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

DATA PACKAGE

METALS

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : Q2639

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2639

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q2639-01	OU4-TS-38-071725
Q2639-02	OU4-TS-38-071725
Q2639-03	OU4-TS-39-071725
Q2639-04	OU4-TS-39-071725
Q2639-05	OU4-TS-40-071725
Q2639-06	OU4-TS-40-071725
Q2639-07	OU4-TS-41-071725
Q2639-08	OU4-TS-41-071725
Q2639-09	OU4-TS-42-071725
Q2639-10	OU4-TS-42-071725
Q2639-11	OU4-TS-43-071725
Q2639-12	OU4-TS-43-071725
Q2639-13	OU4-TS-44-071725
Q2639-14	OU4-TS-44-071725

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 : APPROVED
By Sohil Jodhani, QA/QC Director at 10:37 am, Aug 01, 2025

Date: 7/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q2639
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
14 Solid samples were received on 07/18/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate (MH 2-1DUP) analysis met criteria for all compounds except for Calcium and Magnesium due to unknow sample matrix interference.

The Matrix Spike (MH 2-1MS) analysis met criteria for all compounds except for Antimony and Zinc due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (MH 2-1MSD) analysis met criteria for all compounds except for Antimony and Zinc due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (OR-03-07232025MSD) analysis met criteria for all compounds except for Mercury due to sample matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Signature____ **APPROVED**

By Sohil Jodhani, QA/QC Director at 10:37 am, Aug 01, 2025

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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

QA Control # A3040961

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2639 MATRIX: Solid

METHOD: 6010D,7471B

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike (MH 2-1MS) analysis met criteria for all compounds except for Antimony and Zinc due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MH 2-1MSD) analysis met criteria for all compounds except for Antimony and Zinc due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (OR-03-07232025MSD) analysis met criteria for all compounds except for Mercury due to sample matrix interference.			
7.	Sample Duplicate Analysis Met QC Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Duplicate (MH 2-1DUP) analysis met criteria for all compounds except for Calcium and Magnesium due to unknow sample matrix interference.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

QA REVIEW

APPROVED
By Sohil Jodhani, QA/QC Director at 10:37 am, Aug 01, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2639

	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: SOHIL JODHANI **Date:** 07/28/2025

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LAB CHRONICLE

OrderID:	Q2639	**OrderDate:**	7/18/2025 10:22:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	O13,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2639-01	**OU4-TS-38-071725**	**SOIL**			**07/17/25**			**07/18/25**
			Mercury	7471B		07/24/25	07/25/25	
			Metals ICP-TAL	6010D		07/21/25	07/22/25	
Q2639-02	**OU4-TS-38-071725**	**Water**			**07/17/25**			**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/24/25	
Q2639-03	**OU4-TS-39-071725**	**SOIL**			**07/17/25**			**07/18/25**
			Mercury	7471B		07/24/25	07/25/25	
			Metals ICP-TAL	6010D		07/21/25	07/22/25	
Q2639-04	**OU4-TS-39-071725**	**Water**			**07/17/25**			**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/24/25	
Q2639-05	**OU4-TS-40-071725**	**SOIL**			**07/17/25**			**07/18/25**
			Mercury	7471B		07/24/25	07/25/25	
			Metals ICP-TAL	6010D		07/21/25	07/22/25	
Q2639-06	**OU4-TS-40-071725**	**Water**			**07/17/25**			**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/22/25	
			SPLP MetalGroup3	6020B		07/21/25	07/24/25	
Q2639-07	**OU4-TS-41-071725**	**SOIL**			**07/17/25**			**07/18/25**
			Mercury	7471B		07/24/25	07/25/25	
			Metals ICP-TAL	6010D		07/21/25	07/22/25	
Q2639-08	**OU4-TS-41-071725**	**Water**			**07/17/25**			**07/18/25**

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LAB CHRONICLE

			SPLP Mercury	7470A		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/24/25
Q2639-09	**OU4-TS-42-071725**	**SOIL**			**07/17/25**		**07/18/25**
			Mercury	7471B		07/24/25	07/25/25
			Metals ICP-TAL	6010D		07/21/25	07/23/25
Q2639-10	**OU4-TS-42-071725**	**Water**			**07/17/25**		**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/24/25
Q2639-11	**OU4-TS-43-071725**	**SOIL**			**07/17/25**		**07/18/25**
			Mercury	7471B		07/24/25	07/25/25
			Metals ICP-TAL	6010D		07/21/25	07/22/25
Q2639-12	**OU4-TS-43-071725**	**Water**			**07/17/25**		**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/24/25
Q2639-13	**OU4-TS-44-071725**	**SOIL**			**07/17/25**		**07/18/25**
			Mercury	7471B		07/24/25	07/25/25
			Metals ICP-TAL	6010D		07/21/25	07/22/25
Q2639-14	**OU4-TS-44-071725**	**Water**			**07/17/25**		**07/18/25**
			SPLP Mercury	7470A		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/22/25
			SPLP MetalGroup3	6020B		07/21/25	07/24/25

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Hit Summary Sheet
SW-846

SDG No.: Q2639 **Order ID:** Q2639

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : OU4-TS-38-071725									
Q2639-01	OU4-TS-38-071725	SOIL	Aluminum	12800		0.89	4.22	5.28	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Arsenic	10.8		0.20	0.85	1.06	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Barium	90.4		0.77	1.32	5.28	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Beryllium	0.70		0.026	0.079	0.32	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Cadmium	0.79		0.025	0.079	0.32	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Calcium	2880		11.7	26.4	106	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Chromium	27.6		0.050	0.13	0.53	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Cobalt	14.4		0.11	0.40	1.58	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Copper	75.5		0.23	0.85	1.06	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Iron	23300		4.21	4.22	5.28	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Lead	30.3		0.14	0.51	0.63	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Magnesium	5920		12.7	26.4	106	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Manganese	371		0.15	0.26	1.06	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Mercury	0.10		0.0090	0.012	0.016	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Nickel	25.3		0.14	0.53	2.11	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Potassium	4440		29.2	84.5	106	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Silver	0.77		0.13	0.26	0.53	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Sodium	119		18.8	84.5	106	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Vanadium	38.0		0.26	1.06	2.11	mg/Kg
Q2639-01	OU4-TS-38-071725	SOIL	Zinc	91.0		0.24	0.53	2.11	mg/Kg
Client ID : OU4-TS-39-071725									
Q2639-03	OU4-TS-39-071725	SOIL	Aluminum	13200		0.93	4.41	5.51	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Arsenic	11.2		0.21	0.88	1.10	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Barium	92.6		0.81	1.38	5.51	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Beryllium	0.74		0.028	0.083	0.33	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Cadmium	0.81		0.026	0.083	0.33	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Calcium	2990		12.2	27.6	110	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Chromium	28.7		0.052	0.14	0.55	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Cobalt	15.4		0.11	0.41	1.65	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Copper	83.2		0.24	0.88	1.10	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Iron	23900		4.40	4.41	5.51	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Lead	31.7		0.14	0.53	0.66	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Magnesium	5910		13.2	27.6	110	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Manganese	397		0.15	0.28	1.10	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Mercury	0.011	J	0.0090	0.013	0.016	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Nickel	25.8		0.14	0.55	2.20	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Potassium	4410		30.5	88.2	110	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2639 **Order ID:** Q2639

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q2639-03	OU4-TS-39-071725	SOIL	Silver	0.58		0.13	0.28	0.55	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Sodium	118		19.6	88.2	110	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Vanadium	37.4		0.28	1.10	2.20	mg/Kg
Q2639-03	OU4-TS-39-071725	SOIL	Zinc	92.0		0.25	0.55	2.20	mg/Kg
Client ID :	**OU4-TS-40-071725**								
Q2639-05	OU4-TS-40-071725	SOIL	Aluminum	12500		0.90	4.29	5.36	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Arsenic	10.5		0.20	0.86	1.07	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Barium	86.8		0.78	1.34	5.36	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Beryllium	0.67		0.027	0.080	0.32	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Cadmium	0.72		0.026	0.080	0.32	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Calcium	2940		11.9	26.8	107	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Chromium	25.8		0.050	0.13	0.54	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Cobalt	13.8		0.11	0.40	1.61	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Copper	73.3		0.24	0.86	1.07	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Iron	22900		4.28	4.29	5.36	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Lead	28.8		0.14	0.52	0.64	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Magnesium	5640		12.9	26.8	107	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Manganese	371		0.15	0.27	1.07	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Mercury	0.037		0.0090	0.013	0.016	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Nickel	24.4		0.14	0.54	2.15	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Potassium	4220		29.7	85.8	107	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Silver	0.75		0.13	0.27	0.54	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Sodium	112		19.1	85.8	107	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Vanadium	35.5		0.27	1.07	2.15	mg/Kg
Q2639-05	OU4-TS-40-071725	SOIL	Zinc	87.8		0.25	0.54	2.15	mg/Kg
Client ID :	**OU4-TS-41-071725**								
Q2639-07	OU4-TS-41-071725	SOIL	Aluminum	12700		0.99	4.69	5.86	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Arsenic	10.8		0.22	0.94	1.17	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Barium	91.1		0.86	1.47	5.86	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Beryllium	0.69		0.029	0.088	0.35	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Cadmium	0.62		0.028	0.088	0.35	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Calcium	3150		13.0	29.3	117	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Chromium	27.2		0.055	0.15	0.59	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Cobalt	14.1		0.12	0.44	1.76	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Copper	76.2		0.26	0.94	1.17	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Iron	23300		4.68	4.69	5.86	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Lead	28.6		0.15	0.56	0.70	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Magnesium	5760		14.1	29.3	117	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Manganese	382		0.16	0.29	1.17	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2639 **Order ID:** Q2639

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q2639-07	OU4-TS-41-071725	SOIL	Mercury	0.086		0.0090	0.013	0.016	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Nickel	24.5		0.15	0.59	2.35	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Potassium	4280		32.5	93.8	117	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Silver	0.78		0.14	0.29	0.59	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Sodium	111	J	20.9	93.8	117	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Vanadium	36.0		0.29	1.17	2.35	mg/Kg
Q2639-07	OU4-TS-41-071725	SOIL	Zinc	89.9		0.27	0.59	2.35	mg/Kg
Client ID :	**OU4-TS-42-071725**								
Q2639-09	OU4-TS-42-071725	SOIL	Aluminum	13900		1.31	6.23	7.79	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Arsenic	18.4		0.30	1.25	1.56	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Barium	105		1.14	1.95	7.79	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Beryllium	0.91		0.039	0.12	0.47	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Cadmium	0.54		0.037	0.12	0.47	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Calcium	6640		17.3	38.9	156	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Chromium	21.3		0.073	0.20	0.78	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Cobalt	13.8		0.16	0.58	2.34	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Copper	55.4		0.34	1.25	1.56	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Iron	22700		6.21	6.23	7.79	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Lead	27.9		0.20	0.75	0.93	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Magnesium	5270		18.7	38.9	156	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Manganese	465		0.22	0.39	1.56	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Mercury	0.10		0.011	0.016	0.020	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Nickel	25.4		0.20	0.78	3.11	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Potassium	4890		43.1	125	156	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Silver	1.04		0.19	0.39	0.78	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Sodium	358		27.7	125	156	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Thallium	0.63	J	0.36	1.56	3.11	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Vanadium	34.3		0.39	1.56	3.11	mg/Kg
Q2639-09	OU4-TS-42-071725	SOIL	Zinc	88.1		0.36	0.78	3.11	mg/Kg
Client ID :	**OU4-TS-43-071725**								
Q2639-11	OU4-TS-43-071725	SOIL	Aluminum	13700		1.25	5.97	7.46	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Arsenic	21.0		0.28	1.19	1.49	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Barium	106		1.09	1.87	7.46	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Beryllium	0.73		0.037	0.11	0.45	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Cadmium	0.65		0.036	0.11	0.45	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Calcium	7990		16.6	37.3	149	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Chromium	20.9		0.070	0.19	0.75	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Cobalt	13.1		0.15	0.56	2.24	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Copper	60.1		0.33	1.19	1.49	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2639 **Order ID:** Q2639

