378**	**10.01927**	**.4110547**	**.0749342**	**.0662196**	**492.9517**
Stddev	.0000900	.0002841	.04760	.0018095	.0005475	.0006761	4.9331
%RSD	.5233193	52.82735	.4750419	.4402104	.7306080	1.021047	1.000729
#1	.0172869	.0005378	9.99400	.4102571	.0754876	.0663255	492.4105
#2	.0172147	.0008219	10.07417	.4131259	.0749223	.0654968	488.3115
#3	.0171080	.0002537	9.98963	.4097810	.0743928	.0668366	498.1331

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.167105**	**10.70639**	**.1253404**	**.0014697**	**5.436204**	**.7228581**	**.3452945**
Stddev	.007660	.05414	.0001785	.0008704	.029396	.0014607	.0014164
%RSD	.6563431	.5056464	.1424329	59.22395	.5407458	.2020684	.4102003
#1	1.160356	10.69953	.1253752	.0008338	5.460476	.7239827	.3447898
#2	1.175431	10.65600	.1251470	.0011137	5.444618	.7233843	.3441996
#3	1.165530	10.76362	.1254989	.0024618	5.403518	.7212072	.3468941

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.323550**	**6.143620**	**.1099269**	**.0069448**	**2.673434**	**1.540176**	**.0069290**
Stddev	.017783	.011236	.0089571	.0004409	.002811	.007390	.0007157
%RSD	.3340497	.1828956	8.148218	6.348717	.1051437	.4798062	10.32841
#1	5.338059	6.147401	.1072815	.0064670	2.673316	1.537514	.0064417
#2	5.328880	6.130981	.1025905	.0070317	2.670683	1.548528	.0065947
#3	5.303711	6.152479	.1199088	.0073359	2.676302	1.534486	.0077506

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-06 Acquired: 7/9/2025 20:05:55 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.547131**	**.0859107**	**.0749394**
Stddev	.006017	.0048770	.0005403
%RSD	.2362209	5.676862	.7210456
#1	2.543381	.0835080	.0744692
#2	2.543941	.0827012	.0748194
#3	2.554071	.0915229	.0755297

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.516**	**38084.96**	**3102.729**	**2413.446**	**4500.420**
Stddev	8.061	187.83	7.573	22.077	5.751
%RSD	.2054073	.4931892	.2440659	.9147600	.1277974
#1	3930.971	38266.56	3110.713	2429.987	4506.910
#2	3915.480	38096.83	3095.649	2421.975	4495.953
#3	3927.096	37891.47	3101.826	2388.377	4498.398

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-07 Acquired: 7/9/2025 20:10:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1323401	-.043381	.9614877	.1159519	.0273594	189.1068	.2062906
Stddev	.0057060	.001689	.0030981	.0019528	.0022286	.3810	.0005491
%RSD	4.311599	3.893721	.3222207	1.684166	8.145809	.2014820	.2661711
#1	.1306320	-.044226	.9633248	.1176490	.0287579	188.7735	.2056576
#2	.1387050	-.044481	.9579108	.1138175	.0285310	189.0248	.2065754
#3	.1276832	-.041436	.9632276	.1163893	.0247893	189.5222	.2066388

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0187986	.0011144	10.20604	.3446262	.0400870	.0169616	441.6728
Stddev	.0003108	.0000898	.02454	.0013286	.0002737	.0014628	1.1146
%RSD	1.653340	8.054004	.2404490	.3855091	.6828075	8.624130	.2523476
#1	.0186422	.0012030	10.18176	.3450258	.0399568	.0156821	440.7327
#2	.0191565	.0011167	10.23083	.3431436	.0399026	.0166463	442.9040
#3	.0185971	.0010236	10.20553	.3457090	.0404015	.0185563	441.3817

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3120443	8.099577	.1070241	.0011468	5.318449	.8722311	.3566072
Stddev	.0022812	.029228	.0010109	.0001933	.031619	.0062535	.0016047
%RSD	.7310630	.3608563	.9445408	16.85323	.5945116	.7169499	.4499797
#1	.3094535	8.091298	.1081739	.0010166	5.287175	.8673581	.3551101
#2	.3129280	8.132052	.1062749	.0010548	5.350402	.8700530	.3583013
#3	.3137516	8.075382	.1066236	.0013688	5.317768	.8792824	.3564103

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.96428	8.978725	.2206134	-.000597	.8418846	9.688201	.0049299
Stddev	.25685	.023624	.0022295	.000588	.0045204	.051147	.0011987
%RSD	1.225195	.2631155	1.010580	98.50731	.5369324	.5279309	24.31551
#1	20.97957	8.992518	.2206921	-.000851	.8463142	9.630230	.0035830
#2	21.21315	8.951447	.2228025	-.001016	.8372787	9.726963	.0053274
#3	20.70012	8.992211	.2183456	.000075	.8420609	9.707410	.0058795

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-07 Acquired: 7/9/2025 20:10:18 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.579400**	**.0283286**	**.0835864**
Stddev	.010034	.0072961	.0001758
%RSD	.6353046	25.75537	.2103415
#1	1.569376	.0200287	.0837710
#2	1.579379	.0337306	.0834210
#3	1.589444	.0312264	.0835672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4069.757**	**39468.13**	**3224.570**	**2496.446**	**4450.962**
Stddev	7.935	99.22	14.274	9.472	11.262
%RSD	.1949670	.2513949	.4426644	.3794257	.2530168
#1	4060.831	39570.61	3239.840	2504.359	4440.919
#2	4076.010	39461.25	3211.562	2485.951	4463.138
#3	4072.430	39372.53	3222.308	2499.028	4448.828

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-08 Acquired: 7/9/2025 20:14:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1713440**	**-.035035**	**.1720271**	**.1371577**	**.0295236**	**135.7594**	**.2929394**
Stddev	.0029215	.001600	.0021262	.0079742	.0009145	.7366	.0013048
%RSD	1.705031	4.567494	1.235945	5.813867	3.097626	.5425701	.4454108
#1	.1739042	-.035395	.1729798	.1461824	.0294752	136.2769	.2939278
#2	.1719664	-.033286	.1695912	.1342273	.0304614	134.9161	.2914605
#3	.1681615	-.036425	.1735102	.1310633	.0286342	136.0851	.2934301

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0140051**	**-.002116**	**2.857125**	**.3469159**	**.0364131**	**.0462373**	**512.3438**
Stddev	.0001058	.000297	.048355	.0006384	.0003371	.0013365	5.9503
%RSD	.7553178	14.03278	1.692452	.1840256	.9257422	2.890568	1.161388
#1	.0140060	-.002453	2.904089	.3461793	.0362495	.0456977	518.5309
#2	.0138988	-.002003	2.859797	.3472573	.0368007	.0477593	511.8379
#3	.0141104	-.001893	2.807489	.3473109	.0361890	.0452550	506.6626

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7906064**	**10.21223**	**.0902693**	**.0024025**	**3.215459**	**.8734613**	**.3270984**
Stddev	.0048593	.06033	.0004166	.0018544	.009870	.0063466	.0034431
%RSD	.6146271	.5907399	.4615489	77.18672	.3069495	.7266027	1.052634
#1	.7919999	10.26700	.0898057	.0045435	3.211905	.8794863	.3292047
#2	.7852026	10.14757	.0906125	.0013052	3.226614	.8668358	.3231250
#3	.7946167	10.22212	.0903896	.0013587	3.207859	.8740619	.3289656

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.36314**	**5.790466**	**.3108925**	**.0076367**	**7.123545**	**2.359737**	**.0043754**
Stddev	.15995	.009845	.0079757	.0006302	.015491	.004325	.0016639
%RSD	1.196980	.1700143	2.565432	8.251660	.2174562	.1832885	38.02795
#1	13.53812	5.779121	.3180890	.0069788	7.108138	2.364731	.0056577
#2	13.32685	5.796768	.3122712	.0076964	7.123379	2.357309	.0049734
#3	13.22445	5.795507	.3023173	.0082348	7.139118	2.357172	.0024952

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-08 Acquired: 7/9/2025 20:14:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.898809**	**.0527349**	**.0262504**
Stddev	.018698	.0064888	.0001283
%RSD	.6450151	12.30464	.4888478
#1	2.915664	.0471981	.0261520
#2	2.878697	.0511316	.0262037
#3	2.902066	.0598751	.0263956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3541.630**	**34224.53**	**2790.247**	**2165.612**	**4586.745**
Stddev	8.105	28.06	6.168	19.613	10.096
%RSD	.2288539	.0819971	.2210434	.9056423	.2201185
#1	3550.023	34215.55	2783.158	2150.987	4598.391
#2	3541.020	34255.98	2794.387	2187.899	4581.387
#3	3533.848	34202.05	2793.196	2157.951	4580.457

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-09 Acquired: 7/9/2025 20:19:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1376010**	**-.029335**	**.2129117**	**.0937847**	**.0197780**	**145.5951**	**.5691514**
Stddev	.0026022	.001295	.0007731	.0024193	.0014247	.4095	.0011153
%RSD	1.891128	4.413490	.3631111	2.579619	7.203406	.2812779	.1959582
#1	.1380364	-.028641	.2121096	.0964782	.0212880	145.9954	.5702520
#2	.1399581	-.028535	.2129734	.0917963	.0184576	145.1769	.5691804
#3	.1348086	-.030829	.2136522	.0930797	.0195885	145.6131	.5680219

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0130994**	**.0008153**	**10.83863**	**.2790590**	**.0766735**	**.0522864**	**336.7409**
Stddev	.0000662	.0002806	.01672	.0012944	.0002689	.0002815	4.3424
%RSD	.5054322	34.41214	.1542347	.4638459	.3507294	.5384281	1.289526
#1	.0130641	.0007378	10.85780	.2788017	.0769749	.0521785	337.8285
#2	.0130583	.0005818	10.83093	.2779126	.0764581	.0520748	340.4361
#3	.0131758	.0011266	10.82714	.2804628	.0765875	.0526059	331.9581

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.390027**	**12.14699**	**.1230260**	**.0038203**	**2.557462**	**.5101412**	**.3200631**
Stddev	.013159	.03431	.0004338	.0009506	.014480	.0142149	.0010358
%RSD	.9467044	.2824424	.3525938	24.88300	.5661672	2.786463	.3236065
#1	1.405206	12.16532	.1225489	.0046968	2.574176	.5151477	.3204001
#2	1.381834	12.16825	.1231323	.0039542	2.548725	.5211755	.3189009
#3	1.383041	12.10742	.1233967	.0028098	2.549485	.4941005	.3208884

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.897787**	**4.882971**	**.1089917**	**.0040878**	**.6525867**	**1.949290**	**.0080789**
Stddev	.048198	.003119	.0074005	.0000590	.0060674	.016416	.0005341
%RSD	.8172191	.0638793	6.789990	1.443188	.9297467	.8421444	6.611265
#1	5.952575	4.880460	.1063215	.0040225	.6488514	1.968245	.0076395
#2	5.878868	4.881991	.1173567	.0041372	.6493213	1.939764	.0079238
#3	5.861920	4.886463	.1032968	.0041036	.6595875	1.939860	.0086734

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-09 Acquired: 7/9/2025 20:19:26 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.401444**	**.0766681**	**.0964345**
Stddev	.009745	.0054311	.0004382
%RSD	.4057914	7.083931	.4544069
#1	2.412599	.0714092	.0969121
#2	2.394588	.0763386	.0963404
#3	2.397145	.0822564	.0960509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4301.084**	**41811.64**	**3365.125**	**2649.297**	**4519.429**
Stddev	14.494	113.40	18.581	8.379	12.304
%RSD	.3369926	.2712052	.5521734	.3162801	.2722553
#1	4285.387	41758.45	3352.126	2648.525	4505.933
#2	4303.902	41734.62	3356.841	2641.330	4522.333
#3	4313.962	41941.86	3386.407	2658.035	4530.022

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-10 Acquired: 7/9/2025 20:23:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0573199**	**-.040386**	**.1133385**	**.0578542**	**.0319250**	**91.78276**	**.1955599**
Stddev	.0032445	.003012	.0045461	.0026529	.0008087	.08519	.0004034
%RSD	5.660267	7.458920	4.011111	4.585470	2.533114	.0928183	.2062661
#1	.0609411	-.043426	.1184377	.0553077	.0328312	91.80794	.1951655
#2	.0546776	-.040328	.1118688	.0606020	.0312767	91.85253	.1955426
#3	.0563411	-.037403	.1097090	.0576529	.0316671	91.68782	.1959717

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057715**	**-.000109**	**51.91457**	**.1465117**	**.1578943**	**.7680668**	**260.6372**
Stddev	.0001138	.000217	.11830	.0013028	.0012742	.0053622	2.8144
%RSD	1.972298	198.6526	.2278657	.8892467	.8070077	.6981446	1.079805
#1	.0057262	.000080	52.04720	.1471892	.1584211	.7739170	260.5008
#2	.0059010	-.000061	51.81995	.1473363	.1588206	.7633854	257.8934
#3	.0056873	-.000346	51.87656	.1450097	.1564411	.7668980	263.5172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.190251**	**78.34298**	**.3329605**	**.0040523**	**13.81433**	**.5023507**	**.3147677**
Stddev	.007662	.07309	.0014204	.0013364	.13325	.0032474	.0020478
%RSD	.3498121	.0932909	.4265942	32.97751	.9645737	.6464375	.6505822
#1	2.198177	78.28515	.3330966	.0043477	13.95057	.4986016	.3124310
#2	2.182885	78.31866	.3343080	.0025930	13.80814	.5042888	.3162502
#3	2.189691	78.42512	.3314770	.0052163	13.68429	.5041616	.3156217

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.142214**	**4.631579**	**.1801209**	**-.003604**	**1.212120**	**3.218226**	**.0035069**
Stddev	.058936	.034282	.0032189	.000352	.015645	.032385	.0011001
%RSD	1.875614	.7401848	1.787067	9.760924	1.290749	1.006308	31.37015
#1	3.206957	4.654285	.1785732	-.003944	1.213979	3.255536	.0023129
#2	3.128000	4.648307	.1779682	-.003627	1.226753	3.201752	.0044795
#3	3.091685	4.592144	.1838213	-.003241	1.195628	3.197390	.0037283

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2514-10 Acquired: 7/9/2025 20:23:52 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**13.46049**	**.0865722**	**.1808375**
Stddev	.05092	.0036677	.0006879
%RSD	.3783067	4.236556	.3803947
#1	13.50900	.0852273	.1814078
#2	13.40745	.0837669	.1800735
#3	13.46501	.0907225	.1810312

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3709.074**	**35911.01**	**2895.447**	**2285.893**	**4371.769**
Stddev	6.651	222.92	29.148	26.395	17.611
%RSD	.1793270	.6207615	1.006670	1.154686	.4028337
#1	3710.696	35952.67	2878.643	2302.716	4368.788
#2	3701.762	36110.17	2929.104	2299.492	4355.839
#3	3714.765	35670.20	2878.594	2255.472	4390.680

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01 Acquired: 7/9/2025 20:28:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0539425**	**-.052424**	**.1354123**	**.0960468**	**.0358753**	**183.6989**	**.9651298**
Stddev	.0009537	.001529	.0010719	.0026788	.0024488	.3642	.0009154
%RSD	1.767900	2.917192	.7915513	2.789008	6.825793	.1982540	.0948458
#1	.0547112	-.051408	.1342092	.0970216	.0371555	183.7113	.9646857
#2	.0542411	-.054183	.1357622	.0930171	.0330518	183.3287	.9645213
#3	.0528753	-.051682	.1362655	.0981016	.0374187	184.0568	.9661826

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110879**	**.0037681**	**39.30237**	**.5121632**	**.3680371**	**.3720489**	**400.8838**
Stddev	.0002649	.0001563	.10863	.0000842	.0006030	.0009412	4.8850
%RSD	2.389358	4.149018	.2764055	.0164468	.1638452	.2529788	1.218551
#1	.0110201	.0036021	39.20806	.5120665	.3682553	.3731051	405.2274
#2	.0108635	.0037897	39.27789	.5122023	.3673554	.3712989	401.8285
#3	.0113802	.0039125	39.42115	.5122207	.3685008	.3717428	395.5955

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.26883**	**73.63612**	**.3921062**	**.0001358**	**3.110917**	**1.163374**	**.6270913**
Stddev	.03281	.45151	.0012065	.0007089	.015950	.000877	.0018064
%RSD	.2299212	.6131601	.3076895	521.9717	.5127118	.0754004	.2880523
#1	14.23104	73.34850	.3929576	.0000752	3.113236	1.162785	.6289590
#2	14.28992	73.40334	.3907255	.0008731	3.093934	1.162954	.6269616
#3	14.28555	74.15651	.3926355	-.000541	3.125580	1.164382	.6253533

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.156585**	**5.946015**	**.0855150**	**-.006021**	**.4114298**	**2.001902**	**.0143841**
Stddev	.015613	.014783	.0057459	.000830	.0050708	.002346	.0005261
%RSD	.3756206	.2486148	6.719149	13.77963	1.232472	.1171871	3.657171
#1	4.150335	5.945563	.0906770	-.006157	.4168579	2.001026	.0139074
#2	4.145065	5.931464	.0865438	-.005132	.4068145	2.000121	.0149485
#3	4.174354	5.961019	.0793242	-.006775	.4106172	2.004560	.0142964

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01 Acquired: 7/9/2025 20:28:17 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**9.880679**	**.1307420**	**.1576137**
Stddev	.010159	.0107458	.0002843
%RSD	.1028132	8.219068	.1804025
#1	9.873564	.1192325	.1573090
#2	9.876161	.1324815	.1576600
#3	9.892313	.1405118	.1578720

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4193.908**	**40758.50**	**3365.428**	**2570.118**	**4311.666**
Stddev	6.071	67.54	12.656	2.383	6.571
%RSD	.1447568	.1657094	.3760667	.0927161	.1524024
#1	4187.471	40687.99	3359.862	2567.573	4306.809
#2	4194.722	40822.62	3379.914	2570.486	4319.143
#3	4199.531	40764.90	3356.509	2572.296	4309.045

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01DUP Acquired: 7/9/2025 20:32:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0594100	-.056096	.1969412	.0996468	.0353313	185.0882	.9007037
Stddev	.0068361	.002120	.0052044	.0029708	.0002055	.4995	.0030480
%RSD	11.50671	3.779104	2.642630	2.981310	.5817338	.2698578	.3383983
#1	.0667391	-.057046	.1937066	.0984415	.0353872	185.6244	.9029347
#2	.0582844	-.057576	.2029448	.1030308	.0351036	184.6361	.8972308
#3	.0532065	-.053668	.1941723	.0974680	.0355031	185.0040	.9019455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120614	.0038383	40.74207	.5346508	.3771558	.3874659	421.5955
Stddev	.0002753	.0001179	.10213	.0022306	.0007180	.0052056	2.5197
%RSD	2.282040	3.071543	.2506748	.4172121	.1903606	1.343493	.5976476
#1	.0123641	.0038771	40.84135	.5343334	.3765270	.3934557	420.5840
#2	.0118262	.0037059	40.63731	.5325960	.3770023	.3840355	424.4638
#3	.0119938	.0039320	40.74757	.5370232	.3779381	.3849066	419.7389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.94549	79.54474	.4075546	-.002044	3.299910	1.215293	.6742522
Stddev	.01003	.20541	.0010683	.000706	.009144	.009303	.0048421
%RSD	.0774953	.2582262	.2621340	34.53921	.2771116	.7654586	.7181430
#1	12.94634	79.71451	.4069296	-.002138	3.307105	1.222826	.6704467
#2	12.93506	79.60330	.4087882	-.001296	3.303005	1.204895	.6726075
#3	12.95507	79.31642	.4069461	-.002698	3.289619	1.218159	.6797024

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.388230	6.126809	.0921378	-.005640	.4708175	6.046859	.0238653
Stddev	.022334	.008501	.0048380	.000563	.0083328	.051566	.0011036
%RSD	.5089625	.1387574	5.250806	9.980692	1.769868	.8527672	4.624209
#1	4.413738	6.117336	.0882470	-.005156	.4649411	6.106155	.0242468
#2	4.378765	6.129316	.0975549	-.006258	.4671575	6.021900	.0247275
#3	4.372186	6.133775	.0906116	-.005507	.4803540	6.012522	.0226216

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01DUP Acquired: 7/9/2025 20:32:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**10.96670**	**.1395681**	**.1614635**
Stddev	.02765	.0043084	.0001625
%RSD	.2521149	3.086961	.1006556
#1	10.96121	.1445417	.1614381
#2	10.94220	.1369802	.1613152
#3	10.99668	.1371826	.1616373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4187.941**	**41070.74**	**3340.395**	**2590.507**	**4320.903**
Stddev	11.404	357.46	11.436	20.704	11.382
%RSD	.2723011	.8703414	.3423658	.7992360	.2634226
#1	4175.864	41474.16	3329.409	2612.230	4312.621
#2	4189.433	40944.63	3339.540	2588.290	4316.206
#3	4198.525	40793.44	3352.234	2571.000	4333.882

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01LX5 Acquired: 7/9/2025 20:37:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0155661**	**-.010585**	**.0311748**	**.0289989**	**.0078076**	**44.17999**	**.2320808**
Stddev	.0036266	.001861	.0013876	.0066809	.0021096	.09082	.0011444
%RSD	23.29848	17.58289	4.451134	23.03855	27.01939	.2055626	.4931005
#1	.0132166	-.012730	.0307452	.0365731	.0098257	44.25318	.2328735
#2	.0197429	-.009635	.0300528	.0264796	.0056171	44.07836	.2326002
#3	.0137387	-.009391	.0327265	.0239439	.0079799	44.20843	.2307689

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027769**	**-.000671**	**9.528623**	**.1215494**	**.0729031**	**.0962439**	**109.4717**
Stddev	.0002454	.000098	.062060	.0005047	.0001661	.0005853	1.5903
%RSD	8.838453	14.64425	.6513017	.4151820	.2278004	.6080908	1.452724
#1	.0029974	-.000590	9.508058	.1215327	.0730904	.0957404	108.7353
#2	.0025124	-.000644	9.479457	.1220621	.0728450	.0961055	108.3831
#3	.0028208	-.000780	9.598356	.1210533	.0727739	.0968860	111.2967

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.504410**	**18.13554**	**.0764032**	**.0031917**	**.7747404**	**.2785789**	**.1609206**
Stddev	.007468	.08700	.0004230	.0020305	.0033387	.0086430	.0012132
%RSD	.2130916	.4797207	.5536526	63.61798	.4309430	3.102524	.7538925
#1	3.500087	18.13412	.0768845	.0027078	.7785710	.2687755	.1600414
#2	3.500111	18.04926	.0760906	.0014468	.7732021	.2818618	.1604156
#3	3.513033	18.22324	.0762344	.0054204	.7724482	.2850995	.1623046

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8689892**	**1.127481**	**.0266688**	**-.002283**	**.0981597**	**.6936658**	**-.004517**
Stddev	.0020655	.001747	.0021504	.001204	.0062911	.0061078	.000628
%RSD	.2376875	.1549459	8.063401	52.72538	6.409086	.8805062	13.89458
#1	.8673649	1.126242	.0284467	-.002865	.0986965	.6882337	-.005117
#2	.8682890	1.126723	.0242786	-.003086	.0916173	.6924864	-.004570
#3	.8713138	1.129479	.0272811	-.000899	.1041652	.7002772	-.003865

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01LX5 Acquired: 7/9/2025 20:37:03 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.393678**	**.0300929**	**.0380176**
Stddev	.005334	.0090252	.0000728
%RSD	.2228442	29.99112	.1915860
#1	2.391224	.0292088	.0380523
#2	2.390013	.0215422	.0380666
#3	2.399798	.0395276	.0379339

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.526**	**34485.87**	**2738.708**	**2155.211**	**4624.363**
Stddev	8.912	185.32	14.150	14.740	19.258
%RSD	.2551654	.5373811	.5166641	.6839455	.4164490
#1	3497.939	34552.47	2743.300	2156.917	4631.445
#2	3497.399	34628.69	2749.991	2169.024	4639.078
#3	3482.240	34276.46	2722.832	2139.691	4602.567

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV10 Acquired: 7/9/2025 20:41:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.910209**	**5.233119**	**4.987847**	**5.201457**	**5.143026**	**10.11438**	**10.62840**
Stddev	.013645	.018214	.005863	.006307	.008758	.04786	.03380
%RSD	.2778849	.3480501	.1175542	.1212530	.1702960	.4731583	.3179951
#1	4.909217	5.219977	4.987557	5.205937	5.152733	10.09956	10.65311
#2	4.897088	5.225470	4.982134	5.194244	5.135714	10.07568	10.58989
#3	4.924323	5.253910	4.993850	5.204189	5.140630	10.16789	10.64220

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2601311**	**2.505678**	**25.85284**	**1.006310**	**2.444064**	**1.279772**	**5.108124**
Stddev	.0026865	.003171	.06504	.001362	.003373	.014444	.041737
%RSD	1.032734	.1265529	.2515869	.1353766	.1380252	1.128633	.8170668
#1	.2626312	2.504441	25.85449	1.004738	2.443468	1.295698	5.150199
#2	.2604714	2.503312	25.78698	1.007040	2.441029	1.276099	5.107441
#3	.2572907	2.509281	25.91704	1.007152	2.447696	1.267520	5.066733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.606379**	**24.80416**	**2.470191**	**1.274623**	**24.19564**	**2.592758**	**2.609839**
Stddev	.006074	.03926	.001154	.003759	.22465	.015227	.008928
%RSD	.2330604	.1582780	.0467035	.2949340	.9284894	.5873074	.3420740
#1	2.610789	24.75915	2.471124	1.278815	24.43825	2.587465	2.607598
#2	2.599451	24.82204	2.468901	1.271550	24.15388	2.580883	2.619674
#3	2.608897	24.83130	2.470547	1.273505	23.99480	2.609925	2.602246

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.63662**	**5.422740**	**5.187838**	**5.306875**	**4.958117**	**5.249406**	**5.111750**
Stddev	.12291	.022162	.041155	.009056	.011760	.051259	.009378
%RSD	.4988822	.4086854	.7932948	.1706534	.2371893	.9764632	.1834678
#1	24.75441	5.424918	5.231439	5.315318	4.952014	5.303428	5.104047
#2	24.50916	5.399570	5.182406	5.297310	4.950664	5.243339	5.109009
#3	24.64630	5.443733	5.149668	5.307998	4.971674	5.201451	5.122193

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV10 Acquired: 7/9/2025 20:41:30 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.270859**	**5.209292**	**5.273709**
Stddev	.011466	.018513	.011114
%RSD	.2175323	.3553893	.2107480
#1	5.279324	5.207757	5.285329
#2	5.257810	5.191594	5.263181
#3	5.275443	5.228525	5.272618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3229.910**	**32088.61**	**2565.815**	**1983.523**	**4377.493**
Stddev	11.937	153.94	5.399	11.441	8.525
%RSD	.3695809	.4797363	.2104368	.5767887	.1947369
#1	3216.739	32254.63	2560.929	1996.726	4370.972
#2	3240.015	32060.63	2564.903	1977.309	4387.139
#3	3232.977	31950.59	2571.612	1976.534	4374.368

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB10 Acquired: 7/9/2025 20:45:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001070**	**-.000037**	**.0019144**	**.0064490**	**-.001349**	**-.010706**	**.0011327**
Stddev	.003577	.000641	.0010542	.0012459	.003148	.015509	.0008991
%RSD	334.3006	1722.823	55.07049	19.31966	233.4649	144.8621	79.37446
#1	.001217	-.000616	.0007024	.0050120	-.004807	-.028611	.0018893
#2	-.005193	-.000147	.0024213	.0071076	.001351	-.002049	.0001387
#3	.000765	.000652	.0026194	.0072274	-.000590	-.001458	.0013702

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001995**	**-.000021**	**-.038584**	**-.000981**	**.0003982**	**.0021836**	**.0024447**
Stddev	.0001216	.000084	.010028	.000223	.0001983	.0006878	.0011955
%RSD	60.93823	401.5428	25.99020	22.73872	49.79124	31.49981	48.90413
#1	.0002544	.000073	-.034959	-.000866	.0006248	.0016120	.0036429
#2	.0002838	-.000046	-.049920	-.000838	.0003133	.0029470	.0012519
#3	.0000601	-.000090	-.030872	-.001238	.0002565	.0019919	.0024392

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001401**	**-.056074**	**-.000360**	**.0019178**	**-.038934**	**-.002544**	**.0009727**
Stddev	.0005670	.063550	.000251	.0003820	.003755	.009911	.0005186
%RSD	404.5485	113.3326	69.76385	19.91849	9.644770	389.6200	53.31904
#1	.0007259	-.070559	-.000095	.0019026	-.042745	.003934	.0014670
#2	.0001004	.013468	-.000390	.0015436	-.038821	.002388	.0004328
#3	-.000406	-.111131	-.000594	.0023071	-.035237	-.013953	.0010183

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017916**	**.0014177**	**.0083480**	**.0008341**	**.0030137**	**-.004585**	**.0004367**
Stddev	.0009106	.0014221	.0006361	.0006452	.0020649	.000789	.0006607
%RSD	50.82531	100.3137	7.619559	77.34787	68.51686	17.21460	151.2753
#1	.0020307	-.000130	.0087610	.0010669	.0045677	-.003681	-.000310
#2	.0025588	.002667	.0076155	.0013306	.0038029	-.004930	.000677
#3	.0007853	.001717	.0086674	.0001049	.0006706	-.005142	.000943

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB10 Acquired: 7/9/2025 20:45:46 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003500	.0101491	-.000134
Stddev	.008367	.0090043	.000180
%RSD	239.0184	88.72061	134.0702
#1	-.004910	.0087758	.000054
#2	.005481	.0019103	-.000151
#3	-.011073	.0197612	-.000305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3442.996	34391.07	2630.183	2124.868	5145.594
Stddev	25.009	336.05	25.056	11.274	29.033
%RSD	.7263774	.9771493	.9526365	.5305852	.5642393
#1	3416.922	34089.23	2624.355	2115.517	5116.292
#2	3466.783	34753.18	2608.554	2137.388	5174.351
#3	3445.283	34330.79	2657.639	2121.700	5146.139

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01MS Acquired: 7/9/2025 20:50:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7971700	k 1.915437	k 1.097926	s 1.699304	s .3416262	k 199.8703	1.261829
Stddev	.0218164	.037359	.034148	.232734	.0619382	.4659	.003584
%RSD	2.736729	1.950392	3.110226	13.69585	18.13039	.2331057	.2840159
#1	.7908059	1.918844	1.105356	1.516578	.3033867	200.4057	1.265967
#2	.8214608	1.950976	1.127747	1.620011	.3084043	199.5568	1.259835
#3	.7792434	k 1.876492	k 1.060675	s 1.961323	s .4130876	k 199.6485	1.259686

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .1745495	.1985082	37.94187	.8155660	k .4850378	k .5692537	341.6952
Stddev	.0003912	.0052751	.11931	.0016893	.0040525	.0015872	3.2710
%RSD	.2241162	2.657369	.3144589	.2071327	.8354986	.2788177	.9573003
#1	.1749789	.1978258	37.97323	.8163421	.4857225	.5710836	343.7034
#2	.1744564	.2040913	38.04236	.8136281	.4887043	.5682509	337.9207
#3	k .1742133	.1936075	37.81001	.8167278	k .4806865	k .5684266	343.4615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.45229	61.47124	.8043223	k .0629807	5.092861	k 1.035120	.7943628
Stddev	.04788	.05967	.0081199	.0011933	.094468	.007742	.0030906
%RSD	.2910319	.0970630	1.009532	1.894714	1.854914	.7479039	.3890629
#1	16.50082	61.43044	.8050526	.0618647	5.077235	1.042365	.7978142
#2	16.45099	61.44356	.8120525	.0628389	5.007180	1.026962	.7934228
#3	16.40508	61.53972	.7958620	k .0642386	5.194168	k 1.036033	.7918513

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.73245	k 12.01717	k .2550147	s .3188787	k .6993738	k 6.179046	.7056854
Stddev	.33167	.61076	.0040041	.0589874	.0384132	.027094	.0170478
%RSD	2.415251	5.082424	1.570129	18.49838	5.492508	.4384797	2.415778
#1	14.11514	11.85129	.2595789	.2840469	.6920917	6.195463	.7079286
#2	13.55399	12.69374	.2520933	.2856036	.7409068	6.147773	.7215006
#3	13.52821	k 11.50648	k .2533719	s .3869855	k .6651229	k 6.193901	.6876271

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01MS Acquired: 7/9/2025 20:50:14 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.927045	.2930128	.3178026
Stddev	.010178	.0051071	.0015251
%RSD	.1717143	1.742956	.4798943
#1	5.934964	.2967050	.3193066
#2	5.930605	.2951490	.3178439
#3	5.915565	.2871845	.3162572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	40320.82	3130.060	2574.462	4203.171
Stddev	-----	34.10	2.253	17.078	208.763
%RSD	-----	.0845665	.0719732	.6633527	4.966807
#1	4206.531	40305.84	3129.038	2564.375	4319.140
#2	3870.443	40296.78	3128.499	2564.831	3962.169
#3	^ -----	40359.85	3132.642	2594.180	4328.206

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01MSD Acquired: 7/9/2025 20:54:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8103942	1.915193	1.129536	1.547796	.3360208	192.1769	1.007376
Stddev	.0111468	.013548	.015480	.029813	.0011321	.2723	.002857
%RSD	1.375475	.7073754	1.370517	1.926130	.3369056	.1416720	.2835581
#1	.8044111	1.905847	1.124044	1.525074	.3371766	191.8966	1.005378
#2	.8232550	1.930730	1.147014	1.581553	.3349141	192.1938	1.010647
#3	.8035166	1.909003	1.117551	1.536763	.3359719	192.4403	1.006101

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1607375	.1986554	35.61147	.8263823	.4834199	.5400172	387.0420
Stddev	.0117625	.0023274	.04438	.0104177	.0004475	.0379814	8.7575
%RSD	7.317830	1.171582	.1246209	1.260645	.0925668	7.033373	2.262664
#1	.1682743	.1982052	35.56941	.8156660	.4832172	.5661009	382.4207
#2	.1471837	.2011750	35.60714	.8364733	.4831096	.4964415	381.5632
#3	.1667545	.1965859	35.65785	.8270076	.4839329	.5575094	397.1421

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.43444	61.98449	.7999408	.0560924	4.980443	1.292498	.8072855
Stddev	.04105	.44962	.0023475	.0021516	.272574	.005614	.0260446
%RSD	.3933710	.7253763	.2934530	3.835818	5.472885	.4343522	3.226196
#1	10.39391	61.87020	.8002223	.0550810	4.829271	1.297381	.7904849
#2	10.47599	61.60304	.8021348	.0546328	4.816954	1.293748	.8372873
#3	10.43344	62.48022	.7974653	.0585633	5.295104	1.286364	.7940843

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.39258	12.27427	.2689425	.3027233	.6903293	1.973897	.7066063
Stddev	.75214	.19176	.0069979	.0009099	.0039829	.133757	.0078171
%RSD	6.069270	1.562274	2.602019	.3005563	.5769521	6.776296	1.106287
#1	11.84690	12.20079	.2614521	.3029162	.6861188	2.057466	.7034937
#2	12.08028	12.49190	.2753129	.3017324	.6940367	1.819626	.7155002
#3	13.25056	12.13011	.2700625	.3035212	.6908326	2.044597	.7008250

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01MSD Acquired: 7/9/2025 20:54:40 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.458604**	**.3150714**	**.3045639**
Stddev	.024071	.0036041	.0009183
%RSD	.3227337	1.143883	.3015077
#1	7.431587	.3109305	.3041395
#2	7.477768	.3175012	.3056176
#3	7.466457	.3167824	.3039346

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4146.715**	**37855.43**	**3275.999**	**2436.418**	**4278.498**
Stddev	34.138	3489.66	21.233	192.803	38.332
%RSD	.8232445	9.218379	.6481359	7.913366	.8959163
#1	4179.169	40380.45	3283.312	2548.159	4309.996
#2	4111.112	33873.38	3292.609	2213.789	4235.819
#3	4149.863	39312.48	3252.076	2547.306	4289.679

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01A Acquired: 7/9/2025 20:59:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7897117	1.814127	1.042480	1.529142	.6124619	186.9814	1.107454
Stddev	.0034976	.006153	.001291	.002365	.0047439	.8884	.003412
%RSD	.4428977	.3391549	.1238604	.1546552	.7745586	.4751047	.3080989
#1	.7871809	1.811023	1.041604	1.527843	.6114487	186.2643	1.105815
#2	.7937028	1.821213	1.043963	1.527712	.6176306	187.9752	1.111376
#3	.7882512	1.810144	1.041874	1.531872	.6083065	186.7047	1.105170