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q2639-11	OU4-TS-43-071725	SOIL	Iron	22300		5.96	5.97	7.46	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Lead	30.7		0.19	0.72	0.90	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Magnesium	5520		17.9	37.3	149	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Manganese	467		0.21	0.37	1.49	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Mercury	0.079		0.012	0.017	0.022	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Nickel	23.8		0.19	0.75	2.99	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Potassium	4610		41.3	119	149	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Silver	0.94		0.18	0.37	0.75	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Sodium	287		26.6	119	149	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Vanadium	32.6		0.37	1.49	2.99	mg/Kg
Q2639-11	OU4-TS-43-071725	SOIL	Zinc	89.4		0.34	0.75	2.99	mg/Kg
Client ID :	**OU4-TS-44-071725**								
Q2639-13	OU4-TS-44-071725	SOIL	Aluminum	11300		1.09	5.18	6.47	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Arsenic	17.3		0.25	1.04	1.29	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Barium	87.2		0.95	1.62	6.47	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Beryllium	0.61		0.032	0.097	0.39	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Cadmium	0.57		0.031	0.097	0.39	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Calcium	7160		14.4	32.4	129	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Chromium	16.7		0.061	0.16	0.65	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Cobalt	10.7		0.13	0.49	1.94	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Copper	51.4		0.28	1.04	1.29	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Iron	18000		5.17	5.18	6.47	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Lead	24.4		0.17	0.62	0.78	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Magnesium	4500		15.5	32.4	129	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Manganese	406		0.18	0.32	1.29	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Mercury	0.072		0.011	0.016	0.020	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Nickel	19.7		0.17	0.65	2.59	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Potassium	3870		35.9	104	129	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Silver	0.59	J	0.16	0.32	0.65	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Sodium	262		23.0	104	129	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Vanadium	27.8		0.32	1.29	2.59	mg/Kg
Q2639-13	OU4-TS-44-071725	SOIL	Zinc	78.6		0.30	0.65	2.59	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-38-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12800		1	0.89	4.22	5.28	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-36-0	Antimony	0.66	UN	1	0.23	0.66	2.64	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-38-2	Arsenic	10.8		1	0.20	0.85	1.06	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-39-3	Barium	90.4		1	0.77	1.32	5.28	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-41-7	Beryllium	0.70		1	0.026	0.079	0.32	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-43-9	Cadmium	0.79		1	0.025	0.079	0.32	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-70-2	Calcium	2880	*	1	11.7	26.4	106	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-47-3	Chromium	27.6		1	0.050	0.13	0.53	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-48-4	Cobalt	14.4		1	0.11	0.40	1.58	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-50-8	Copper	75.5		1	0.23	0.85	1.06	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7439-89-6	Iron	23300		1	4.21	4.22	5.28	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7439-92-1	Lead	30.3		1	0.14	0.51	0.63	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7439-95-4	Magnesium	5920	*	1	12.7	26.4	106	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7439-96-5	Manganese	371		1	0.15	0.26	1.06	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7439-97-6	Mercury	0.10	N	1	0.0090	0.012	0.016	mg/Kg	07/24/25 15:10	07/25/25 12:02	7471B	
7440-02-0	Nickel	25.3		1	0.14	0.53	2.11	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-09-7	Potassium	4440		1	29.2	84.5	106	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7782-49-2	Selenium	0.85	U	1	0.28	0.85	1.06	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-22-4	Silver	0.77		1	0.13	0.26	0.53	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-23-5	Sodium	119		1	18.8	84.5	106	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-28-0	Thallium	1.06	U	1	0.24	1.06	2.11	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-62-2	Vanadium	38.0		1	0.26	1.06	2.11	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050
7440-66-6	Zinc	91.0	N	1	0.24	0.53	2.11	mg/Kg	07/21/25 10:05	07/22/25 17:52	6010D	SW3050

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

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

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-39-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13200		1	0.93	4.41	5.51	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-36-0	Antimony	0.69	UN	1	0.24	0.69	2.76	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-38-2	Arsenic	11.2		1	0.21	0.88	1.10	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-39-3	Barium	92.6		1	0.81	1.38	5.51	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-41-7	Beryllium	0.74		1	0.028	0.083	0.33	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-43-9	Cadmium	0.81		1	0.026	0.083	0.33	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-70-2	Calcium	2990	*	1	12.2	27.6	110	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-47-3	Chromium	28.7		1	0.052	0.14	0.55	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-48-4	Cobalt	15.4		1	0.11	0.41	1.65	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-50-8	Copper	83.2		1	0.24	0.88	1.10	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7439-89-6	Iron	23900		1	4.40	4.41	5.51	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7439-92-1	Lead	31.7		1	0.14	0.53	0.66	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7439-95-4	Magnesium	5910	*	1	13.2	27.6	110	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7439-96-5	Manganese	397		1	0.15	0.28	1.10	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7439-97-6	Mercury	0.011	JN	1	0.0090	0.013	0.016	mg/Kg	07/24/25 15:10	07/25/25 12:05	7471B	
7440-02-0	Nickel	25.8		1	0.14	0.55	2.20	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-09-7	Potassium	4410		1	30.5	88.2	110	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7782-49-2	Selenium	0.88	U	1	0.29	0.88	1.10	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-22-4	Silver	0.58		1	0.13	0.28	0.55	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-23-5	Sodium	118		1	19.6	88.2	110	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-28-0	Thallium	1.10	U	1	0.25	1.10	2.20	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-62-2	Vanadium	37.4		1	0.28	1.10	2.20	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050
7440-66-6	Zinc	92.0	N	1	0.25	0.55	2.20	mg/Kg	07/21/25 10:05	07/22/25 17:56	6010D	SW3050

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

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

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-40-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12500		1	0.90	4.29	5.36	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-36-0	Antimony	0.67	UN	1	0.24	0.67	2.68	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-38-2	Arsenic	10.5		1	0.20	0.86	1.07	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-39-3	Barium	86.8		1	0.78	1.34	5.36	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-41-7	Beryllium	0.67		1	0.027	0.080	0.32	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-43-9	Cadmium	0.72		1	0.026	0.080	0.32	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-70-2	Calcium	2940	*	1	11.9	26.8	107	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-47-3	Chromium	25.8		1	0.050	0.13	0.54	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-48-4	Cobalt	13.8		1	0.11	0.40	1.61	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-50-8	Copper	73.3		1	0.24	0.86	1.07	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7439-89-6	Iron	22900		1	4.28	4.29	5.36	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7439-92-1	Lead	28.8		1	0.14	0.52	0.64	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7439-95-4	Magnesium	5640	*	1	12.9	26.8	107	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7439-96-5	Manganese	371		1	0.15	0.27	1.07	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7439-97-6	Mercury	0.037	N	1	0.0090	0.013	0.016	mg/Kg	07/24/25 15:10	07/25/25 12:07	7471B	
7440-02-0	Nickel	24.4		1	0.14	0.54	2.15	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-09-7	Potassium	4220		1	29.7	85.8	107	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7782-49-2	Selenium	0.86	U	1	0.28	0.86	1.07	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-22-4	Silver	0.75		1	0.13	0.27	0.54	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-23-5	Sodium	112		1	19.1	85.8	107	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-28-0	Thallium	1.07	U	1	0.25	1.07	2.15	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-62-2	Vanadium	35.5		1	0.27	1.07	2.15	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050
7440-66-6	Zinc	87.8	N	1	0.25	0.54	2.15	mg/Kg	07/21/25 10:05	07/22/25 18:00	6010D	SW3050

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

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

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

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-41-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12700		1	0.99	4.69	5.86	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-36-0	Antimony	0.73	UN	1	0.26	0.73	2.93	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-38-2	Arsenic	10.8		1	0.22	0.94	1.17	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-39-3	Barium	91.1		1	0.86	1.47	5.86	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-41-7	Beryllium	0.69		1	0.029	0.088	0.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-43-9	Cadmium	0.62		1	0.028	0.088	0.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-70-2	Calcium	3150	*	1	13.0	29.3	117	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-47-3	Chromium	27.2		1	0.055	0.15	0.59	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-48-4	Cobalt	14.1		1	0.12	0.44	1.76	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-50-8	Copper	76.2		1	0.26	0.94	1.17	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7439-89-6	Iron	23300		1	4.68	4.69	5.86	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7439-92-1	Lead	28.6		1	0.15	0.56	0.70	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7439-95-4	Magnesium	5760	*	1	14.1	29.3	117	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7439-96-5	Manganese	382		1	0.16	0.29	1.17	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7439-97-6	Mercury	0.086	N	1	0.0090	0.013	0.016	mg/Kg	07/24/25 15:10	07/25/25 12:09	7471B	
7440-02-0	Nickel	24.5		1	0.15	0.59	2.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-09-7	Potassium	4280		1	32.5	93.8	117	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7782-49-2	Selenium	0.94	U	1	0.31	0.94	1.17	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-22-4	Silver	0.78		1	0.14	0.29	0.59	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-23-5	Sodium	111	J	1	20.9	93.8	117	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-28-0	Thallium	1.17	U	1	0.27	1.17	2.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-62-2	Vanadium	36.0		1	0.29	1.17	2.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	6010D	SW3050
7440-66-6	Zinc	89.9	N	1	0.27	0.59	2.35	mg/Kg	07/21/25 10:05	07/22/25 18:13	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

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-42-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	60.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13900		1	1.31	6.23	7.79	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-36-0	Antimony	0.97	UN	1	0.34	0.97	3.89	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-38-2	Arsenic	18.4		1	0.30	1.25	1.56	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-39-3	Barium	105		1	1.14	1.95	7.79	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-41-7	Beryllium	0.91		1	0.039	0.12	0.47	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-43-9	Cadmium	0.54		1	0.037	0.12	0.47	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-70-2	Calcium	6640	*	1	17.3	38.9	156	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-47-3	Chromium	21.3		1	0.073	0.20	0.78	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-48-4	Cobalt	13.8		1	0.16	0.58	2.34	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-50-8	Copper	55.4		1	0.34	1.25	1.56	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7439-89-6	Iron	22700		1	6.21	6.23	7.79	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7439-92-1	Lead	27.9		1	0.20	0.75	0.93	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7439-95-4	Magnesium	5270	*	1	18.7	38.9	156	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7439-96-5	Manganese	465		1	0.22	0.39	1.56	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7439-97-6	Mercury	0.10	N	1	0.011	0.016	0.020	mg/Kg	07/24/25 15:10	07/25/25 12:16	7471B	
7440-02-0	Nickel	25.4		1	0.20	0.78	3.11	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-09-7	Potassium	4890		1	43.1	125	156	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7782-49-2	Selenium	1.25	U	1	0.41	1.25	1.56	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-22-4	Silver	1.04		1	0.19	0.39	0.78	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-23-5	Sodium	358		1	27.7	125	156	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-28-0	Thallium	0.63	J	1	0.36	1.56	3.11	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-62-2	Vanadium	34.3		1	0.39	1.56	3.11	mg/Kg	07/21/25 10:05	07/23/25 15:01	6010D	SW3050
7440-66-6	Zinc	88.1	N	1	0.36	0.78	3.11	mg/Kg	07/21/25 10:05	07/23/25 15:01	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

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-43-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-11	Matrix:	SOIL
Level (low/med):	low	% Solid:	58

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13700		1	1.25	5.97	7.46	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-36-0	Antimony	0.93	UN	1	0.33	0.93	3.73	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-38-2	Arsenic	21.0		1	0.28	1.19	1.49	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-39-3	Barium	106		1	1.09	1.87	7.46	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-41-7	Beryllium	0.73		1	0.037	0.11	0.45	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-43-9	Cadmium	0.65		1	0.036	0.11	0.45	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-70-2	Calcium	7990	*	1	16.6	37.3	149	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-47-3	Chromium	20.9		1	0.070	0.19	0.75	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-48-4	Cobalt	13.1		1	0.15	0.56	2.24	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-50-8	Copper	60.1		1	0.33	1.19	1.49	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7439-89-6	Iron	22300		1	5.96	5.97	7.46	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7439-92-1	Lead	30.7		1	0.19	0.72	0.90	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7439-95-4	Magnesium	5520	*	1	17.9	37.3	149	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7439-96-5	Manganese	467		1	0.21	0.37	1.49	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7439-97-6	Mercury	0.079	N	1	0.012	0.017	0.022	mg/Kg	07/24/25 15:10	07/25/25 12:19	7471B	
7440-02-0	Nickel	23.8		1	0.19	0.75	2.99	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-09-7	Potassium	4610		1	41.3	119	149	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7782-49-2	Selenium	1.19	U	1	0.39	1.19	1.49	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-22-4	Silver	0.94		1	0.18	0.37	0.75	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-23-5	Sodium	287		1	26.6	119	149	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-28-0	Thallium	1.49	U	1	0.34	1.49	2.99	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-62-2	Vanadium	32.6		1	0.37	1.49	2.99	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050
7440-66-6	Zinc	89.4	N	1	0.34	0.75	2.99	mg/Kg	07/21/25 10:05	07/22/25 18:22	6010D	SW3050

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

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

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

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-44-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-13	Matrix:	SOIL
Level (low/med):	low	% Solid:	64.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11300		1	1.09	5.18	6.47	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-36-0	Antimony	0.81	UN	1	0.28	0.81	3.24	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-38-2	Arsenic	17.3		1	0.25	1.04	1.29	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-39-3	Barium	87.2		1	0.95	1.62	6.47	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-41-7	Beryllium	0.61		1	0.032	0.097	0.39	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-43-9	Cadmium	0.57		1	0.031	0.097	0.39	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-70-2	Calcium	7160	*	1	14.4	32.4	129	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-47-3	Chromium	16.7		1	0.061	0.16	0.65	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-48-4	Cobalt	10.7		1	0.13	0.49	1.94	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-50-8	Copper	51.4		1	0.28	1.04	1.29	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7439-89-6	Iron	18000		1	5.17	5.18	6.47	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7439-92-1	Lead	24.4		1	0.17	0.62	0.78	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7439-95-4	Magnesium	4500	*	1	15.5	32.4	129	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7439-96-5	Manganese	406		1	0.18	0.32	1.29	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7439-97-6	Mercury	0.072	N	1	0.011	0.016	0.020	mg/Kg	07/24/25 15:10	07/25/25 12:21	7471B	
7440-02-0	Nickel	19.7		1	0.17	0.65	2.59	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-09-7	Potassium	3870		1	35.9	104	129	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7782-49-2	Selenium	1.04	U	1	0.34	1.04	1.29	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-22-4	Silver	0.59	J	1	0.16	0.32	0.65	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-23-5	Sodium	262		1	23.0	104	129	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-28-0	Thallium	1.29	U	1	0.30	1.29	2.59	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-62-2	Vanadium	27.8		1	0.32	1.29	2.59	mg/Kg	07/21/25 10:05	07/22/25 18:26	6010D	SW3050
7440-66-6	Zinc	78.6	N	1	0.30	0.65	2.59	mg/Kg	07/21/25 10:05	07/22/25 18:26	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
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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: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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
ICV39	Mercury	4.08	4.0	102	90 - 110	CV	07/25/2025	11:13	LB136613

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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
CCV47	Mercury	4.98	5.0	100	90 - 110	CV	07/25/2025	11:17	LB136613
CCV48	Mercury	4.86	5.0	97	90 - 110	CV	07/25/2025	12:12	LB136613
CCV49	Mercury	5.12	5.0	102	90 - 110	CV	07/25/2025	12:39	LB136613
CCV50	Mercury	5.00	5.0	100	90 - 110	CV	07/25/2025	12:53	LB136613

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	8040	8000	100	90 - 110	P	07/22/2025	12:03	LB136571
	Antimony	4100	4000	103	90 - 110	P	07/22/2025	12:03	LB136571
	Arsenic	3880	4000	97	90 - 110	P	07/22/2025	12:03	LB136571
	Barium	8140	8000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Beryllium	203	200	102	90 - 110	P	07/22/2025	12:03	LB136571
	Cadmium	1950	2000	98	90 - 110	P	07/22/2025	12:03	LB136571
	Calcium	20300	20000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Chromium	819	800	102	90 - 110	P	07/22/2025	12:03	LB136571
	Cobalt	2030	2000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Copper	1030	1000	103	90 - 110	P	07/22/2025	12:03	LB136571
	Iron	4060	4000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Lead	3800	4000	95	90 - 110	P	07/22/2025	12:03	LB136571
	Magnesium	20200	20000	101	90 - 110	P	07/22/2025	12:03	LB136571
	Manganese	2030	2000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Nickel	2040	2000	102	90 - 110	P	07/22/2025	12:03	LB136571
	Potassium	19900	20000	99	90 - 110	P	07/22/2025	12:03	LB136571
	Selenium	3880	4000	97	90 - 110	P	07/22/2025	12:03	LB136571
	Silver	1040	1000	104	90 - 110	P	07/22/2025	12:03	LB136571
	Sodium	19600	20000	98	90 - 110	P	07/22/2025	12:03	LB136571
	Thallium	3770	4000	94	90 - 110	P	07/22/2025	12:03	LB136571
	Vanadium	2010	2000	100	90 - 110	P	07/22/2025	12:03	LB136571
	Zinc	2050	2000	102	90 - 110	P	07/22/2025	12:03	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	108	100	108	80 - 120	P	07/22/2025	12:10	LB136571
	Antimony	52.5	50.0	105	80 - 120	P	07/22/2025	12:10	LB136571
	Arsenic	21.8	20.0	109	80 - 120	P	07/22/2025	12:10	LB136571
	Barium	101	100	102	80 - 120	P	07/22/2025	12:10	LB136571
	Beryllium	6.30	6.0	105	80 - 120	P	07/22/2025	12:10	LB136571
	Cadmium	5.75	6.0	96	80 - 120	P	07/22/2025	12:10	LB136571
	Calcium	2130	2000	107	80 - 120	P	07/22/2025	12:10	LB136571
	Chromium	10.8	10.0	108	80 - 120	P	07/22/2025	12:10	LB136571
	Cobalt	29.8	30.0	99	80 - 120	P	07/22/2025	12:10	LB136571
	Copper	21.7	20.0	108	80 - 120	P	07/22/2025	12:10	LB136571
	Iron	107	100	107	80 - 120	P	07/22/2025	12:10	LB136571
	Lead	13.2	12.0	110	80 - 120	P	07/22/2025	12:10	LB136571
	Magnesium	2200	2000	110	80 - 120	P	07/22/2025	12:10	LB136571
	Manganese	22.0	20.0	110	80 - 120	P	07/22/2025	12:10	LB136571
	Nickel	40.9	40.0	102	80 - 120	P	07/22/2025	12:10	LB136571
	Potassium	2100	2000	105	80 - 120	P	07/22/2025	12:10	LB136571
	Selenium	21.7	20.0	109	80 - 120	P	07/22/2025	12:10	LB136571
	Silver	10.4	10.0	104	80 - 120	P	07/22/2025	12:10	LB136571
	Sodium	1840	2000	92	80 - 120	P	07/22/2025	12:10	LB136571
	Thallium	39.5	40.0	99	80 - 120	P	07/22/2025	12:10	LB136571
	Vanadium	40.4	40.0	101	80 - 120	P	07/22/2025	12:10	LB136571
	Zinc	42.6	40.0	106	80 - 120	P	07/22/2025	12:10	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	07/22/2025	13:00	LB136571
	Antimony	5050	5000	101	90 - 110	P	07/22/2025	13:00	LB136571
	Arsenic	5010	5000	100	90 - 110	P	07/22/2025	13:00	LB136571
	Barium	10100	10000	101	90 - 110	P	07/22/2025	13:00	LB136571
	Beryllium	247	250	99	90 - 110	P	07/22/2025	13:00	LB136571
	Cadmium	2470	2500	99	90 - 110	P	07/22/2025	13:00	LB136571
	Calcium	25500	25000	102	90 - 110	P	07/22/2025	13:00	LB136571
	Chromium	984	1000	98	90 - 110	P	07/22/2025	13:00	LB136571
	Cobalt	2480	2500	99	90 - 110	P	07/22/2025	13:00	LB136571
	Copper	1260	1250	101	90 - 110	P	07/22/2025	13:00	LB136571
	Iron	5030	5000	101	90 - 110	P	07/22/2025	13:00	LB136571
	Lead	4920	5000	98	90 - 110	P	07/22/2025	13:00	LB136571
	Magnesium	25000	25000	100	90 - 110	P	07/22/2025	13:00	LB136571
	Manganese	2530	2500	101	90 - 110	P	07/22/2025	13:00	LB136571
	Nickel	2490	2500	100	90 - 110	P	07/22/2025	13:00	LB136571
	Potassium	24900	25000	100	90 - 110	P	07/22/2025	13:00	LB136571
	Selenium	5030	5000	101	90 - 110	P	07/22/2025	13:00	LB136571
	Silver	1260	1250	100	90 - 110	P	07/22/2025	13:00	LB136571
	Sodium	24500	25000	98	90 - 110	P	07/22/2025	13:00	LB136571
	Thallium	5170	5000	103	90 - 110	P	07/22/2025	13:00	LB136571
	Vanadium	2500	2500	100	90 - 110	P	07/22/2025	13:00	LB136571
	Zinc	2530	2500	101	90 - 110	P	07/22/2025	13:00	LB136571
CCV02	Aluminum	10100	10000	101	90 - 110	P	07/22/2025	14:05	LB136571
	Antimony	5150	5000	103	90 - 110	P	07/22/2025	14:05	LB136571
	Arsenic	5090	5000	102	90 - 110	P	07/22/2025	14:05	LB136571
	Barium	10500	10000	105	90 - 110	P	07/22/2025	14:05	LB136571
	Beryllium	250	250	100	90 - 110	P	07/22/2025	14:05	LB136571
	Cadmium	2490	2500	100	90 - 110	P	07/22/2025	14:05	LB136571
	Calcium	26000	25000	104	90 - 110	P	07/22/2025	14:05	LB136571
	Chromium	976	1000	98	90 - 110	P	07/22/2025	14:05	LB136571
	Cobalt	2510	2500	100	90 - 110	P	07/22/2025	14:05	LB136571
	Copper	1280	1250	102	90 - 110	P	07/22/2025	14:05	LB136571
	Iron	5020	5000	100	90 - 110	P	07/22/2025	14:05	LB136571
	Lead	4970	5000	99	90 - 110	P	07/22/2025	14:05	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	24700	25000	99	90 - 110	P	07/22/2025	14:05	LB136571
	Manganese	2570	2500	103	90 - 110	P	07/22/2025	14:05	LB136571
	Nickel	2520	2500	101	90 - 110	P	07/22/2025	14:05	LB136571
	Potassium	25600	25000	102	90 - 110	P	07/22/2025	14:05	LB136571
	Selenium	5100	5000	102	90 - 110	P	07/22/2025	14:05	LB136571
	Silver	1280	1250	102	90 - 110	P	07/22/2025	14:05	LB136571
	Sodium	23100	25000	93	90 - 110	P	07/22/2025	14:05	LB136571
	Thallium	4810	5000	96	90 - 110	P	07/22/2025	14:05	LB136571
	Vanadium	2510	2500	100	90 - 110	P	07/22/2025	14:05	LB136571
	Zinc	2570	2500	103	90 - 110	P	07/22/2025	14:05	LB136571
CCV03	Aluminum	10500	10000	105	90 - 110	P	07/22/2025	15:20	LB136571
	Antimony	5250	5000	105	90 - 110	P	07/22/2025	15:20	LB136571
	Arsenic	5210	5000	104	90 - 110	P	07/22/2025	15:20	LB136571
	Barium	10600	10000	106	90 - 110	P	07/22/2025	15:20	LB136571
	Beryllium	262	250	105	90 - 110	P	07/22/2025	15:20	LB136571
	Cadmium	2560	2500	102	90 - 110	P	07/22/2025	15:20	LB136571
	Calcium	26800	25000	107	90 - 110	P	07/22/2025	15:20	LB136571
	Chromium	1010	1000	101	90 - 110	P	07/22/2025	15:20	LB136571
	Cobalt	2560	2500	103	90 - 110	P	07/22/2025	15:20	LB136571
	Copper	1310	1250	104	90 - 110	P	07/22/2025	15:20	LB136571
	Iron	5150	5000	103	90 - 110	P	07/22/2025	15:20	LB136571
	Lead	5110	5000	102	90 - 110	P	07/22/2025	15:20	LB136571
	Magnesium	25900	25000	104	90 - 110	P	07/22/2025	15:20	LB136571
	Manganese	2660	2500	107	90 - 110	P	07/22/2025	15:20	LB136571
	Nickel	2590	2500	103	90 - 110	P	07/22/2025	15:20	LB136571
	Potassium	25800	25000	103	90 - 110	P	07/22/2025	15:20	LB136571
	Selenium	5230	5000	104	90 - 110	P	07/22/2025	15:20	LB136571
	Silver	1310	1250	105	90 - 110	P	07/22/2025	15:20	LB136571
	Sodium	23600	25000	94	90 - 110	P	07/22/2025	15:20	LB136571
	Thallium	5070	5000	102	90 - 110	P	07/22/2025	15:20	LB136571
	Vanadium	2610	2500	104	90 - 110	P	07/22/2025	15:20	LB136571
	Zinc	2650	2500	106	90 - 110	P	07/22/2025	15:20	LB136571
CCV04	Aluminum	10500	10000	105	90 - 110	P	07/22/2025	16:13	LB136571
	Antimony	5280	5000	106	90 - 110	P	07/22/2025	16:13	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	5220	5000	104	90 - 110	P	07/22/2025	16:13	LB136571
	Barium	10800	10000	108	90 - 110	P	07/22/2025	16:13	LB136571
	Beryllium	257	250	103	90 - 110	P	07/22/2025	16:13	LB136571
	Cadmium	2560	2500	102	90 - 110	P	07/22/2025	16:13	LB136571
	Calcium	27000	25000	108	90 - 110	P	07/22/2025	16:13	LB136571
	Chromium	1010	1000	101	90 - 110	P	07/22/2025	16:13	LB136571
	Cobalt	2570	2500	103	90 - 110	P	07/22/2025	16:13	LB136571
	Copper	1310	1250	105	90 - 110	P	07/22/2025	16:13	LB136571
	Iron	5270	5000	105	90 - 110	P	07/22/2025	16:13	LB136571
	Lead	5100	5000	102	90 - 110	P	07/22/2025	16:13	LB136571
	Magnesium	25900	25000	104	90 - 110	P	07/22/2025	16:13	LB136571
	Manganese	2670	2500	107	90 - 110	P	07/22/2025	16:13	LB136571
	Nickel	2590	2500	104	90 - 110	P	07/22/2025	16:13	LB136571
	Potassium	26500	25000	106	90 - 110	P	07/22/2025	16:13	LB136571
	Selenium	5240	5000	105	90 - 110	P	07/22/2025	16:13	LB136571
	Silver	1320	1250	105	90 - 110	P	07/22/2025	16:13	LB136571
	Sodium	23800	25000	95	90 - 110	P	07/22/2025	16:13	LB136571
	Thallium	5150	5000	103	90 - 110	P	07/22/2025	16:13	LB136571
	Vanadium	2620	2500	105	90 - 110	P	07/22/2025	16:13	LB136571
	Zinc	2660	2500	106	90 - 110	P	07/22/2025	16:13	LB136571
CCV05	Aluminum	10400	10000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Antimony	5210	5000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Arsenic	5170	5000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Barium	10700	10000	107	90 - 110	P	07/22/2025	17:14	LB136571
	Beryllium	263	250	105	90 - 110	P	07/22/2025	17:14	LB136571
	Cadmium	2560	2500	102	90 - 110	P	07/22/2025	17:14	LB136571
	Calcium	27100	25000	108	90 - 110	P	07/22/2025	17:14	LB136571
	Chromium	1020	1000	102	90 - 110	P	07/22/2025	17:14	LB136571
	Cobalt	2560	2500	103	90 - 110	P	07/22/2025	17:14	LB136571
	Copper	1300	1250	104	90 - 110	P	07/22/2025	17:14	LB136571
	Iron	5300	5000	106	90 - 110	P	07/22/2025	17:14	LB136571
	Lead	5120	5000	102	90 - 110	P	07/22/2025	17:14	LB136571
	Magnesium	26100	25000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Manganese	2680	2500	107	90 - 110	P	07/22/2025	17:14	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	2590	2500	103	90 - 110	P	07/22/2025	17:14	LB136571
	Potassium	26000	25000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Selenium	5180	5000	104	90 - 110	P	07/22/2025	17:14	LB136571
	Silver	1320	1250	106	90 - 110	P	07/22/2025	17:14	LB136571
	Sodium	23800	25000	95	90 - 110	P	07/22/2025	17:14	LB136571
	Thallium	5000	5000	100	90 - 110	P	07/22/2025	17:14	LB136571
	Vanadium	2610	2500	104	90 - 110	P	07/22/2025	17:14	LB136571
	Zinc	2650	2500	106	90 - 110	P	07/22/2025	17:14	LB136571
CCV06	Aluminum	10500	10000	105	90 - 110	P	07/22/2025	18:05	LB136571
	Antimony	5240	5000	105	90 - 110	P	07/22/2025	18:05	LB136571
	Arsenic	5170	5000	103	90 - 110	P	07/22/2025	18:05	LB136571
	Barium	10700	10000	107	90 - 110	P	07/22/2025	18:05	LB136571
	Beryllium	264	250	106	90 - 110	P	07/22/2025	18:05	LB136571
	Cadmium	2560	2500	102	90 - 110	P	07/22/2025	18:05	LB136571
	Calcium	27100	25000	108	90 - 110	P	07/22/2025	18:05	LB136571
	Chromium	1040	1000	104	90 - 110	P	07/22/2025	18:05	LB136571
	Cobalt	2570	2500	103	90 - 110	P	07/22/2025	18:05	LB136571
	Copper	1300	1250	104	90 - 110	P	07/22/2025	18:05	LB136571
	Iron	5390	5000	108	90 - 110	P	07/22/2025	18:05	LB136571
	Lead	5120	5000	102	90 - 110	P	07/22/2025	18:05	LB136571
	Magnesium	26400	25000	106	90 - 110	P	07/22/2025	18:05	LB136571
	Manganese	2700	2500	108	90 - 110	P	07/22/2025	18:05	LB136571
	Nickel	2590	2500	104	90 - 110	P	07/22/2025	18:05	LB136571
	Potassium	26300	25000	105	90 - 110	P	07/22/2025	18:05	LB136571
	Selenium	5170	5000	103	90 - 110	P	07/22/2025	18:05	LB136571
	Silver	1330	1250	107	90 - 110	P	07/22/2025	18:05	LB136571
	Sodium	24600	25000	98	90 - 110	P	07/22/2025	18:05	LB136571
	Thallium	4640	5000	93	90 - 110	P	07/22/2025	18:05	LB136571
	Vanadium	2630	2500	105	90 - 110	P	07/22/2025	18:05	LB136571
	Zinc	2690	2500	108	90 - 110	P	07/22/2025	18:05	LB136571
CCV07	Aluminum	10400	10000	104	90 - 110	P	07/22/2025	18:54	LB136571
	Antimony	5250	5000	105	90 - 110	P	07/22/2025	18:54	LB136571
	Arsenic	5190	5000	104	90 - 110	P	07/22/2025	18:54	LB136571
	Barium	10600	10000	106	90 - 110	P	07/22/2025	18:54	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	267	250	107	90 - 110	P	07/22/2025	18:54	LB136571
	Cadmium	2570	2500	103	90 - 110	P	07/22/2025	18:54	LB136571
	Calcium	26900	25000	107	90 - 110	P	07/22/2025	18:54	LB136571
	Chromium	1010	1000	101	90 - 110	P	07/22/2025	18:54	LB136571
	Cobalt	2580	2500	103	90 - 110	P	07/22/2025	18:54	LB136571
	Copper	1310	1250	105	90 - 110	P	07/22/2025	18:54	LB136571
	Iron	5140	5000	103	90 - 110	P	07/22/2025	18:54	LB136571
	Lead	5130	5000	103	90 - 110	P	07/22/2025	18:54	LB136571
	Magnesium	26200	25000	105	90 - 110	P	07/22/2025	18:54	LB136571
	Manganese	2680	2500	107	90 - 110	P	07/22/2025	18:54	LB136571
	Nickel	2600	2500	104	90 - 110	P	07/22/2025	18:54	LB136571
	Potassium	25200	25000	101	90 - 110	P	07/22/2025	18:54	LB136571
	Selenium	5190	5000	104	90 - 110	P	07/22/2025	18:54	LB136571
	Silver	1320	1250	105	90 - 110	P	07/22/2025	18:54	LB136571
	Sodium	23300	25000	93	90 - 110	P	07/22/2025	18:54	LB136571
	Thallium	4570	5000	91	90 - 110	P	07/22/2025	18:54	LB136571
	Vanadium	2620	2500	105	90 - 110	P	07/22/2025	18:54	LB136571
	Zinc	2650	2500	106	90 - 110	P	07/22/2025	18:54	LB136571
CCV08	Aluminum	10600	10000	106	90 - 110	P	07/22/2025	19:19	LB136571
	Antimony	5340	5000	107	90 - 110	P	07/22/2025	19:19	LB136571
	Arsenic	5260	5000	105	90 - 110	P	07/22/2025	19:19	LB136571
	Barium	10800	10000	108	90 - 110	P	07/22/2025	19:19	LB136571
	Beryllium	270	250	108	90 - 110	P	07/22/2025	19:19	LB136571
	Cadmium	2580	2500	103	90 - 110	P	07/22/2025	19:19	LB136571
	Calcium	27200	25000	109	90 - 110	P	07/22/2025	19:19	LB136571
	Chromium	1050	1000	105	90 - 110	P	07/22/2025	19:19	LB136571
	Cobalt	2600	2500	104	90 - 110	P	07/22/2025	19:19	LB136571
	Copper	1320	1250	105	90 - 110	P	07/22/2025	19:19	LB136571
	Iron	5340	5000	107	90 - 110	P	07/22/2025	19:19	LB136571
	Lead	5150	5000	103	90 - 110	P	07/22/2025	19:19	LB136571
	Magnesium	26600	25000	106	90 - 110	P	07/22/2025	19:19	LB136571
	Manganese	2720	2500	109	90 - 110	P	07/22/2025	19:19	LB136571
	Nickel	2610	2500	104	90 - 110	P	07/22/2025	19:19	LB136571
	Potassium	25900	25000	104	90 - 110	P	07/22/2025	19:19	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	5290	5000	106	90 - 110	P	07/22/2025	19:19	LB136571
	Silver	1330	1250	107	90 - 110	P	07/22/2025	19:19	LB136571
	Sodium	24500	25000	98	90 - 110	P	07/22/2025	19:19	LB136571
	Thallium	5010	5000	100	90 - 110	P	07/22/2025	19:19	LB136571
	Vanadium	2660	2500	106	90 - 110	P	07/22/2025	19:19	LB136571
	Zinc	2710	2500	108	90 - 110	P	07/22/2025	19:19	LB136571