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1633067	.1887521	40.70161	.8032486	.5506221	.5999232	409.0466
Stddev	.0016245	.0003891	.10689	.0045233	.0010315	.0049212	2.8543
%RSD	.9947639	.2061257	.2626306	.5631318	.1873375	.8203085	.6977988
#1	.1616293	.1884399	40.58446	.8081970	.5515247	.5947101	409.3972
#2	.1648726	.1886284	40.79386	.8022222	.5508438	.6044883	411.7094
#3	.1634182	.1891880	40.72652	.7993267	.5494977	.6005711	406.0331

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.07831	75.38108	.8555104	.0528562	5.140367	1.401703	.7828833
Stddev	.04015	.45945	.0020293	.0024477	.046509	.014789	.0037560
%RSD	.2851788	.6095006	.2372043	4.630832	.9047810	1.055092	.4797622
#1	14.03793	75.09434	.8577917	.0518619	5.106397	1.384638	.7846527
#2	14.11822	75.91101	.8539061	.0556446	5.193375	1.409685	.7854278
#3	14.07879	75.13790	.8548334	.0510622	5.121330	1.410786	.7785694

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.17869	12.04042	.3003269	.2960984	.4177976	7.924999	.6801765
Stddev	.01042	.01858	.0004570	.0003040	.0107043	.038015	.0027149
%RSD	.0855213	.1543182	.1521614	.1026607	2.562083	.4796821	.3991510
#1	12.17118	12.04186	.3008424	.2958233	.4229518	7.896916	.6828850
#2	12.17430	12.02116	.2999713	.2960473	.4249497	7.968258	.6774552
#3	12.19058	12.05824	.3001671	.2964247	.4054912	7.909824	.6801892

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2515-01A Acquired: 7/9/2025 20:59:07 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**11.06843**	**.2923648**	**.3140950**
Stddev	.04386	.0033543	.0011875
%RSD	.3962586	1.147282	.3780598
#1	11.01859	.2960541	.3131114
#2	11.10113	.2915412	.3154142
#3	11.08557	.2894990	.3137595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4143.317**	**40634.30**	**3311.561**	**2551.369**	**4259.104**
Stddev	10.994	264.84	13.975	9.963	8.370
%RSD	.2653415	.6517721	.4220198	.3905020	.1965119
#1	4150.909	40329.67	3325.475	2542.075	4265.359
#2	4148.332	40809.88	3297.525	2561.888	4262.356
#3	4130.710	40763.34	3311.683	2550.145	4249.596

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-14 Acquired: 7/9/2025 21:03:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2966735	.0079223	53.57424	.1214590	.3853501	135.4220
Stddev	.0043087	.0034967	.44323	.0129248	.0022929	.2194
%RSD	1.452324	44.13695	.8273266	10.64125	.5950200	.1619768
#1	.2982999	.0119597	53.15829	.1147904	.3878576	135.5015
#2	.2917884	.0058700	53.52394	.1363561	.3833602	135.5905
#3	.2999322	.0059372	54.04047	.1132306	.3848326	135.1740

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.156496	.0196241	.0578827	698.5563	.6038946	.6036616
Stddev	.016014	.0003739	.0011691	.8979	.0030711	.0032470
%RSD	.3852848	1.905243	2.019810	.1285367	.5085476	.5378854
#1	4.174952	.0199763	.0567892	698.5591	.6004160	.6009626
#2	4.148250	.0196643	.0577439	699.4527	.6062304	.6027572
#3	4.146284	.0192318	.0591150	697.6570	.6050374	.6072649

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.673653	675.3273	5.522362	66.61905	.4392086	-.011271
Stddev	.112827	11.2826	.011482	.26210	.0014109	.001375
%RSD	1.690631	1.670687	.2079220	.3934375	.3212444	12.20060
#1	6.720218	686.5109	5.523057	66.90295	.4383761	-.010252
#2	6.755744	675.5227	5.533480	66.56789	.4384121	-.010725
#3	6.544996	663.9483	5.510548	66.38629	.4408377	-.012835

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.018310	.4717351	F 37.44958	13.74842	12.83639	.2052503
Stddev	.115202	.0070215	.38621	.26396	.07277	.0106248
%RSD	1.436731	1.488443	1.031283	1.919915	.5668690	5.176508
#1	8.081671	.4788785	37.79440	14.05207	12.78207	.2171344
#2	8.087923	.4714846	37.03225	13.57381	12.80805	.1966694
#3	7.885336	.4648422	37.52208	13.61937	12.91907	.2019473

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-14 Acquired: 7/9/2025 21:03:33 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4070030	F 235.4308	9.181718	5.638262	5.381003	.2078054
Stddev	.0007451	1.6677	.151958	.048318	.025442	.0075619
%RSD	.1830822	.7083730	1.655002	.8569697	.4728030	3.638942
#1	.4068440	233.9604	9.237700	5.592721	5.409473	.2013682
#2	.4078148	235.0892	9.297743	5.633119	5.373045	.2161333
#3	.4063502	237.2429	9.009711	5.688946	5.360492	.2059148

Elem	Sr4077
Units	ppm
Avg	4.536940
Stddev	.009696
%RSD	.2137086
#1	4.548131
#2	4.531624
#3	4.531066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3586.836	34720.81	3022.076	2196.195	3982.549
Stddev	4.260	230.88	33.569	18.427	10.208
%RSD	.1187743	.6649737	1.110794	.8390305	.2563282
#1	3585.745	34619.53	2992.147	2192.518	3994.143
#2	3583.227	34985.03	3015.709	2216.183	3978.594
#3	3591.535	34557.88	3058.373	2179.884	3974.910

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-15DLX5 Acquired: 7/9/2025 21:08:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194091	.0173271	2.111444	-.009732	.0245263	20.78149	1.254331
Stddev	.0009550	.0003925	.002093	.005788	.0010775	.03326	.005611
%RSD	4.920159	2.265181	.0991234	59.47819	4.393021	.1600358	.4472944
#1	.0187075	.0172899	2.109957	-.013088	.0235485	20.78034	1.260629
#2	.0204967	.0177368	2.113837	-.013060	.0256814	20.81531	1.249866
#3	.0190233	.0169545	2.110538	-.003048	.0243492	20.74882	1.252497

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025728	.0049956	174.7620	.0927654	.0872567	.8210454	86.58958
Stddev	.0000751	.0000909	.1743	.0010019	.0008418	.0016818	.10248
%RSD	2.919647	1.818703	.0997482	1.079991	.9646843	.2048319	.1183535
#1	.0026433	.0049697	174.9161	.0923703	.0866115	.8191050	86.52959
#2	.0024938	.0049205	174.7970	.0920214	.0869498	.8220820	86.70791
#3	.0025813	.0050966	174.5728	.0939046	.0882089	.8219494	86.53123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.079279	45.33726	.0684797	.0080954	2.654214	.1208263	4.081004
Stddev	.005934	.03475	.0006803	.0016527	.023682	.0055267	.003348
%RSD	.5498413	.0766496	.9934803	20.41573	.8922552	4.574064	.0820443
#1	1.086000	45.35599	.0692608	.0071892	2.644440	.1153946	4.077488
#2	1.077077	45.29716	.0681617	.0100030	2.681219	.1206410	4.081370
#3	1.074760	45.35862	.0680166	.0070940	2.636984	.1264433	4.084154

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.992631	2.068936	.0478835	.0381606	4.691428	4.214097	.2129475
Stddev	.020654	.009081	.0019396	.0008450	.002318	.013322	.0017608
%RSD	.5173129	.4389019	4.050691	2.214336	.0494116	.3161310	.8268825
#1	4.011023	2.074388	.0458989	.0372713	4.694067	4.199430	.2118947
#2	3.996586	2.058453	.0497748	.0389530	4.689722	4.225448	.2119675
#3	3.970286	2.073966	.0479769	.0382575	4.690495	4.217414	.2149803

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: Q2487-15DLX5 Acquired: 7/9/2025 21:08:10 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.275513**	**.0394480**	**.5726398**
Stddev	.007096	.0097632	.0014895
%RSD	.5562866	24.74963	.2601101
#1	1.282622	.0359125	.5743553
#2	1.268431	.0319450	.5718877
#3	1.275485	.0504865	.5716763

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3346.329**	**32925.64**	**2649.087**	**2057.106**	**4380.334**
Stddev	20.264	51.56	1.672	3.840	24.163
%RSD	.6055730	.1565851	.0631093	.1866458	.5516261
#1	3324.679	32947.29	2647.789	2053.746	4354.438
#2	3364.842	32962.84	2650.973	2056.281	4402.275
#3	3349.467	32866.79	2648.498	2061.291	4384.291

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV11 Acquired: 7/9/2025 21:12:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.740141**	**5.062703**	**4.821701**	**5.051198**	**4.987300**	**9.995935**	**10.44564**
Stddev	.003818	.008835	.002701	.001389	.006074	.010145	.02547
%RSD	.0805421	.1745153	.0560273	.0274923	.1217836	.1014956	.2438288
#1	4.739411	5.072631	4.824352	5.052528	4.993765	9.986866	10.44667
#2	4.736741	5.059773	4.818952	5.051309	4.981713	9.994046	10.41967
#3	4.744271	5.055705	4.821799	5.049757	4.986422	10.00689	10.47058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2566736**	**2.421473**	**25.34514**	**.9747415**	**2.364980**	**1.264264**	**5.068314**
Stddev	.0008766	.004430	.06140	.0020965	.001718	.003173	.021475
%RSD	.3415280	.1829607	.2422707	.2150792	.0726342	.2509930	.4237040
#1	.2575382	2.426393	25.38208	.9771092	2.366031	1.267920	5.091621
#2	.2557854	2.417798	25.27426	.9739946	2.362998	1.262231	5.049328
#3	.2566973	2.420227	25.37909	.9731208	2.365911	1.262640	5.063995

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.559604**	**24.43189**	**2.386268**	**1.237517**	**23.83366**	**2.547113**	**2.539030**
Stddev	.008276	.09373	.004639	.003616	.10751	.009696	.008840
%RSD	.3233486	.3836456	.1944167	.2921971	.4510880	.3806557	.3481687
#1	2.561359	24.33776	2.391580	1.235735	23.94104	2.558249	2.528823
#2	2.550591	24.43269	2.383011	1.235138	23.83392	2.542542	2.544019
#3	2.566863	24.52521	2.384214	1.241678	23.72602	2.540547	2.544248

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.87368**	**5.263428**	**5.119772**	**5.143957**	**4.814646**	**5.180308**	**4.937124**
Stddev	.07538	.020699	.018854	.007158	.012920	.020467	.008645
%RSD	.3157626	.3932525	.3682597	.1391470	.2683517	.3950979	.1750981
#1	23.95663	5.287135	5.137446	5.150810	4.827941	5.195056	4.941094
#2	23.80936	5.248943	5.121943	5.136529	4.813861	5.188927	4.927207
#3	23.85506	5.254206	5.099926	5.144533	4.802136	5.156941	4.943070

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCV11 Acquired: 7/9/2025 21:12:34 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.190138**	**5.157913**	**5.177696**
Stddev	.007039	.016649	.015317
%RSD	.1356286	.3227821	.2958174
#1	5.189906	5.148404	5.164226
#2	5.183218	5.148198	5.174506
#3	5.197291	5.177137	5.194356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.602**	**31803.55**	**2508.308**	**1964.596**	**4347.266**
Stddev	16.108	82.05	6.034	7.919	20.975
%RSD	.5039093	.2579908	.2405490	.4030880	.4824928
#1	3181.392	31831.88	2501.340	1971.263	4327.541
#2	3213.479	31867.68	2511.794	1966.682	4369.301
#3	3194.936	31711.09	2511.789	1955.843	4344.957

Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB11 Acquired: 7/9/2025 21:16:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003126**	**.0000096**	**.0047912**	**.0034255**	**-.000764**	**.0230704**	**.0004403**
Stddev	.002050	.0020491	.0003962	.0101876	.001497	.0155672	.0005041
%RSD	65.59066	21459.79	8.268890	297.4062	195.9603	67.47722	114.4751
#1	-.004885	-.000781	.0044737	.0146998	.000125	.0398274	.0004031
#2	-.003619	-.001527	.0052352	.0006963	.000076	.0203259	-.000044
#3	-.000874	.002336	.0046648	-.005120	-.002492	.0090579	.000962

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000054**	**-.000027**	**-.023813**	**-.000059**	**.0000211**	**.0019388**	**.0001562**
Stddev	.0002729	.000031	.013797	.000319	.0002403	.0004396	.0030555
%RSD	5046.658	118.4453	57.93601	541.9204	1137.533	22.67520	1956.675
#1	-.000068	-.000006	-.023613	-.000380	-.000245	.0022659	.0019083
#2	-.000224	-.000063	-.037709	.000259	.000223	.0021114	-.003372
#3	.000307	-.000011	-.010118	-.000056	.000085	.0014390	.001932

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**-.016536**	**.0004507**	**.0004751**	**-.042280**	**-.005899**	**.0007354**
Stddev	.002418	.090447	.0003346	.0016708	.010706	.001763	.0002642
%RSD	4427.037	546.9787	74.23399	351.6866	25.32145	29.88824	35.93155
#1	.000571	-.089393	.0001276	-.000890	-.034731	-.004271	.0010117
#2	-.002724	.084697	.0007958	.002338	-.054533	-.007772	.0004852
#3	.001989	-.044911	.0004288	-.000023	-.037577	-.005654	.0007092

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080790**	**.0034245**	**.0089685**	**.0008471**	**.0058079**	**-.003210**	**-.009225**
Stddev	.0024802	.0014733	.0026066	.0003224	.0043311	.000380	.000786
%RSD	30.69974	43.02097	29.06420	38.05601	74.57281	11.84895	8.520606
#1	.0094587	.0042053	.0103721	.0004908	.0026121	-.002964	-.008749
#2	.0052157	.0043430	.0105724	.0009320	.0040742	-.003648	-.010133
#3	.0095626	.0017252	.0059608	.0011186	.0107372	-.003018	-.008794

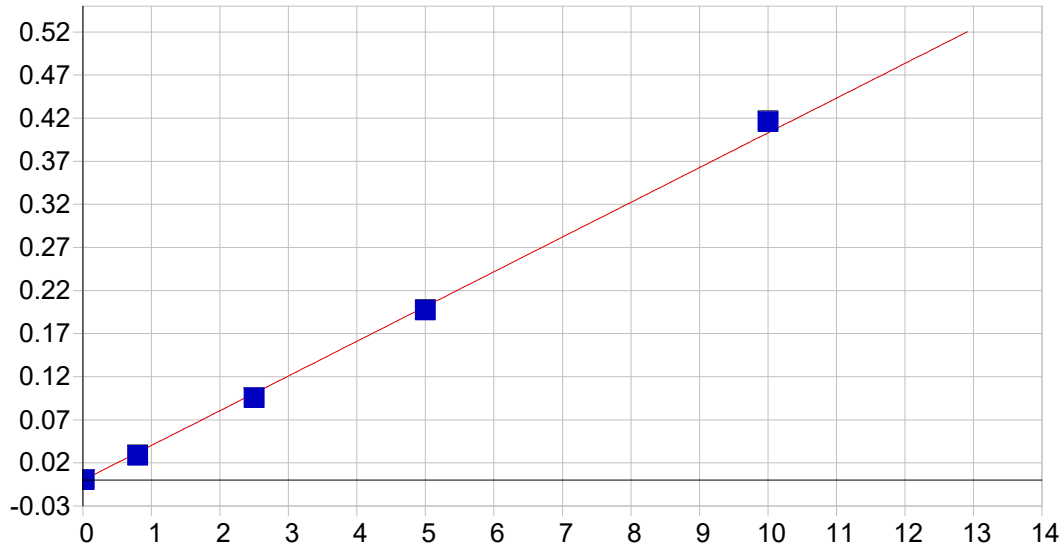
Reviewed By:jaswal
On:7/10/2025 11:33:47 PM
Inst Id :P5
LB :LB136407

Sample Name: CCB11 Acquired: 7/9/2025 21:16:50 Type: Unk
Method: METHOD 6010D, 200.7 M(v29) Mode: CONC Corr. Factor: 1.000000
User: Janvi Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.004041	.0062158	.0003075
Stddev	.005307	.0071689	.0003246
%RSD	131.3383	115.3338	105.5820
#1	-.006882	-.000061	.0000885
#2	-.007323	.014028	.0001534
#3	.002082	.004681	.0006804

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3356.000	33732.17	2584.650	2080.829	5022.350
Stddev	7.233	204.96	20.293	11.100	12.416
%RSD	.2155353	.6076189	.7851329	.5334370	.2472232
#1	3361.115	33554.08	2561.836	2076.609	5034.073
#2	3347.724	33686.24	2591.427	2072.458	5009.340
#3	3359.160	33956.21	2600.688	2093.420	5023.637

Reviewed By:
On:
Inst Id :P5
LB :LB136486



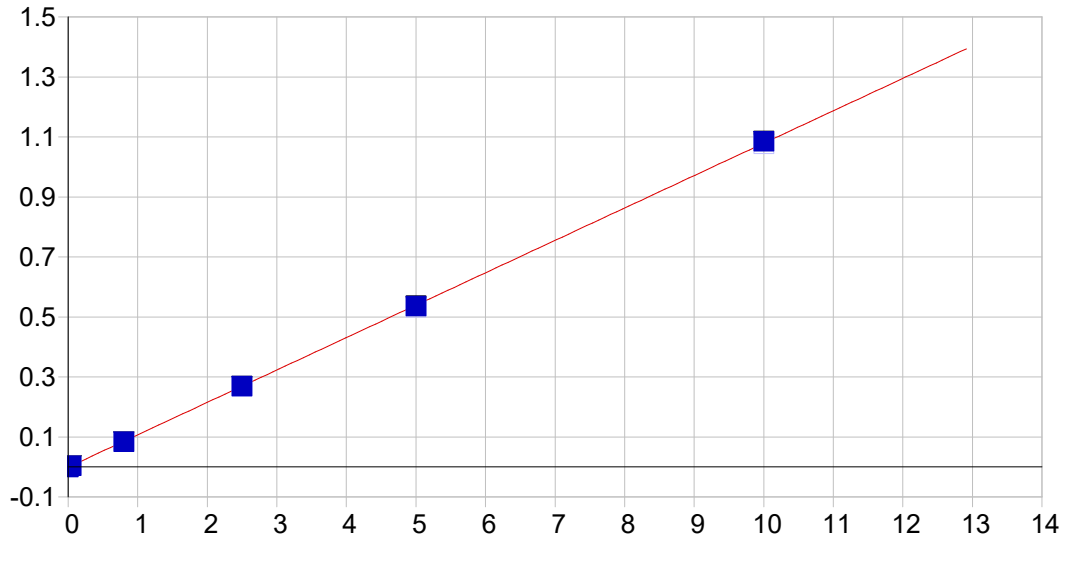
As 189.042 {479}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000062	Re-Slope:	1.000000
A1 (Gain):	0.040301	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999198	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.003382		
Predicted MQL:	0.011275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00006	.000	1
S1	.02000	.01591	-.004	-20.4	.00058	.000	1
S2	.80000	.71496	-.085	-10.6	.02875	.000	1
S3	2.5000	2.3706	-.129	-5.18	.09546	.000	1
S4	5.0000	4.8935	-.107	-2.13	.19712	.000	1
S5	10.000	10.325	.325	3.25	.41599	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



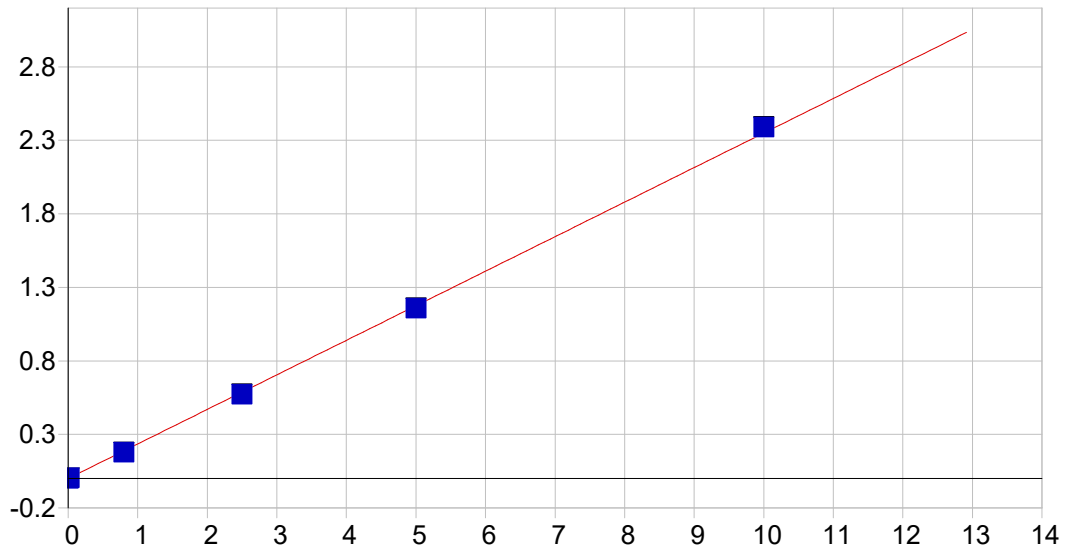
Tl 190.856 {477}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000872	Re-Slope:	1.000000
A1 (Gain):	0.107992	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002066		
Predicted MQL:	0.006886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00087	.000	1
S1	.04000	.04082	.001	2.05	.00344	.000	1
S2	.80000	.78396	-.016	-2.00	.08312	.000	1
S3	2.5000	2.4950	-.005	-.202	.26645	.001	1
S4	5.0000	4.9688	-.031	-.623	.53151	.001	1
S5	10.000	10.051	.051	.514	1.0762	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



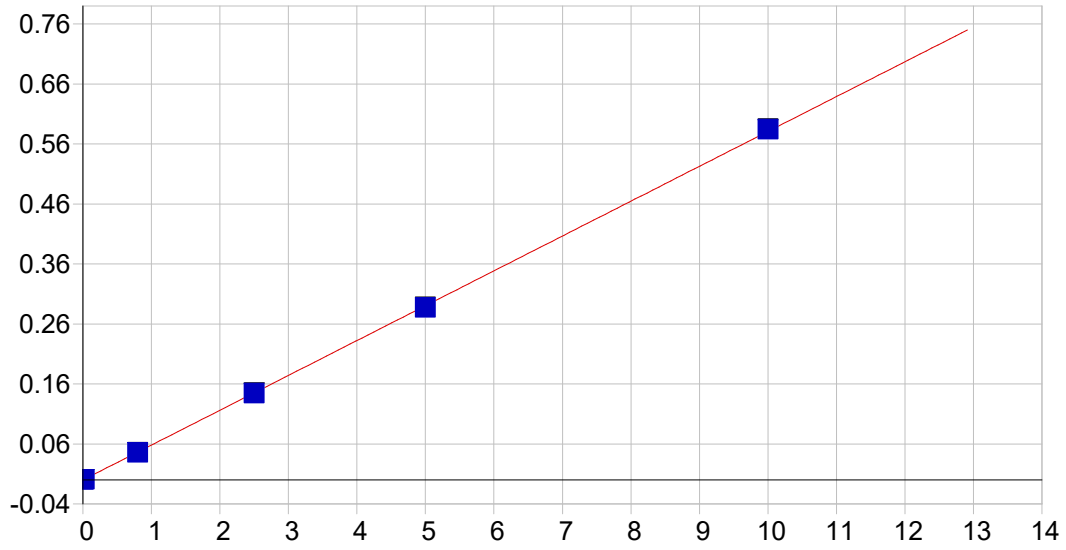
Pb 220.353 {453}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000283	Re-Slope:	1.000000
A1 (Gain):	0.234957	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.001914		
Predicted MQL:	0.006381		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00028	.001	1
S1	.01200	.01459	.003	21.5	.00365	.000	1
S2	.80000	.75502	-.045	-5.62	.17750	.001	1
S3	2.5000	2.4389	-.061	-2.44	.57275	.001	1
S4	5.0000	4.9299	-.070	-1.40	1.1575	.002	1
S5	10.000	10.174	.174	1.74	2.3883	.003	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



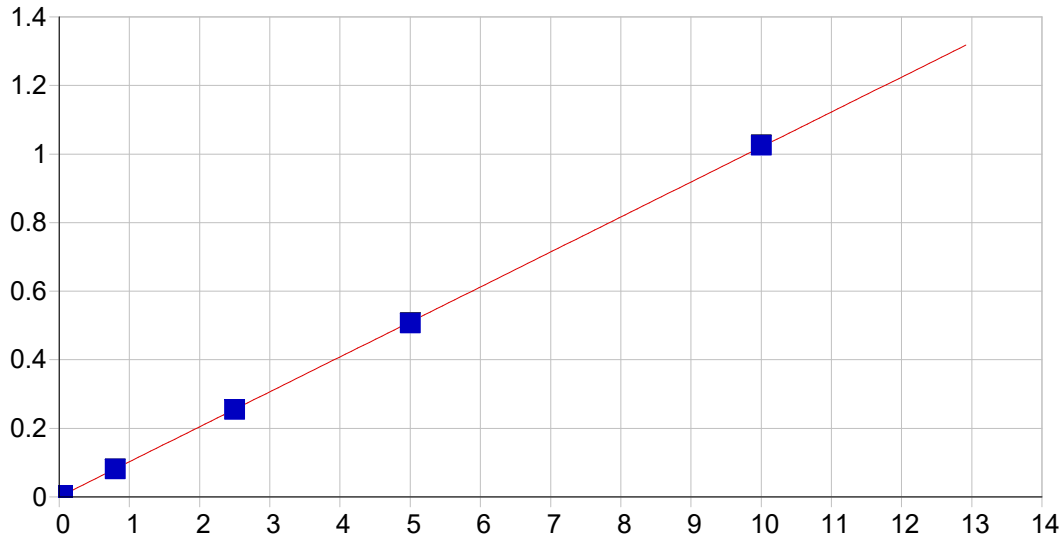
Se 196.090 {472}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000092	Re-Slope:	1.000000
A1 (Gain):	0.058092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.004034		
Predicted MQL:	0.013446		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.02000	.01957	-.000	-2.17	.00104	.000	1
S2	.80000	.79005	-.010	-1.24	.04578	.000	1
S3	2.5000	2.4940	-.006	-.241	.14472	.000	1
S4	5.0000	4.9538	-.046	-.924	.28755	.000	1
S5	10.000	10.063	.063	.626	.58419	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



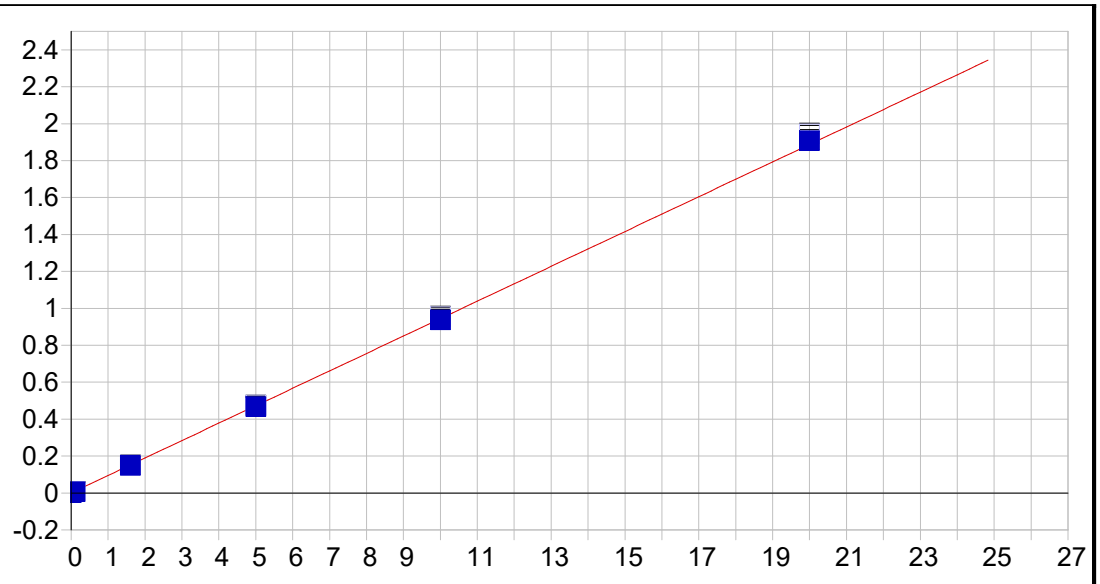
Sb 206.833 {463}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000474	Re-Slope:	1.000000
A1 (Gain):	0.101987	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.003046		
Predicted MQL:	0.010155		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00047	.000	1
S1	.05000	.04944	-.001	-1.12	.00546	.000	1
S2	.80000	.79091	-.009	-1.14	.08101	.000	1
S3	2.5000	2.4908	-.009	-.369	.25412	.000	1
S4	5.0000	4.9692	-.031	-.616	.50649	.001	1
S5	10.000	10.050	.050	.497	1.0239	.002	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



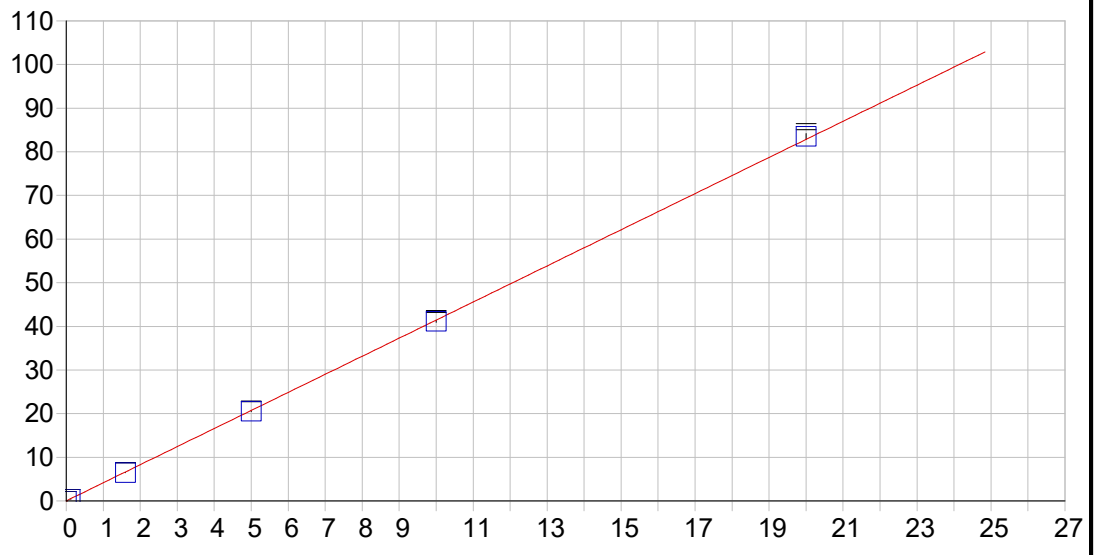
Al 396.152 { 85}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000920	Re-Slope:	1.000000
A1 (Gain):	0.094331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999756	Status:	OK.
Std Error of Est:	0.000158		
Predicted MDL:	0.024041		
Predicted MQL:	0.080135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00092	.002	1
S1	.10000	.06240	-.038	-37.6	.00751	.002	1
S2	1.6000	1.5675	-.032	-2.03	.15159	.001	1
S3	5.0000	4.9402	-.060	-1.20	.47571	.001	1
S4	10.000	9.9149	-.085	-.851	.95376	.004	1
S5	20.000	20.217	.217	1.09	1.9431	.006	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



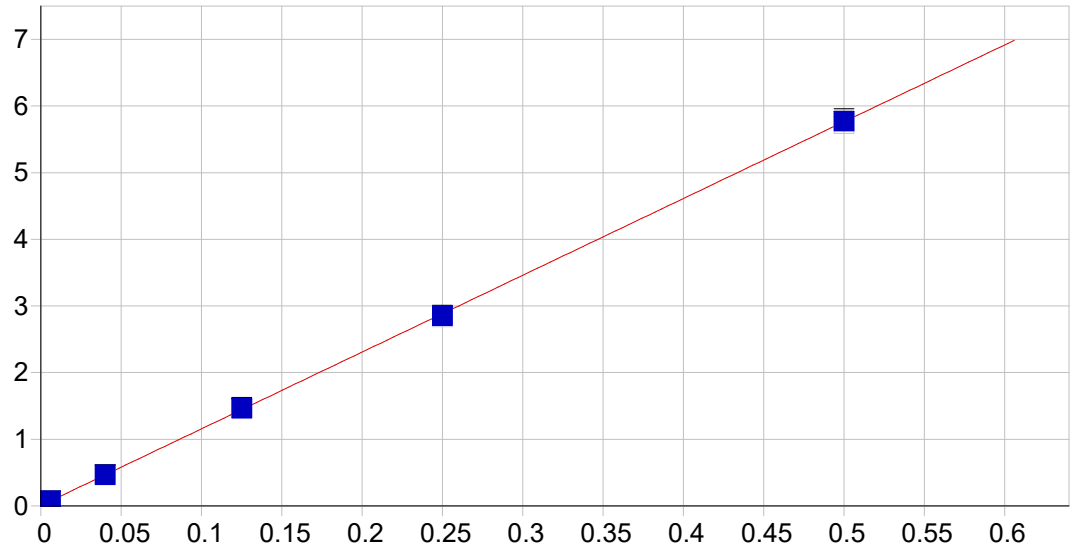
Ba 493.409 { 68}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.018498	Re-Slope:	1.000000
A1 (Gain):	4.141732	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.002901		
Predicted MDL:	0.001064		
Predicted MQL:	0.003546		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01852	.004	1
S1	.10000	.09919	-.001	-.815	.42930	.002	1
S2	1.6000	1.5581	-.042	-2.62	6.4719	.040	1
S3	5.0000	4.9589	-.041	-.822	20.557	.061	1
S4	10.000	9.9247	-.075	-.753	41.124	.204	1
S5	20.000	20.159	.159	.796	83.512	.709	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



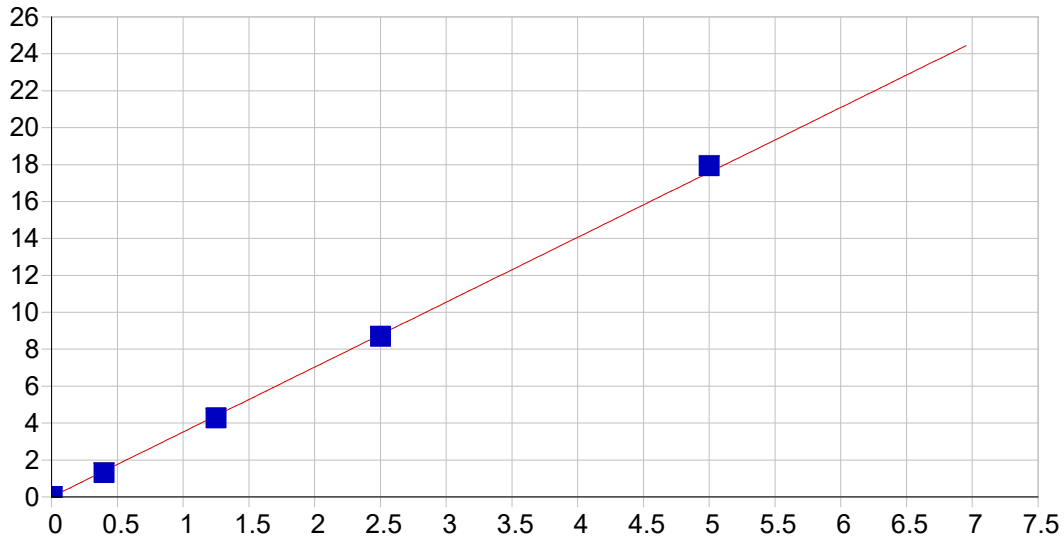
Be 234.861 {144}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004703	Re-Slope:	1.000000
A1 (Gain):	11.520653	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000283		
Predicted MDL:	0.000138		
Predicted MQL:	0.000461		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00470	.002	1
S1	.00600	.00626	.000	4.38	.07612	.002	1
S2	.04000	.04003	.000	.083	.46284	.006	1
S3	.12500	.12679	.002	1.43	1.4558	.013	1
S4	.25000	.24729	-.003	-1.08	2.8345	.006	1
S5	.50000	.50063	.001	.125	5.7338	.039	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