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	7880	8000	98	90 - 110	P	07/23/2025	12:57	LB136588
	Antimony	4090	4000	102	90 - 110	P	07/23/2025	12:57	LB136588
	Arsenic	3870	4000	97	90 - 110	P	07/23/2025	12:57	LB136588
	Barium	7950	8000	99	90 - 110	P	07/23/2025	12:57	LB136588
	Beryllium	200	200	100	90 - 110	P	07/23/2025	12:57	LB136588
	Cadmium	2010	2000	100	90 - 110	P	07/23/2025	12:57	LB136588
	Calcium	20000	20000	100	90 - 110	P	07/23/2025	12:57	LB136588
	Chromium	783	800	98	90 - 110	P	07/23/2025	12:57	LB136588
	Cobalt	1960	2000	98	90 - 110	P	07/23/2025	12:57	LB136588
	Copper	1010	1000	101	90 - 110	P	07/23/2025	12:57	LB136588
	Iron	4000	4000	100	90 - 110	P	07/23/2025	12:57	LB136588
	Lead	3970	4000	99	90 - 110	P	07/23/2025	12:57	LB136588
	Magnesium	19600	20000	98	90 - 110	P	07/23/2025	12:57	LB136588
	Manganese	2000	2000	100	90 - 110	P	07/23/2025	12:57	LB136588
	Nickel	1970	2000	98	90 - 110	P	07/23/2025	12:57	LB136588
	Potassium	19700	20000	99	90 - 110	P	07/23/2025	12:57	LB136588
	Selenium	3890	4000	97	90 - 110	P	07/23/2025	12:57	LB136588
	Silver	972	1000	97	90 - 110	P	07/23/2025	12:57	LB136588
	Sodium	19200	20000	96	90 - 110	P	07/23/2025	12:57	LB136588
	Thallium	3780	4000	94	90 - 110	P	07/23/2025	12:57	LB136588
	Vanadium	1970	2000	98	90 - 110	P	07/23/2025	12:57	LB136588
	Zinc	2010	2000	100	90 - 110	P	07/23/2025	12:57	LB136588

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	103	100	103	80 - 120	P	07/23/2025	13:02	LB136588
	Antimony	54.1	50.0	108	80 - 120	P	07/23/2025	13:02	LB136588
	Arsenic	19.7	20.0	99	80 - 120	P	07/23/2025	13:02	LB136588
	Barium	99.8	100	100	80 - 120	P	07/23/2025	13:02	LB136588
	Beryllium	6.33	6.0	106	80 - 120	P	07/23/2025	13:02	LB136588
	Cadmium	5.27	6.0	88	80 - 120	P	07/23/2025	13:02	LB136588
	Calcium	2110	2000	106	80 - 120	P	07/23/2025	13:02	LB136588
	Chromium	8.67	10.0	87	80 - 120	P	07/23/2025	13:02	LB136588
	Cobalt	29.0	30.0	97	80 - 120	P	07/23/2025	13:02	LB136588
	Copper	21.5	20.0	108	80 - 120	P	07/23/2025	13:02	LB136588
	Iron	113	100	112	80 - 120	P	07/23/2025	13:02	LB136588
	Lead	11.0	12.0	91	80 - 120	P	07/23/2025	13:02	LB136588
	Magnesium	2140	2000	107	80 - 120	P	07/23/2025	13:02	LB136588
	Manganese	22.2	20.0	111	80 - 120	P	07/23/2025	13:02	LB136588
	Nickel	40.9	40.0	102	80 - 120	P	07/23/2025	13:02	LB136588
	Potassium	2140	2000	107	80 - 120	P	07/23/2025	13:02	LB136588
	Selenium	16.9	20.0	84	80 - 120	P	07/23/2025	13:02	LB136588
	Silver	10.6	10.0	106	80 - 120	P	07/23/2025	13:02	LB136588
	Sodium	1860	2000	93	80 - 120	P	07/23/2025	13:02	LB136588
	Thallium	38.1	40.0	95	80 - 120	P	07/23/2025	13:02	LB136588
	Vanadium	38.5	40.0	96	80 - 120	P	07/23/2025	13:02	LB136588
	Zinc	43.0	40.0	108	80 - 120	P	07/23/2025	13:02	LB136588