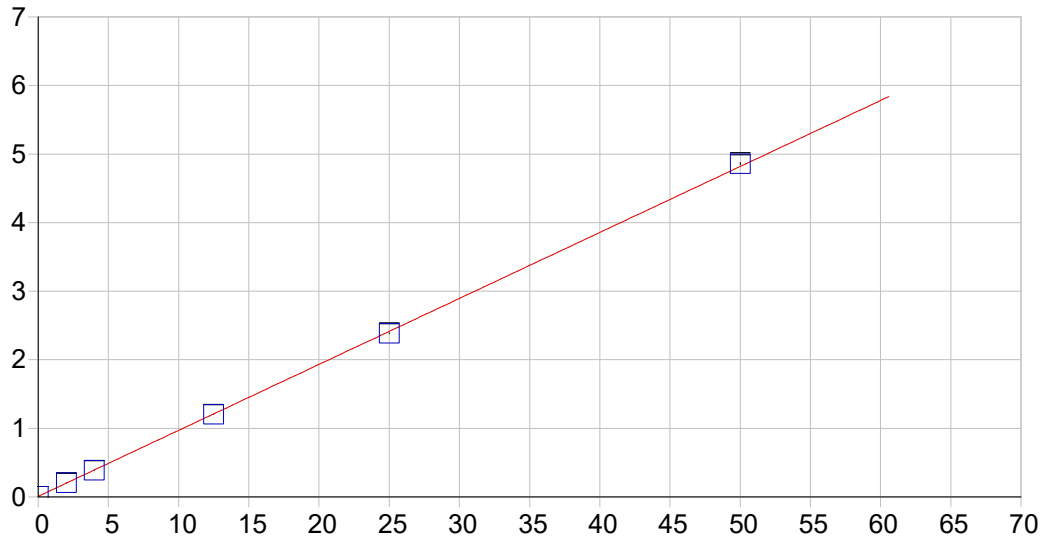
Cd 214.438 {457}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000422	Re-Slope:	1.000000
A1 (Gain):	3.515550	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999695	Status:	OK.
Std Error of Est:	0.000789		
Predicted MDL:	0.000084		
Predicted MQL:	0.000282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00043	.000	1
S1	.00600	.00550	-.001	-8.34	.01977	.000	1
S2	.40000	.37101	-.029	-7.25	1.3048	.003	1
S3	1.2500	1.2122	-.038	-3.02	4.2623	.011	1
S4	2.5000	2.4691	-.031	-1.24	8.6814	.020	1
S5	5.0000	5.0982	.098	1.96	17.925	.027	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



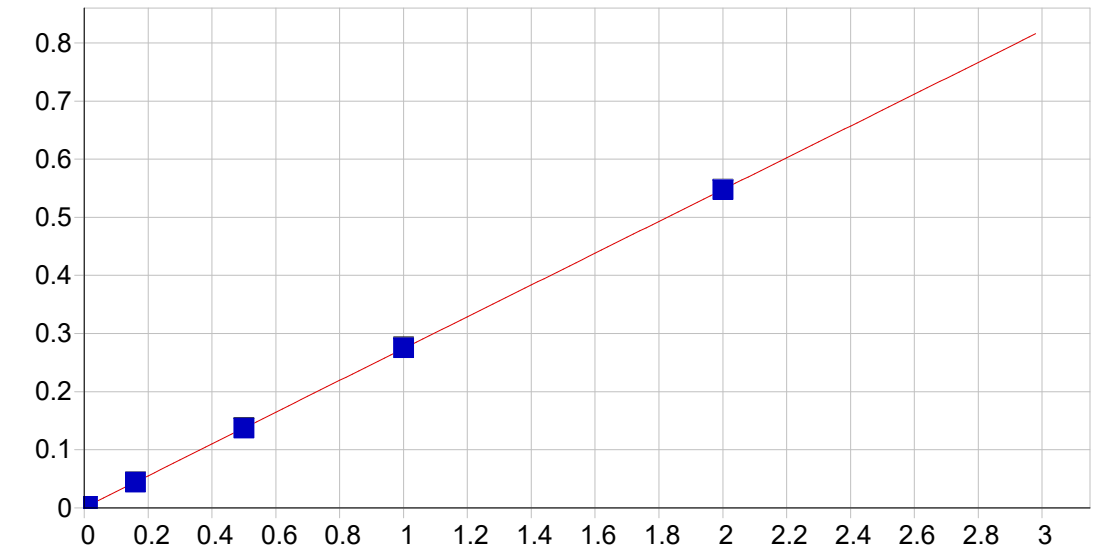
Ca 373.690 { 90}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008583	Re-Slope:	1.000000
A1 (Gain):	0.096200	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000511		
Predicted MDL:	0.023420		
Predicted MQL:	0.078065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00859	.000	1
S1	2.0000	2.0241	.024	1.21	.20330	.003	1
S2	4.0000	3.9188	-.081	-2.03	.38557	.003	1
S3	12.500	12.407	-.093	-.740	1.2022	.001	1
S4	25.000	24.720	-.280	-1.12	2.3867	.009	1
S5	50.000	50.429	.429	.859	4.8599	.016	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



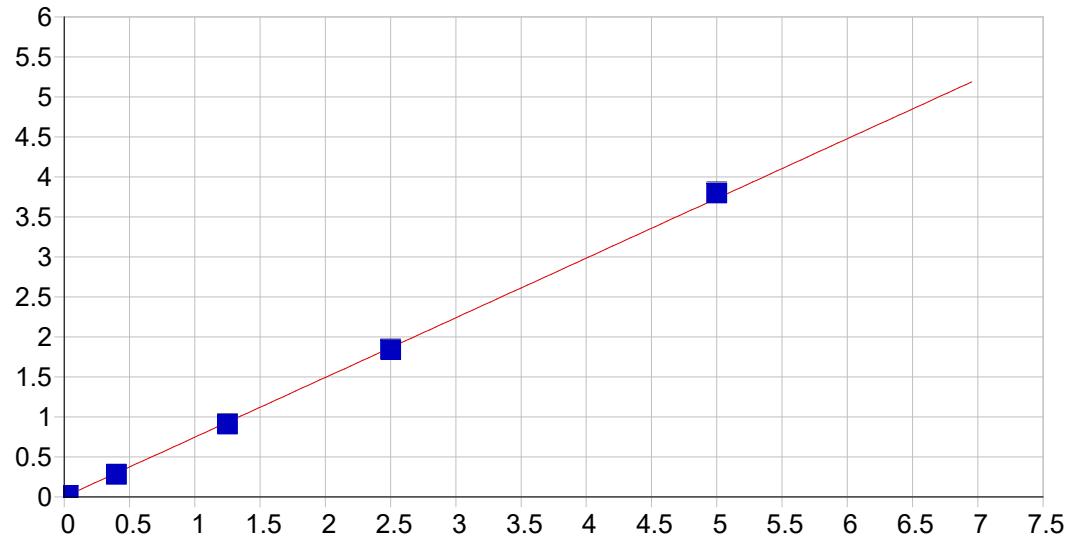
Cr 267.716 {126}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000597	Re-Slope:	1.000000
A1 (Gain):	0.273534	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.000945		
Predicted MQL:	0.003150		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00060	.000	1
S1	.01000	.00998	-.000	-.200	.00333	.000	1
S2	.16000	.15972	-.000	-.175	.04433	.001	1
S3	.50000	.49925	-.001	-.150	.13728	.000	1
S4	1.0000	1.0032	.003	.324	.27526	.002	1
S5	2.0000	1.9978	-.002	-.110	.54756	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



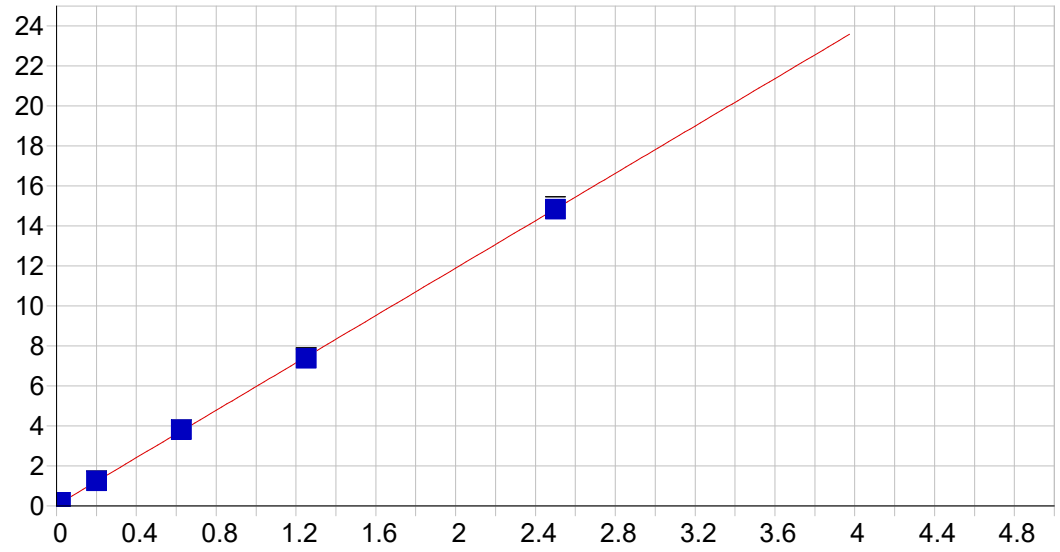
Co 228.616 {448}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000220	Re-Slope:	1.000000
A1 (Gain):	0.746161	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000327		
Predicted MDL:	0.000398		
Predicted MQL:	0.001328		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00022	.000	1
S1	.03000	.02966	-.000	-1.13	.02225	.000	1
S2	.40000	.37659	-.023	-5.85	.28176	.001	1
S3	1.2500	1.2181	-.032	-2.55	.91080	.002	1
S4	2.5000	2.4660	-.034	-1.36	1.8436	.005	1
S5	5.0000	5.0897	.090	1.79	3.8047	.006	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



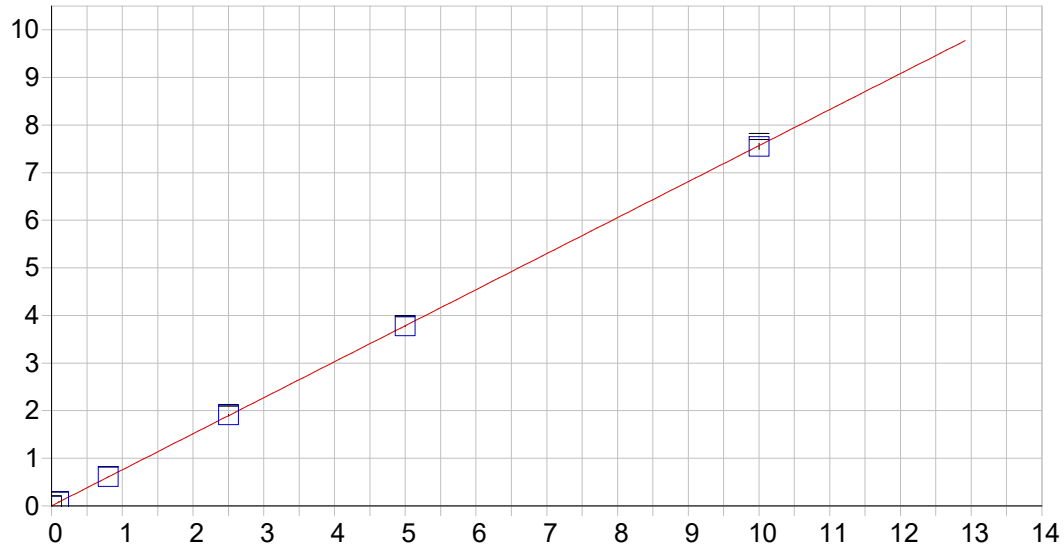
Cu 324.754 {104}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.042995	Re-Slope:	1.000000
A1 (Gain):	5.924857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000774		
Predicted MDL:	0.000652		
Predicted MQL:	0.002175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.04298	.003	1
S1	.02000	.02207	.002	10.3	.17380	.002	1
S2	.20000	.20419	.004	2.09	1.2533	.007	1
S3	.62500	.63450	.009	1.52	3.8041	.025	1
S4	1.2500	1.2379	-.012	-.970	7.3808	.037	1
S5	2.5000	2.4964	-.004	-.145	14.841	.125	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



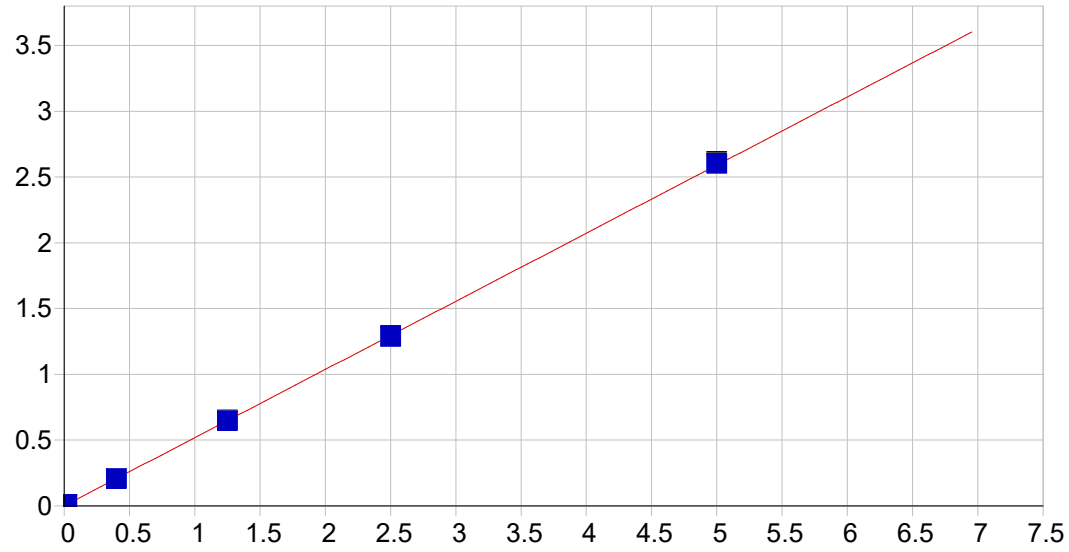
Fe 259.837 {130}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002845	Re-Slope:	1.000000
A1 (Gain):	0.756601	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000362		
Predicted MDL:	0.002420		
Predicted MQL:	0.008066		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00284	.002	1
S1	.10000	.11125	.011	11.2	.08701	.002	1
S2	.80000	.80807	.008	1.01	.61423	.006	1
S3	2.5000	2.5155	.016	.621	1.9061	.017	1
S4	5.0000	4.9905	-.010	-.191	3.7786	.012	1
S5	10.000	9.9747	-.025	-.253	7.5497	.064	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



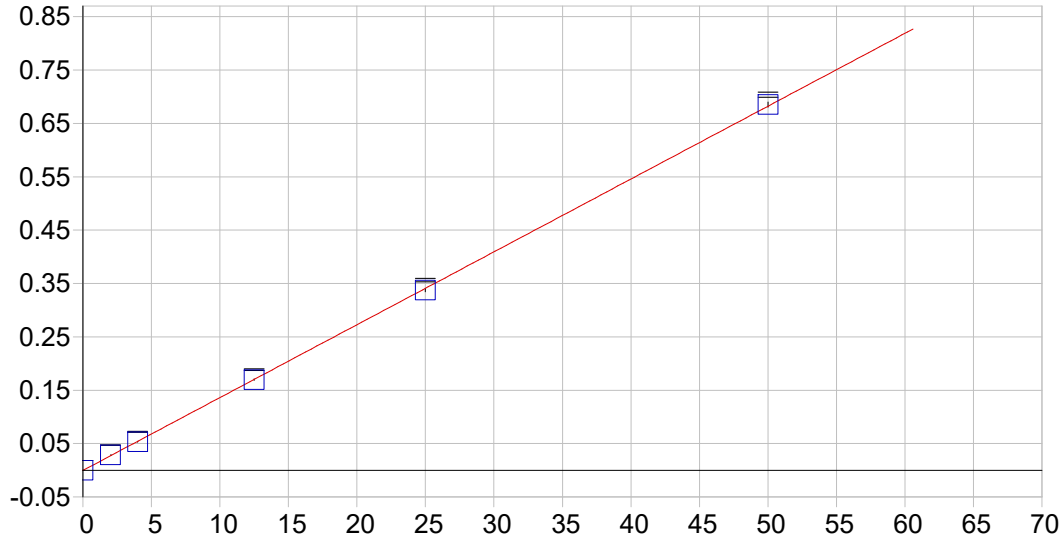
Mn 257.610 {131}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000773	Re-Slope:	1.000000
A1 (Gain):	0.518085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	0.001315		
Predicted MQL:	0.004382		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00077	.001	1
S1	.02000	.02148	.001	7.42	.01192	.001	1
S2	.40000	.39713	-.003	-.717	.20671	.001	1
S3	1.2500	1.2483	-.002	-.134	.64809	.003	1
S4	2.5000	2.4823	-.018	-.709	1.2880	.005	1
S5	5.0000	5.0208	.021	.415	2.6043	.013	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



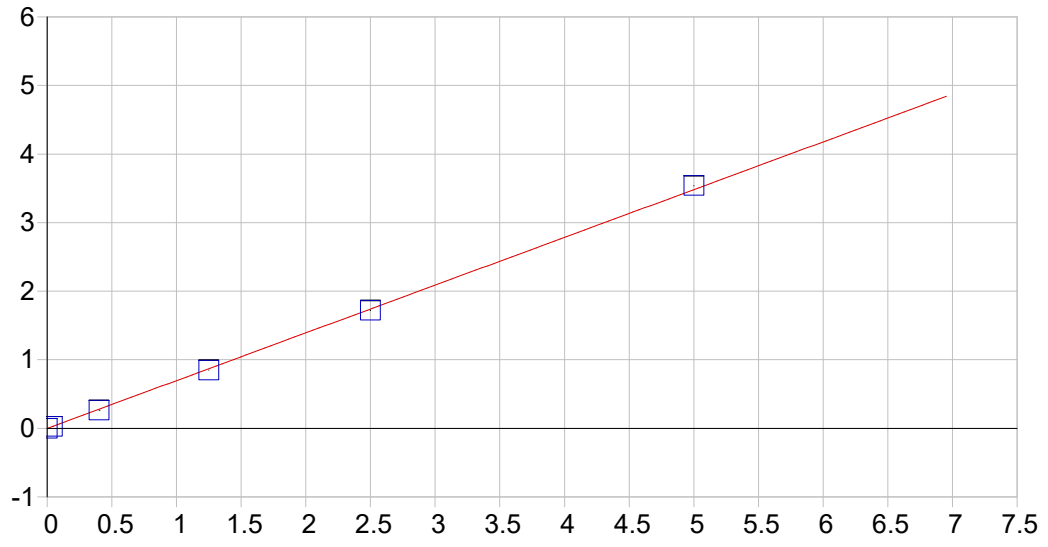
Mg 279.079 {121}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000405	Re-Slope:	1.000000
A1 (Gain):	0.013654	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.061964		
Predicted MQL:	0.206548		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00007	-.000	.000	-.00041	.000	1
S1	2.0000	2.1121	.112	5.61	.02843	.000	1
S2	4.0000	3.9436	-.056	-1.41	.05344	.001	1
S3	12.500	12.460	-.040	-.323	.16972	.002	1
S4	25.000	24.761	-.239	-.958	.33768	.003	1
S5	50.000	50.224	.224	.448	.68536	.005	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



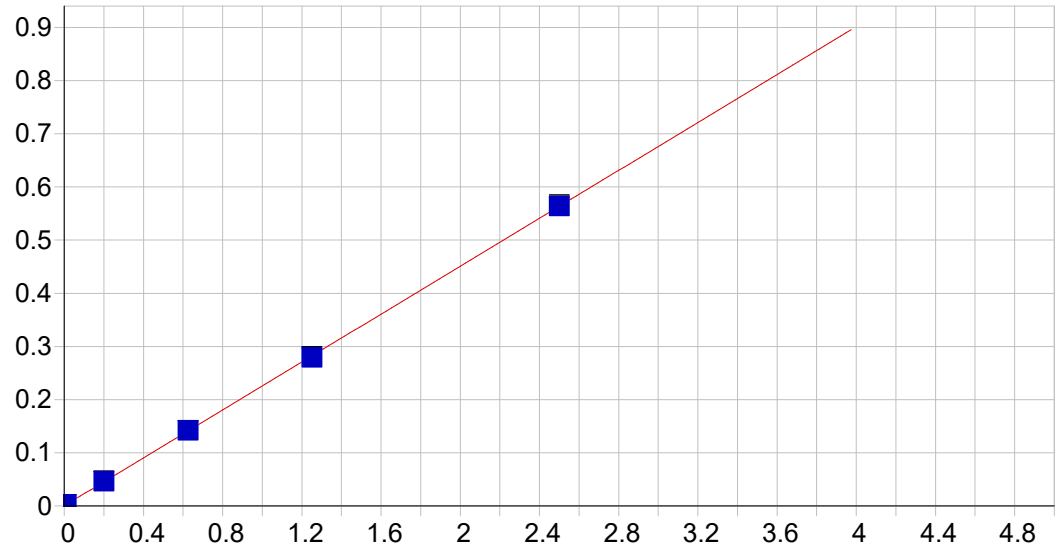
Ni 231.604 {446}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000288	Re-Slope:	1.000000
A1 (Gain):	0.696260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999802	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	0.000500		
Predicted MQL:	0.001666		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.04000	.03856	-.001	-3.60	.02656	.000	1
S2	.40000	.37855	-.021	-5.36	.26328	.000	1
S3	1.2500	1.2192	-.031	-2.47	.84857	.002	1
S4	2.5000	2.4714	-.029	-1.14	1.7204	.005	1
S5	5.0000	5.0823	.082	1.65	3.5383	.004	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



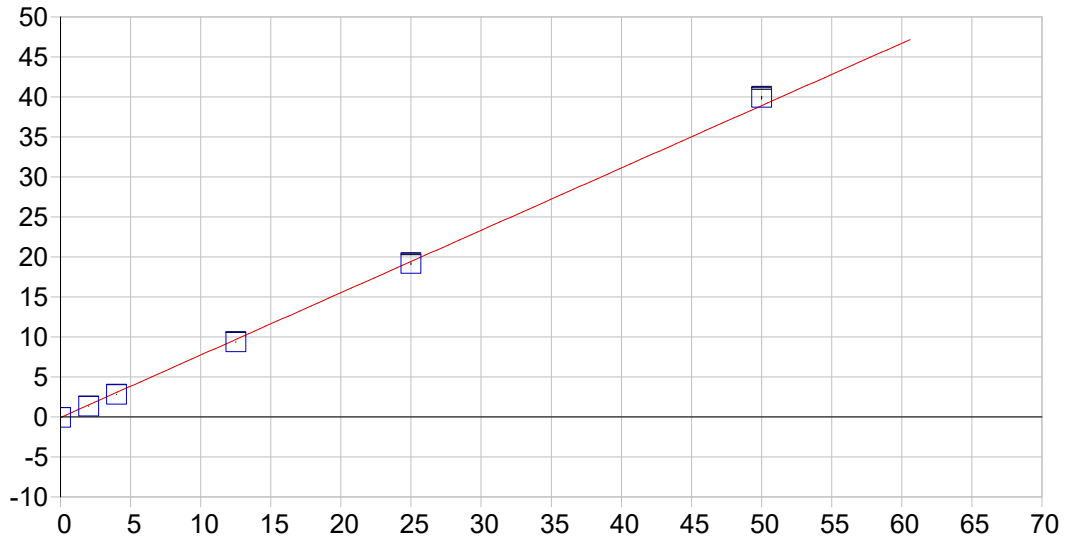
Ag 328.068 {103}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000360	Re-Slope:	1.000000
A1 (Gain):	0.225288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.001358		
Predicted MQL:	0.004526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00036	.000	1
S1	.01000	.01093	.001	9.28	.00282	.000	1
S2	.20000	.20354	.004	1.77	.04619	.000	1
S3	.62500	.62829	.003	.526	.14181	.000	1
S4	1.2500	1.2393	-.011	-.858	.27937	.001	1
S5	2.5000	2.5030	.003	.119	.56389	.002	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



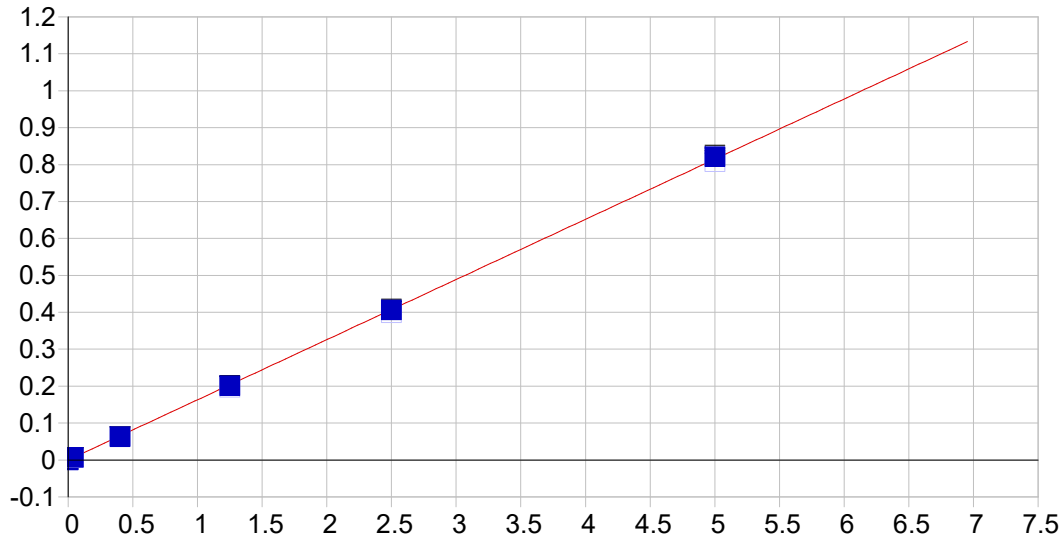
Na 818.326 { 41}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.060860	Re-Slope:	1.000000
A1 (Gain):	0.779409	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999478	Status:	OK.
Std Error of Est:	0.013332		
Predicted MDL:	0.014609		
Predicted MQL:	0.048698		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	-.06054	.015	1
S1	2.0000	1.7955	-.204	-10.2	1.3386	.009	1
S2	4.0000	3.6799	-.320	-8.00	2.8073	.015	1
S3	12.500	12.077	-.423	-3.38	9.3522	.043	1
S4	25.000	24.673	-.327	-1.31	19.169	.118	1
S5	50.000	51.275	1.27	2.55	39.903	.192	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



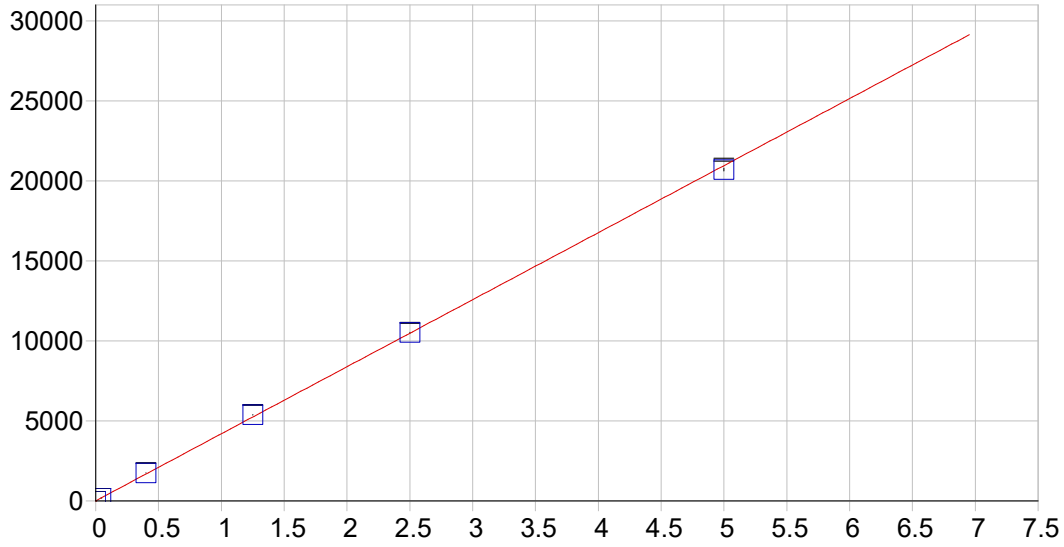
V 292.402 {115}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.162955	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.006756		
Predicted MQL:	0.022519		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.001	1
S1	.04000	.03893	-.001	-2.68	.00604	.001	1
S2	.40000	.38887	-.011	-2.78	.06218	.001	1
S3	1.2500	1.2295	-.020	-1.64	.19669	.001	1
S4	2.5000	2.4902	-.010	-.391	.39850	.003	1
S5	5.0000	5.0424	.042	.849	.80712	.004	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



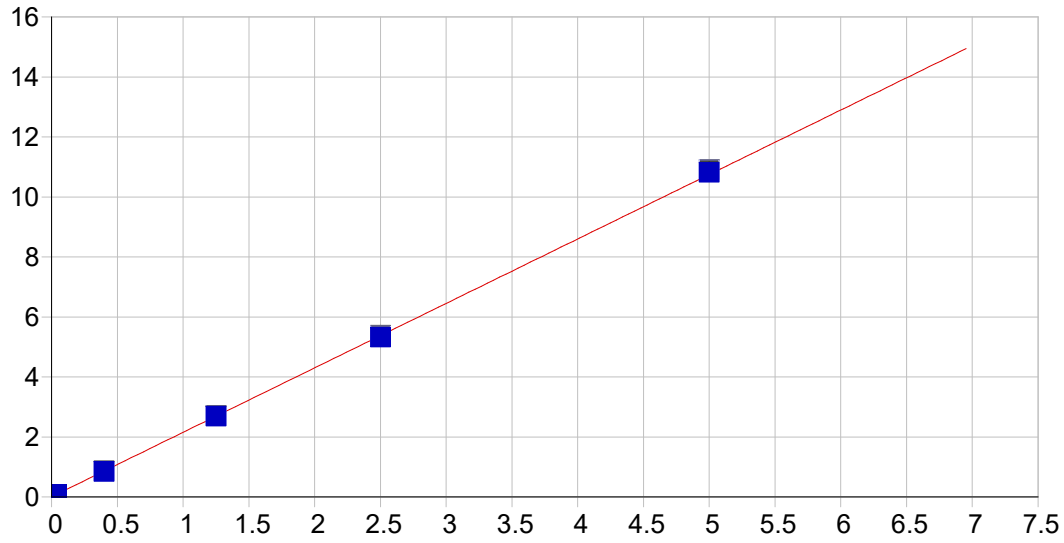
Zn 206.200 {464}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	6.746858	Re-Slope:	1.000000
A1 (Gain):	4189.951219	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	1.579364		
Predicted MDL:	0.000292		
Predicted MQL:	0.000975		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	6.7265	.679	1
S1	.04000	.04257	.003	6.43	185.12	.343	1
S2	.40000	.41598	.016	3.99	1749.7	3.13	1
S3	1.2500	1.2825	.033	2.60	5380.4	13.7	1
S4	2.5000	2.5079	.008	.318	10515.	31.9	1
S5	5.0000	4.9410	-.059	-1.18	20709.	81.2	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



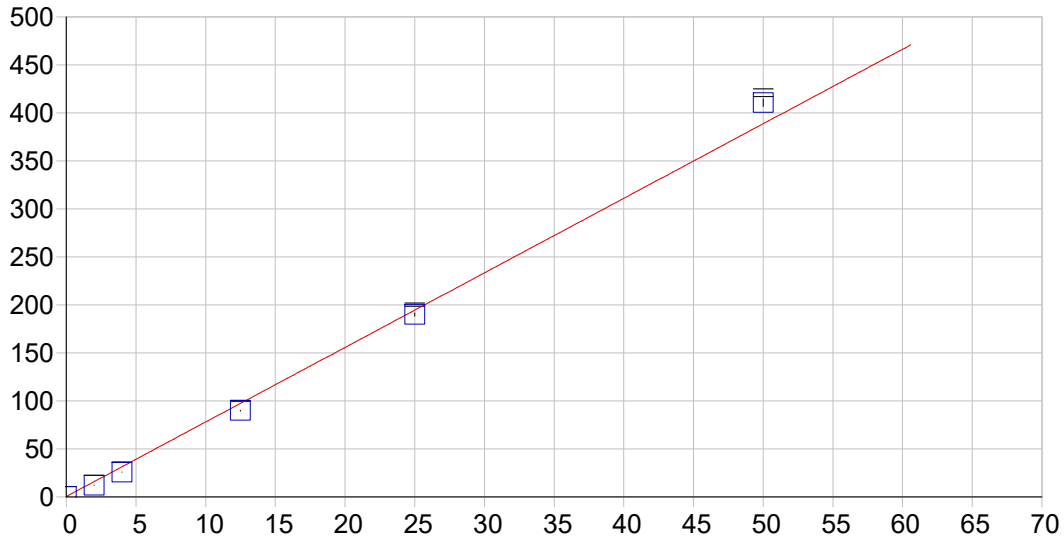
Zn 213.856 {158}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004584	Re-Slope:	1.000000
A1 (Gain):	2.148609	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000404		
Predicted MDL:	0.000484		
Predicted MQL:	0.001615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00459	.001	1
S1	.04000	.04047	.000	1.17	.09216	.001	1
S2	.40000	.39231	-.008	-1.92	.85375	.007	1
S3	1.2500	1.2468	-.003	-.257	2.7030	.011	1
S4	2.5000	2.4772	-.023	-.911	5.3663	.022	1
S5	5.0000	5.0332	.033	.664	10.897	.013	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



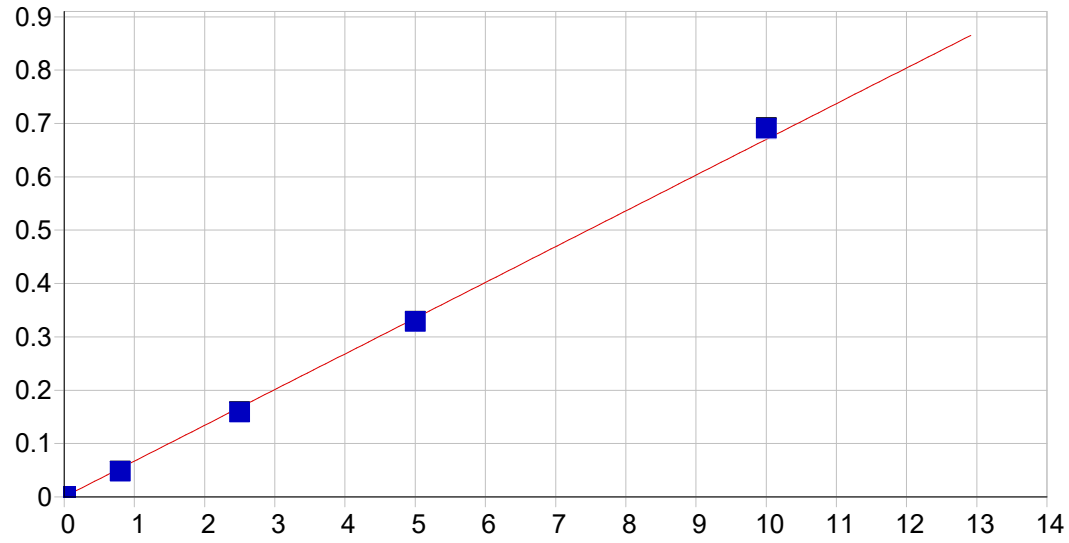
K 769.896 { 44}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.391277	Re-Slope:	1.000000
A1 (Gain):	7.766173	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997302	Status:	OK.
Std Error of Est:	0.302403		
Predicted MDL:	0.001306		
Predicted MQL:	0.004352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00095	.001	.000	.39868	.006	1
S1	2.0000	1.5037	-.496	-24.8	12.069	.117	1
S2	4.0000	3.2706	-.729	-18.2	25.791	.279	1
S3	12.500	11.520	-.980	-7.84	89.855	.504	1
S4	25.000	24.394	-.606	-2.42	189.84	1.67	1
S5	50.000	52.812	2.81	5.62	410.54	4.03	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



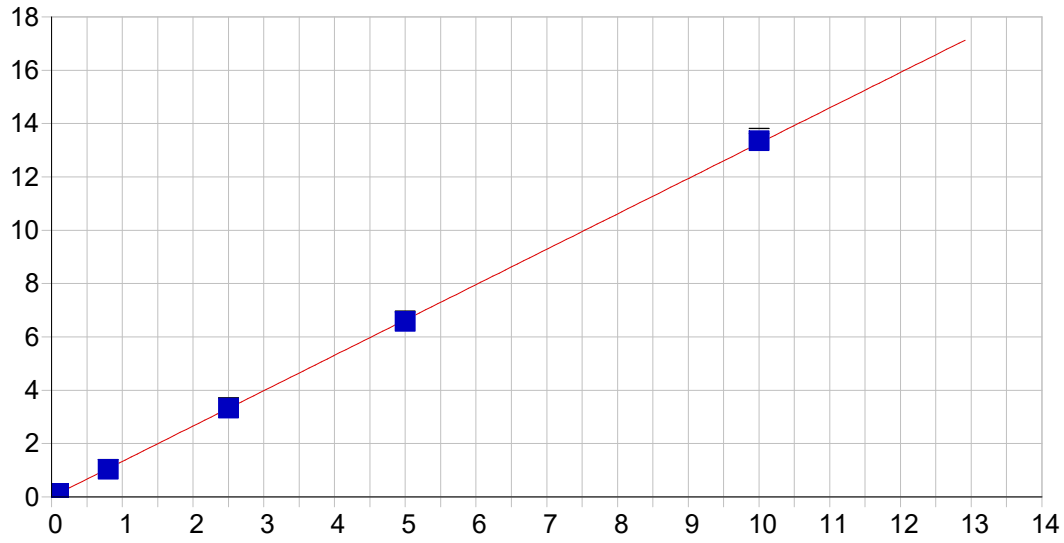
P 177.495 {490}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000110	Re-Slope:	1.000000
A1 (Gain):	0.066998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999255	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.002324		
Predicted MQL:	0.007747		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.02000	.01859	-.001	-7.03	.00134	.000	1
S2	.80000	.71605	-.084	-10.5	.04796	.000	1
S3	2.5000	2.3698	-.130	-5.21	.15849	.001	1
S4	5.0000	4.9043	-.096	-1.91	.32791	.000	1
S5	10.000	10.311	.311	3.11	.68940	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



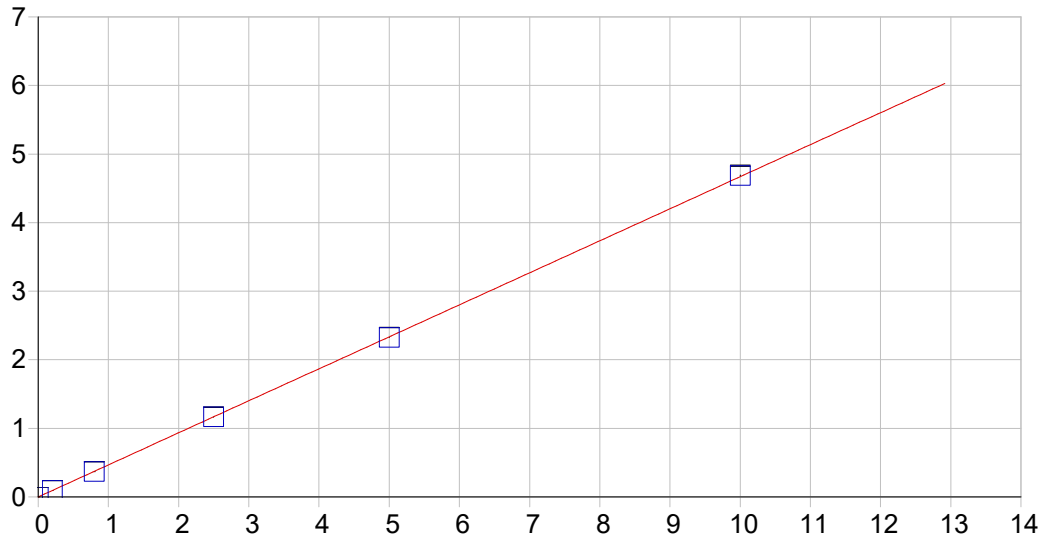
B 249.678 {135}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005127	Re-Slope:	1.000000
A1 (Gain):	1.325928	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000667		
Predicted MDL:	0.001526		
Predicted MQL:	0.005088		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00513	.002	1
S1	.10000	.09894	-.001	-1.06	.13617	.003	1
S2	.80000	.77372	-.026	-3.28	1.0302	.006	1
S3	2.5000	2.5043	.004	.172	3.3231	.021	1
S4	5.0000	4.9570	-.043	-.861	6.5727	.019	1
S5	10.000	10.066	.066	.661	13.342	.100	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



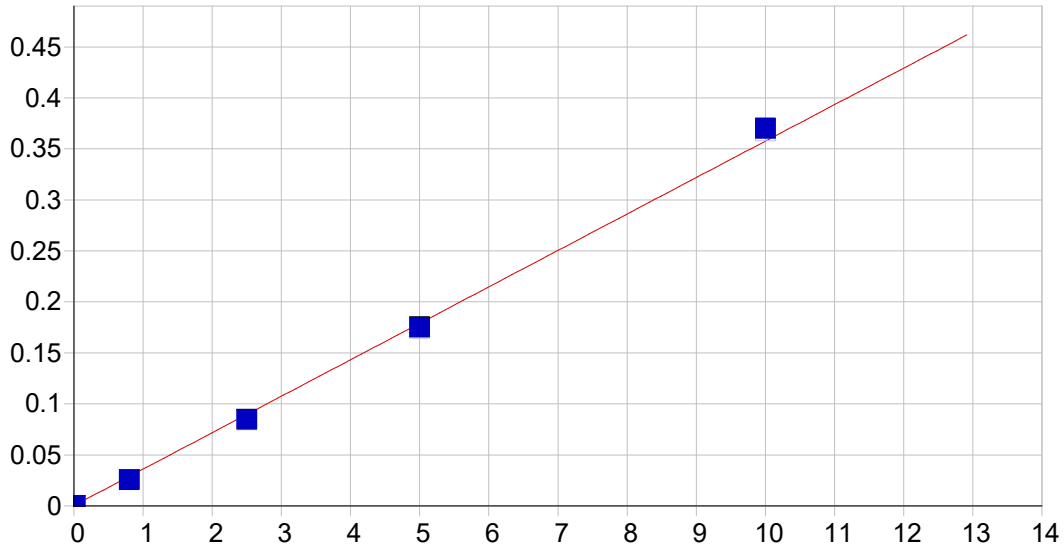
Mo 202.030 {467}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000475	Re-Slope:	1.000000
A1 (Gain):	0.466855	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000174		
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	.00048	.000	1
S1	.20000	.20255	.003	1.27	.09504	.000	1
S2	.80000	.78650	-.014	-1.69	.36766	.000	1
S3	2.5000	2.4965	-.004	-.140	1.1660	.002	1
S4	5.0000	4.9801	-.020	-.399	2.3254	.003	1
S5	10.000	10.034	.034	.344	4.6851	.008	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



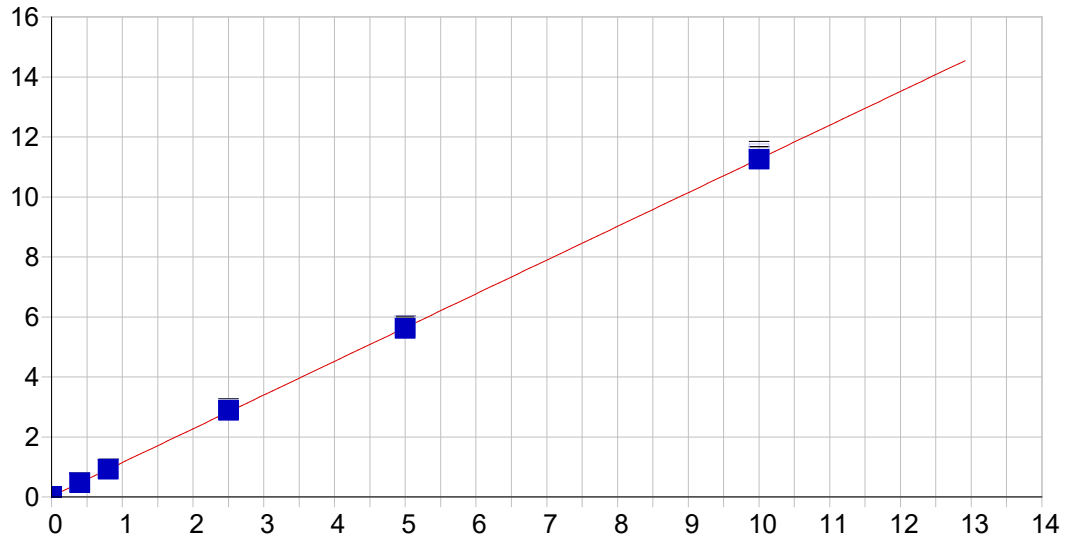
S 182.034 {485}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000336	Re-Slope:	1.000000
A1 (Gain):	0.035729	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999100	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.004134		
Predicted MQL:	0.013780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00034	.000	1
S1	.02000	.01728	-.003	-13.6	.00090	.000	1
S2	.80000	.70904	-.091	-11.4	.02548	.000	1
S3	2.5000	2.3614	-.139	-5.55	.08411	.000	1
S4	5.0000	4.8895	-.110	-2.21	.17385	.001	1
S5	10.000	10.343	.343	3.43	.36749	.001	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



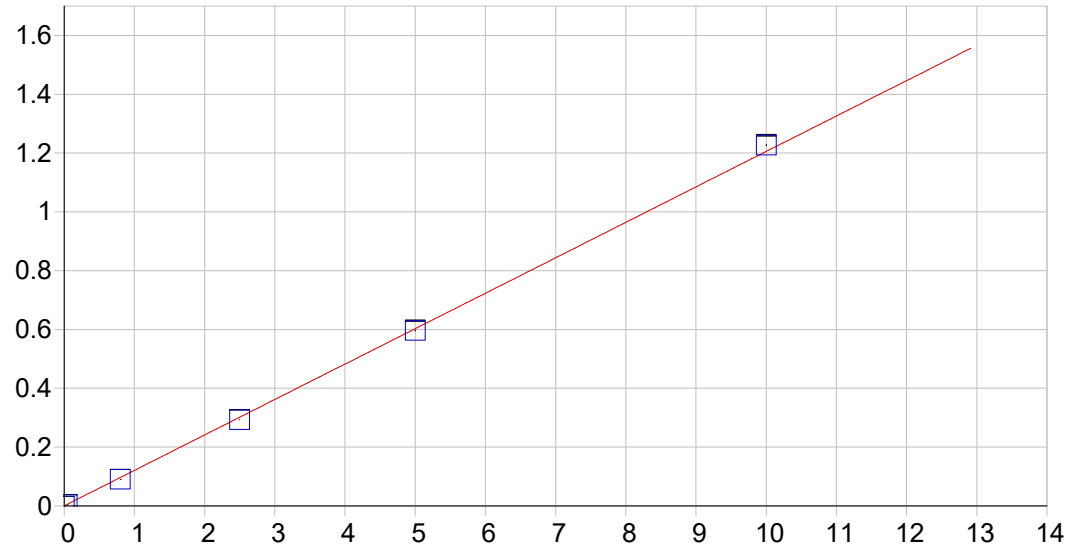
Si 251.611 {134}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020884	Re-Slope:	1.000000
A1 (Gain):	1.124545	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000779		
Predicted MDL:	0.001632		
Predicted MQL:	0.005441		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02088	.002	1
S1	.40000	.40015	.000	.038	.47349	.002	1
S2	.80000	.80046	.000	.057	.93558	.008	1
S3	2.5000	2.5395	.040	1.58	2.9222	.022	1
S4	5.0000	4.9715	-.029	-.570	5.7025	.017	1
S5	10.000	9.9884	-.012	-.116	11.435	.087	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



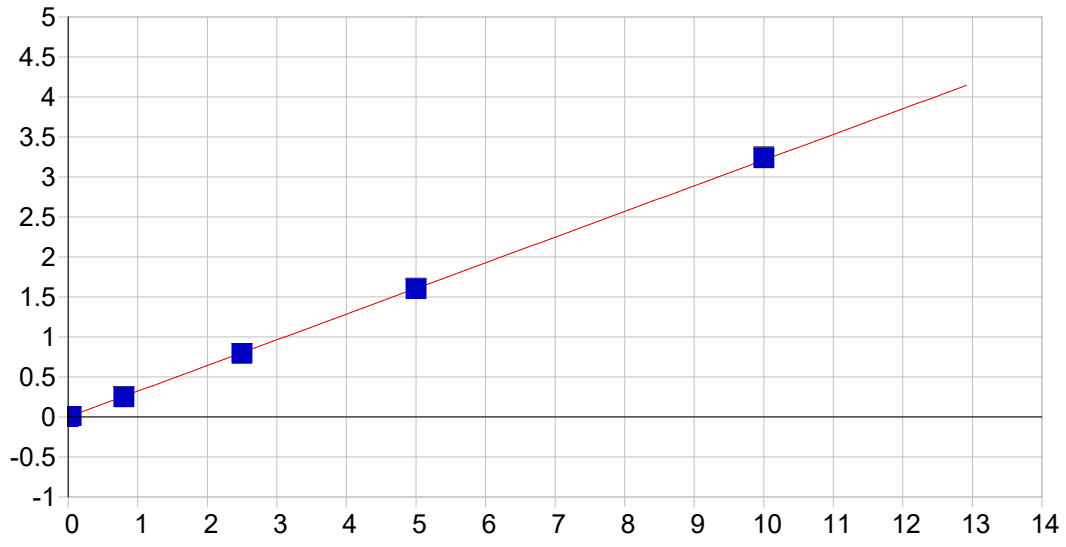
Sn 189.989 {478}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000338	Re-Slope:	1.000000
A1 (Gain):	0.120512	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999740	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.001157		
Predicted MQL:	0.003858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00034	.000	1
S1	.04000	.03599	-.004	-10.0	.00468	.000	1
S2	.80000	.74739	-.053	-6.58	.09041	.000	1
S3	2.5000	2.4307	-.069	-2.77	.29327	.001	1
S4	5.0000	4.9469	-.053	-1.06	.59650	.002	1
S5	10.000	10.179	.179	1.79	1.2270	.002	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



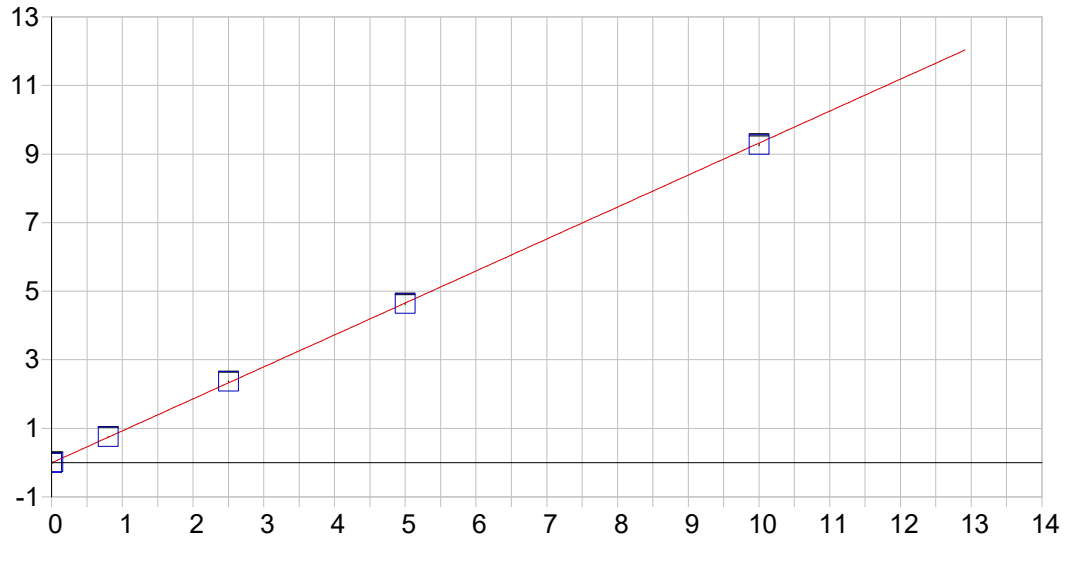
Ti 336.121 {100}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000582	Re-Slope:	1.000000
A1 (Gain):	0.320909	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.004402		
Predicted MQL:	0.014674		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00058	.001	1
S1	.04000	.03474	-.005	-13.2	.01172	.000	1
S2	.80000	.77223	-.028	-3.47	.24827	.002	1
S3	2.5000	2.4665	-.033	-1.34	.79171	.002	1
S4	5.0000	4.9804	-.020	-.392	1.5980	.010	1
S5	10.000	10.086	.086	.861	3.2357	.010	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486



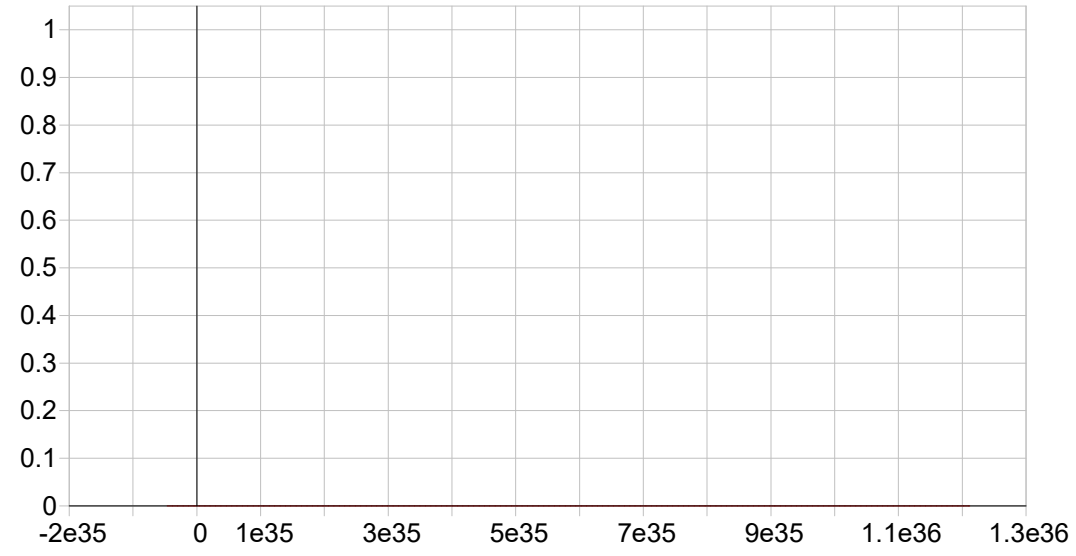
Li 670.784 { 50}

Date of Fit:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006399	Re-Slope:	1.000000
A1 (Gain):	0.932591	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999885	Status:	OK.
Std Error of Est:	0.000331		
Predicted MDL:	0.006902		
Predicted MQL:	0.023007		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00641	.003	1
S5	10.000	9.9506	-.049	-.494	9.2734	.034	1
S4	5.0000	4.9761	-.024	-.478	4.6343	.026	1
S3	2.5000	2.5455	.045	1.82	2.3675	.012	1
S2	.80000	.82081	.021	2.60	.75908	.009	1
S1	.02000	.02703	.007	35.1	.01880	.006	1

Reviewed By:
On:
Inst Id :P5
LB :LB136486

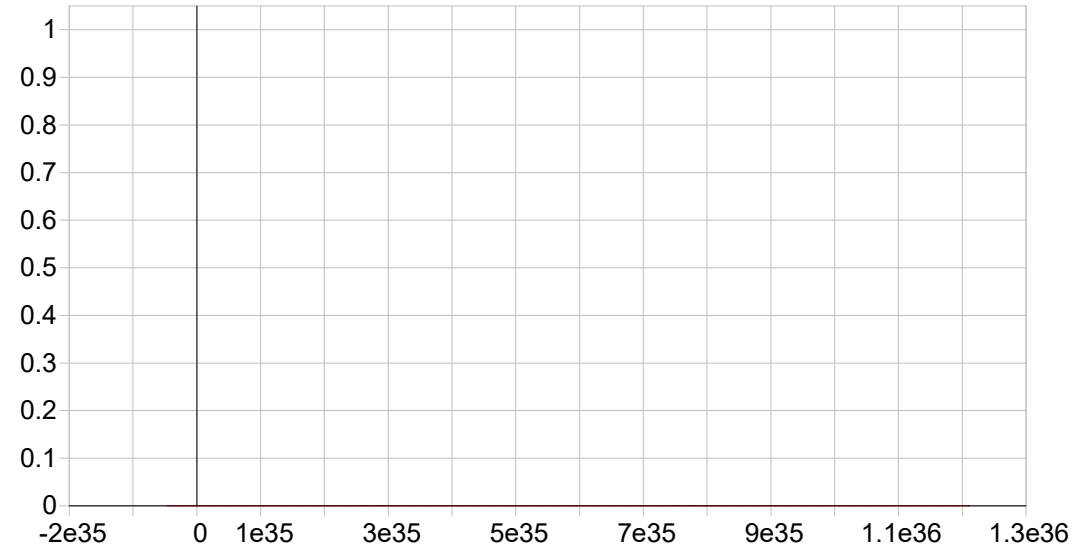


Y 224.306 {450}*

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}*

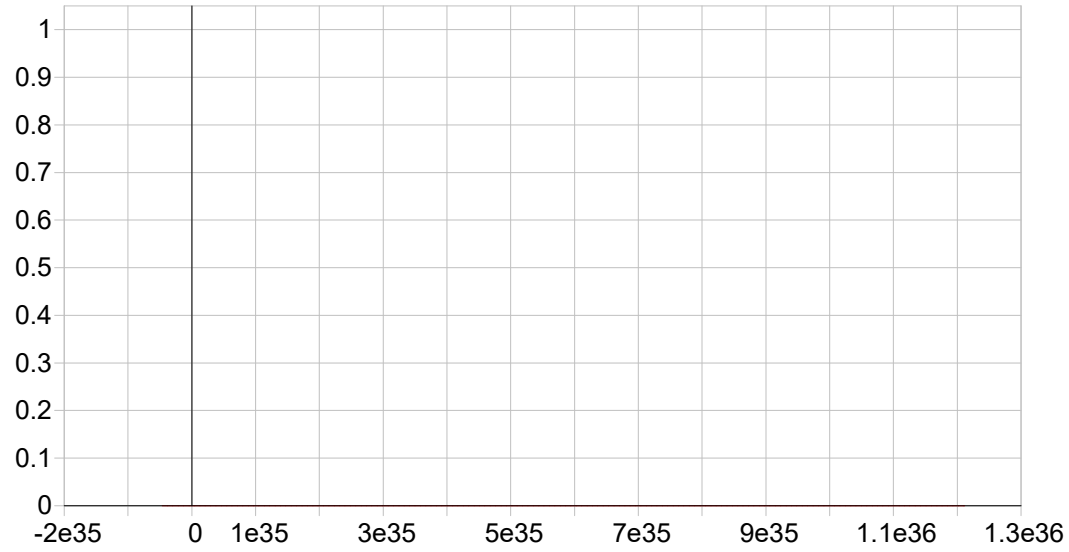
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P5
LB :LB136486

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

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

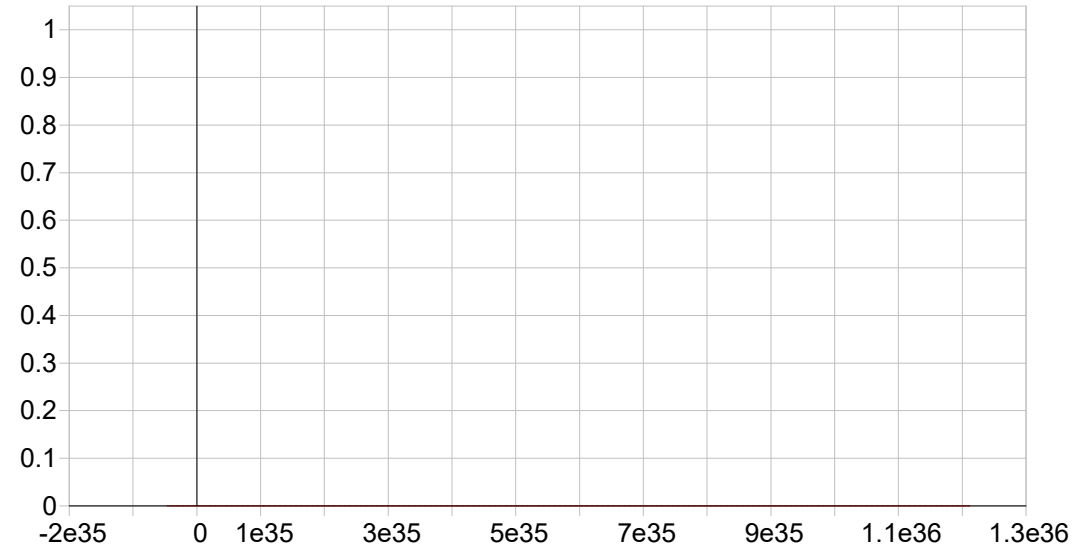


Y 371.030 { 91}*

Date of Fit:	<not fit>		Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):		0.000000		Re-Slope:	1.000000	
A1 (Gain):		0.000000		Y-int:	0.000000	
A2 (Curvature):		0.000000				
n (Exponent):		1.000000				
Correlation:		0.000000		Status:	Warning	Zero Gain
Std Error of Est:		0.000000				
Predicted MDL:		n/a				
Predicted MQL:		n/a				

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

Reviewed By:
On:
Inst Id :P5
LB :LB136486

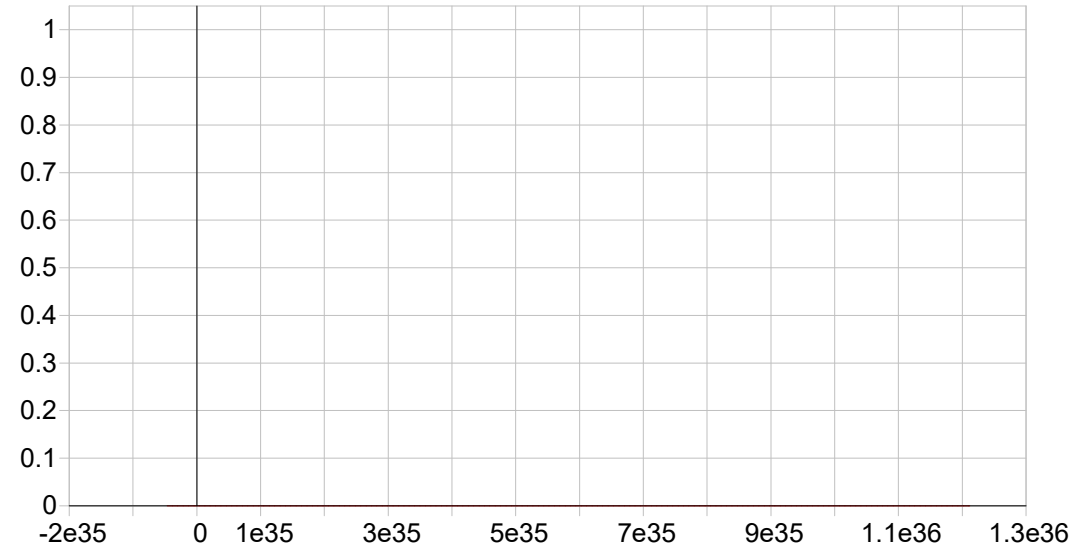


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

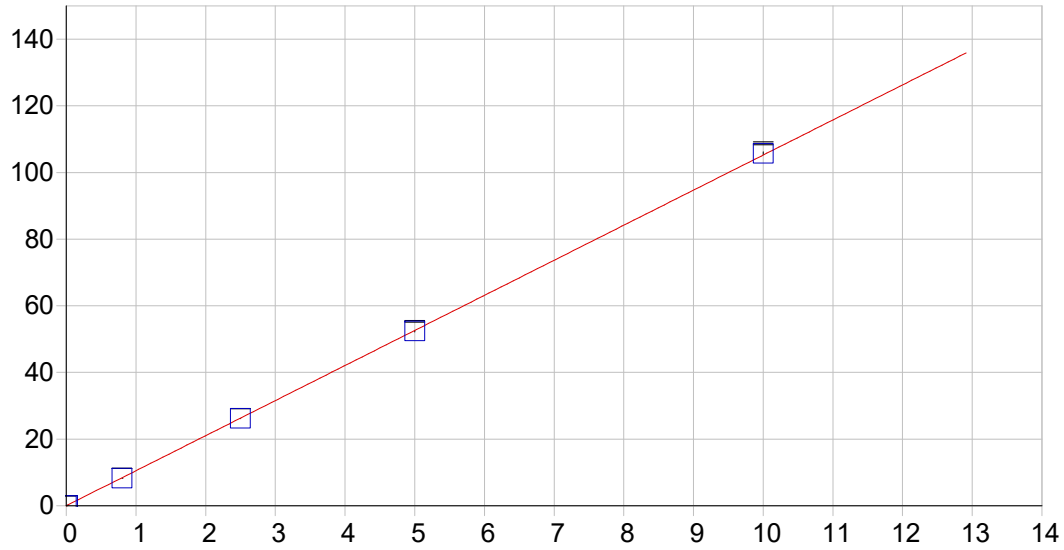
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
Inst Id :P5
LB :LB136486

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:	7/15/2025 15:46:12	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001701	Re-Slope:	1.000000
A1 (Gain):	10.523417	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.001502		
Predicted MDL:	0.000237		
Predicted MQL:	0.000791		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00170	.001	1
S1	.02000	.02024	.000	1.18	.21466	.002	1
S2	.80000	.78478	-.015	-1.90	8.2603	.038	1
S3	2.5000	2.4886	-.011	-.457	26.190	.034	1
S4	5.0000	4.9778	-.022	-.444	52.385	.223	1
S5	10.000	10.049	.049	.486	105.75	.448	1

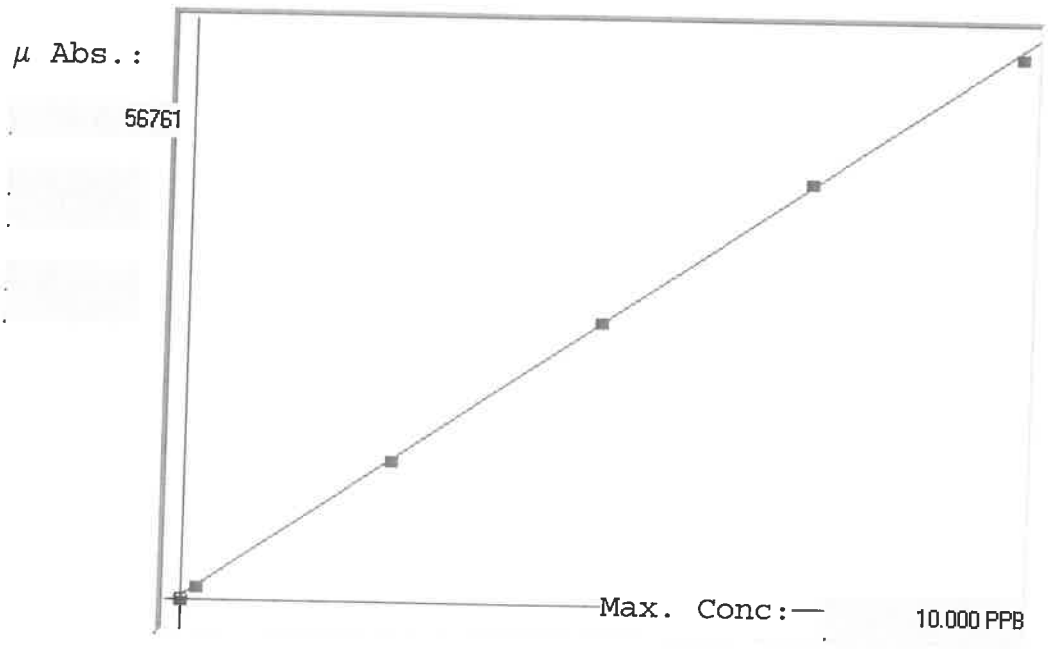
Reviewed By:MOHAN
On:7/9/2025 10:32:50 AM
Inst Id :CV1
LB :LB136369

LB136369

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7541e-004

C= -6.4789e-002

Rho= 0.9998275

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.059	-0.059	34	0.000	34					-3
0.2	0.200	0.194	-0.006	1476	0.0 %	1476					1
2.5	2.500	2.517	0.017	14720	0.0 %	14720					1
5.0	5.000	5.062	0.062	29228	0.0 %	29228					1
7.5	7.500	7.594	0.094	43661	0.0 %	43661					1
10.0	10.000	9.892	-0.108	56761	0.0 %	56761					-1

Reviewed By:MOHAN
On:7/9/2025 10:32:50 AM
Inst Id :CV1
LB :LB136369

LB136369 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 03 Jul 2025 10:53:01

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Stnd Conc	Method	Date
S	0.0 - 1	S0	-	34	PPB	0.0000	7471B	03 Jul 2025 10:55:45
S	0.2 - 1	S0.2	-	1476	PPB	0.2000	7471B	03 Jul 2025 10:58:02
S	2.5 - 1	S2.5	-	14720	PPB	2.5000	7471B	03 Jul 2025 11:00:20
S	5.0 - 1	S5	-	29228	PPB	5.0000	7471B	03 Jul 2025 11:02:37
S	7.5 - 1	S7.5	-	43661	PPB	7.5000	7471B	03 Jul 2025 11:04:57
S	10.0 - 1	S10	-	56761	PPB	10.0000	7471B	03 Jul 2025 11:10:06
U	ICV16 - 1	ICV16	4.2594	24652	PPB		-7471B	03 Jul 2025 11:13:05
U	ICB16 - 1	ICB16	-0.0639	5	PPB		-7471B	03 Jul 2025 11:17:58
U	CCV51 - 1	CCV51	5.1438	29694	PPB		-7471B	03 Jul 2025 11:20:12
U	CCB51 - 1	CCB51	-0.0560	50	PPB		-7471B	03 Jul 2025 11:22:28
U	CRA - 1	CRA	0.1908	1457	PPB		-7471B	03 Jul 2025 11:24:48
U	HighStd - 1	HighStd	10.0825	57849	PPB		-7471B	03 Jul 2025 11:27:03
U	ChkStd - 1	ChkStd	6.6720	38406	PPB		-7471B	03 Jul 2025 11:29:18
U	PB168719BS - 1	LCSS	4.1985	24305	PPB		-7471B	03 Jul 2025 11:34:14
U	Q2473-01 - 1	PIT#1	2.0554	12087	PPB		-7471B	03 Jul 2025 11:36:31
U	Q2473-02 - 1	PIT#2	2.6425	15434	PPB		-7471B	03 Jul 2025 11:38:52
U	Q2473-03 - 1	PIT#3	1.9568	11525	PPB		-7471B	03 Jul 2025 11:41:11
U	Q2473-04 - 1	PIT#4	2.5590	14958	PPB		-7471B	03 Jul 2025 11:43:31
U	Q2475-01 - 1	SOIL-PILE	0.4653	3022	PPB		-7471B	03 Jul 2025 11:45:48
U	CCV52 - 1	CCV52	5.2254	30159	PPB		-7471B	03 Jul 2025 11:48:06
U	CCB52 - 1	CCB52	-0.0318	188	PPB		-7471B	03 Jul 2025 11:50:26
U	Q2478-01 - 1	WC-1	0.5614	3570	PPB		-7471B	03 Jul 2025 11:52:51
U	Q2484-01 - 1	TP-58	0.1692	1334	PPB		-7471B	03 Jul 2025 11:55:06
U	Q2484-02 - 1	TP-57	0.9247	5641	PPB		-7471B	03 Jul 2025 11:57:24
U	Q2484-03 - 1	TP-64	0.2825	1980	PPB		-7471B	03 Jul 2025 11:59:39
U	Q2484-04 - 1	TP-107	0.7117	4427	PPB		-7471B	03 Jul 2025 12:01:57
U	Q2484-05 - 1	TP-1006	0.3837	2557	PPB		-7471B	03 Jul 2025 12:04:13
U	Q2484-06 - 1	TP-104	0.5191	3329	PPB		-7471B	03 Jul 2025 12:06:32
U	Q2484-06DUP - 1	TP-104DUP	0.4588	2985	PPB		-7471B	03 Jul 2025 12:08:50
U	Q2484-06MS - 1	TP-104MS	4.9130	28378	PPB		-7471B	03 Jul 2025 12:11:08
U	Q2484-06MSD - 1	TP-104MSD	4.9786	28752	PPB		-7471B	03 Jul 2025 12:13:25
U	CCV53 - 1	CCV53	5.0223	29001	PPB		-7471B	03 Jul 2025 12:15:43
U	CCB53 - 1	CCB53	-0.0499	85	PPB		-7471B	03 Jul 2025 12:18:04
U	PB168719BL - 1	PBS	-0.0236	235	PPB		-7471B	03 Jul 2025 12:20:25
U	Q2484-06LX5 - 1		0.0568	693	PPB		-7471B	03 Jul 2025 12:26:25
U	Q2484-06A - 1		4.6741	27016	PPB		-7471B	03 Jul 2025 12:28:40
U	CCV54 - 1	CCV54	5.0389	29096	PPB		-7471B	03 Jul 2025 12:30:55
U	CCB54 - 1	CCB54	-0.0686	-22	PPB		-7471B	03 Jul 2025 12:33:16