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	10100	10000	101	90 - 110	P	07/23/2025	13:42	LB136588
	Antimony	5100	5000	102	90 - 110	P	07/23/2025	13:42	LB136588
	Arsenic	5050	5000	101	90 - 110	P	07/23/2025	13:42	LB136588
	Barium	10200	10000	102	90 - 110	P	07/23/2025	13:42	LB136588
	Beryllium	265	250	106	90 - 110	P	07/23/2025	13:42	LB136588
	Cadmium	2470	2500	99	90 - 110	P	07/23/2025	13:42	LB136588
	Calcium	26000	25000	104	90 - 110	P	07/23/2025	13:42	LB136588
	Chromium	977	1000	98	90 - 110	P	07/23/2025	13:42	LB136588
	Cobalt	2490	2500	100	90 - 110	P	07/23/2025	13:42	LB136588
	Copper	1270	1250	101	90 - 110	P	07/23/2025	13:42	LB136588
	Iron	4930	5000	99	90 - 110	P	07/23/2025	13:42	LB136588
	Lead	4940	5000	99	90 - 110	P	07/23/2025	13:42	LB136588
	Magnesium	25000	25000	100	90 - 110	P	07/23/2025	13:42	LB136588
	Manganese	2570	2500	103	90 - 110	P	07/23/2025	13:42	LB136588
	Nickel	2500	2500	100	90 - 110	P	07/23/2025	13:42	LB136588
	Potassium	24800	25000	99	90 - 110	P	07/23/2025	13:42	LB136588
	Selenium	5080	5000	102	90 - 110	P	07/23/2025	13:42	LB136588
	Silver	1270	1250	102	90 - 110	P	07/23/2025	13:42	LB136588
	Sodium	23700	25000	95	90 - 110	P	07/23/2025	13:42	LB136588
	Thallium	5000	5000	100	90 - 110	P	07/23/2025	13:42	LB136588
	Vanadium	2520	2500	101	90 - 110	P	07/23/2025	13:42	LB136588
	Zinc	2550	2500	102	90 - 110	P	07/23/2025	13:42	LB136588
CCV02	Aluminum	10100	10000	101	90 - 110	P	07/23/2025	14:35	LB136588
	Antimony	5130	5000	103	90 - 110	P	07/23/2025	14:35	LB136588
	Arsenic	5130	5000	103	90 - 110	P	07/23/2025	14:35	LB136588
	Barium	10200	10000	102	90 - 110	P	07/23/2025	14:35	LB136588
	Beryllium	256	250	102	90 - 110	P	07/23/2025	14:35	LB136588
	Cadmium	2480	2500	99	90 - 110	P	07/23/2025	14:35	LB136588
	Calcium	25800	25000	103	90 - 110	P	07/23/2025	14:35	LB136588
	Chromium	973	1000	97	90 - 110	P	07/23/2025	14:35	LB136588
	Cobalt	2490	2500	100	90 - 110	P	07/23/2025	14:35	LB136588
	Copper	1280	1250	102	90 - 110	P	07/23/2025	14:35	LB136588
	Iron	5060	5000	101	90 - 110	P	07/23/2025	14:35	LB136588
	Lead	4940	5000	99	90 - 110	P	07/23/2025	14:35	LB136588

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	07/23/2025	14:35	LB136588
	Manganese	2560	2500	102	90 - 110	P	07/23/2025	14:35	LB136588
	Nickel	2500	2500	100	90 - 110	P	07/23/2025	14:35	LB136588
	Potassium	25400	25000	102	90 - 110	P	07/23/2025	14:35	LB136588
	Selenium	5140	5000	103	90 - 110	P	07/23/2025	14:35	LB136588
	Silver	1270	1250	102	90 - 110	P	07/23/2025	14:35	LB136588
	Sodium	24300	25000	97	90 - 110	P	07/23/2025	14:35	LB136588
	Thallium	4980	5000	100	90 - 110	P	07/23/2025	14:35	LB136588
	Vanadium	2510	2500	100	90 - 110	P	07/23/2025	14:35	LB136588
	Zinc	2570	2500	103	90 - 110	P	07/23/2025	14:35	LB136588
CCV03	Aluminum	9870	10000	99	90 - 110	P	07/23/2025	15:57	LB136588
	Antimony	5060	5000	101	90 - 110	P	07/23/2025	15:57	LB136588
	Arsenic	4960	5000	99	90 - 110	P	07/23/2025	15:57	LB136588
	Barium	10300	10000	103	90 - 110	P	07/23/2025	15:57	LB136588
	Beryllium	252	250	101	90 - 110	P	07/23/2025	15:57	LB136588
	Cadmium	2400	2500	96	90 - 110	P	07/23/2025	15:57	LB136588
	Calcium	25400	25000	102	90 - 110	P	07/23/2025	15:57	LB136588
	Chromium	946	1000	95	90 - 110	P	07/23/2025	15:57	LB136588
	Cobalt	2420	2500	97	90 - 110	P	07/23/2025	15:57	LB136588
	Copper	1240	1250	100	90 - 110	P	07/23/2025	15:57	LB136588
	Iron	4990	5000	100	90 - 110	P	07/23/2025	15:57	LB136588
	Lead	4800	5000	96	90 - 110	P	07/23/2025	15:57	LB136588
	Magnesium	24200	25000	97	90 - 110	P	07/23/2025	15:57	LB136588
	Manganese	2510	2500	100	90 - 110	P	07/23/2025	15:57	LB136588
	Nickel	2440	2500	98	90 - 110	P	07/23/2025	15:57	LB136588
	Potassium	25100	25000	101	90 - 110	P	07/23/2025	15:57	LB136588
	Selenium	4970	5000	100	90 - 110	P	07/23/2025	15:57	LB136588
	Silver	1240	1250	99	90 - 110	P	07/23/2025	15:57	LB136588
	Sodium	23700	25000	95	90 - 110	P	07/23/2025	15:57	LB136588
	Thallium	4650	5000	93	90 - 110	P	07/23/2025	15:57	LB136588
	Vanadium	2470	2500	99	90 - 110	P	07/23/2025	15:57	LB136588
	Zinc	2520	2500	101	90 - 110	P	07/23/2025	15:57	LB136588
CCV04	Aluminum	9890	10000	99	90 - 110	P	07/23/2025	17:00	LB136588
	Antimony	4850	5000	97	90 - 110	P	07/23/2025	17:00	LB136588

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	07/23/2025	17:00	LB136588
	Barium	10200	10000	102	90 - 110	P	07/23/2025	17:00	LB136588
	Beryllium	263	250	105	90 - 110	P	07/23/2025	17:00	LB136588
	Cadmium	2450	2500	98	90 - 110	P	07/23/2025	17:00	LB136588
	Calcium	25700	25000	103	90 - 110	P	07/23/2025	17:00	LB136588
	Chromium	975	1000	98	90 - 110	P	07/23/2025	17:00	LB136588
	Cobalt	2450	2500	98	90 - 110	P	07/23/2025	17:00	LB136588
	Copper	1240	1250	99	90 - 110	P	07/23/2025	17:00	LB136588
	Iron	4890	5000	98	90 - 110	P	07/23/2025	17:00	LB136588
	Lead	4860	5000	97	90 - 110	P	07/23/2025	17:00	LB136588
	Magnesium	24700	25000	99	90 - 110	P	07/23/2025	17:00	LB136588
	Manganese	2540	2500	101	90 - 110	P	07/23/2025	17:00	LB136588
	Nickel	2470	2500	99	90 - 110	P	07/23/2025	17:00	LB136588
	Potassium	24900	25000	100	90 - 110	P	07/23/2025	17:00	LB136588
	Selenium	4800	5000	96	90 - 110	P	07/23/2025	17:00	LB136588
	Silver	1240	1250	99	90 - 110	P	07/23/2025	17:00	LB136588
	Sodium	22600	25000	91	90 - 110	P	07/23/2025	17:00	LB136588
	Thallium	4620	5000	92	90 - 110	P	07/23/2025	17:00	LB136588
	Vanadium	2470	2500	99	90 - 110	P	07/23/2025	17:00	LB136588
	Zinc	2520	2500	101	90 - 110	P	07/23/2025	17:00	LB136588
CCV05	Aluminum	10100	10000	101	90 - 110	P	07/23/2025	17:49	LB136588
	Antimony	5070	5000	101	90 - 110	P	07/23/2025	17:49	LB136588
	Arsenic	5040	5000	101	90 - 110	P	07/23/2025	17:49	LB136588
	Barium	10300	10000	103	90 - 110	P	07/23/2025	17:49	LB136588
	Beryllium	267	250	107	90 - 110	P	07/23/2025	17:49	LB136588
	Cadmium	2480	2500	99	90 - 110	P	07/23/2025	17:49	LB136588
	Calcium	25700	25000	103	90 - 110	P	07/23/2025	17:49	LB136588
	Chromium	988	1000	99	90 - 110	P	07/23/2025	17:49	LB136588
	Cobalt	2490	2500	99	90 - 110	P	07/23/2025	17:49	LB136588
	Copper	1260	1250	101	90 - 110	P	07/23/2025	17:49	LB136588
	Iron	4940	5000	99	90 - 110	P	07/23/2025	17:49	LB136588
	Lead	4930	5000	98	90 - 110	P	07/23/2025	17:49	LB136588
	Magnesium	24900	25000	99	90 - 110	P	07/23/2025	17:49	LB136588
	Manganese	2570	2500	103	90 - 110	P	07/23/2025	17:49	LB136588

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	2500	2500	100	90 - 110	P	07/23/2025	17:49	LB136588
	Potassium	25100	25000	100	90 - 110	P	07/23/2025	17:49	LB136588
	Selenium	5050	5000	101	90 - 110	P	07/23/2025	17:49	LB136588
	Silver	1270	1250	102	90 - 110	P	07/23/2025	17:49	LB136588
	Sodium	23400	25000	94	90 - 110	P	07/23/2025	17:49	LB136588
	Thallium	4930	5000	98	90 - 110	P	07/23/2025	17:49	LB136588
	Vanadium	2520	2500	101	90 - 110	P	07/23/2025	17:49	LB136588
	Zinc	2570	2500	103	90 - 110	P	07/23/2025	17:49	LB136588
CCV06	Aluminum	9980	10000	100	90 - 110	P	07/23/2025	18:43	LB136588
	Antimony	5080	5000	102	90 - 110	P	07/23/2025	18:43	LB136588
	Arsenic	5040	5000	101	90 - 110	P	07/23/2025	18:43	LB136588
	Barium	10200	10000	102	90 - 110	P	07/23/2025	18:43	LB136588
	Beryllium	254	250	102	90 - 110	P	07/23/2025	18:43	LB136588
	Cadmium	2460	2500	98	90 - 110	P	07/23/2025	18:43	LB136588
	Calcium	25300	25000	101	90 - 110	P	07/23/2025	18:43	LB136588
	Chromium	979	1000	98	90 - 110	P	07/23/2025	18:43	LB136588
	Cobalt	2470	2500	99	90 - 110	P	07/23/2025	18:43	LB136588
	Copper	1260	1250	101	90 - 110	P	07/23/2025	18:43	LB136588
	Iron	5070	5000	101	90 - 110	P	07/23/2025	18:43	LB136588
	Lead	4880	5000	98	90 - 110	P	07/23/2025	18:43	LB136588
	Magnesium	24700	25000	99	90 - 110	P	07/23/2025	18:43	LB136588
	Manganese	2540	2500	102	90 - 110	P	07/23/2025	18:43	LB136588
	Nickel	2480	2500	99	90 - 110	P	07/23/2025	18:43	LB136588
	Potassium	25200	25000	101	90 - 110	P	07/23/2025	18:43	LB136588
	Selenium	5050	5000	101	90 - 110	P	07/23/2025	18:43	LB136588
	Silver	1260	1250	101	90 - 110	P	07/23/2025	18:43	LB136588
	Sodium	23900	25000	95	90 - 110	P	07/23/2025	18:43	LB136588
	Thallium	4640	5000	93	90 - 110	P	07/23/2025	18:43	LB136588
	Vanadium	2510	2500	100	90 - 110	P	07/23/2025	18:43	LB136588
	Zinc	2540	2500	102	90 - 110	P	07/23/2025	18:43	LB136588
CCV07	Aluminum	9880	10000	99	90 - 110	P	07/23/2025	19:38	LB136588
	Antimony	5000	5000	100	90 - 110	P	07/23/2025	19:38	LB136588
	Arsenic	4940	5000	99	90 - 110	P	07/23/2025	19:38	LB136588
	Barium	9930	10000	99	90 - 110	P	07/23/2025	19:38	LB136588