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168713

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 07/03/2025 **Time :** 10:30 **Temp :** 96 °C

End Digest Date: 07/03/2025 **Time :** 12:32 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SLS

Supervisor Signature:

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	M6170
CONC: HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/03/25 13:32	SLS met dro	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168713

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168713BL	PBS713	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168713BS	LCS713	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6015	2
Q2472-01	PN#1	N/A	2.32	100	Brown	Yellow	Medium	N/A	N/A	3
Q2473-01	PIT#1	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	4
Q2473-02	PIT#2	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	5
Q2473-03	PIT#3	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	6
Q2473-04	PIT#4	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	7
Q2475-01	SOIL-PILE	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	8
Q2478-01	WC-1	N/A	2.48	100	Brown	Yellow	Medium	N/A	N/A	9
Q2484-01	TP-58	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	10
Q2484-02	TP-57	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	11
Q2484-03	TP-64	N/A	2.32	100	Brown	Yellow	Medium	N/A	N/A	12
Q2484-04	TP-107	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	13
Q2484-05	TP-1006	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	14
Q2484-06	TP-104	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	15
Q2484-06MS	TP-104MS	N/A	2.40	100	Brown	Yellow	Medium	N/A	M6007,M6015	17
Q2484-06MSD	TP-104MSD	N/A	2.23	100	Brown	Yellow	Medium	N/A	M6007,M6015	18
Q2484-06DUP	TP-104DUP	N/A	2.33	100	Brown	Yellow	Medium	N/A	N/A	16

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168713 **WorkList ID :** 190536 **Department :** Digestion **Date :** 07-03-2025 09:49:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2472-01	PN#1	Solid	Metals Group3	Cool 4 deg C	PSEG03	A42	07/01/2025	6010D
Q2473-01	PIT#1	Solid	Metals ICP-TAL	Cool 4 deg C	JPCL01		07/01/2025	6010D
Q2473-02	PIT#2	Solid	Metals ICP-TAL	Cool 4 deg C	JPCL01		07/01/2025	6010D
Q2473-03	PIT#3	Solid	Metals ICP-TAL	Cool 4 deg C	JPCL01		07/01/2025	6010D
Q2473-04	PIT#4	Solid	Metals ICP-TAL	Cool 4 deg C	JPCL01		07/01/2025	6010D
Q2475-01	SOIL-PILE	Solid	Metals ICP-TAL	Cool 4 deg C	JPCL01		07/01/2025	6010D
Q2478-01	WC-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	A43	07/01/2025	6010D
Q2484-01	TP-58	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	A42	07/30/2025	6010D
Q2484-02	TP-57	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	A12	07/01/2025	6010D
Q2484-03	TP-64	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	A12	07/01/2025	6010D
Q2484-04	TP-107	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	A12	07/01/2025	6010D
Q2484-05	TP-1006	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	A12	07/01/2025	6010D
Q2484-06	TP-104	Solid	Metals ICP-TAL	Cool 4 deg C	CAMP02	A12	07/01/2025	6010D

Date/Time 07/03/25 10:15
Raw Sample Received by: SIR met dlg
Raw Sample Relinquished by: SM

Date/Time 07/03/25 11:15
Raw Sample Received by: SM
Raw Sample Relinquished by: SIR met dlg

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168719

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: 07/02/2025 **Time :** 16:25 **Temp :** 94 °C

End Digest Date: 07/02/2025 **Time :** 16:55 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: [illegible]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP86264
CCV	30mL	MP86266
CRA	30mL	MP86268
Blank Spike	0.48mL	MP86256
Matrix Spike	0.48mL	MP86256

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP86270
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	MP86257
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP86259
2.5 ppb	S2.5	30mL	MP86260
5.0 ppb	S5.0	30mL	MP86261
7.5 ppb	S7.5	30mL	MP86262
10.0 ppb	S10.0	30mL	MP86263
ICV	ICV	30mL	MP86264
ICB	ICB	30mL	MP86265
CCV	CCV	30mL	MP86266
CCB	CCB	30mL	MP86267
CRI	CRI	30mL	MP86268
CHK STD	CHK STD	30mL	MP86269

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/2/25 17:20	MB ~ Dig. Lab	Dig. Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168719

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168719BL	PBS719	0.52	35	NA	N/A	3-1
PB168719BS	LCS719	0.55	35	NA	MP86256	2
Q2473-01	PIT#1	0.52	35	NA	N/A	3
Q2473-02	PIT#2	0.52	35	NA	N/A	4
Q2473-03	PIT#3	0.54	35	NA	N/A	5
Q2473-04	PIT#4	0.56	35	NA	N/A	6
Q2475-01	SOIL-PILE	0.52	35	NA	N/A	7
Q2478-01	WC-1	0.56	35	NA	N/A	8
Q2484-01	TP-58	0.56	35	NA	N/A	9
Q2484-02	TP-57	0.53	35	NA	N/A	10
Q2484-03	TP-64	0.51	35	NA	N/A	11
Q2484-04	TP-107	0.56	35	NA	N/A	12
Q2484-05	TP-1006	0.50	35	NA	N/A	13
Q2484-06	TP-104	0.53	35	NA	N/A	14
Q2484-06DUP	TP-104DUP	0.53	35	NA	N/A	15
Q2484-06MS	TP-104MS	0.55	35	NA	MP86256	16
Q2484-06MSD	TP-104MSD	0.52	35	NA	MP86256	17

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 070225_7471 **WorkList ID :** 190520 **Department :** Digestion **Date :** 07-02-2025 14:53:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2473-01	PIT#1	Solid	Mercury	Cool 4 deg C	JPCL01	A12	07/01/2025	7471B
Q2473-02	PIT#2	Solid	Mercury	Cool 4 deg C	JPCL01	A12	07/01/2025	7471B
Q2473-03	PIT#3	Solid	Mercury	Cool 4 deg C	JPCL01	A12	07/01/2025	7471B
Q2473-04	PIT#4	Solid	Mercury	Cool 4 deg C	JPCL01	A12	07/01/2025	7471B
Q2475-01	SOIL-PILE	Solid	Mercury	Cool 4 deg C	JPCL01	A12	07/01/2025	7471B
Q2478-01	WC-1	Solid	Mercury	Cool 4 deg C	PSEG03	A43	07/01/2025	7471B
Q2484-01	TP-58	Solid	Mercury	Cool 4 deg C	PSEG03	A42	07/01/2025	7471B
Q2484-02	TP-57	Solid	Mercury	Cool 4 deg C	CAMP02	A12	07/01/2025	7471B
Q2484-03	TP-64	Solid	Mercury	Cool 4 deg C	CAMP02	A12	07/01/2025	7471B
Q2484-04	TP-107	Solid	Mercury	Cool 4 deg C	CAMP02	A12	07/01/2025	7471B
Q2484-05	TP-1006	Solid	Mercury	Cool 4 deg C	CAMP02	A12	07/01/2025	7471B
Q2484-06	TP-104	Solid	Mercury	Cool 4 deg C	CAMP02	A12	07/01/2025	7471B

Date/Time 7/2/25 @ 16:00

Raw Sample Received by: DRG-DNR-Lab

Raw Sample Relinquished by: DRG-DNR-Lab

Date/Time 7/2/25 @ 16:40

Raw Sample Received by: DRG-DNR-Lab

Raw Sample Relinquished by: DRG-DNR-Lab

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136354

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
Q2480-01	GPX1	1	1.15	10.52	11.67	10.44	88.3	
Q2480-02	GPX2	2	1.19	10.60	11.79	10.66	89.3	
Q2480-03	GPX3	3	1.15	10.84	11.99	10.77	88.7	
Q2480-04	GPX4	4	1.13	10.84	11.97	10.66	87.9	
Q2480-05	GPX5	5	1.13	10.53	11.66	10.55	89.5	
Q2480-06	GPX6	6	1.17	10.56	11.73	10.35	86.9	
Q2480-07	GPX7	7	1.18	10.59	11.77	10.48	87.8	
Q2480-08	GPX8	8	1.18	10.37	11.55	10.22	87.2	
Q2484-01	TP-58	9	1.19	10.77	11.96	10.47	86.2	
Q2484-02	TP-57	10	1.18	10.22	11.4	9.97	86.0	
Q2484-03	TP-64	11	1.16	10.50	11.66	10.44	88.4	
Q2484-04	TP-107	12	1.13	10.69	11.82	10.09	83.8	
Q2484-05	TP-1006	13	1.14	10.48	11.62	10.35	87.9	
Q2484-06	TP-104	14	1.15	10.29	11.44	10.13	87.3	
Q2486-01	WASTE	15	1.16	10.31	11.47	9.77	83.5	
Q2486-02	VOC	16	1.18	11.32	12.5	10.65	83.7	
Q2486-03	1	17	1.15	10.80	11.95	10.24	84.2	
Q2486-04	2	18	1.13	10.46	11.59	9.74	82.3	
Q2486-05	3	19	1.13	10.78	11.91	10.12	83.4	
Q2486-06	4	20	1.19	10.00	11.19	9.65	84.6	
Q2486-07	5	21	1.19	10.26	11.45	8.79	74.1	
Q2491-01	EO-1-070225	22	1.19	10.51	11.7	10.9	92.4	
Q2491-02	EO-1-070225-E2	23	1.15	10.14	11.29	10.5	92.2	
Q2492-01	VNJ-254-1	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2492-02	VNJ-254-2	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2493-01	WC-11	26	1.13	10.45	11.58	10.4	88.7	
Q2493-02	WC-11-EPH	27	1.19	10.23	11.42	9.72	83.4	
Q2493-03	WC-11-VOC	28	1.14	9.89	11.03	10.2	91.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136354

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
Q2494-01	Playhouse/Storag	35	1.00	1.00	2.00	2.00	100.0	Caulk sample
Q2494-02	Playhouse/Storag	36	1.00	1.00	2.00	2.00	100.0	chair form
Q2494-03	Garage Seat Foa	37	1.00	1.00	2.00	2.00	100.0	seat form
Q2494-04	Black foam in Sou	38	1.00	1.00	2.00	2.00	100.0	olack form
Q2494-05	Kids Room styof	39	1.00	1.00	2.00	2.00	100.0	yellow form
Q2494-06	Kids Room Lower	40	1.00	1.00	2.00	2.00	100.0	form
Q2494-07	Kids Room styof	41	1.00	1.00	2.00	2.00	100.0	styra form
Q2494-08	Dog Beg Foam	42	1.00	1.00	2.00	2.00	100.0	oag form
Q2494-09	Cotton Layer - Ott	43	1.00	1.00	2.00	2.00	100.0	cotton layer
Q2494-10	Foam Ottoman	44	1.00	1.00	2.00	2.00	100.0	form ottoman
Q2494-11	Foyer North Wall	45	1.00	1.00	2.00	2.00	100.0	foryer north wall plug
Q2494-12	NE Stucco Exterio	46	1.00	1.00	2.00	2.00	100.0	sttucco exterior
Q2494-13	Master Mattress	47	1.00	1.00	2.00	2.00	100.0	mattess
Q2495-01	Chair Foam Parke	48	1.00	1.00	2.00	2.00	100.0	chair form
Q2495-02	SE Bedroom (3rd	49	1.00	1.00	2.00	2.00	100.0	mattess
Q2495-03	E Bedroom Ceilin	50	1.00	1.00	2.00	2.00	100.0	celling plug
Q2495-04	South East Ceilining	51	1.00	1.00	2.00	2.00	100.0	east selling plug
Q2495-05	Master Bathroom	52	1.00	1.00	2.00	2.00	100.0	selling plug
Q2495-06	3rd Fl Hallway N	53	1.00	1.00	2.00	2.00	100.0	hoalway selling
Q2495-07	SE Bedroom Park	54	1.00	1.00	2.00	2.00	100.0	oedrom plug
Q2495-08	Family Room SW	55	1.00	1.00	2.00	2.00	100.0	family plug
Q2495-09	Foyer SE Corner P	56	1.00	1.00	2.00	2.00	100.0	foyer plug
Q2495-10	Green Carpet Pad	57	1.00	1.00	2.00	2.00	100.0	green carpet pad
Q2495-11	Rug in Dining Roo	58	1.00	1.00	2.00	2.00	100.0	rug
Q2495-12	LR Couch Cushion	59	1.00	1.00	2.00	2.00	100.0	couch cushion
Q2495-13	Dining Room W	60	1.00	1.00	2.00	2.00	100.0	wood and foam
Q2495-14	Kitchen Dining E	61	1.00	1.00	2.00	2.00	100.0	kithean rug
Q2495-15	Garage Southwes	62	1.00	1.00	2.00	2.00	100.0	plug

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136354

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
Q2495-16	Zack"s Matterss	63	1.00	1.00	2.00	2.00	100.0	mattess
Q2495-17	Zack"s Couch	64	1.00	1.00	2.00	2.00	100.0	zacks couch
Q2496-02	N exterior center	65	1.00	1.00	2.00	2.00	100.0	stucco wall
Q2496-03	Basement south	66	1.00	1.00	2.00	2.00	100.0	wall cavity stucc
Q2496-04	Entertainment ro	67	1.00	1.00	2.00	2.00	100.0	hvac close
Q2496-05	Black mat outside	68	1.00	1.00	2.00	2.00	100.0	outside mat
Q2496-06	Basement bedroom	69	1.00	1.00	2.00	2.00	100.0	bedrom form
Q2496-07	Basement bedroom-1	70	1.00	1.00	2.00	2.00	100.0	window plug
Q2496-08	Basement bedroom-2	71	1.00	1.00	2.00	2.00	100.0	window plug
Q2496-09	Maeve"s room ma	72	1.00	1.00	2.00	2.00	100.0	mattess
Q2496-10	Master bedroom	73	1.00	1.00	2.00	2.00	100.0	rug
Q2496-11	Master bedroom-1	74	1.00	1.00	2.00	2.00	100.0	chair form
Q2496-12	Master bedroom-2	75	1.00	1.00	2.00	2.00	100.0	mattess form
Q2496-13	Master bedroom-3	76	1.00	1.00	2.00	2.00	100.0	office chair form
Q2496-14	SE bedroom brow	77	1.00	1.00	2.00	2.00	100.0	form
Q2496-15	SE bedroom gray	78	1.00	1.00	2.00	2.00	100.0	gray cushion
Q2496-16	Maeves room gre	79	1.00	1.00	2.00	2.00	100.0	chair form
Q2496-17	Master bedroom-4	80	1.00	1.00	2.00	2.00	100.0	plug
Q2496-18	3rd floor roof ent	81	1.00	1.00	2.00	2.00	100.0	plug
Q2496-19	Living room couc	82	1.00	1.00	2.00	2.00	100.0	couch form
Q2496-20	Living room 2 sea	83	1.00	1.00	2.00	2.00	100.0	form
Q2496-21	Office leather cha	84	1.00	1.00	2.00	2.00	100.0	form
Q2496-22	Pink shoe sole	85	1.00	1.00	2.00	2.00	100.0	shoe sole
Q2496-23	Living room rug S	86	1.00	1.00	2.00	2.00	100.0	rug
Q2496-24	Dining room NE c	87	1.00	1.00	2.00	2.00	100.0	plug
Q2497-01	SW bedroom (San	88	1.00	1.00	2.00	2.00	100.0	plug
Q2497-02	Salman s room SE	89	1.00	1.00	2.00	2.00	100.0	plug compossi
Q2497-03	Sanah s room bed	90	1.00	1.00	2.00	2.00	100.0	sanah form

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136354

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
Q2497-04	Salman s room m	91	1.00	1.00	2.00	2.00	100.0	mattess form
Q2497-05	Master bed mattr	92	1.00	1.00	2.00	2.00	100.0	mattess
Q2497-06	Kaihaan s room m	93	1.00	1.00	2.00	2.00	100.0	form
Q2497-07	Garage foam yog	94	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-08	Living room west	95	1.00	1.00	2.00	2.00	100.0	form
Q2497-09	Entrance rug	96	1.00	1.00	2.00	2.00	100.0	rug
Q2497-10	south exterior re	97	1.00	1.00	2.00	2.00	100.0	form
Q2497-11	Garage gym floor	98	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-12	Rug by the back d	99	1.00	1.00	2.00	2.00	100.0	rug
Q2497-13	Guest bed mattre	100	1.00	1.00	2.00	2.00	100.0	mattess
Q2497-14	Garage backyard	101	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-15	LR SW conner chai	102	1.00	1.00	2.00	2.00	100.0	form
Q2497-16	Living room NE co	103	1.00	1.00	2.00	2.00	100.0	catters
Q2497-17	Dining room SW c	104	1.00	1.00	2.00	2.00	100.0	chair form
Q2497-18	LR SW rug corner	105	1.00	1.00	2.00	2.00	100.0	rug
Q2497-19	LR west wall plug	106	1.00	1.00	2.00	2.00	100.0	plug
Q2497-20	LR NE corner plug	107	1.00	1.00	2.00	2.00	100.0	plug
Q2497-21	office east wall pl	108	1.00	1.00	2.00	2.00	100.0	plug
Q2497-22	Bedroom north w	109	1.00	1.00	2.00	2.00	100.0	plug
Q2497-23	Kitchem ceiling pl	110	1.00	1.00	2.00	2.00	100.0	celling plug
Q2498-01	NE Bd bed foam	111	1.00	1.00	2.00	2.00	100.0	oedrom form
Q2498-02	NE Bd pillow foa	112	1.00	1.00	2.00	2.00	100.0	form
Q2498-03	Master bed NE m	113	1.00	1.00	2.00	2.00	100.0	mattess
Q2500-01	X600-B2	29	1.15	10.84	11.99	11.24	93.1	
Q2500-02	X600-S2	30	1.19	10.36	11.55	10.6	90.8	
Q2500-03	X600-B1	31	1.13	10.42	11.55	11.02	94.9	
Q2500-04	X600-S1	32	1.13	10.32	11.45	10.6	91.8	
Q2500-05	X600-DUP1	33	1.14	10.85	11.99	11.3	93.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136354

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
Q2500-06	X600-S3	34	1.11	10.71	11.82	11.18	94.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 136354

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2480-01	GPX1	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	06/30/2025	Chemtech -SO
Q2480-02	GPX2	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	06/30/2025	Chemtech -SO
Q2480-03	GPX3	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-04	GPX4	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-05	GPX5	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-06	GPX6	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-07	GPX7	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-08	GPX8	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2484-01	TP-58	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2484-02	TP-57	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-03	TP-64	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-04	TP-107	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-05	TP-1006	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-06	TP-104	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2486-01	WASTE	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2486-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 07/02/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB 13C353

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2491-01	EO-1-070225	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2491-02	EO-1-070225-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2492-01	VNJ-254-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2492-02	VNJ-254-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2493-01	WC-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2493-02	WC-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2493-03	WC-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2494-01	Playhouse/Storag	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2494-02	Playhouse/Storag	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-03	Garage Seat Foa	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-04	Black foam in Sou	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-05	Kids Room styof	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-06	Kids Room Lower	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-07	Kids Room styof	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-08	Dog Beg Foam	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-09	Cotton Layer - Ott	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-10	Foam Ottoman	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-11	Foyer North Wall	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-12	NE Stucco Exterio	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-13	Master Mattress	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2495-01	Chair Foam Parke	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [signature] (WOC)

Raw Sample Relinquished by: [signature] SH

Date/Time 07/02/25 17:35

Raw Sample Received by: [signature] SH

Raw Sample Relinquished by: [signature] (WOC)

WORKLIST(Hardcopy Internal Chain)

NB136354

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2495-02	SE Bedroom (3rd	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-03	E Bedroom Ceilin	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-04	South East Ceilining	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-05	Master Bathroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-06	3rd Fl Hallway N	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-07	SE Bedroom Park	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-08	Family Room SW	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-09	Foyer SE Corner P	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-10	Green Carpet Pad	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-11	Rug in Dining Roo	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-12	LR Couch Cushion	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-13	Dining Room W	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-14	Kitchen Dining E	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-15	Garage Southwes	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-16	Zack"s Matterss	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-17	Zack"s Couch	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2496-02	N exterior center	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2496-03	Basement south	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-04	Entertainment ro	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-05	Black mat outside	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-06	Basement bedroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 07/02/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2496-07	Basement bedroom-1	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-08	Basement bedroom-2	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-09	Maeve"s room ma	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-10	Master bedroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-11	Master bedroom-1	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-12	Master bedroom-2	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-13	Master bedroom-3	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-14	SE bedroom brow	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-15	SE bedroom gray	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-16	Maeves room gre	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-17	Master bedroom-4	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-18	3rd floor roof ent	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-19	Living room couc	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-20	Living room 2 sea	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-21	Office leather cha	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-22	Pink shoe sole	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-23	Living room rug S	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-24	Dining room NE c	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2497-01	SW bedroom (San	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2497-02	Salman s room SE	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-03	Sanah s room bed	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: SB WC

Raw Sample Relinquished by: SM

Date/Time 07/02/25 17:35

Raw Sample Received by: SM

Raw Sample Relinquished by: SB WC

WORKLIST(Hardcopy Internal Chain)

NB131354

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2497-04	Salman s room m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-05	Master bed mattr	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-06	Kaihaan s room m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-07	Garage foam yog	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-08	Living room west	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-09	Entrance rug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-10	south exterior re	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-11	Garage gym floor	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-12	Rug by the back d	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-13	Guest bed mattre	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-14	Garage backyard	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-15	LR SW conner chai	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-16	Living room NE co	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-17	Dining room SW c	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-18	LR SW rug corner	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-19	LR west wall plug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-20	LR NE corner plug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-21	office east wall pl	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-22	Bedroom north w	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-23	Kitchem ceiling pl	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2498-01	NE Bd bed foam	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [signature] (WC)

Raw Sample Relinquished by: [signature] SM

Date/Time 07/02/25 17:35

Raw Sample Received by: [signature] SM

Raw Sample Relinquished by: [signature] (WC)

WORKLIST(Hardcopy Internal Chain)

VB136354

WorkList Name : %1-070225 **WorkList ID :** 190499 **Department :** Wet-Chemistry **Date :** 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2498-02	NE Bd pillow foa	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO
Q2498-03	Master bed NE m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO
Q2500-01	X600-B2	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-02	X600-S2	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-03	X600-B1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-04	X600-S1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-05	X600-DUP1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-06	X600-S3	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: SB (WC)

Raw Sample Relinquished by: SM

Date/Time 07/02/25 17:35

Raw Sample Received by: SM

Raw Sample Relinquished by: TA (WC)

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 # LB136369

Review By	jaswal	Review On	7/7/2025 11:26:15 PM
Supervise By	MOHAN	Supervise On	7/9/2025 10:32:50 AM

STD. NAME	STD REF.#
ICAL Standard	MP86257,MP86259,MP86260,MP86261,MP86262,MP86263
ICV Standard	MP86264
CCV Standard	MP86266
ICSA Standard	
CRI Standard	MP86268
LCS Standard	
Chk Standard	MP86265,MP86267,MP86269,MP86285

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/03/25 10:55		MOHAN	OK
2	S0.2	S0.2	CAL2	07/03/25 10:58		MOHAN	OK
3	S2.5	S2.5	CAL3	07/03/25 11:00		MOHAN	OK
4	S5	S5	CAL4	07/03/25 11:02		MOHAN	OK
5	S7.5	S7.5	CAL5	07/03/25 11:04		MOHAN	OK
6	S10	S10	CAL6	07/03/25 11:10		MOHAN	OK
7	ICV16	ICV16	ICV	07/03/25 11:13		MOHAN	OK
8	ICB16	ICB16	ICB	07/03/25 11:17		MOHAN	OK
9	CCV51	CCV51	CCV	07/03/25 11:20		MOHAN	OK
10	CCB51	CCB51	CCB	07/03/25 11:22		MOHAN	OK
11	CRA	CRA	CRDL	07/03/25 11:24		MOHAN	OK
12	HighStd	HighStd	HIGH STD	07/03/25 11:27		MOHAN	OK
13	ChkStd	ChkStd	SAM	07/03/25 11:29		MOHAN	OK
14	PB168719BS	PB168719BS	LCS	07/03/25 11:34		MOHAN	OK
15	Q2473-01	PIT#1	SAM	07/03/25 11:36		MOHAN	OK
16	Q2473-02	PIT#2	SAM	07/03/25 11:38		MOHAN	OK
17	Q2473-03	PIT#3	SAM	07/03/25 11:41		MOHAN	OK
18	Q2473-04	PIT#4	SAM	07/03/25 11:43		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 # LB136369

Review By	jaswal	Review On	7/7/2025 11:26:15 PM
Supervise By	MOHAN	Supervise On	7/9/2025 10:32:50 AM

STD. NAME	STD REF.#
ICAL Standard	MP86257,MP86259,MP86260,MP86261,MP86262,MP86263
ICV Standard	MP86264
CCV Standard	MP86266
ICSA Standard	
CRI Standard	MP86268
LCS Standard	
Chk Standard	MP86265,MP86267,MP86269,MP86285

19	Q2475-01	SOIL-PILE	SAM	07/03/25 11:45		MOHAN	OK
20	CCV52	CCV52	CCV	07/03/25 11:48		MOHAN	OK
21	CCB52	CCB52	CCB	07/03/25 11:50		MOHAN	OK
22	Q2478-01	WC-1	SAM	07/03/25 11:52		MOHAN	OK
23	Q2484-01	TP-58	SAM	07/03/25 11:55		MOHAN	OK
24	Q2484-02	TP-57	SAM	07/03/25 11:57		MOHAN	OK
25	Q2484-03	TP-64	SAM	07/03/25 11:59		MOHAN	OK
26	Q2484-04	TP-107	SAM	07/03/25 12:01		MOHAN	OK
27	Q2484-05	TP-106	SAM	07/03/25 12:04		MOHAN	OK
28	Q2484-06	TP-104	SAM	07/03/25 12:06		MOHAN	OK
29	Q2484-06DUP	TP-104DUP	DUP	07/03/25 12:08		MOHAN	OK
30	Q2484-06MS	TP-104MS	MS	07/03/25 12:11		MOHAN	OK
31	Q2484-06MSD	TP-104MSD	MSD	07/03/25 12:13		MOHAN	OK
32	CCV53	CCV53	CCV	07/03/25 12:15		MOHAN	OK
33	CCB53	CCB53	CCB	07/03/25 12:18		MOHAN	OK
34	PB168719BL	PB168719BL	MB	07/03/25 12:20		MOHAN	OK
35	Q2484-06L	TP-104L	SD	07/03/25 12:26		MOHAN	OK
36	Q2484-06A	TP-104A	PS	07/03/25 12:28		MOHAN	OK
37	CCV54	CCV54	CCV	07/03/25 12:30		MOHAN	OK
38	CCB54	CCB54	CCB	07/03/25 12:33		MOHAN	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136390

Review By	Janvi	Review On	7/8/2025 11:37:30 AM
Supervise By	jaswal	Supervise On	7/9/2025 2:58:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86213
CCV Standard	MP86216
ICSA Standard	MP86214,MP86215
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/07/25 12:25		Jaswal	OK
2	S1	S1	CAL2	07/07/25 12:30		Jaswal	OK
3	S2	S2	CAL3	07/07/25 12:34		Jaswal	OK
4	S3	S3	CAL4	07/07/25 12:38		Jaswal	OK
5	S4	S4	CAL5	07/07/25 12:42		Jaswal	OK
6	S5	S5	CAL6	07/07/25 12:47		Jaswal	OK
7	ICV01	ICV01	ICV	07/07/25 13:22		Jaswal	OK
8	LLICV01	LLICV01	LLICV	07/07/25 13:41		Jaswal	OK
9	ICB01	ICB01	ICB	07/07/25 13:45		Jaswal	OK
10	CRI01	CRI01	CRDL	07/07/25 13:49		Jaswal	OK
11	ICSA01	ICSA01	ICSA	07/07/25 13:53		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	07/07/25 14:10		Jaswal	OK
13	ICSADL	ICSADL	ICSA	07/07/25 14:15		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	07/07/25 14:19		Jaswal	OK
15	CCV01	CCV01	CCV	07/07/25 14:38		Jaswal	OK
16	CCB01	CCB01	CCB	07/07/25 14:42		Jaswal	OK
17	Q2491-01	EO-1-070225	SAM	07/07/25 14:46		Jaswal	OK
18	Q2472-01DL	PN#1DL	SAM	07/07/25 14:50	Straight 5x for all elements	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136390

Review By	Janvi	Review On	7/8/2025 11:37:30 AM
Supervise By	jaswal	Supervise On	7/9/2025 2:58:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86213
CCV Standard	MP86216
ICSA Standard	MP86214,MP86215
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

19	Q2478-01	WC-1	SAM	07/07/25 14:55		Jaswal	OK
20	Q2381-08	VNJ-207	SAM	07/07/25 14:59		Jaswal	OK
21	Q2398-09	M00-25-0179	SAM	07/07/25 15:03	Confirm TCLP (Pb)	Jaswal	Not Ok
22	Q2472-02	PN#1	SAM	07/07/25 15:07		Jaswal	OK
23	Q2474-01	FO-1	SAM	07/07/25 15:12		Jaswal	OK
24	Q2478-04	WC-1	SAM	07/07/25 15:16	Confirm TCLP (Ba)	Jaswal	Not Ok
25	Q2473-05	PIT#1	SAM	07/07/25 15:21		Jaswal	OK
26	Q2473-06	PIT#2	SAM	07/07/25 15:25		Jaswal	OK
27	CCV02	CCV02	CCV	07/07/25 15:30		Jaswal	OK
28	CCB02	CCB02	CCB	07/07/25 15:34		Jaswal	OK
29	Q2472-01DL2	PN#1DL2	SAM	07/07/25 15:38	NOT USE	Jaswal	Not Ok
30	Q2507-01	SU-04-7.3-2025	SAM	07/07/25 15:42		Jaswal	OK
31	Q2493-04	WC-11	SAM	07/07/25 15:46		Jaswal	OK
32	Q2493-04DUP	WC-11DUP	DUP	07/07/25 15:51		Jaswal	OK
33	Q2493-04L	WC-11L	SD	07/07/25 15:55		Jaswal	OK
34	Q2493-04MS	WC-11MS	MS	07/07/25 15:59		Jaswal	OK
35	Q2493-04MSD	WC-11MSD	MSD	07/07/25 16:04		Jaswal	OK
36	Q2493-04A	WC-11A	PS	07/07/25 16:08		Jaswal	OK
37	Q2477-01	50728	SAM	07/07/25 16:16	NOT USE	Jaswal	Not Ok
38	CCV03	CCV03	CCV	07/07/25 16:33		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136390

Review By	Janvi	Review On	7/8/2025 11:37:30 AM
Supervise By	jaswal	Supervise On	7/9/2025 2:58:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86213
CCV Standard	MP86216
ICSA Standard	MP86214,MP86215
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

39	CCB03	CCB03	CCB	07/07/25 16:37		Jaswal	OK
40	PB168711BL	PB168711BL	MB	07/07/25 16:41		Jaswal	OK
41	PB168713BL	PB168713BL	MB	07/07/25 16:45		Jaswal	OK
42	PB168714BL	PB168714BL	MB	07/07/25 16:50		Jaswal	OK
43	PB168713BS	PB168713BS	LCS	07/07/25 17:01		Jaswal	OK
44	PB168714BS	PB168714BS	LCS	07/07/25 17:05		Jaswal	OK
45	Q2473-01	PIT#1	SAM	07/07/25 17:09		Jaswal	OK
46	PB168711BS	PB168711BS	LCS	07/07/25 17:14		Jaswal	OK
47	Q2473-03	PIT#3	SAM	07/07/25 17:18		Jaswal	OK
48	Q2473-04	PIT#4	SAM	07/07/25 17:22		Jaswal	OK
49	Q2484-01	TP-58	SAM	07/07/25 17:26		Jaswal	OK
50	CCV04	CCV04	CCV	07/07/25 17:31		Jaswal	OK
51	CCB04	CCB04	CCB	07/07/25 17:35		Jaswal	OK
52	Q2484-02	TP-57	SAM	07/07/25 17:39	CCV fail for Tl	Jaswal	Not Ok
53	Q2484-03	TP-64	SAM	07/07/25 17:43	CCV fail for Tl	Jaswal	Not Ok
54	Q2484-04	TP-107	SAM	07/07/25 17:47	CCV fail for Tl	Jaswal	Not Ok
55	Q2484-05	TP-106	SAM	07/07/25 17:51	CCV fail for Tl	Jaswal	Not Ok
56	Q2484-06	TP-104	SAM	07/08/25 01:19	CCV fail for Tl	Jaswal	Not Ok
57	Q2484-06DUP	TP-104DUP	DUP	07/08/25 01:23	CCV fail for Tl	Jaswal	Not Ok
58	Q2484-06L	TP-104L	SD	07/08/25 01:27	CCV fail for Tl	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136390

Review By	Janvi	Review On	7/8/2025 11:37:30 AM
Supervise By	jaswal	Supervise On	7/9/2025 2:58:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86213
CCV Standard	MP86216
ICSA Standard	MP86214,MP86215
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

59	Q2484-06MS	TP-104MS	MS	07/08/25 01:31	CCV fail for Tl	Jaswal	Not Ok
60	Q2484-06MSD	TP-104MSD	MSD	07/08/25 01:35	CCV fail for Tl	Jaswal	Not Ok
61	Q2484-06A	TP-104A	PS	07/08/25 01:39	CCV fail for Tl	Jaswal	Not Ok
62	CCV05	CCV05	CCV	07/08/25 01:43	CCV fail for Tl	Jaswal	OK
63	CCB05	CCB05	CCB	07/08/25 01:47		Jaswal	OK
64	Q2487-09	G4(0-6)	SAM	07/08/25 01:51	CCV fail for K,Tl	Jaswal	Not Ok
65	Q2487-10	G4(6-12)	SAM	07/08/25 01:56	CCV fail for K,Tl	Jaswal	Not Ok
66	Q2487-11	G3(0-6)	SAM	07/08/25 02:00	CCV fail for K,Tl	Jaswal	Not Ok
67	Q2487-12	G3(6-12)	SAM	07/08/25 02:05	CCV fail for K,Tl	Jaswal	Not Ok
68	Q2487-13	G2(0-6)	SAM	07/08/25 02:09	CCV fail for K,Tl	Jaswal	Not Ok
69	Q2487-14	G2(6-12)	SAM	07/08/25 02:13	CCV fail for K,Tl	Jaswal	Not Ok
70	Q2487-15	G1(0-6)	SAM	07/08/25 02:18	CCV fail for K,Tl	Jaswal	Not Ok
71	Q2487-16	G1(6-12)	SAM	07/08/25 02:22	CCV fail for K,Tl	Jaswal	Not Ok
72	Q2493-01	WC-11	SAM	07/08/25 02:41	CCV fail for K,Tl	Jaswal	Not Ok
73	Q2493-01DUP	WC-11DUP	DUP	07/08/25 02:45	CCV fail for K,Tl	Jaswal	Not Ok
74	CCV06	CCV06	CCV	07/08/25 02:49	CCV fail for K,Tl	Jaswal	OK
75	CCB06	CCB06	CCB	07/08/25 02:53		Jaswal	OK
76	Q2493-01L	WC-11L	SD	07/08/25 02:58	CCV fail for K,Tl	Jaswal	Not Ok
77	Q2493-01MS	WC-11MS	MS	07/08/25 03:02	CCV fail for K,Tl	Jaswal	Not Ok
78	Q2493-01MSD	WC-11MSD	MSD	07/08/25 03:06	CCV fail for K,Tl	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136390

Review By	Janvi	Review On	7/8/2025 11:37:30 AM
Supervise By	jaswal	Supervise On	7/9/2025 2:58:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86213
CCV Standard	MP86216
ICSA Standard	MP86214,MP86215
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

79	Q2493-01A	WC-11A	PS	07/08/25 03:10	CCV fail for K,Tl	Jaswal	Not Ok
80	Q2473-07	PIT#3	SAM	07/08/25 03:14	Not Use	Jaswal	Not Ok
81	Q2473-08	PIT#4	SAM	07/08/25 03:18	Not Use	Jaswal	Not Ok
82	PB168689TB	PB168689TB	MB	07/08/25 03:23	Not Use	Jaswal	Not Ok
83	Q2473-02	PIT#2	SAM	07/08/25 03:36	CCV fail for K,Tl	Jaswal	Not Ok
84	CCV07	CCV07	CCV	07/08/25 03:40		Jaswal	OK
85	CCB07	CCB07	CCB	07/08/25 03:44		Jaswal	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/09/25 09:39		Janvi	OK
2	S1	S1	CAL2	07/09/25 09:44		Janvi	OK
3	S2	S2	CAL3	07/09/25 09:48		Janvi	OK
4	S3	S3	CAL4	07/09/25 09:52		Janvi	OK
5	S4	S4	CAL5	07/09/25 09:57		Janvi	OK
6	S5	S5	CAL6	07/09/25 10:01		Janvi	OK
7	ICV01	ICV01	ICV	07/09/25 10:05		Janvi	OK
8	LLICV01	LLICV01	LLICV	07/09/25 10:17		Janvi	OK
9	ICB01	ICB01	ICB	07/09/25 10:22		Janvi	OK
10	CRI01	CRI01	CRDL	07/09/25 10:26		Janvi	OK
11	ICSA01	ICSA01	ICSA	07/09/25 10:31		Janvi	OK
12	ICSAB01	ICSAB01	ICSAB	07/09/25 10:35		Janvi	OK
13	ICSADL	ICSADL	ICSA	07/09/25 10:39		Janvi	OK
14	ICSABDL	ICSABDL	ICSAB	07/09/25 10:44		Janvi	OK
15	CCV01	CCV01	CCV	07/09/25 10:48		Janvi	OK
16	CCB01	CCB01	CCB	07/09/25 10:57		Janvi	OK
17	Q2425-01	COMP-1	SAM	07/09/25 11:02		Janvi	OK
18	Q2425-02	COMP-2	SAM	07/09/25 11:06		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

19	Q2425-03	COMP-3	SAM	07/09/25 11:11		Janvi	OK
20	Q2425-03DUP	COMP-3DUP	DUP	07/09/25 11:15		Janvi	OK
21	Q2425-03L	COMP-3L	SD	07/09/25 11:20		Janvi	OK
22	Q2425-03MS	COMP-3MS	MS	07/09/25 11:24		Janvi	OK
23	Q2425-03MSD	COMP-3MSD	MSD	07/09/25 11:29		Janvi	OK
24	Q2425-03A	COMP-3A	PS	07/09/25 11:33	0.1ML OF M6004 AND M6013 IN 10ML SAMPLE.	Janvi	OK
25	PB168628BL	PB168628BL	MB	07/09/25 11:38		Janvi	OK
26	PB168628BS	PB168628BS	LCS	07/09/25 11:42		Janvi	OK
27	CCV02	CCV02	CCV	07/09/25 11:47		Janvi	OK
28	CCB02	CCB02	CCB	07/09/25 11:56		Janvi	OK
29	Q2477-01	50728	SAM	07/09/25 12:10	CCB Fail for Al	Janvi	Not Ok
30	Q2477-01DUP	50728DUP	DUP	07/09/25 12:14	CCB Fail for Al	Janvi	Not Ok
31	Q2477-01L	50728L	SD	07/09/25 12:18	CCB Fail for Al	Janvi	Not Ok
32	Q2477-01MS	50728MS	MS	07/09/25 12:23	CCB Fail for Al	Janvi	Not Ok
33	Q2477-01MSD	50728MSD	MSD	07/09/25 12:27	CCB Fail for Al	Janvi	Not Ok
34	Q2477-01A	50728A	PS	07/09/25 12:31	CCB Fail for Al	Janvi	Not Ok
35	Q2473-07	PIT#3	SAM	07/09/25 12:36	NOT USE	Janvi	Not Ok
36	Q2473-08	PIT#4	SAM	07/09/25 12:40	NOT USE	Janvi	Not Ok
37	PB168748BL	PB168748BL	MB	07/09/25 12:45	CCB Fail for Al	Janvi	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

38	PB168748BS	PB168748BS	LCS	07/09/25 12:49	CCB Fail for Al	Janvi	Not Ok
39	CCV03	CCV03	CCV	07/09/25 12:54		Janvi	OK
40	CCB03	CCB03	CCB	07/09/25 12:58	CCB Fail for Al	Janvi	OK
41	Q2481-01DL	CC0627-ALDL	SAM	07/09/25 13:06	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
42	Q2481-01DUPDL	CC0627-ALDUPDL	DUP	07/09/25 13:11	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
43	Q2481-011DL	CC0627-AL	SAM	07/09/25 13:16	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
44	Q2481-01MSDL	CC0627-ALMSDL	MS	07/09/25 13:20	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
45	Q2481-01MSDDL	CC0627-ALMSDDL	MSD	07/09/25 13:25	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
46	Q2481-01ADL	CC0627-ALADL	PS	07/09/25 13:30	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
47	Q2481-02DL	CC0627-CLOXPLDL	SAM	07/09/25 13:35	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
48	Q2481-03DL	CC0625-OXBLDL	SAM	07/09/25 13:40	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
49	Q2481-03DL2	CC0625-OXBLDL2	SAM	07/09/25 13:44	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
50	Q2481-04DL	CC0627-AOXLDL	SAM	07/09/25 13:49	CCB Fail for Ag, Straight 10x Dilution for all elements	Janvi	Not Ok
51	CCV04	CCV04	CCV	07/09/25 14:05		Janvi	OK
52	CCB04	CCB04	CCB	07/09/25 14:28	CCB Fail for Ag	Janvi	OK
53	Q2481-06DL	CC0267-OXPLDL	SAM	07/09/25 14:33	CCB Fail for Ag, Straight 5x Dilution for all elements	Janvi	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

54	Q2481-07DL	CC0627-OXLDL	SAM	07/09/25 14:37	CCB Fail for Ag, Straight 5x Dilution for all elements	Janvi	Not Ok
55	Q2481-08	CC0627-CLOXAL	SAM	07/09/25 14:42	CCB Fail for Ag	Janvi	Not Ok
56	Q2481-09DL	CC0627-BLDL	SAM	07/09/25 14:46	CCB Fail for Ag, Straight 5x Dilution for all elements	Janvi	Not Ok
57	Q2481-10DL	CC0627-SFBLDL	SAM	07/09/25 14:51	CCB Fail for Ag, Straight 5x Dilution for all elements	Janvi	Not Ok
58	Q2481-05DL	CC0625-NLDL	SAM	07/09/25 14:56	CCB Fail for Ag, Straight 5x Dilution for all elements	Janvi	Not Ok
59	Q2509-01	AUD-25-0110-0111	SAM	07/09/25 15:00	CCB Fail for Ag	Janvi	Not Ok
60	Q2512-01	WATER TREATMENT	SAM	07/09/25 15:05	CCB Fail for Ag	Janvi	Not Ok
61	Q2488-01	RW8-SP100-2025070	SAM	07/09/25 15:10		Janvi	OK
62	PB168705TB	PB168705TB	MB	07/09/25 15:14	CCB Fail for Ag	Janvi	Not Ok
63	CCV05	CCV05	CCV	07/09/25 15:27		Janvi	OK
64	CCB05	CCB05	CCB	07/09/25 15:33	CCB Fail for Ag	Janvi	OK
65	Q2503-01	GCAP2W	SAM	07/09/25 15:37	CCB Fail for Ag	Janvi	Not Ok
66	Q2512-01DUP	WATER TREATMENT	DUP	07/09/25 15:43	CCB Fail for Ag	Janvi	Not Ok
67	Q2512-01L	WATER TREATMENT	SD	07/09/25 15:47	CCB Fail for Ag	Janvi	Not Ok
68	Q2512-01MS	WATER TREATMENT	MS	07/09/25 15:52	CCB Fail for Ag	Janvi	Not Ok
69	Q2512-01MSD	WATER TREATMENT	MSD	07/09/25 15:56	CCB Fail for Ag	Janvi	Not Ok
70	Q2512-01A	WATER TREATMENT	PS	07/09/25 16:01	CCB Fail for Ag	Janvi	Not Ok
71	PB168712BL	PB168712BL	MB	07/09/25 16:05	CCB Fail for Ag	Janvi	Not Ok
72	PB168712BS	PB168712BS	LCS	07/09/25 16:09	CCB Fail for Ag	Janvi	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

73	CCV06	CCV06	CCV	07/09/25 16:39		Janvi	OK
74	CCB06	CCB06	CCB	07/09/25 16:43		Janvi	OK
75	Q2488-02	RW8-SP303-2025070	SAM	07/09/25 16:52		Janvi	OK
76	Q2487-15	G1(0-6)	SAM	07/09/25 17:14	Bad injection	Janvi	Not Ok
77	Q2484-02	TP-57	SAM	07/09/25 17:19		Janvi	OK
78	Q2484-03	TP-64	SAM	07/09/25 17:23		Janvi	OK
79	Q2484-04	TP-107	SAM	07/09/25 17:28		Janvi	OK
80	Q2484-05	TP-106	SAM	07/09/25 17:32		Janvi	OK
81	Q2484-06	TP-104	SAM	07/09/25 17:37	NOT USE	Janvi	Not Ok
82	Q2484-06DUP	TP-104DUP	DUP	07/09/25 17:41	NOT USE	Janvi	Not Ok
83	Q2484-06L	TP-104L	SD	07/09/25 17:46	NOT USE	Janvi	Not Ok
84	CCV07	CCV07	CCV	07/09/25 17:50		Janvi	OK
85	CCB07	CCB07	CCB	07/09/25 17:54		Janvi	OK
86	Q2484-06MS	TP-104MS	MS	07/09/25 17:59	Bad injection	Janvi	Not Ok
87	Q2484-06MSD	TP-104MSD	MSD	07/09/25 18:03	Bad injection	Janvi	Not Ok
88	Q2484-06A	TP-104A	PS	07/09/25 18:08	NOT USE	Janvi	Not Ok
89	Q2487-09	G4(0-6)	SAM	07/09/25 18:12		Janvi	OK
90	Q2487-10	G4(6-12)	SAM	07/09/25 18:17		Janvi	OK
91	Q2487-11	G3(0-6)	SAM	07/09/25 18:21	Zn high	Janvi	Dilution
92	Q2487-12	G3(6-12)	SAM	07/09/25 18:26		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

93	Q2487-13	G2(0-6)	SAM	07/09/25 18:31		Janvi	OK
94	PB168689TB	PB168689TB	MB	07/09/25 18:35		Janvi	OK
95	Q2473-02	PIT#2	SAM	07/09/25 18:40		Janvi	OK
96	CCV08	CCV08	CCV	07/09/25 18:54		Janvi	OK
97	CCB08	CCB08	CCB	07/09/25 18:58		Janvi	OK
98	Q2487-16	G1(6-12)	SAM	07/09/25 19:03	Zn high	Janvi	Dilution
99	Q2503-01DL	GCAP2WDL	SAM	07/09/25 19:08	NOT USE	Janvi	Not Ok
100	PB168740BL	PB168740BL	MB	07/09/25 19:12	LCS fail for K	Janvi	Not Ok
101	PB168740BS	PB168740BS	LCS	07/09/25 19:16	LCS fail for K	Janvi	Not Ok
102	Q2503-05	GCAP2A	SAM	07/09/25 19:21		Janvi	OK
103	Q2513-01	HR-2-070325	SAM	07/09/25 19:25		Janvi	OK
104	Q2513-03	HR-3-070325	SAM	07/09/25 19:30		Janvi	OK
105	Q2514-01	TP-92	SAM	07/09/25 19:34		Janvi	OK
106	Q2514-02	TP-93	SAM	07/09/25 19:39		Janvi	OK
107	Q2514-03	TP-94	SAM	07/09/25 19:43		Janvi	OK
108	CCV09	CCV09	CCV	07/09/25 19:48		Janvi	OK
109	CCB09	CCB09	CCB	07/09/25 19:52		Janvi	OK
110	Q2514-04	TP-96	SAM	07/09/25 19:56		Janvi	OK
111	Q2514-05	TP-97	SAM	07/09/25 20:01		Janvi	OK
112	Q2514-06	TP-103	SAM	07/09/25 20:05		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136407

Review By	Janvi	Review On	7/10/2025 7:19:58 PM
Supervise By	jaswal	Supervise On	7/10/2025 11:33:47 PM

STD. NAME	STD REF.#
ICAL Standard	MP86192,MP86193,MP86194,MP86195,MP86196,MP86212
ICV Standard	MP86219
CCV Standard	MP86216
ICSA Standard	MP86214,MP86220
CRI Standard	MP86212
LCS Standard	
Chk Standard	MP86217,MP86218

113	Q2514-07	TP-36	SAM	07/09/25 20:10		Janvi	OK
114	Q2514-08	TP-78	SAM	07/09/25 20:14		Janvi	OK
115	Q2514-09	TP-81	SAM	07/09/25 20:19		Janvi	OK
116	Q2514-10	TP-90	SAM	07/09/25 20:23		Janvi	OK
117	Q2515-01	WC-1	SAM	07/09/25 20:28	NOT USE	Janvi	Not Ok
118	Q2515-01DUP	WC-1DUP	DUP	07/09/25 20:32	NOT USE	Janvi	Not Ok
119	Q2515-01L	WC-1L	SD	07/09/25 20:37	NOT USE	Janvi	Not Ok
120	CCV10	CCV10	CCV	07/09/25 20:41		Janvi	OK
121	CCB10	CCB10	CCB	07/09/25 20:45		Janvi	OK
122	Q2515-01MS	WC-1MS	MS	07/09/25 20:50	Bad Injection	Janvi	Not Ok
123	Q2515-01MSD	WC-1MSD	MSD	07/09/25 20:54	NOT USE	Janvi	Not Ok
124	Q2515-01A	WC-1A	PS	07/09/25 20:59	NOT USE	Janvi	Not Ok
125	Q2487-14	G2(6-12)	SAM	07/09/25 21:03	Zn high	Janvi	Dilution
126	Q2487-15DL	G1(0-6)DL	SAM	07/09/25 21:08	NOT USE	Janvi	Not Ok
127	CCV11	CCV11	CCV	07/09/25 21:12		Janvi	OK
128	CCB11	CCB11	CCB	07/09/25 21:16		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136486

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/15/25 12:59		Janvi	OK
2	S1	S1	CAL2	07/15/25 13:04		Janvi	OK
3	S2	S2	CAL3	07/15/25 13:08		Janvi	OK
4	S3	S3	CAL4	07/15/25 13:13		Janvi	OK
5	S4	S4	CAL5	07/15/25 13:17		Janvi	OK
6	S5	S5	CAL6	07/15/25 13:22		Janvi	OK
7	ICV01	ICV01	ICV	07/15/25 13:39		Janvi	OK
8	LLICV1	LLICV1	LLICV	07/15/25 13:50		Janvi	OK
9	ICB01	ICB01	ICB	07/15/25 14:01		Janvi	OK
10	CRI01	CRI01	CRDL	07/15/25 14:05		Janvi	OK
11	ICSA01	ICSA01	ICSA	07/15/25 14:10		Janvi	OK
12	ICSAB01	ICSAB01	ICSAB	07/15/25 14:21		Janvi	OK
13	ICSADL	ICSADL	ICSA	07/15/25 14:26		Janvi	OK
14	ICSABDL	ICSABDL	ICSAB	07/15/25 14:30		Janvi	OK
15	CCV01	CCV01	CCV	07/15/25 14:34		Janvi	OK
16	CCB01	CCB01	CCB	07/15/25 14:39		Janvi	OK
17	Q2484-06	TP-104	SAM	07/15/25 14:44		Janvi	OK
18	Q2484-06DUP	TP-104DUP	DUP	07/15/25 14:48		Janvi	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB136486

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	Q2484-06L	TP-104L	SD	07/15/25 14:53		Janvi	OK
20	Q2484-06MS	TP-104MS	MS	07/15/25 14:58		Janvi	OK
21	Q2484-06MSD	TP-104MSD	MSD	07/15/25 15:02		Janvi	OK
22	Q2484-06A	TP-104A	PS	07/15/25 15:06		Janvi	OK
23	CCV02	CCV02	CCV	07/15/25 15:11		Janvi	OK
24	CCB02	CCB02	CCB	07/15/25 15:15		Janvi	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2484

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB168713,PB168719,

Sequence ID/Qc Batch ID: LB136369,LB136390,LB136390,LB136407,LB136486,

Standard ID :
MP84041,MP85893,MP85895,MP86192,MP86193,MP86194,MP86195,MP86196,MP86211,MP86212,MP86213,MP86214,MP86215,MP86216,MP86217,MP86218,MP86219,MP86220,MP86256,MP86257,MP86259,MP86260,MP86261,MP86262,MP86263,MP86264,MP86265,MP86266,MP86267,MP86268,MP86269,MP86270,MP86285,

Chemical ID :
M4371,M4916,M5062,M5467,M5470,M5471,M5499,M5581,M5582,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5816,M5820,M5882,M5884,M5942,M5962,M5970,M5984,M5985,M5996,M5997,M6007,M6015,M6021,M6023,M6028,M6030,M6032,M6058,M6076,M6126,M6127,M6128,M6137,M6142,M6144,M6145,M6146,M6151,M6152,M6155,M6158,M6159,M6161,M6162,M6163,M6164,M6165,M6170,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	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	08/08/2025	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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP86192	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP86193	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5470 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5970 + 5.00000ml of M5996 + 5.00000ml of M5997 + 5.00000ml of M6076 + 5.00000ml of M6146 + 455.00000ml of MP86192 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP86194	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 50.00000ml of MP86192 + 50.00000ml of MP86193 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP86195	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 25.00000ml of MP86193 + 75.00000ml of MP86192 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP86196	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 16.00000ml of MP86193 + 184.00000ml of MP86192 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP86211	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.05000ml of M6159 + 0.06000ml of M5747 + 0.10000ml of M5471 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5499 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP86192 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP86212	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 2.00000ml of MP86211 + 98.00000ml of MP86192 = 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
4163	NEW ICV-060925	MP86213	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.20000ml of M6163 + 0.20000ml of M6164 + 0.20000ml of M6165 + 49.40000ml of MP86192 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP86214	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 10.00000ml of M6152 + 80.00000ml of MP86192 = 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
3494	ICP AES ICSAB SOLN-1	MP86215	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 10.00000ml of M6152 + 10.00000ml of M6155 + 80.00000ml of MP86192 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP86216	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 50.00000ml of MP86192 + 50.00000ml of MP86193 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP86217	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP86218	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP86219	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.20000ml of M6058 + 0.20000ml of M6163 + 0.20000ml of M6164 + 0.20000ml of M6165 + 49.20000ml of MP86192 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP86220	06/25/2025	07/18/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/03/2025

FROM 0.10000ml of M6076 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.90000ml of MP86192 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP86256	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 1.00000ml of M6162 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP86257	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP86259	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86256 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP86260	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 245.00000ml of W3112 + 2.50000ml of MP86256 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP86261	07/03/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 242.50000ml of W3112 + 5.00000ml of MP86256 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP86262	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 240.00000ml of W3112 + 7.50000ml of MP86256 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP86263	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 237.50000ml of W3112 + 10.00000ml of MP86256 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP86264	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6162 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP86265	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP86266	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6162 + 10.00000ml of MP86256 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP86267	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6162 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP86268	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86256 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP86269	07/02/2025	07/03/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/03/2025

FROM 2.50000ml of M6162 + 240.50000ml of W3112 + 7.00000ml of MP86256 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP86270	07/02/2025	07/03/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/03/2025

FROM 150.00000ml of M6151 + 50.00000ml of M6162 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP86285	07/03/2025	07/04/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/03/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	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	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	04/14/2025 / jaswal	03/16/2023 / jaswal	M5470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	04/14/2025 / jaswal	03/16/2023 / jaswal	M5471

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	04/17/2025 / Janvi	03/17/2023 / bin	M5499

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.	/ 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.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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

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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.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	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

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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	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

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

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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.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	01/01/2026	01/01/2025 / kareem	09/19/2024 / kareem	M6076

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

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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	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.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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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 A / ICSA (ICP) STOCK SOLN	ICSA-1211	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	06/30/2025	02/10/2025 / kareem	02/09/2024 / kareem	M6155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	07/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

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

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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	QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	05/22/2029	06/09/2025 / jaswal	06/06/2025 / jaswal	M6163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2	U2-MEB733713	06/01/2028	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	01/02/2030	06/09/2025 / jaswal	06/09/2025 / jaswal	M6165

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2186-03 / Hydrogen Peroxide (cs/4x4L)	24D1961001	10/16/2025	06/25/2025 /	05/20/2025 / Sagar	M6170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

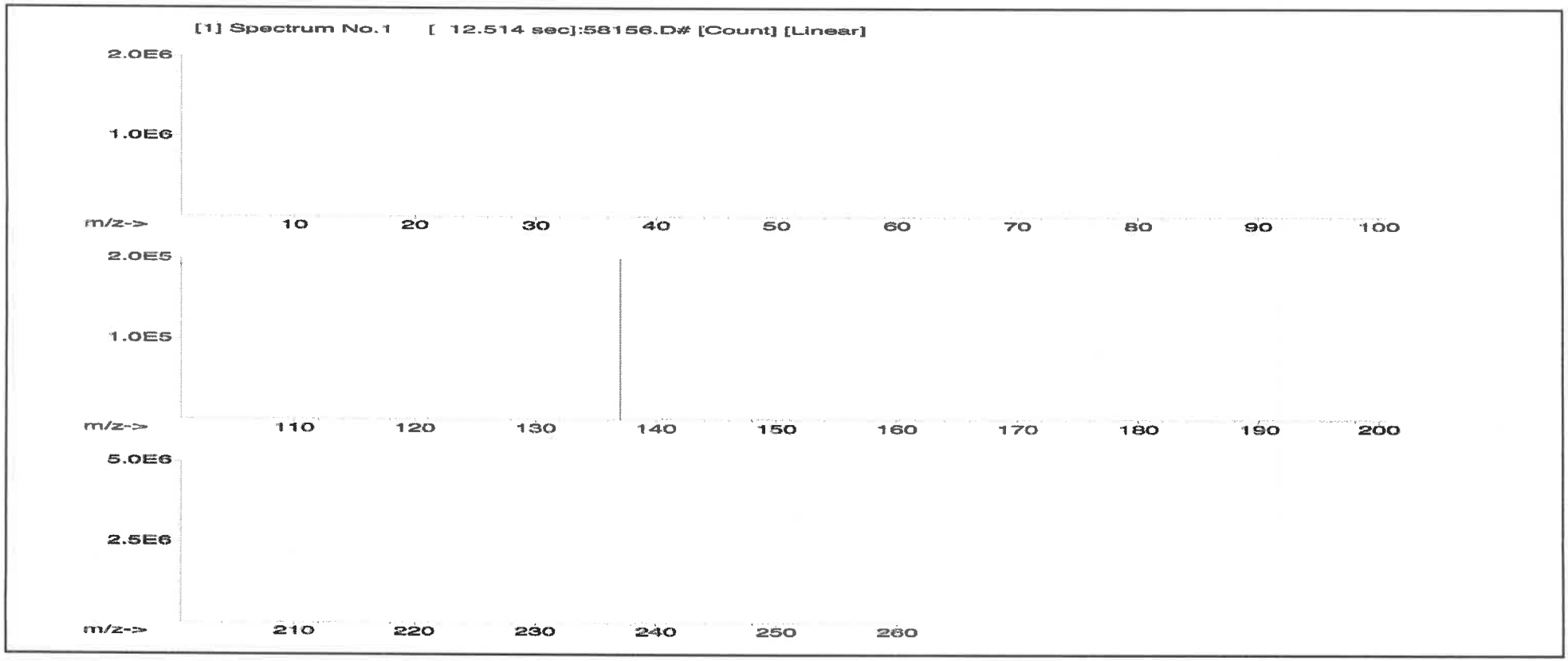
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

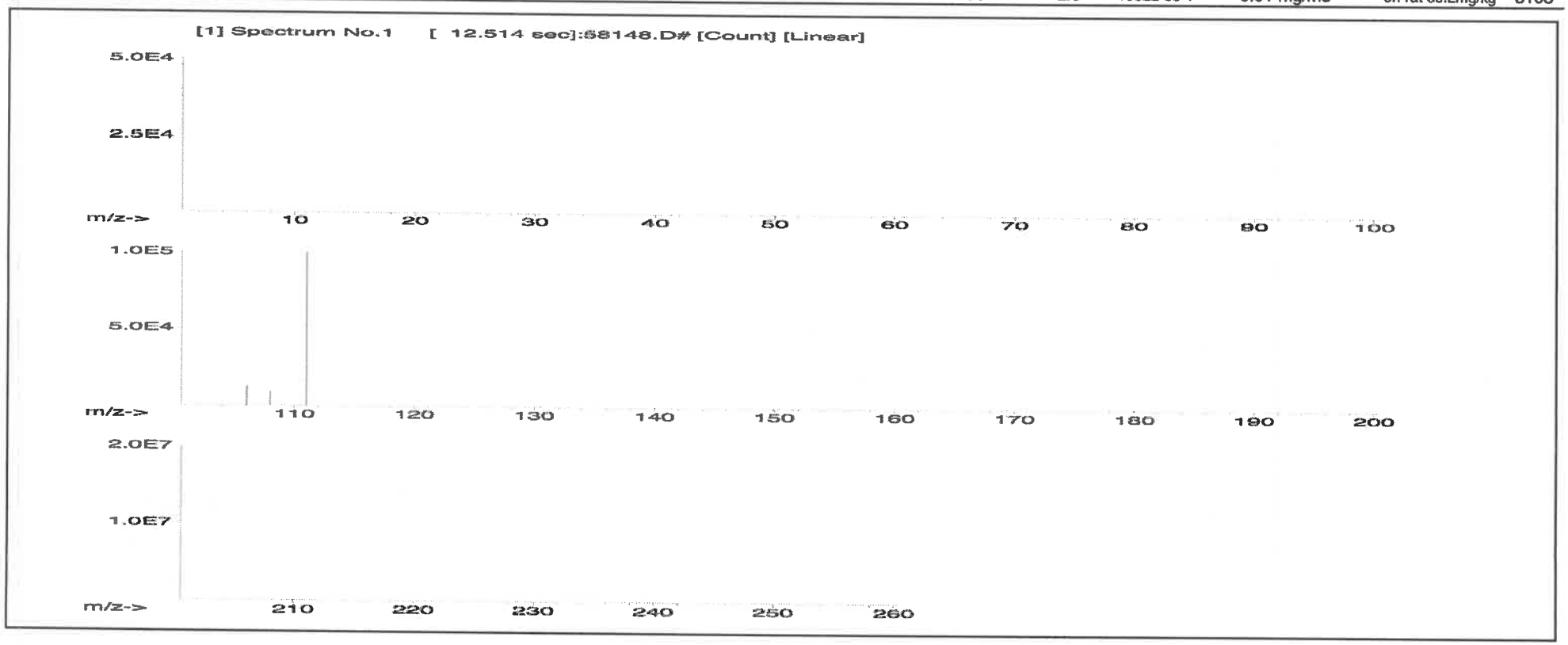
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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.
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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)

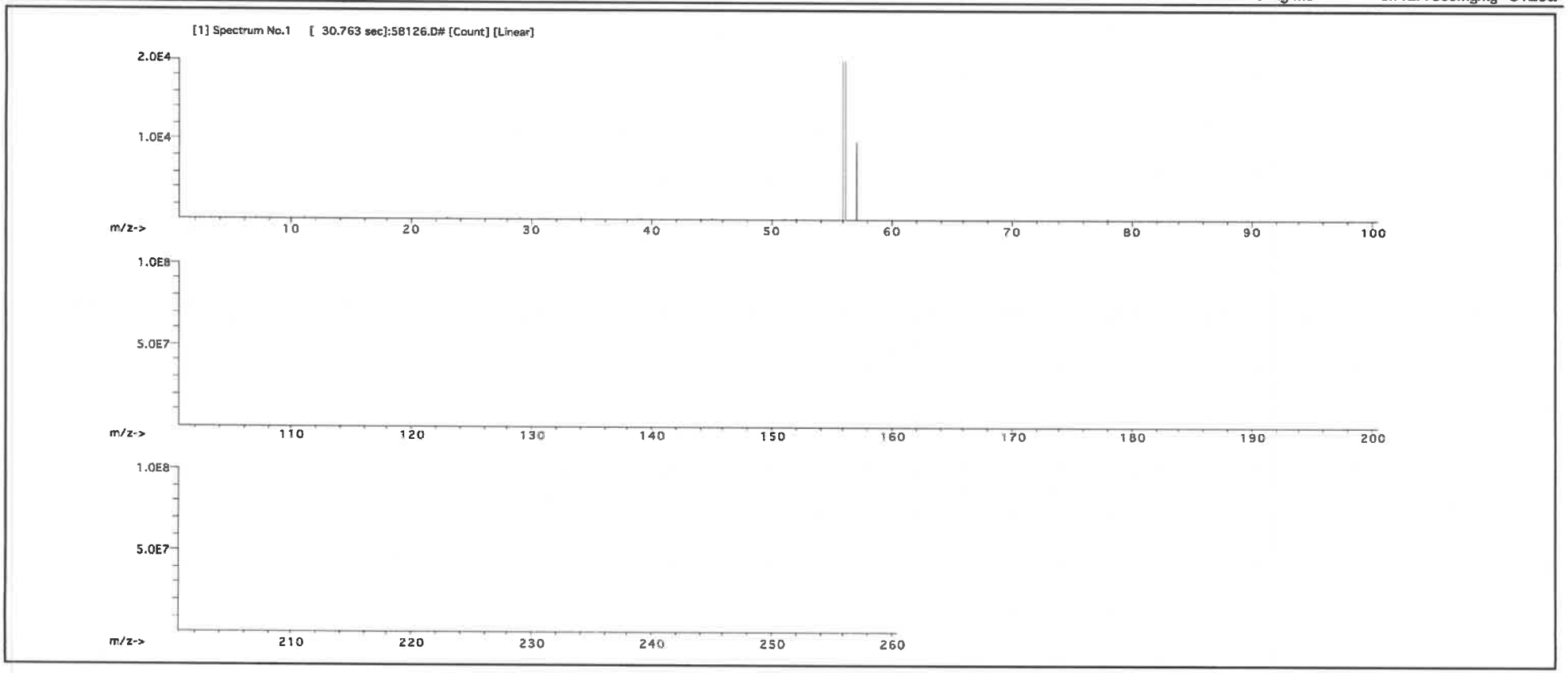
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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RD:05/14/2024

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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:	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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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 17, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

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

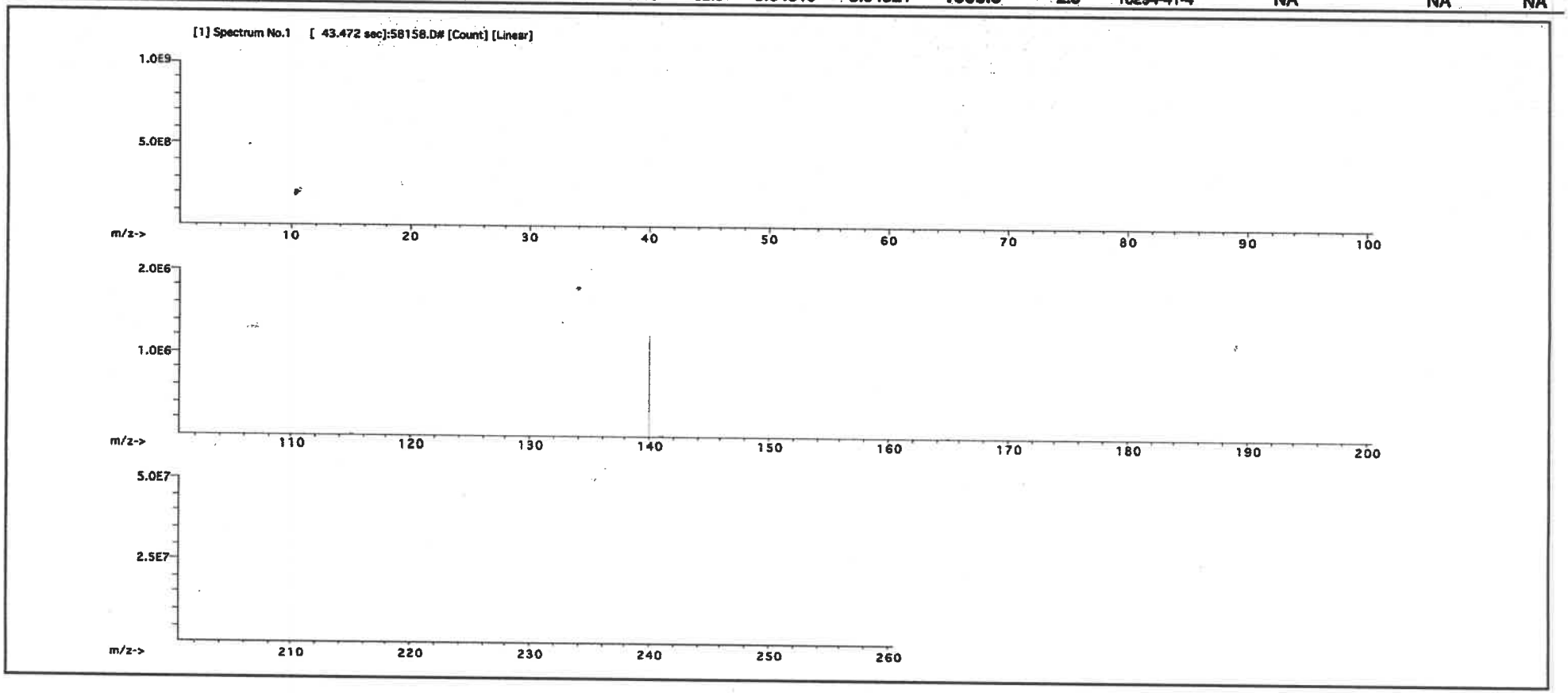
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5708
Added 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
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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

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M5658 R ! 8/25/23

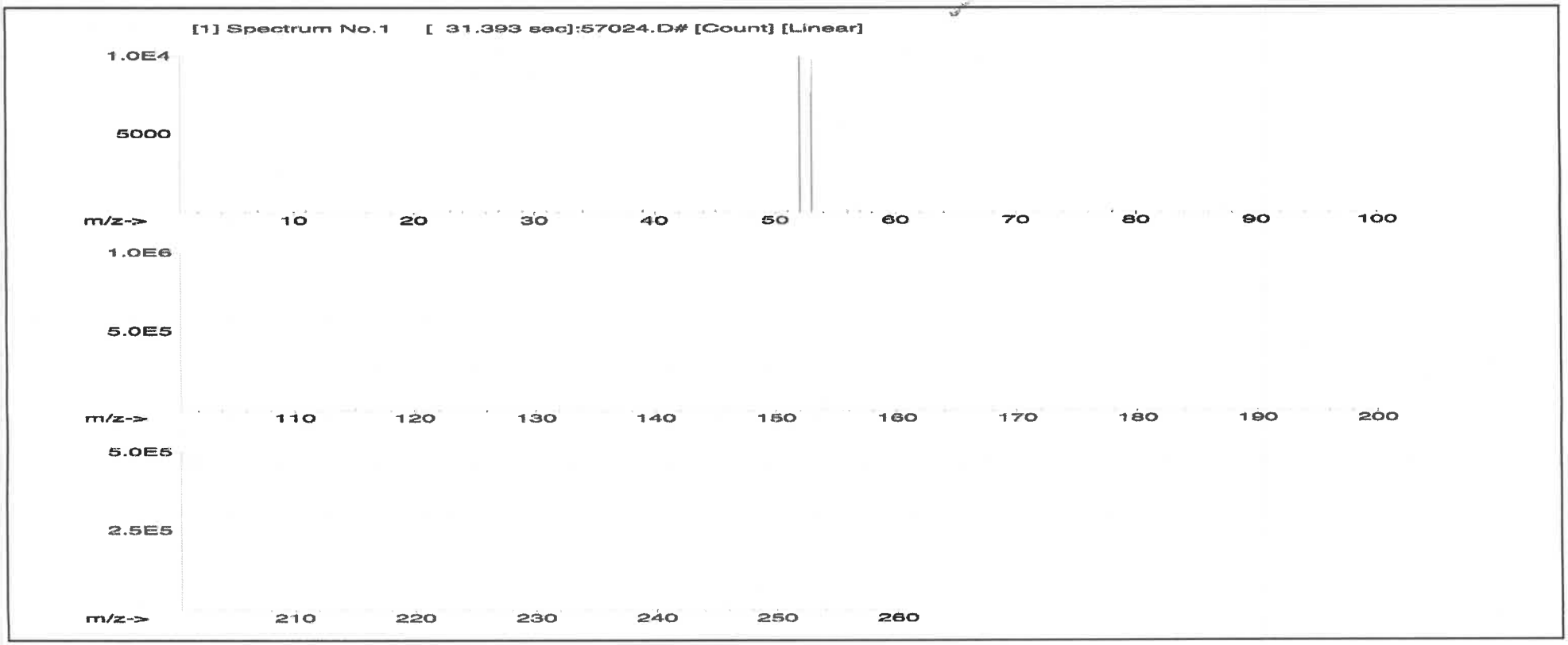
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CERTIFIED WEIGHT REPORT:

		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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