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	252	250	101	90 - 110	P	07/23/2025	19:38	LB136588
	Cadmium	2420	2500	97	90 - 110	P	07/23/2025	19:38	LB136588
	Calcium	25100	25000	100	90 - 110	P	07/23/2025	19:38	LB136588
	Chromium	969	1000	97	90 - 110	P	07/23/2025	19:38	LB136588
	Cobalt	2440	2500	98	90 - 110	P	07/23/2025	19:38	LB136588
	Copper	1240	1250	99	90 - 110	P	07/23/2025	19:38	LB136588
	Iron	4900	5000	98	90 - 110	P	07/23/2025	19:38	LB136588
	Lead	4820	5000	96	90 - 110	P	07/23/2025	19:38	LB136588
	Magnesium	24500	25000	98	90 - 110	P	07/23/2025	19:38	LB136588
	Manganese	2510	2500	100	90 - 110	P	07/23/2025	19:38	LB136588
	Nickel	2440	2500	98	90 - 110	P	07/23/2025	19:38	LB136588
	Potassium	25200	25000	101	90 - 110	P	07/23/2025	19:38	LB136588
	Selenium	4970	5000	99	90 - 110	P	07/23/2025	19:38	LB136588
	Silver	1240	1250	99	90 - 110	P	07/23/2025	19:38	LB136588
	Sodium	22600	25000	90	90 - 110	P	07/23/2025	19:38	LB136588
	Thallium	4870	5000	97	90 - 110	P	07/23/2025	19:38	LB136588
	Vanadium	2480	2500	99	90 - 110	P	07/23/2025	19:38	LB136588
	Zinc	2510	2500	100	90 - 110	P	07/23/2025	19:38	LB136588
CCV08	Aluminum	9780	10000	98	90 - 110	P	07/23/2025	19:55	LB136588
	Antimony	5000	5000	100	90 - 110	P	07/23/2025	19:55	LB136588
	Arsenic	4940	5000	99	90 - 110	P	07/23/2025	19:55	LB136588
	Barium	10000	10000	100	90 - 110	P	07/23/2025	19:55	LB136588
	Beryllium	249	250	100	90 - 110	P	07/23/2025	19:55	LB136588
	Cadmium	2400	2500	96	90 - 110	P	07/23/2025	19:55	LB136588
	Calcium	24700	25000	99	90 - 110	P	07/23/2025	19:55	LB136588
	Chromium	963	1000	96	90 - 110	P	07/23/2025	19:55	LB136588
	Cobalt	2430	2500	97	90 - 110	P	07/23/2025	19:55	LB136588
	Copper	1230	1250	98	90 - 110	P	07/23/2025	19:55	LB136588
	Iron	4890	5000	98	90 - 110	P	07/23/2025	19:55	LB136588
	Lead	4810	5000	96	90 - 110	P	07/23/2025	19:55	LB136588
	Magnesium	24300	25000	97	90 - 110	P	07/23/2025	19:55	LB136588
	Manganese	2480	2500	99	90 - 110	P	07/23/2025	19:55	LB136588
	Nickel	2430	2500	97	90 - 110	P	07/23/2025	19:55	LB136588
	Potassium	24700	25000	99	90 - 110	P	07/23/2025	19:55	LB136588

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	4960	5000	99	90 - 110	P	07/23/2025	19:55	LB136588
	Silver	1240	1250	99	90 - 110	P	07/23/2025	19:55	LB136588
	Sodium	22800	25000	91	90 - 110	P	07/23/2025	19:55	LB136588
	Thallium	4560	5000	91	90 - 110	P	07/23/2025	19:55	LB136588
	Vanadium	2470	2500	99	90 - 110	P	07/23/2025	19:55	LB136588
	Zinc	2490	2500	100	90 - 110	P	07/23/2025	19:55	LB136588

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	Aluminum	102	100	102	65 - 135	P	07/22/2025	12:32	LB136571
	Antimony	54.5	50.0	109	65 - 135	P	07/22/2025	12:32	LB136571
	Arsenic	20.5	20.0	103	65 - 135	P	07/22/2025	12:32	LB136571
	Barium	99.5	100	100	65 - 135	P	07/22/2025	12:32	LB136571
	Beryllium	6.00	6.0	100	65 - 135	P	07/22/2025	12:32	LB136571
	Cadmium	5.65	6.0	94	65 - 135	P	07/22/2025	12:32	LB136571
	Calcium	2100	2000	105	65 - 135	P	07/22/2025	12:32	LB136571
	Chromium	10.5	10.0	106	65 - 135	P	07/22/2025	12:32	LB136571
	Cobalt	29.6	30.0	99	65 - 135	P	07/22/2025	12:32	LB136571
	Copper	21.6	20.0	108	65 - 135	P	07/22/2025	12:32	LB136571
	Iron	108	100	108	65 - 135	P	07/22/2025	12:32	LB136571
	Lead	12.4	12.0	103	65 - 135	P	07/22/2025	12:32	LB136571
	Magnesium	2170	2000	109	65 - 135	P	07/22/2025	12:32	LB136571
	Manganese	22.5	20.0	113	65 - 135	P	07/22/2025	12:32	LB136571
	Nickel	41.2	40.0	103	65 - 135	P	07/22/2025	12:32	LB136571
	Potassium	2030	2000	102	65 - 135	P	07/22/2025	12:32	LB136571
	Selenium	21.2	20.0	106	65 - 135	P	07/22/2025	12:32	LB136571
	Silver	9.69	10.0	97	65 - 135	P	07/22/2025	12:32	LB136571
	Sodium	1770	2000	88	65 - 135	P	07/22/2025	12:32	LB136571
	Thallium	39.6	40.0	99	65 - 135	P	07/22/2025	12:32	LB136571
	Vanadium	35.2	40.0	88	65 - 135	P	07/22/2025	12:32	LB136571
	Zinc	43.8	40.0	110	65 - 135	P	07/22/2025	12:32	LB136571
CRI01	Aluminum	111	100	111	65 - 135	P	07/23/2025	14:53	LB136588
	Antimony	48.7	50.0	98	65 - 135	P	07/23/2025	14:53	LB136588
	Arsenic	23.1	20.0	116	65 - 135	P	07/23/2025	14:53	LB136588
	Barium	104	100	104	65 - 135	P	07/23/2025	14:53	LB136588
	Beryllium	6.32	6.0	105	65 - 135	P	07/23/2025	14:53	LB136588
	Cadmium	5.67	6.0	94	65 - 135	P	07/23/2025	14:53	LB136588
	Calcium	2110	2000	106	65 - 135	P	07/23/2025	14:53	LB136588
	Chromium	9.46	10.0	95	65 - 135	P	07/23/2025	14:53	LB136588
	Cobalt	29.5	30.0	98	65 - 135	P	07/23/2025	14:53	LB136588
	Copper	21.6	20.0	108	65 - 135	P	07/23/2025	14:53	LB136588
	Iron	101	100	101	65 - 135	P	07/23/2025	14:53	LB136588
	Lead	11.3	12.0	94	65 - 135	P	07/23/2025	14:53	LB136588
	Magnesium	2090	2000	104	65 - 135	P	07/23/2025	14:53	LB136588
	Manganese	21.1	20.0	106	65 - 135	P	07/23/2025	14:53	LB136588

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	Nickel	39.9	40.0	100	65 - 135	P	07/23/2025	14:53	LB136588
	Potassium	2170	2000	109	65 - 135	P	07/23/2025	14:53	LB136588
	Selenium	15.8	20.0	79	65 - 135	P	07/23/2025	14:53	LB136588
	Silver	10.9	10.0	109	65 - 135	P	07/23/2025	14:53	LB136588
	Sodium	1970	2000	98	65 - 135	P	07/23/2025	14:53	LB136588
	Thallium	35.7	40.0	89	65 - 135	P	07/23/2025	14:53	LB136588
	Vanadium	38.4	40.0	96	65 - 135	P	07/23/2025	14:53	LB136588
	Zinc	42.1	40.0	105	65 - 135	P	07/23/2025	14:53	LB136588
CRA	Mercury	0.23	0.2	116	70 - 130	CV	07/25/2025	11:46	LB136613

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB39	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	07/25/2025	11:15	LB136613

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB47	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	07/25/2025	11:19	LB136613
CCB48	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	07/25/2025	12:14	LB136613
CCB49	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	07/25/2025	12:42	LB136613
CCB50	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	07/25/2025	12:56	LB136613

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	12:27	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	12:27	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	12:27	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	12:27	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	12:27	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	12:27	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	12:27	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	12:27	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	12:27	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	12:27	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	12:27	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	12:27	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	12:27	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	12:27	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	12:27	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	12:27	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	12:27	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	12:27	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	12:27	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	12:27	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	12:27	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	12:27	LB136571

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	13:05	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	13:05	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	13:05	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	13:05	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	13:05	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	13:05	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	13:05	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	13:05	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	13:05	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	13:05	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	13:05	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	13:05	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	13:05	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	13:05	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	13:05	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	13:05	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	13:05	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	13:05	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	13:05	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	13:05	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	13:05	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	13:05	LB136571
CCB02	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	14:09	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	14:09	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	14:09	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	14:09	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	14:09	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	14:09	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	14:09	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	14:09	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	14:09	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	14:09	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	14:09	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	14:09	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	14:09	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	14:09	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	14:09	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	14:09	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	14:09	LB136571

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	14:09	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	14:09	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	14:09	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	14:09	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	14:09	LB136571
CCB03	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	15:26	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	15:26	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	15:26	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	15:26	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	15:26	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	15:26	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	15:26	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	15:26	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	15:26	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	15:26	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	15:26	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	15:26	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	15:26	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	15:26	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	15:26	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	15:26	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	15:26	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	15:26	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	15:26	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	15:26	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	15:26	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	15:26	LB136571
CCB04	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	16:17	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	16:17	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	16:17	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	16:17	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	16:17	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	16:17	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	16:17	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	16:17	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	16:17	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	16:17	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	16:17	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	16:17	LB136571

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	16:17	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	16:17	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	16:17	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	16:17	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	16:17	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	16:17	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	16:17	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	16:17	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	16:17	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	16:17	LB136571
CCB05	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	17:18	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	17:18	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	17:18	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	17:18	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	17:18	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	17:18	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	17:18	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	17:18	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	17:18	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	17:18	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	17:18	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	17:18	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	17:18	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	17:18	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	17:18	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	17:18	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	17:18	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	17:18	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	17:18	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	17:18	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	17:18	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	17:18	LB136571
CCB06	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	18:09	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	18:09	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	18:09	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	18:09	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	18:09	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	18:09	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	18:09	LB136571

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	18:09	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	18:09	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	18:09	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	18:09	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	18:09	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	18:09	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	18:09	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	18:09	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	18:09	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	18:09	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	18:09	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	18:09	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	18:09	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	18:09	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	18:09	LB136571
CCB07	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	18:58	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	18:58	LB136571
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	18:58	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	18:58	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	18:58	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	18:58	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	18:58	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	18:58	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	18:58	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	18:58	LB136571
	Iron	25.2	+/-50	J	80.0	100	P	07/22/2025	18:58	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	18:58	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	18:58	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	18:58	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	18:58	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	18:58	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	18:58	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	18:58	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	18:58	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	18:58	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	18:58	LB136571
	Zinc	17.9	+/-20	J	15.0	40.0	P	07/22/2025	18:58	LB136571
CCB08	Aluminum	11.3	+/-50	U	80.0	100	P	07/22/2025	19:23	LB136571
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/22/2025	19:23	LB136571

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/22/2025	19:23	LB136571
	Barium	14.6	+/-50	U	25.0	100	P	07/22/2025	19:23	LB136571
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/22/2025	19:23	LB136571
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/22/2025	19:23	LB136571
	Calcium	234	+/-1000	U	500	2000	P	07/22/2025	19:23	LB136571
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/22/2025	19:23	LB136571
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/22/2025	19:23	LB136571
	Copper	4.60	+/-10	U	16.0	20.0	P	07/22/2025	19:23	LB136571
	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	19:23	LB136571
	Lead	2.30	+/-6	U	9.60	12.0	P	07/22/2025	19:23	LB136571
	Magnesium	244	+/-1000	U	500	2000	P	07/22/2025	19:23	LB136571
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/22/2025	19:23	LB136571
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/22/2025	19:23	LB136571
	Potassium	918	+/-1000	U	1600	2000	P	07/22/2025	19:23	LB136571
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/22/2025	19:23	LB136571
	Silver	1.62	+/-5	U	5.00	10.0	P	07/22/2025	19:23	LB136571
	Sodium	868	+/-1000	U	1000	2000	P	07/22/2025	19:23	LB136571
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/22/2025	19:23	LB136571
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/22/2025	19:23	LB136571
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/22/2025	19:23	LB136571

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	13:16	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	13:16	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	13:16	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	13:16	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	13:16	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	13:16	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	13:16	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	13:16	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	13:16	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	13:16	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	13:16	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	13:16	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	13:16	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	13:16	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	13:16	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	13:16	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	13:16	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	13:16	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	13:16	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	13:16	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	13:16	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	13:16	LB136588