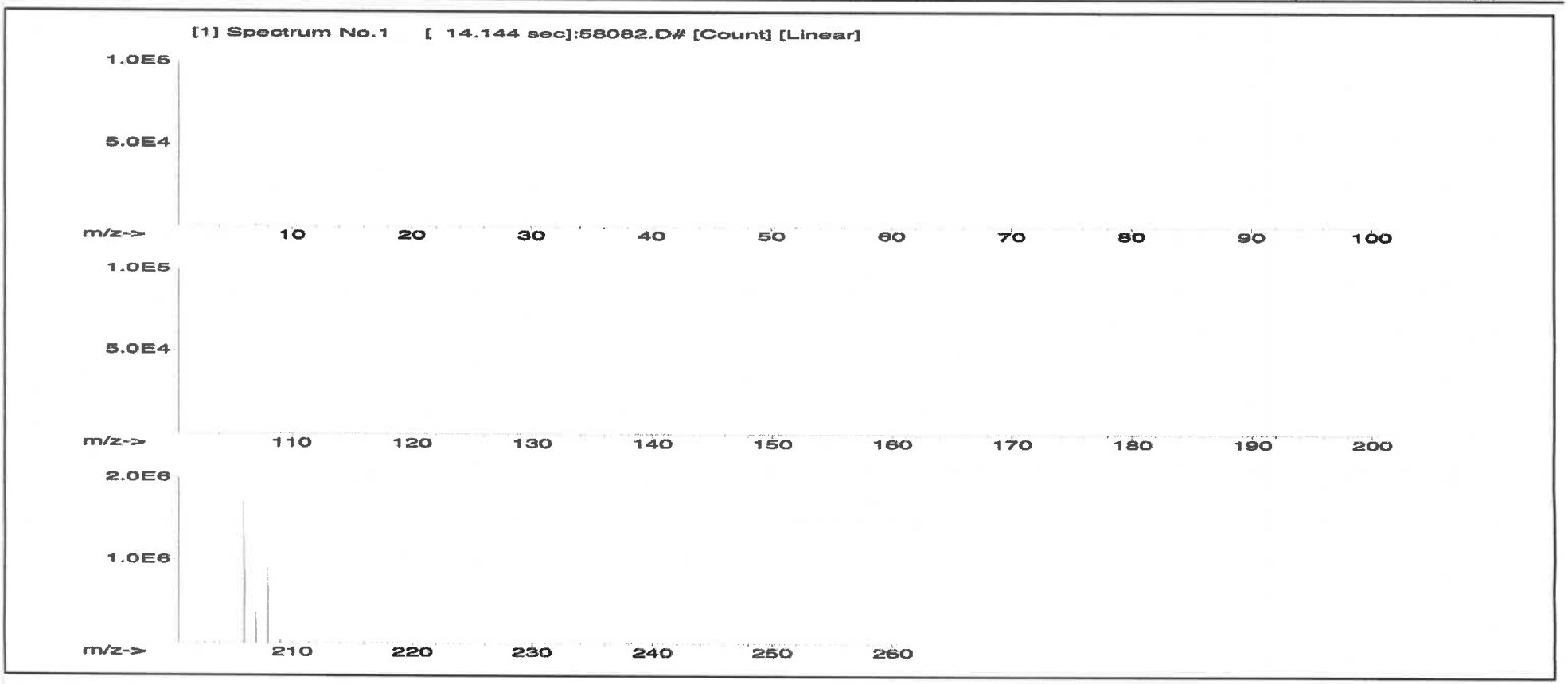
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5748

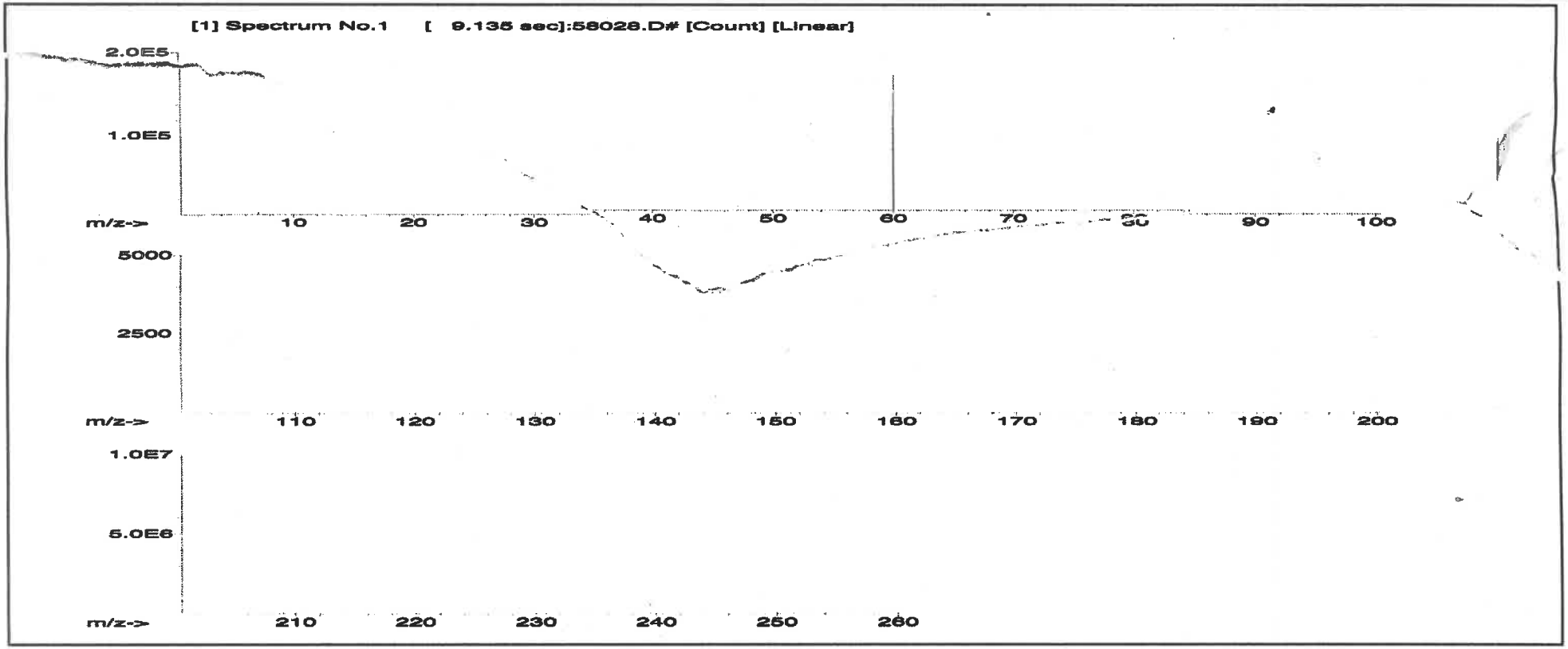
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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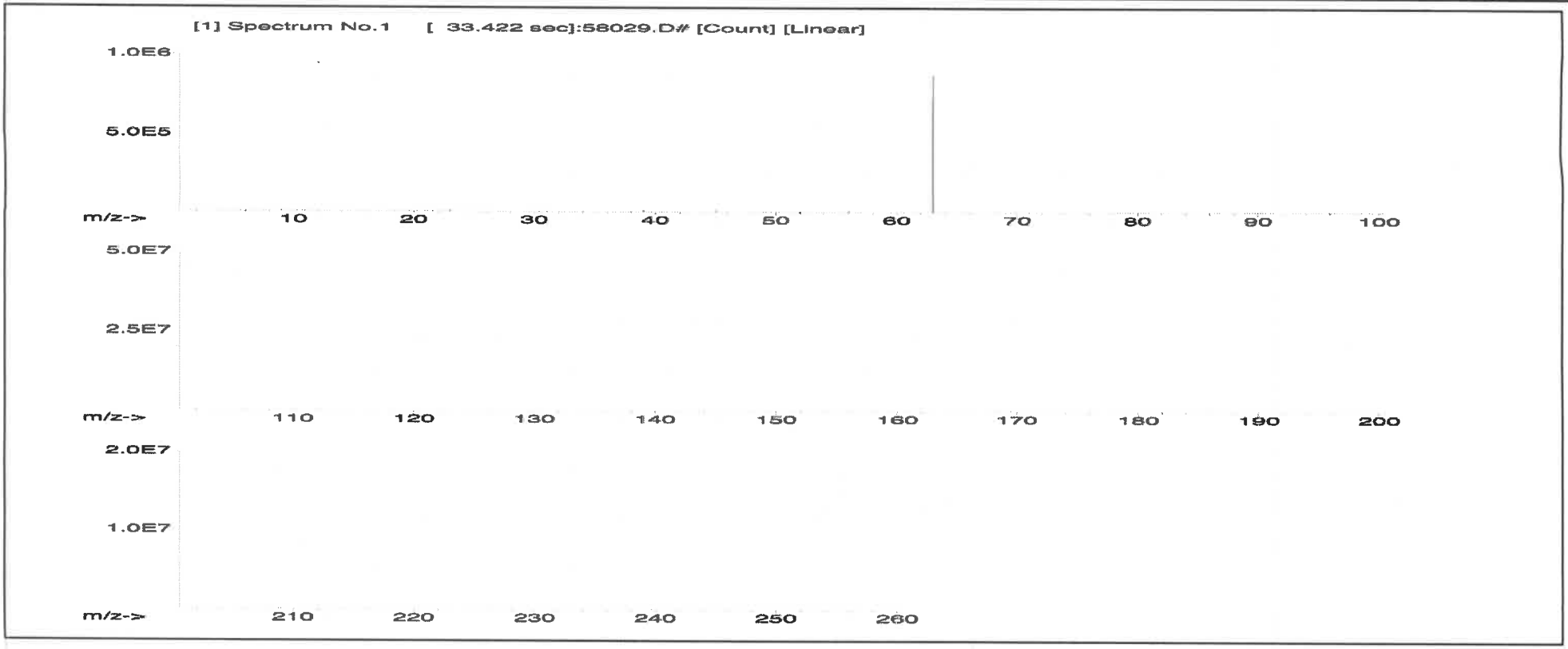
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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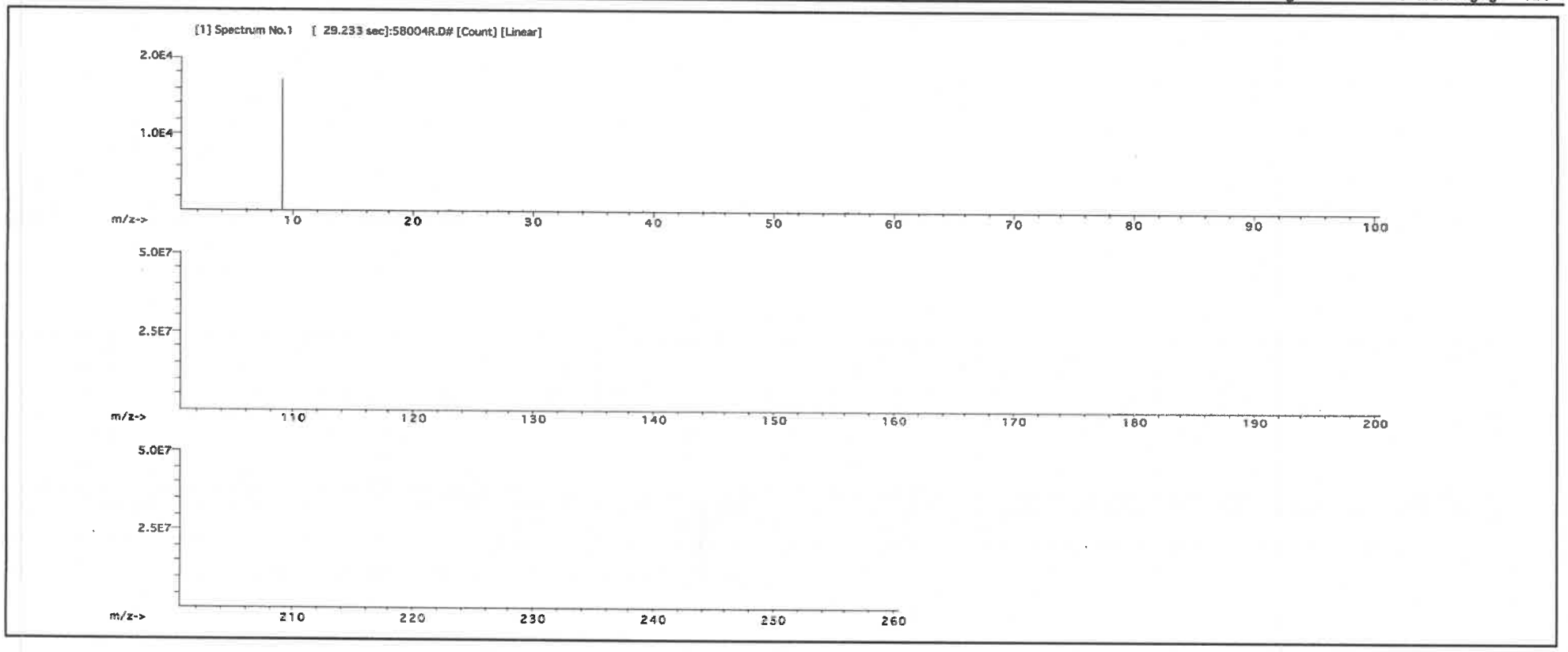
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

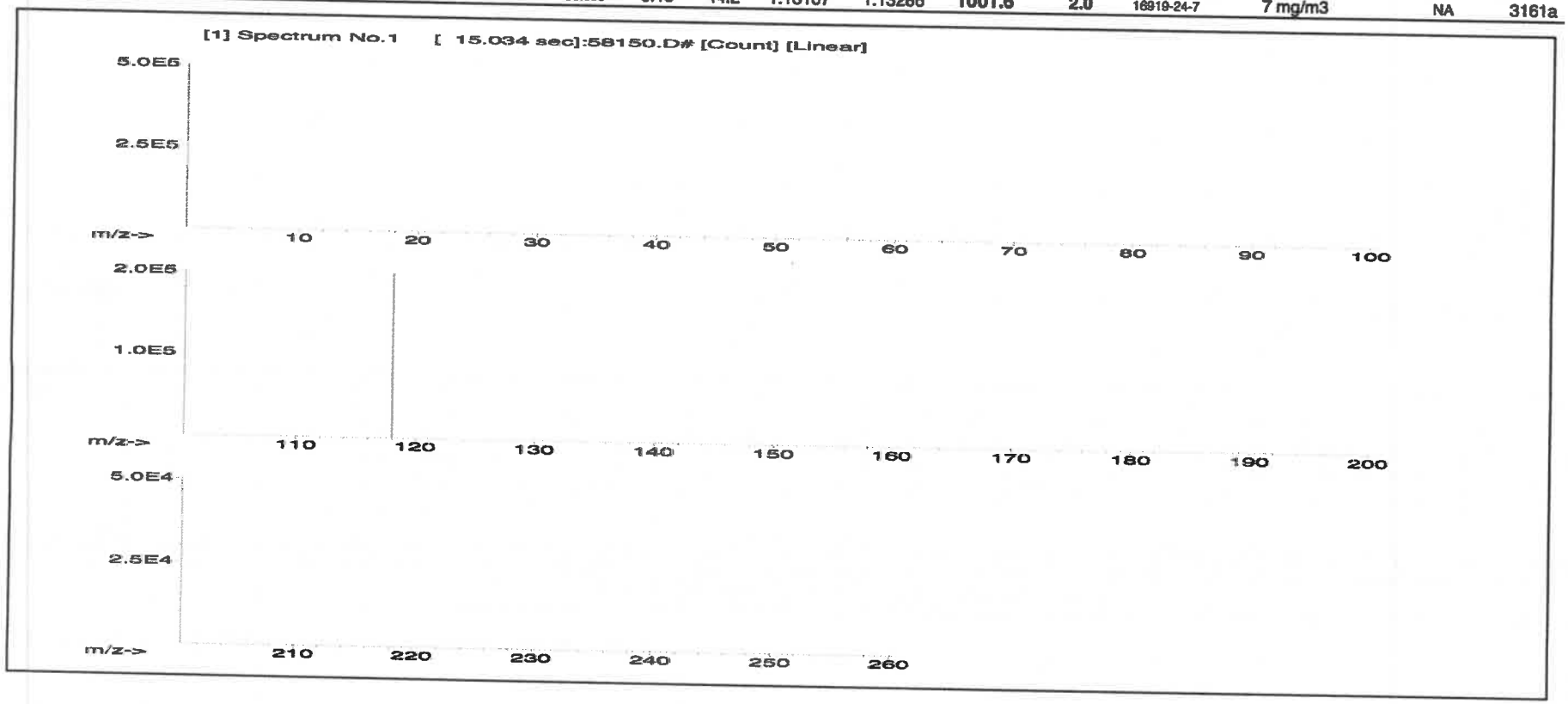
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 IM5800 BH

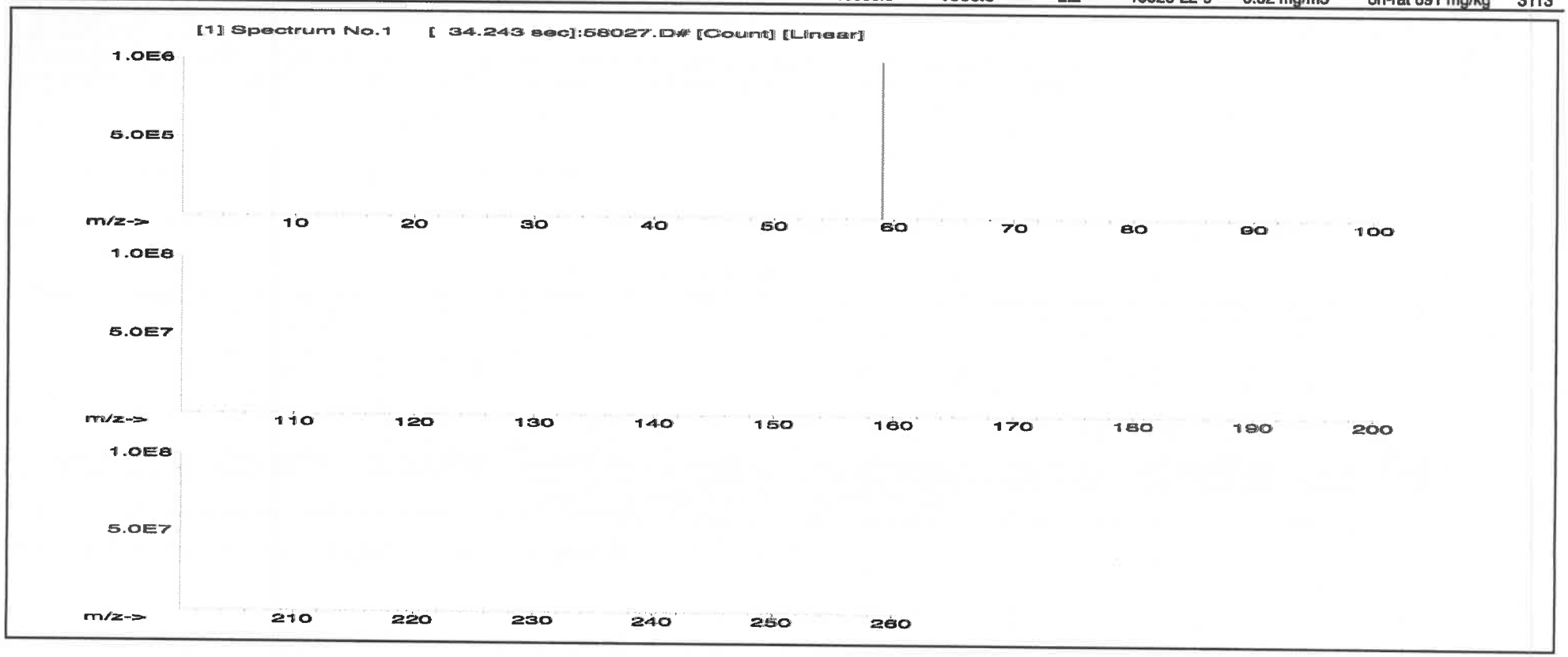
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CERTIFIED WEIGHT REPORT:

		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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R: 02/09/24 IM5801 BH

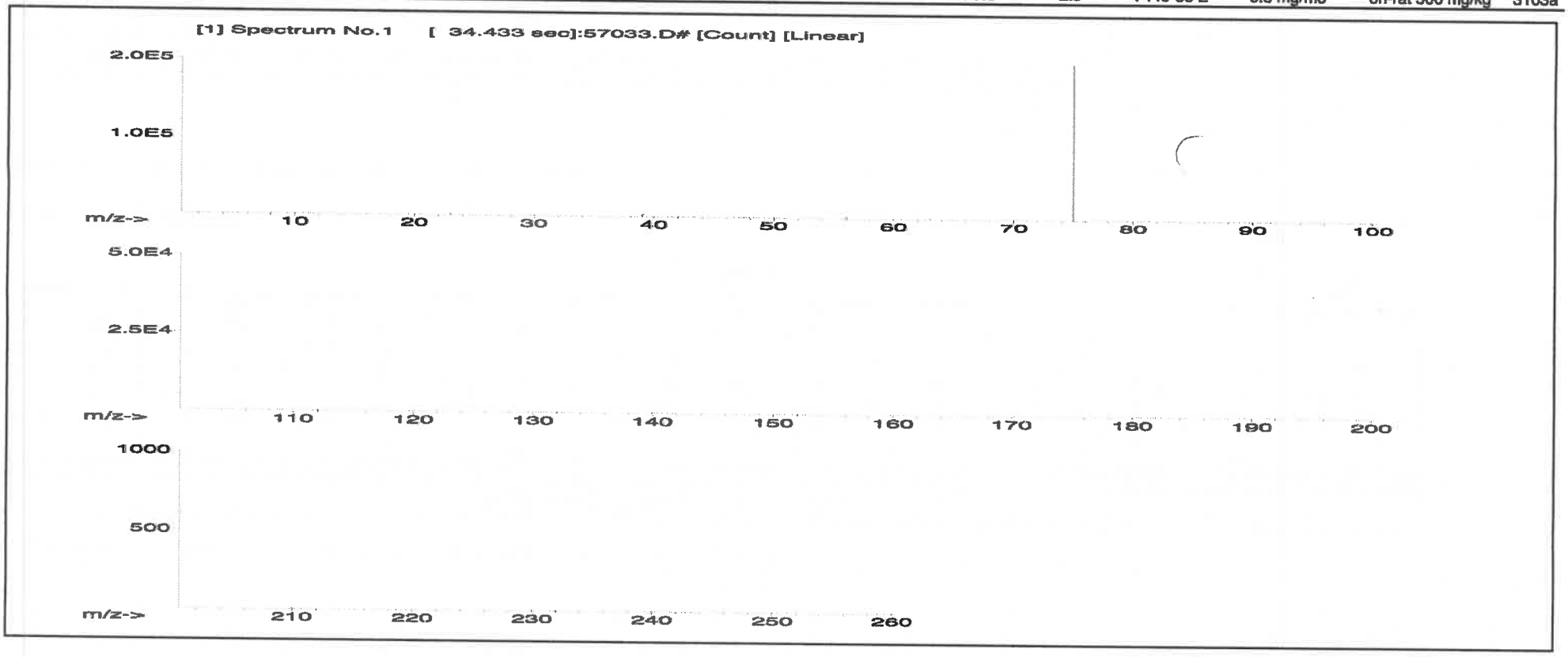
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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A: 02/09/24 M.5814

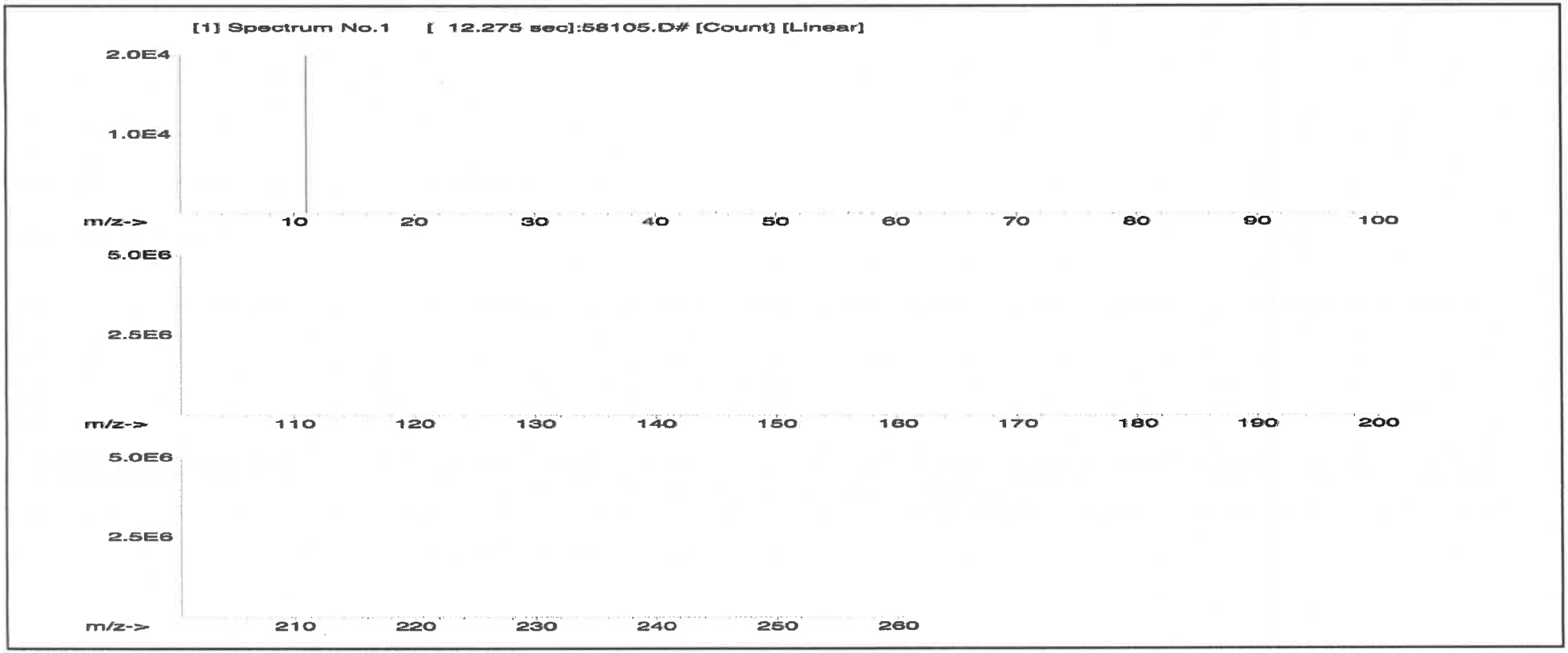
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:

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R: 02/09/24 M5816

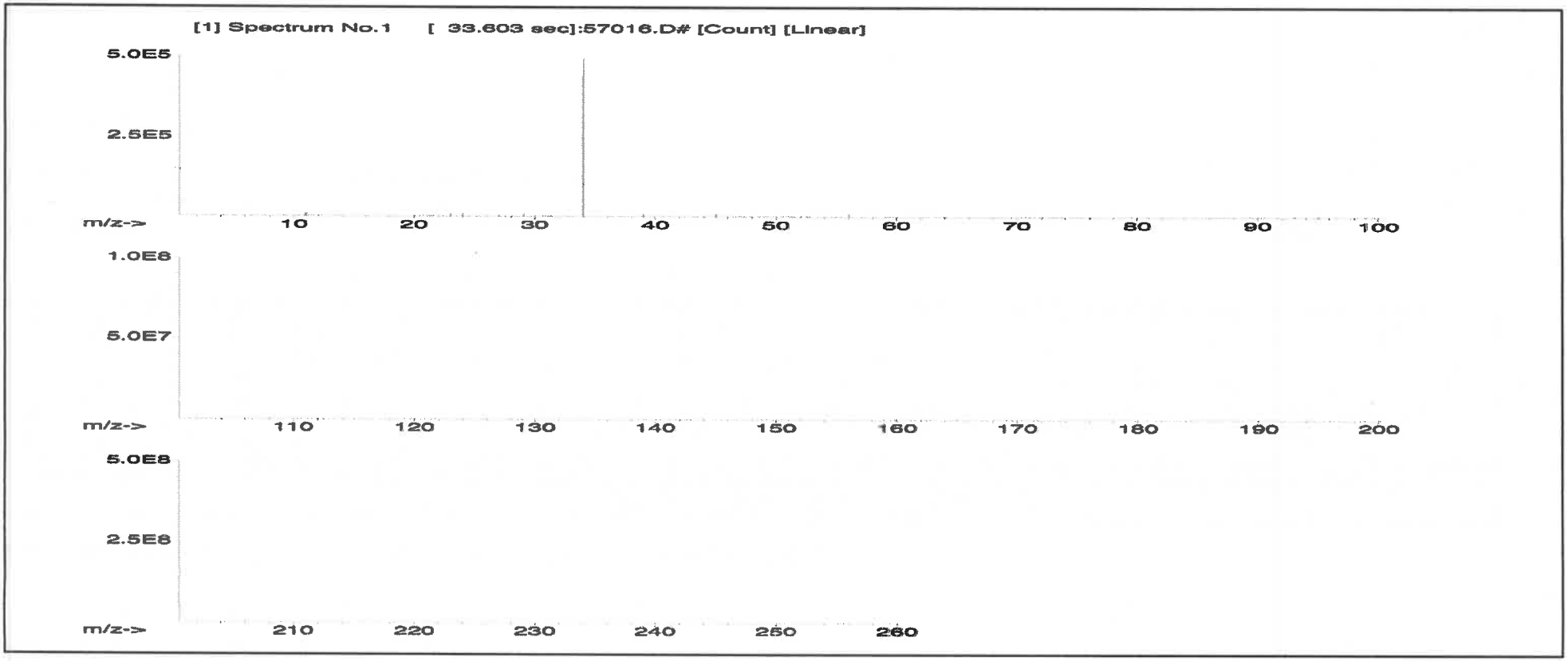
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:



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R: 02/09/24 M5820

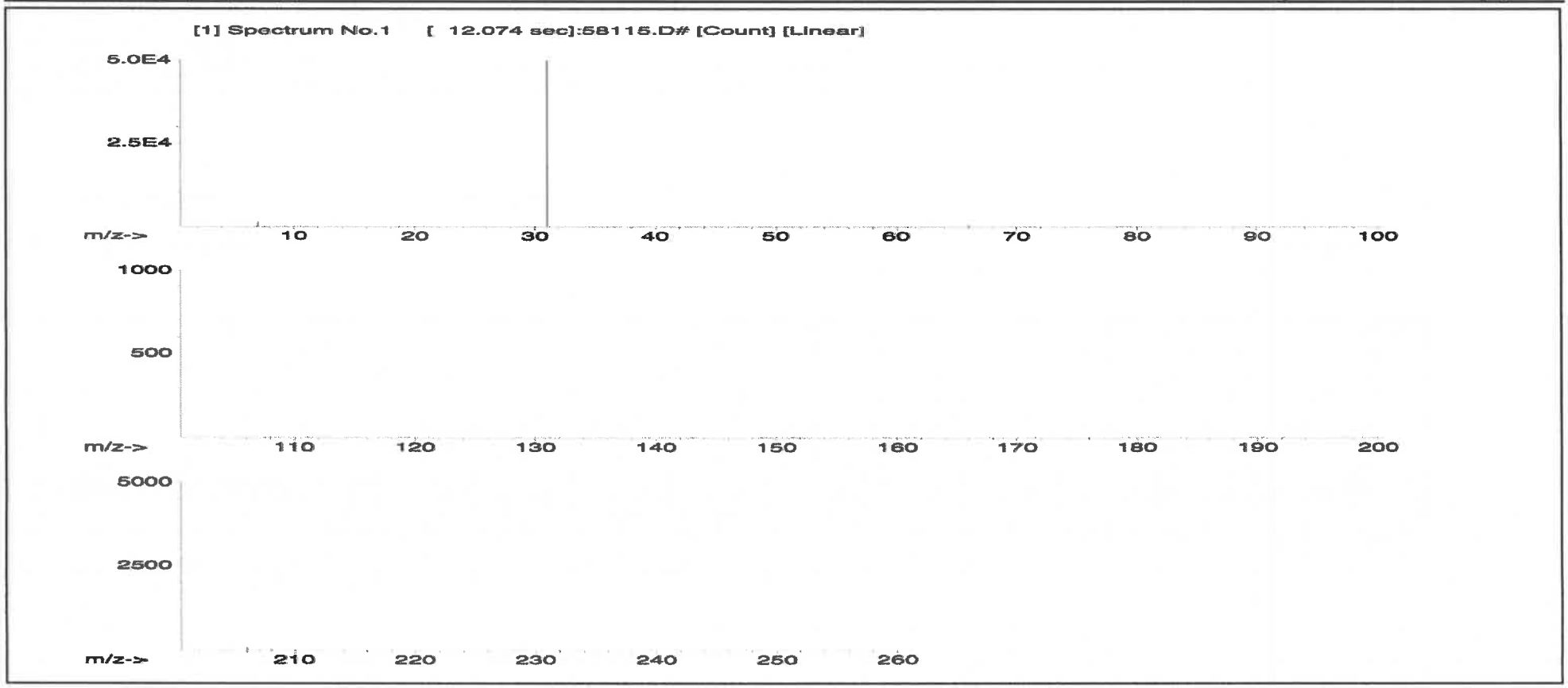
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
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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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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) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

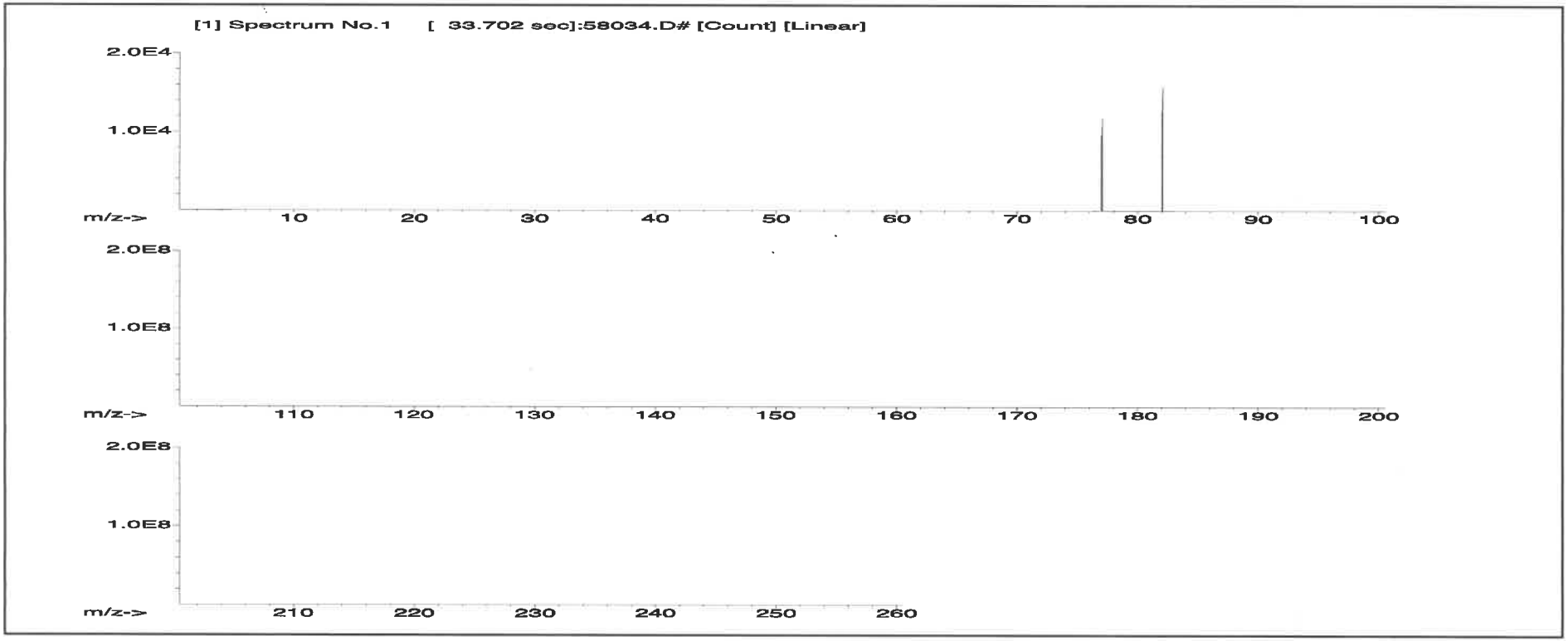
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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
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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