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.6	+/-50	J	80.0	100	P	07/23/2025	13:46	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	13:46	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	13:46	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	13:46	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	13:46	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	13:46	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	13:46	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	13:46	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	13:46	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	13:46	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	13:46	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	13:46	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	13:46	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	13:46	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	13:46	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	13:46	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	13:46	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	13:46	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	13:46	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	13:46	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	13:46	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	13:46	LB136588
CCB02	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	14:44	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	14:44	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	14:44	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	14:44	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	14:44	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	14:44	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	14:44	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	14:44	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	14:44	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	14:44	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	14:44	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	14:44	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	14:44	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	14:44	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	14:44	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	14:44	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	14:44	LB136588

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	14:44	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	14:44	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	14:44	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	14:44	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	14:44	LB136588
CCB03	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	16:01	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	16:01	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	16:01	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	16:01	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	16:01	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	16:01	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	16:01	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	16:01	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	16:01	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	16:01	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	16:01	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	16:01	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	16:01	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	16:01	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	16:01	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	16:01	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	16:01	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	16:01	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	16:01	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	16:01	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	16:01	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	16:01	LB136588
CCB04	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	17:04	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	17:04	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	17:04	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	17:04	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	17:04	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	17:04	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	17:04	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	17:04	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	17:04	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	17:04	LB136588
	Iron	26.5	+/-50	J	80.0	100	P	07/23/2025	17:04	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	17:04	LB136588

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	17:04	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	17:04	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	17:04	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	17:04	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	17:04	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	17:04	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	17:04	LB136588
	Thallium	4.44	+/-20	J	20.0	40.0	P	07/23/2025	17:04	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	17:04	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	17:04	LB136588
CCB05	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	17:57	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	17:57	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	17:57	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	17:57	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	17:57	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	17:57	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	17:57	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	17:57	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	17:57	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	17:57	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	17:57	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	17:57	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	17:57	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	17:57	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	17:57	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	17:57	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	17:57	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	17:57	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	17:57	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	17:57	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	17:57	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	17:57	LB136588
CCB06	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	18:51	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	18:51	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	18:51	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	18:51	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	18:51	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	18:51	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	18:51	LB136588

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	18:51	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	18:51	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	18:51	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	18:51	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	18:51	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	18:51	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	18:51	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	18:51	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	18:51	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	18:51	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	18:51	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	18:51	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	18:51	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	18:51	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	18:51	LB136588
CCB07	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	19:47	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	19:47	LB136588
	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	19:47	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	19:47	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	19:47	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	19:47	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	19:47	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	19:47	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	19:47	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	19:47	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	19:47	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	19:47	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	19:47	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	19:47	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	19:47	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	19:47	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	19:47	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	19:47	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	19:47	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	19:47	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	19:47	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	19:47	LB136588
CCB08	Aluminum	11.3	+/-50	U	80.0	100	P	07/23/2025	20:04	LB136588
	Antimony	6.76	+/-25	U	12.5	50.0	P	07/23/2025	20:04	LB136588

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	15.0	20.0	P	07/23/2025	20:04	LB136588
	Barium	14.6	+/-50	U	25.0	100	P	07/23/2025	20:04	LB136588
	Beryllium	0.56	+/-3	U	1.50	6.00	P	07/23/2025	20:04	LB136588
	Cadmium	0.50	+/-3	U	1.50	6.00	P	07/23/2025	20:04	LB136588
	Calcium	234	+/-1000	U	500	2000	P	07/23/2025	20:04	LB136588
	Chromium	2.12	+/-5	U	5.00	10.0	P	07/23/2025	20:04	LB136588
	Cobalt	2.26	+/-15	U	7.50	30.0	P	07/23/2025	20:04	LB136588
	Copper	4.60	+/-10	U	16.0	20.0	P	07/23/2025	20:04	LB136588
	Iron	23.4	+/-50	U	80.0	100	P	07/23/2025	20:04	LB136588
	Lead	2.30	+/-6	U	9.60	12.0	P	07/23/2025	20:04	LB136588
	Magnesium	244	+/-1000	U	500	2000	P	07/23/2025	20:04	LB136588
	Manganese	5.94	+/-10	U	15.0	20.0	P	07/23/2025	20:04	LB136588
	Nickel	3.06	+/-20	U	10.0	40.0	P	07/23/2025	20:04	LB136588
	Potassium	918	+/-1000	U	1600	2000	P	07/23/2025	20:04	LB136588
	Selenium	9.64	+/-10	U	16.0	20.0	P	07/23/2025	20:04	LB136588
	Silver	1.62	+/-5	U	5.00	10.0	P	07/23/2025	20:04	LB136588
	Sodium	868	+/-1000	U	1000	2000	P	07/23/2025	20:04	LB136588
	Thallium	4.38	+/-20	U	20.0	40.0	P	07/23/2025	20:04	LB136588
	Vanadium	6.26	+/-20	U	20.0	40.0	P	07/23/2025	20:04	LB136588
	Zinc	16.7	+/-20	U	15.0	40.0	P	07/23/2025	20:04	LB136588

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Metals
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PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169010BL		**SOLID**		**Batch Number:**		**PB169010**		**Prep Date:**	**07/24/2025**	
	Mercury	0.0070	<0.012	U	0.010	0.012	CV	07/25/2025	11:53	LB136613

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Metals
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PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168933BL		**SOLID**		**Batch Number:**		**PB168933**		**Prep Date:**	**07/21/2025**	
	Aluminum	0.84	<2.5	U	4.00	5.00	P	07/22/2025	16:22	LB136571
	Antimony	0.22	<1.25	U	0.63	2.50	P	07/22/2025	16:22	LB136571
	Arsenic	0.19	<0.5	U	0.80	1.00	P	07/22/2025	16:22	LB136571
	Barium	0.73	<2.5	U	1.25	5.00	P	07/22/2025	16:22	LB136571
	Beryllium	0.025	<0.15	U	0.075	0.30	P	07/22/2025	16:22	LB136571
	Cadmium	0.024	<0.15	U	0.075	0.30	P	07/22/2025	16:22	LB136571
	Calcium	11.1	<50	U	25.0	100	P	07/22/2025	16:22	LB136571
	Chromium	0.047	<0.25	U	0.13	0.50	P	07/22/2025	16:22	LB136571
	Cobalt	0.10	<0.75	U	0.38	1.50	P	07/22/2025	16:22	LB136571
	Copper	0.22	<0.5	U	0.80	1.00	P	07/22/2025	16:22	LB136571
	Iron	3.99	<2.5	U	4.00	5.00	P	07/22/2025	16:22	LB136571
	Lead	0.13	<0.3	U	0.48	0.60	P	07/22/2025	16:22	LB136571
	Magnesium	12.0	<50	U	25.0	100	P	07/22/2025	16:22	LB136571
	Manganese	0.14	<0.5	U	0.25	1.00	P	07/22/2025	16:22	LB136571
	Nickel	0.13	<1	U	0.50	2.00	P	07/22/2025	16:22	LB136571
	Potassium	27.7	<50	U	80.0	100	P	07/22/2025	16:22	LB136571
	Selenium	0.26	<0.5	U	0.80	1.00	P	07/22/2025	16:22	LB136571
	Silver	0.12	<0.25	U	0.25	0.50	P	07/22/2025	16:22	LB136571
	Sodium	17.8	<50	U	80.0	100	P	07/22/2025	16:22	LB136571
	Thallium	0.23	<1	U	1.00	2.00	P	07/22/2025	16:22	LB136571
	Vanadium	0.25	<1	U	1.00	2.00	P	07/22/2025	16:22	LB136571
	Zinc	0.23	<1	U	0.50	2.00	P	07/22/2025	16:22	LB136571

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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	252000	255000	99	216000	294000	07/22/2025	12:37	LB136571
	Antimony	-2.10			-50	50	07/22/2025	12:37	LB136571
	Arsenic	10.7			-20	20	07/22/2025	12:37	LB136571
	Barium	2.26	6.0	38	-94	106	07/22/2025	12:37	LB136571
	Beryllium	0.54			-6	6	07/22/2025	12:37	LB136571
	Cadmium	-1.25	1.0	125	-5	7	07/22/2025	12:37	LB136571
	Calcium	242000	245000	99	208000	282000	07/22/2025	12:37	LB136571
	Chromium	55.9	52.0	108	42	62	07/22/2025	12:37	LB136571
	Cobalt	2.22			-30	30	07/22/2025	12:37	LB136571
	Copper	20.9	2.0	1045	-18	22	07/22/2025	12:37	LB136571
	Iron	102000	101000	101	85600	116500	07/22/2025	12:37	LB136571
	Lead	-3.81			-12	12	07/22/2025	12:37	LB136571
	Magnesium	256000	255000	100	216000	294000	07/22/2025	12:37	LB136571
	Manganese	7.79	7.0	111	-13	27	07/22/2025	12:37	LB136571
	Nickel	3.78	2.0	189	-38	42	07/22/2025	12:37	LB136571
	Potassium	199			0	0	07/22/2025	12:37	LB136571
	Selenium	-9.01			-20	20	07/22/2025	12:37	LB136571
	Silver	3.81			-10	10	07/22/2025	12:37	LB136571
	Sodium	63.1			0	0	07/22/2025	12:37	LB136571
	Thallium	9.30			-40	40	07/22/2025	12:37	LB136571
	Vanadium	4.76			-40	40	07/22/2025	12:37	LB136571
	Zinc	2.48			-40	40	07/22/2025	12:37	LB136571
ICSAB01	Aluminum	251000	247000	102	209000	285000	07/22/2025	12:48	LB136571
	Antimony	583	618	94	525	711	07/22/2025	12:48	LB136571
	Arsenic	103	104	99	88.4	120	07/22/2025	12:48	LB136571
	Barium	494	537	92	437	637	07/22/2025	12:48	LB136571
	Beryllium	474	495	96	420	570	07/22/2025	12:48	LB136571
	Cadmium	914	972	94	826	1120	07/22/2025	12:48	LB136571
	Calcium	243000	235000	103	199000	271000	07/22/2025	12:48	LB136571
	Chromium	536	542	99	460	624	07/22/2025	12:48	LB136571
	Cobalt	480	476	101	404	548	07/22/2025	12:48	LB136571
	Copper	476	511	93	434	588	07/22/2025	12:48	LB136571
	Iron	101000	99300	102	84400	114500	07/22/2025	12:48	LB136571
	Lead	42.1	49.0	86	37	61	07/22/2025	12:48	LB136571
	Magnesium	255000	248000	103	210000	286000	07/22/2025	12:48	LB136571
	Manganese	486	507	96	430	584	07/22/2025	12:48	LB136571
	Nickel	961	954	101	810	1100	07/22/2025	12:48	LB136571
	Potassium	-46.0			0	0	07/22/2025	12:48	LB136571
	Selenium	40.7	46.0	88	26	66	07/22/2025	12:48	LB136571
	Silver	210	201	104	170	232	07/22/2025	12:48	LB136571
	Sodium	3.98			0	0	07/22/2025	12:48	LB136571
	Thallium	104	108	96	68	148	07/22/2025	12:48	LB136571

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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	461	491	94	417	565	07/22/2025	12:48	LB136571
	Zinc	1020	952	107	809	1095	07/22/2025	12:48	LB136571
ICSA01	Aluminum	260000	255000	102	216000	294000	07/23/2025	13:25	LB136588
	Antimony	-4.43			-50	50	07/23/2025	13:25	LB136588
	Arsenic	6.73			-20	20	07/23/2025	13:25	LB136588
	Barium	2.30	6.0	38	-94	106	07/23/2025	13:25	LB136588
	Beryllium	1.61			-6	6	07/23/2025	13:25	LB136588
	Cadmium	-0.76	1.0	76	-5	7	07/23/2025	13:25	LB136588
	Calcium	249000	245000	102	208000	282000	07/23/2025	13:25	LB136588
	Chromium	56.9	52.0	109	42	62	07/23/2025	13:25	LB136588
	Cobalt	2.28			-30	30	07/23/2025	13:25	LB136588
	Copper	20.3	2.0	1015	-18	22	07/23/2025	13:25	LB136588
	Iron	102000	101000	101	85600	116500	07/23/2025	13:25	LB136588
	Lead	-3.36			-12	12	07/23/2025	13:25	LB136588
	Magnesium	259000	255000	102	216000	294000	07/23/2025	13:25	LB136588
	Manganese	8.38	7.0	120	-13	27	07/23/2025	13:25	LB136588
	Nickel	3.84	2.0	192	-38	42	07/23/2025	13:25	LB136588
	Potassium	207			0	0	07/23/2025	13:25	LB136588
	Selenium	-4.02			-20	20	07/23/2025	13:25	LB136588
	Silver	1.88			-10	10	07/23/2025	13:25	LB136588
	Sodium	92.5			0	0	07/23/2025	13:25	LB136588
	Thallium	10.4			-40	40	07/23/2025	13:25	LB136588
	Vanadium	4.63			-40	40	07/23/2025	13:25	LB136588
	Zinc	2.01			-40	40	07/23/2025	13:25	LB136588
ICSAB01	Aluminum	250000	247000	101	209000	285000	07/23/2025	13:29	LB136588
	Antimony	583	618	94	525	711	07/23/2025	13:29	LB136588
	Arsenic	108	104	104	88.4	120	07/23/2025	13:29	LB136588
	Barium	491	537	91	437	637	07/23/2025	13:29	LB136588
	Beryllium	484	495	98	420	570	07/23/2025	13:29	LB136588
	Cadmium	907	972	93	826	1120	07/23/2025	13:29	LB136588
	Calcium	241000	235000	103	199000	271000	07/23/2025	13:29	LB136588
	Chromium	528	542	97	460	624	07/23/2025	13:29	LB136588
	Cobalt	474	476	100	404	548	07/23/2025	13:29	LB136588
	Copper	479	511	94	434	588	07/23/2025	13:29	LB136588
	Iron	99600	99300	100	84400	114500	07/23/2025	13:29	LB136588
	Lead	39.7	49.0	81	37	61	07/23/2025	13:29	LB136588
	Magnesium	251000	248000	101	210000	286000	07/23/2025	13:29	LB136588
	Manganese	486	507	96	430	584	07/23/2025	13:29	LB136588
	Nickel	952	954	100	810	1100	07/23/2025	13:29	LB136588
	Potassium	85.6			0	0	07/23/2025	13:29	LB136588
	Selenium	35.6	46.0	77	26	66	07/23/2025	13:29	LB136588
	Silver	208	201	104	170	232	07/23/2025	13:29	LB136588