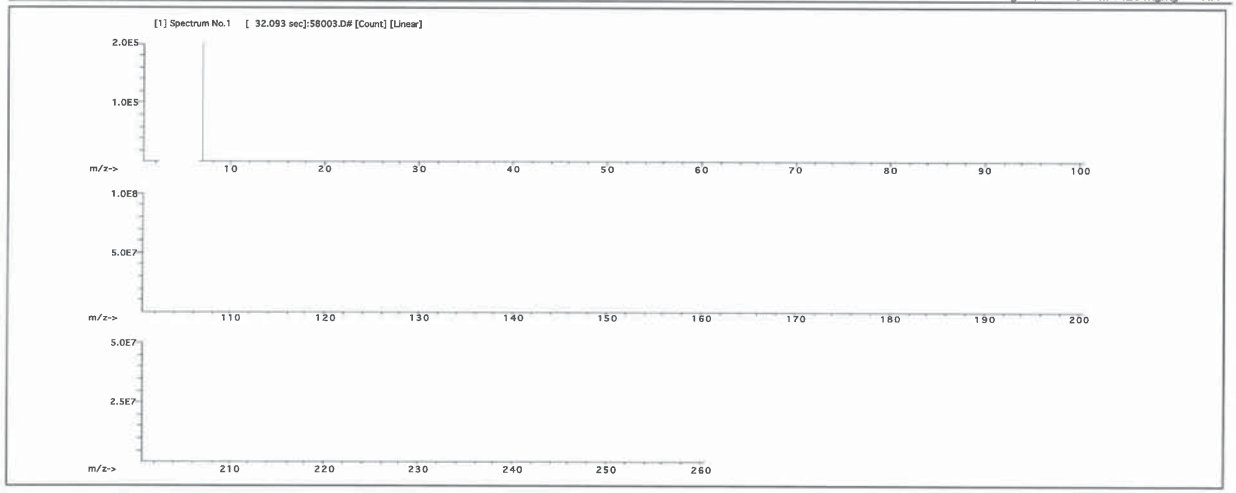
CERTIFIED WEIGHT REPORT:

		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

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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MS984
R:6/14/24

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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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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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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

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R: 2/22/24
MS-997

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

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

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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO_3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 5 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 06, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

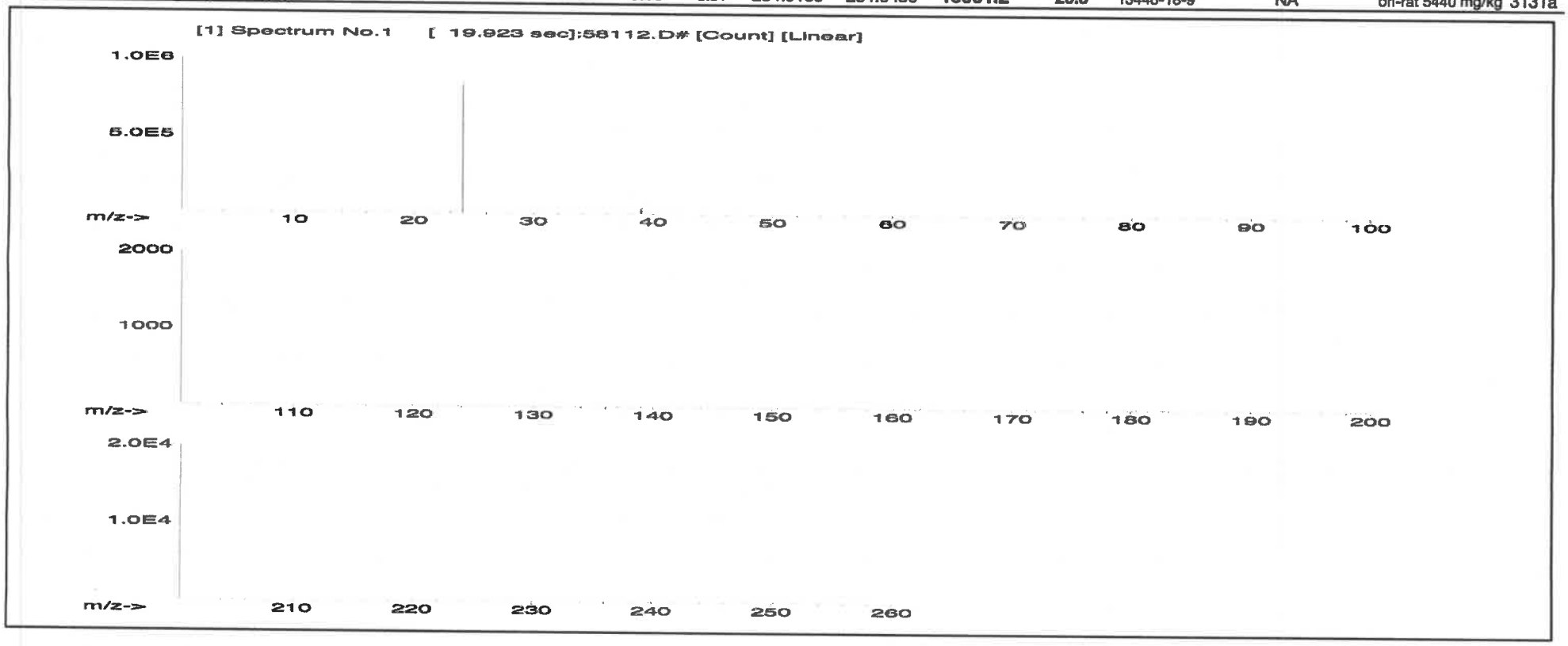
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

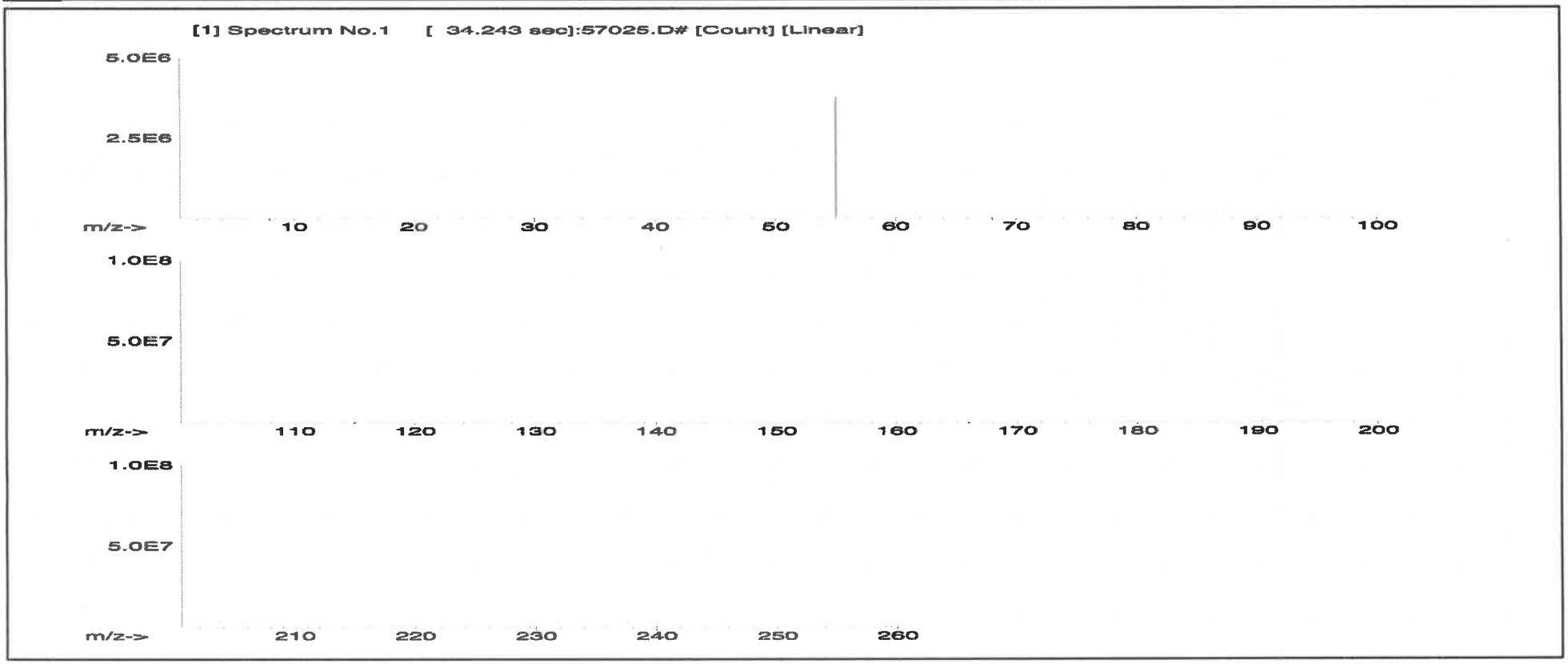
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 10, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

M6141
M6142
M6143

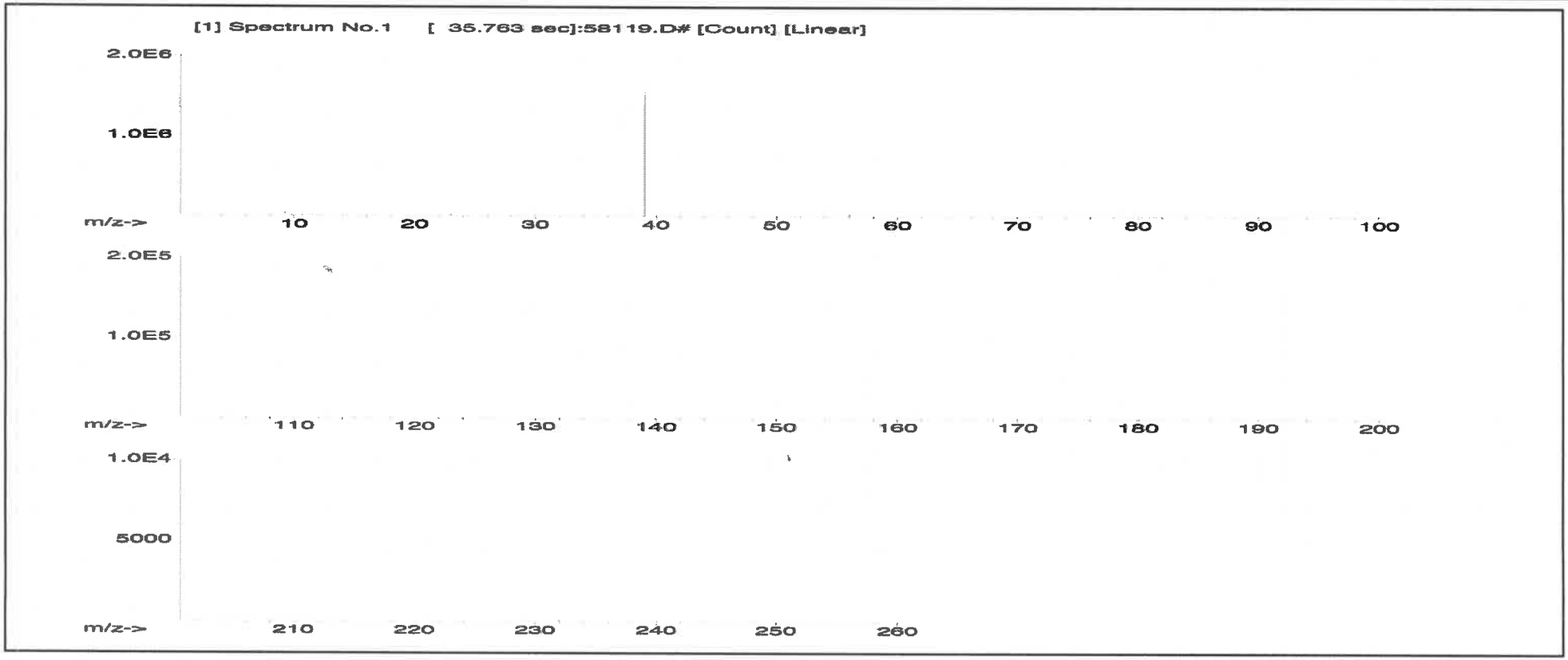
Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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
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Certified Reference Material CRM

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AR-1539 Certificate Number
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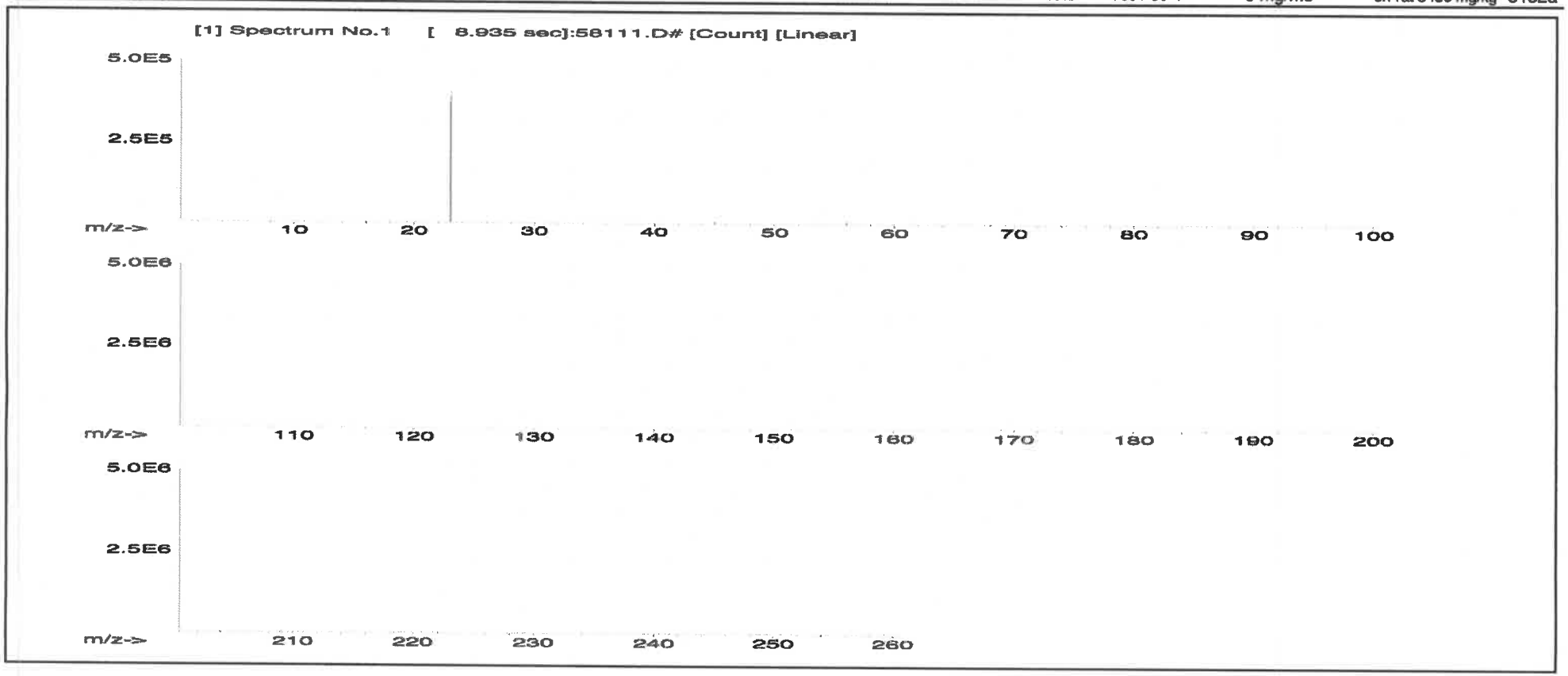
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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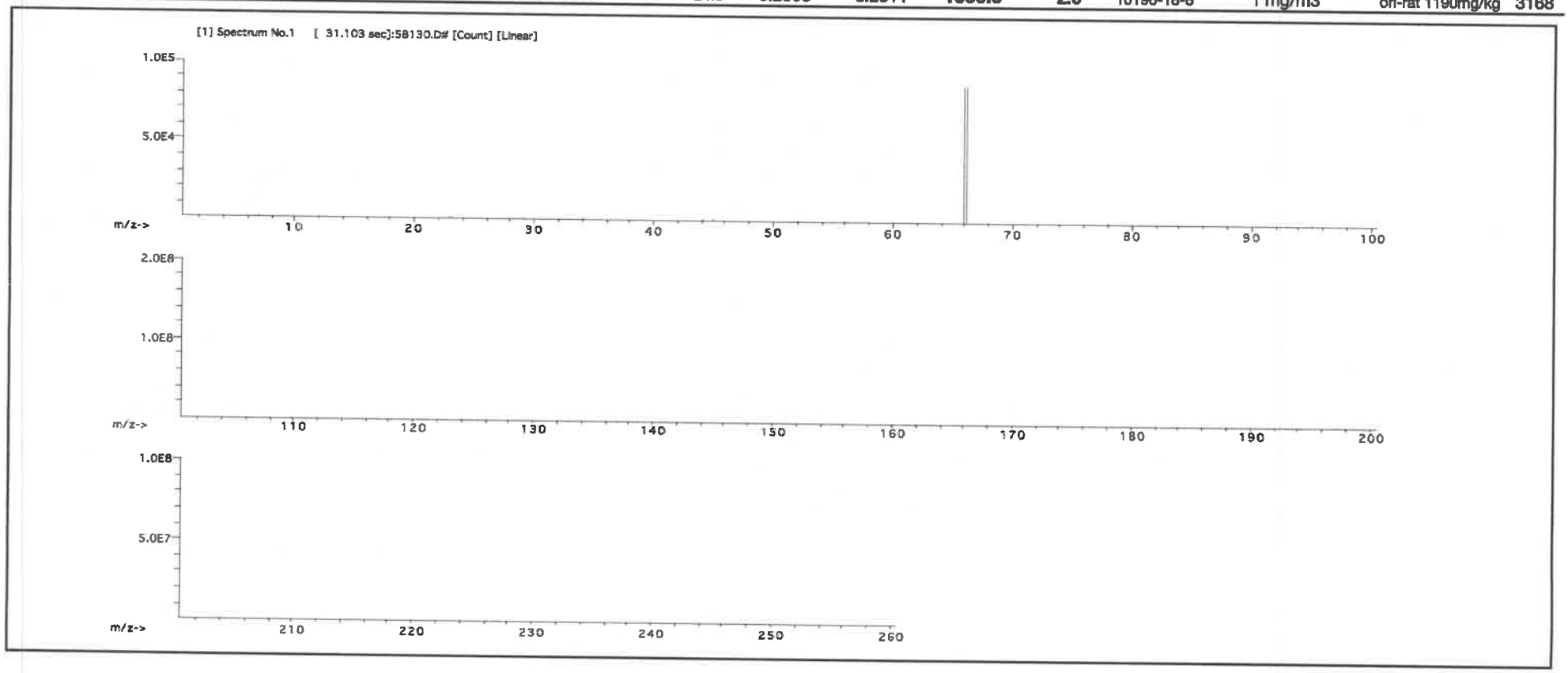
CERTIFIED WEIGHT REPORT:

Part Number:	**58030**	R → 1/13/25	**Solvent:**	**Lot #** 24012496	Nitric Acid
Lot Number:	**121724**				
Description:	**Zinc (Zn)**	M6145	2%	40.0 (mL)	Nitric Acid
Expiration Date:	121727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.1	0.10 Flask Uncertainty			

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-5162

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

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Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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:	QCP-CICV-1
Lot Number:	V2-MEB744107
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 1 000 µg/mL ea: Aluminum, Barium, 500 µg/mL ea: Iron, 250 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 125 µg/mL ea: Silver, Copper, 100 µg/mL ea: Chromium, 25 µg/mL ea: Beryllium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**1 000 ± 4 µg/mL**	**Barium, Ba**	**1 000 ± 6 µg/mL**
Beryllium, Be	**24.98 ± 0.12 µg/mL**	**Calcium, Ca**	**2 500 ± 8 µg/mL**
Chromium, Cr	**99.9 ± 0.6 µg/mL**	**Cobalt, Co**	**250.2 ± 1.2 µg/mL**
Copper, Cu	**125.0 ± 0.5 µg/mL**	**Iron, Fe**	**500.0 ± 2.2 µg/mL**
Magnesium, Mg	**2 500 ± 11 µg/mL**	**Manganese, Mn**	**249.9 ± 1.1 µg/mL**
Nickel, Ni	**250.0 ± 1.2 µg/mL**	**Potassium, K**	**2 500 ± 11 µg/mL**
Silver, Ag	**125.0 ± 0.6 µg/mL**	**Sodium, Na**	**2 500 ± 11 µg/mL**
Vanadium, V	**250.0 ± 1.1 µg/mL**	**Zinc, Zn**	**249.9 ± 1.1 µg/mL**

Density: 1.081 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
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	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

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**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 22, 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

- **May 22, 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

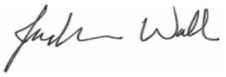
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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:	QCP-CICV-2
Lot Number:	U2-MEB733713
Matrix:	3% (w/v) Tartaric acid 1% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**500.0 ± 2.8 µg/mL**		

Density: 1.017 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

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 01, 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

- **June 01, 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

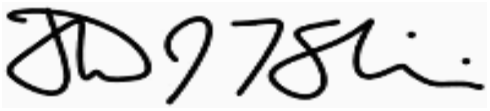
- Sealed TCT Bag Open Date: _____

- 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



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

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X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

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k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

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- 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

January 02, 2025

- 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 02, 2030**

- 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

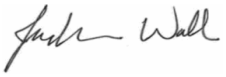
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrogen Peroxide, 30%
CMOS
(Stabilized)

M-6170

R.Date . 8-05/20/2025

avantor™ | J.T.Baker®

Material No.: 2190-03
Batch No.: 24D1961001

Test	Specification	Result
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 600.0 ppb	176.7 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	190.0 – 500.0 ppb	272.3 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)	≤ 50 ppb	< 1 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.2 µm and greater	≤ 1175 par/ml	202 par/ml
Particle Count – 0.5 µm and greater	≤ 100 par/ml	33 par/ml

>>> Continued on page 3 >>>

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

Material No.: 2190-03
Batch No.: 24D1961001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

Material No.: 2190-03
Batch No.: 24D1961001
Manufactured Date: 2024-04-17
Expiration Date: 2025-10-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H_2O_2)	30.0 - 32.0 %	31.6 %
Color (APHA)	≤ 10	< 5
Free Acid (µeq/g)	≤ 0.2	0.1
Residue after Evaporation	≤ 10 ppm	2 ppm
Ammonium (NH_4)	≤ 3 ppm	< 3 ppm
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Nitrate (NO_3)	≤ 2 ppm	< 2 ppm
Phosphate (PO_4)	≤ 1 ppm	1 ppm
Sulfate (SO_4)	≤ 3 ppm	< 3 ppm
Trace Impurities - Aluminum (Al)	≤ 70.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 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)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Chromium (Cr)	≤ 20.0 ppb	1.5 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)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 5.0 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 250.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	4.6 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

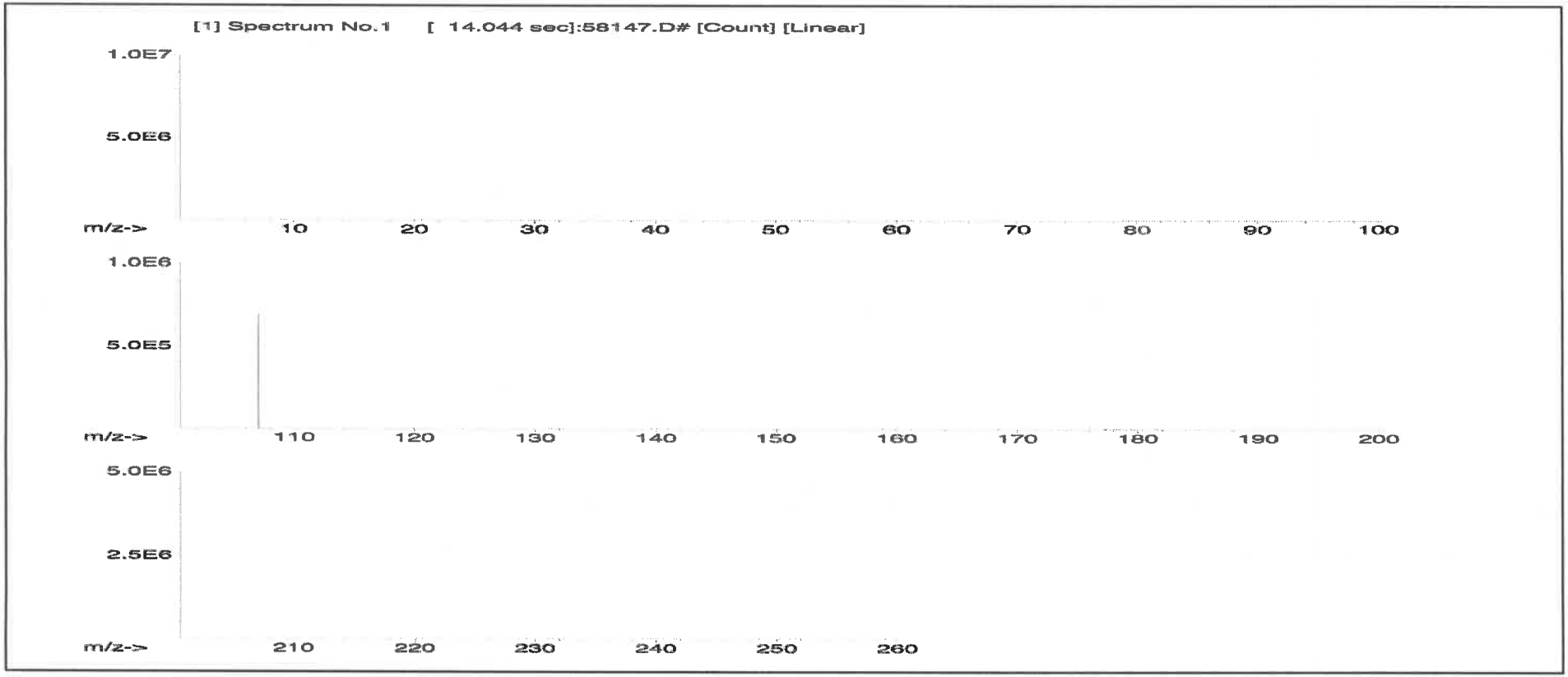
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
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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	

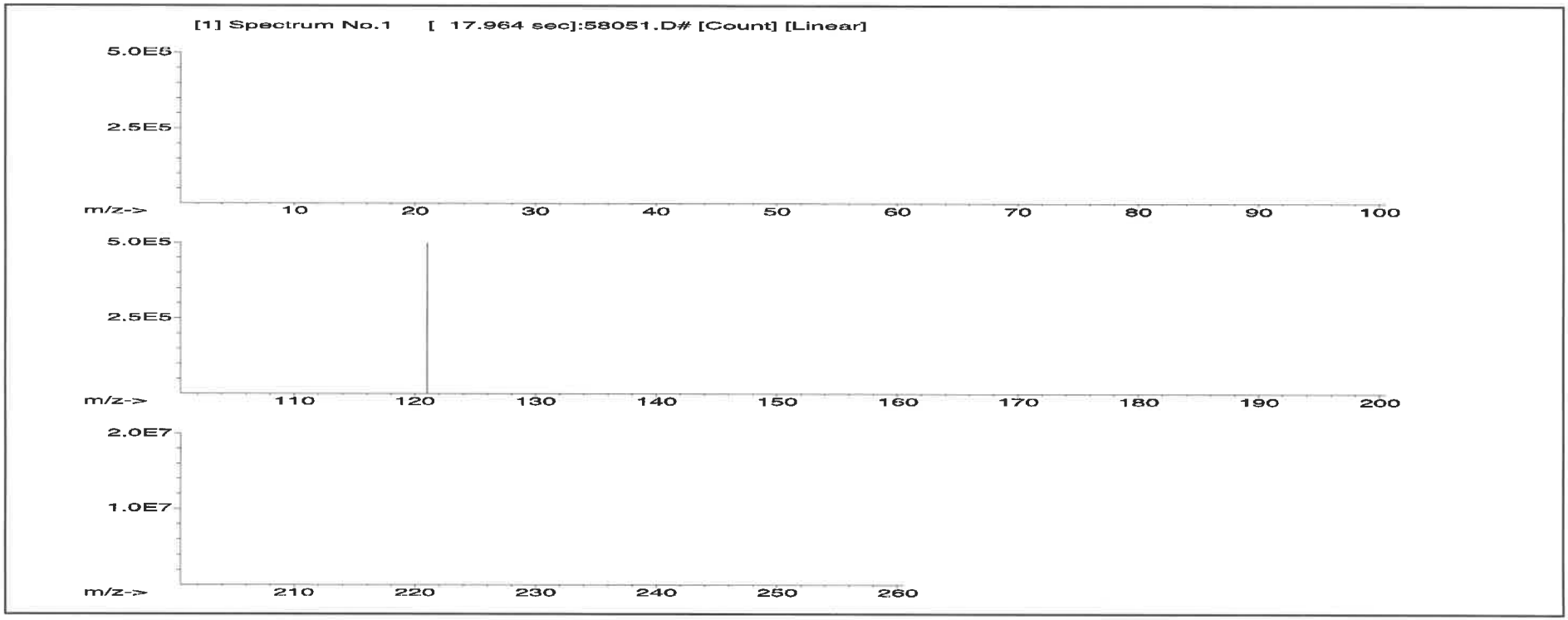
Giovanni Esposito

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"

APTIM

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6155

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

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APTIM Federal Services, LLC
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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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

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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 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.

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- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

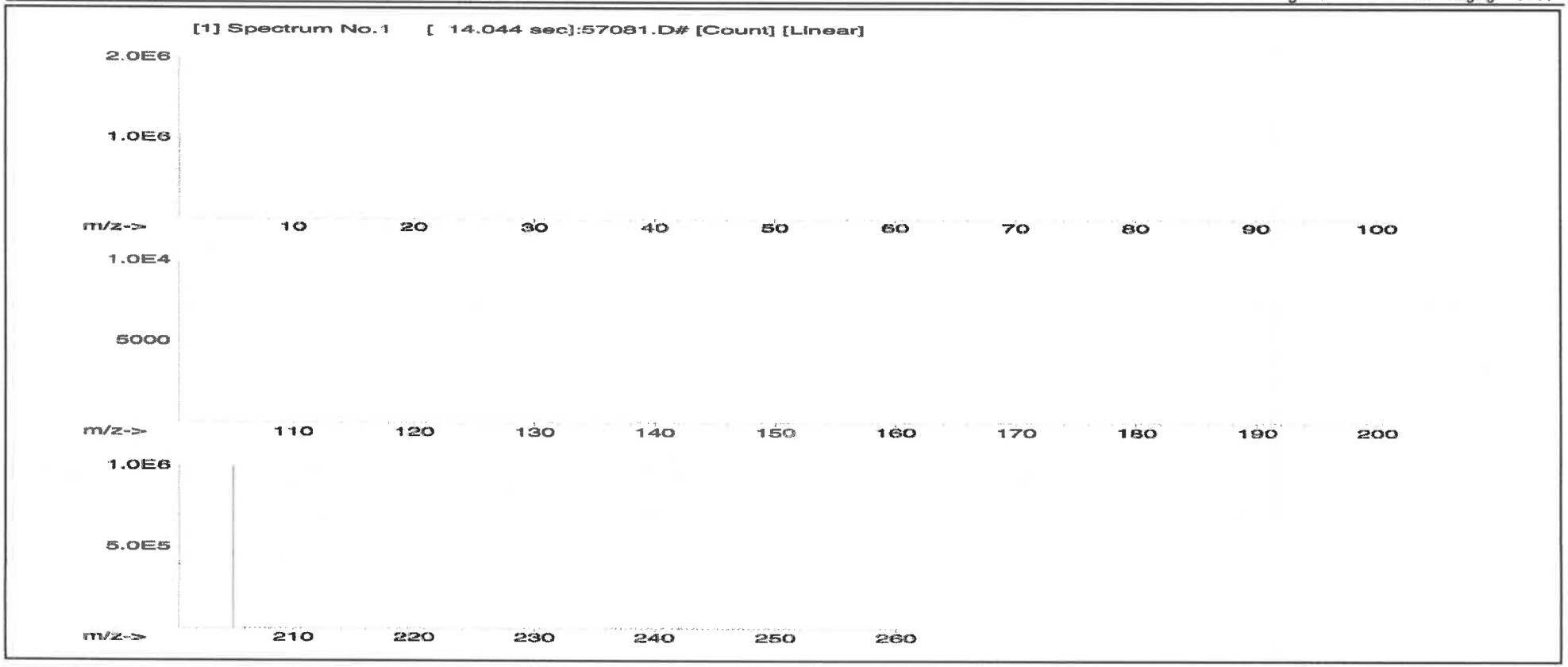
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

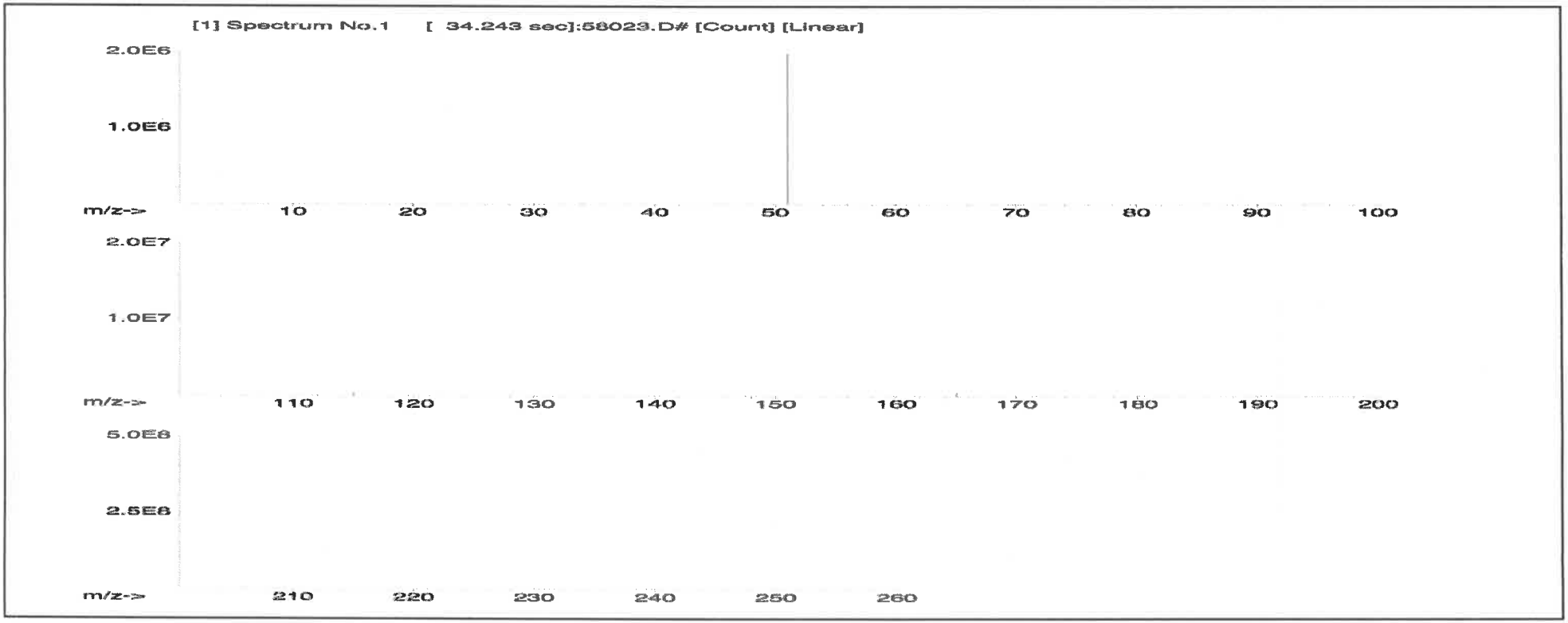
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2484
QUOTE NO.
COC Number 2047525

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: TCL VOC
2: TCL SVOC
3: TAL METALS
4: PCBs
5: PESTICIDES
6: HERBICIDES
7: DRO/GRO
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	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-58	S		X	7/1/25	0800		X	X	X	X	X	X	X			E
2.	TP-57	S		X	7/1/25	0840	6	X	X	X	X	X	X	X			E
3.	TP-64	S		X	7/1/25	0930	6	X	X	X	X	X	X	X			E
4.	TP-107	S		X	7/1/25	1040	6	X	X	X	X	X	X	X			E
5.	TP-106	S		X	7/1/25	1145	6	X	X	X	X	X	X	X			E
6.	TP-104	S		X	7/1/25	1240	6	X	X	X	X	X	X	X			E
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES

COMMENTS ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/1/25 1510	1.
2.		2.
3.	7.1.25 1654	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.6 °C
Comments: _____

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 : Q2484 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/2/2025 9:23:00 AM
Project Name : South River WM Replacem
Receive DateTime : 7/1/2025 4:54:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2 ~~4~~
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2484-01	TP-58	Solid	07/01/2025	08:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-02	TP-57	Solid	07/01/2025	08:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-03	TP-64	Solid	07/01/2025	09:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-04	TP-107	Solid	07/01/2025	10:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-05	TP-~~1086~~ 106	Solid	07/01/2025	11:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2484-06	TP-104	Solid	07/01/2025	12:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days