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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	Sodium	30.1			0	0	07/23/2025	13:29	LB136588
	Thallium	103	108	95	68	148	07/23/2025	13:29	LB136588
	Vanadium	457	491	93	417	565	07/23/2025	13:29	LB136588
	Zinc	1010	952	106	809	1095	07/23/2025	13:29	LB136588

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2639

contract: NOBI03 **lab code:** ACE

matrix: Solid **sample id:** Q2651-01 **client id:** MH 2-1MS

Percent Solids for Sample: 94.5 **Spiked ID:** Q2651-01MS **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	3690		3040		97.1	675		P
Antimony	mg/Kg	79 - 114	21.8		2.34	U	38.8	56	N	P
Arsenic	mg/Kg	82 - 111	38.5		3.16		38.8	91		P
Barium	mg/Kg	83 - 113	24.4		13.7		9.7	110		P
Beryllium	mg/Kg	83 - 113	9.94		0.31		9.7	99		P
Cadmium	mg/Kg	82 - 113	9.45		0.28	U	9.7	97		P
Calcium	mg/Kg	81 - 116	411		817		48.5	-837		P
Chromium	mg/Kg	85 - 113	30.5		9.31		19.4	109		P
Cobalt	mg/Kg	85 - 112	13.3		2.95		9.7	107		P
Copper	mg/Kg	81 - 117	26.3		11.4		14.6	102		P
Iron	mg/Kg	81 - 118	8810		8440		150	248		P
Lead	mg/Kg	81 - 112	51.0		3.53		48.5	98		P
Magnesium	mg/Kg	78 - 115	761		878		97.1	-120		P
Manganese	mg/Kg	84 - 114	77.7		62.5		9.7	157		P
Nickel	mg/Kg	83 - 113	30.2		4.33		24.3	106		P
Potassium	mg/Kg	81 - 116	766		239		490	108		P
Selenium	mg/Kg	78 - 111	83.9		0.94	U	97.1	86		P
Silver	mg/Kg	82 - 112	3.76		0.29	J	3.6	96		P
Sodium	mg/Kg	83 - 118	216		73.5	J	150	95		P
Thallium	mg/Kg	83 - 111	89.0		0.24	J	97.1	91		P
Vanadium	mg/Kg	82 - 114	27.0		11.8		14.6	104		P
Zinc	mg/Kg	82 - 113	25.9		14.2		9.7	121	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2639

contract: NOBI03 **lab code:** ACE

matrix: Solid **sample id:** Q2651-01 **client id:** MH 2-1MSD

Percent Solids for Sample: 94.5 **Spiked ID:** Q2651-01MSD **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	3710		3040		95.3	707		P
Antimony	mg/Kg	79 - 114	22.2		2.34	U	38.1	58	N	P
Arsenic	mg/Kg	82 - 111	38.4		3.16		38.1	93		P
Barium	mg/Kg	83 - 113	24.4		13.7		9.5	112		P
Beryllium	mg/Kg	83 - 113	9.52		0.31		9.5	97		P
Cadmium	mg/Kg	82 - 113	9.35		0.28	U	9.5	98		P
Calcium	mg/Kg	81 - 116	377		817		47.7	-923		P
Chromium	mg/Kg	85 - 113	28.2		9.31		19.1	99		P
Cobalt	mg/Kg	85 - 112	13.2		2.95		9.5	108		P
Copper	mg/Kg	81 - 117	25.7		11.4		14.3	100		P
Iron	mg/Kg	81 - 118	8650		8440		140	155		P
Lead	mg/Kg	81 - 112	49.9		3.53		47.7	97		P
Magnesium	mg/Kg	78 - 115	761		878		95.3	-122		P
Manganese	mg/Kg	84 - 114	77.2		62.5		9.5	155		P
Nickel	mg/Kg	83 - 113	29.9		4.33		23.8	108		P
Potassium	mg/Kg	81 - 116	758		239		480	108		P
Selenium	mg/Kg	78 - 111	82.9		0.94	U	95.3	87		P
Silver	mg/Kg	82 - 112	3.81		0.29	J	3.6	98		P
Sodium	mg/Kg	83 - 118	215		73.5	J	140	101		P
Thallium	mg/Kg	83 - 111	84.7		0.24	J	95.3	89		P
Vanadium	mg/Kg	82 - 114	26.3		11.8		14.3	101		P
Zinc	mg/Kg	82 - 113	25.8		14.2		9.5	122	N	P

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metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2639

contract: NOBI03 **lab code:** ACE

matrix: Solid **sample id:** Q2689-01 **client id:** OR-03-07232025MS

Percent Solids for Sample: 92.8 **Spiked ID:** Q2689-01MS **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.33		0.032		0.26	115		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2639

contract: NOBI03 **lab code:** ACE

matrix: Solid **sample id:** Q2689-01 **client id:** OR-03-07232025MSD

Percent Solids for Sample: 92.8 **Spiked ID:** Q2689-01MSD **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.37		0.032		0.27	126	N	CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** MH 2-1A

Sample ID: Q2651-01 **Spiked ID:** Q2651-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	79 - 114	36.6		2.34	U	37.5	98		P
Zinc	mg/Kg	82 - 113	23.8		14.2		9.40	102		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** OR-03-07232025A

Sample ID: Q2689-01 **Spiked ID:** Q2689-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.34		0.032		0.29	107		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2651-01 **Client ID:** MH 2-1DUP

Percent Solids for Sample: 94.5 **Duplicate ID** Q2651-01DUP **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3040		3000		1		P
Antimony	mg/Kg	20	2.34	U	2.41	U			P
Arsenic	mg/Kg	20	3.16		3.15		0		P
Barium	mg/Kg	20	13.7		14.4		5		P
Beryllium	mg/Kg	20	0.31		0.30		5		P
Cadmium	mg/Kg	20	0.28	U	0.29	U			P
Calcium	mg/Kg	20	817		304		92	*	P
Chromium	mg/Kg	20	9.31		9.09		2		P
Cobalt	mg/Kg	20	2.95		3.20		8		P
Copper	mg/Kg	20	11.4		11.1		3		P
Iron	mg/Kg	20	8440		8350		1		P
Lead	mg/Kg	20	3.53		3.40		4		P
Magnesium	mg/Kg	20	878		564		44	*	P
Manganese	mg/Kg	20	62.5		65.8		5		P
Nickel	mg/Kg	20	4.33		4.24		2		P
Potassium	mg/Kg	20	239		246		3		P
Selenium	mg/Kg	20	0.94	U	0.96	U			P
Silver	mg/Kg	20	0.29	J	0.27	J	7		P
Sodium	mg/Kg	20	73.5	J	79.7	J	8		P
Thallium	mg/Kg	20	0.24	J	0.27	J	14		P
Vanadium	mg/Kg	20	11.8		11.7		1		P
Zinc	mg/Kg	20	14.2		14.9		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: Nobis Group **Level:** LOW **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2651-01MS **Client ID:** MH 2-1MSD

Percent Solids for Sample: 94.5 **Duplicate ID** Q2651-01MSD **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3690		3710		1		P
Antimony	mg/Kg	20	21.8		22.2		2		P
Arsenic	mg/Kg	20	38.5		38.4		0		P
Barium	mg/Kg	20	24.4		24.4		0		P
Beryllium	mg/Kg	20	9.94		9.52		4		P
Cadmium	mg/Kg	20	9.45		9.35		1		P
Calcium	mg/Kg	20	411		377		9		P
Chromium	mg/Kg	20	30.5		28.2		8		P
Cobalt	mg/Kg	20	13.3		13.2		1		P
Copper	mg/Kg	20	26.3		25.7		2		P
Iron	mg/Kg	20	8810		8650		2		P
Lead	mg/Kg	20	51.0		49.9		2		P
Magnesium	mg/Kg	20	761		761		0		P
Manganese	mg/Kg	20	77.7		77.2		1		P
Nickel	mg/Kg	20	30.2		29.9		1		P
Potassium	mg/Kg	20	766		758		1		P
Selenium	mg/Kg	20	83.9		82.9		1		P
Silver	mg/Kg	20	3.76		3.81		1		P
Sodium	mg/Kg	20	216		215		0		P
Thallium	mg/Kg	20	89.0		84.7		5		P
Vanadium	mg/Kg	20	27.0		26.3		3		P
Zinc	mg/Kg	20	25.9		25.8		0		P

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2689-01 **Client ID:** OR-03-07232025DUP

Percent Solids for Sample: 92.8 **Duplicate ID** Q2689-01DUP **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.032		0.038		17		CV

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2689-01MS **Client ID:** OR-03-07232025MSD

Percent Solids for Sample: 92.8 **Duplicate ID** Q2689-01MSD **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.33		0.37		12		CV

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168933BS							
Aluminum	mg/Kg	100	106		106	74 - 119	P
Antimony	mg/Kg	40.0	41.4		104	79 - 114	P
Arsenic	mg/Kg	40.0	39.5		99	82 - 111	P
Barium	mg/Kg	10.0	10.8		108	83 - 113	P
Beryllium	mg/Kg	10.0	10.9		109	83 - 113	P
Cadmium	mg/Kg	10.0	9.72		97	82 - 113	P
Calcium	mg/Kg	50.0	54.7	J	109	81 - 116	P
Chromium	mg/Kg	20.0	20.7		104	85 - 113	P
Cobalt	mg/Kg	10.0	10.2		102	85 - 112	P
Copper	mg/Kg	15.0	16.2		108	81 - 117	P
Iron	mg/Kg	150	155		103	81 - 118	P
Lead	mg/Kg	50.0	48.8		98	81 - 112	P
Magnesium	mg/Kg	100	105		105	78 - 115	P
Manganese	mg/Kg	10.0	10.9		110	84 - 114	P
Nickel	mg/Kg	25.0	25.9		104	83 - 113	P
Potassium	mg/Kg	500	499		100	81 - 116	P
Selenium	mg/Kg	100	99.6		100	78 - 111	P
Silver	mg/Kg	3.8	3.97		104	82 - 112	P
Sodium	mg/Kg	150	137		91	83 - 118	P
Thallium	mg/Kg	100	97.0		97	83 - 111	P
Vanadium	mg/Kg	15.0	15.6		104	82 - 114	P
Zinc	mg/Kg	10.0	11.0		110	82 - 113	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169010BS							
Mercury	mg/Kg	0.25	0.26		106	80 - 124	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MH 2-1L

Lab Name: Alliance **Contract:** NOBI03

Lab Code: ACE **Lb No.:** lb136571 **Lab Sample ID :** Q2651-01L **SDG No.:** Q2639

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	3040		3270		8		P
Antimony	2.34	U	11.7	U			P
Arsenic	3.16		3.24	J	2		P
Barium	13.7		14.7	J	7		P
Beryllium	0.31		0.35	J	13		P
Cadmium	0.28	U	1.40	U			P
Calcium	817		898		10		P
Chromium	9.31		9.98		7		P
Cobalt	2.95		2.91	J	1		P
Copper	11.4		12.7		11		P
Iron	8440		8760		4		P
Lead	3.53		3.77		7		P
Magnesium	878		970		10		P
Manganese	62.5		68.9		10		P
Nickel	4.33		4.26	J	2		P
Potassium	239		273	J	14		P
Selenium	0.94	U	4.68	U			P
Silver	0.29	J	2.34	U	100.0		P
Sodium	73.5	J	468	U	100.0		P
Thallium	0.24	J	9.36	U	100.0		P
Vanadium	11.8		12.3		4		P
Zinc	14.2		15.2		7		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-03-07232025L

Lab Name: Alliance **Contract:** NOBI03

Lab Code: ACE **Lb No.:** lb136613 **Lab Sample ID :** Q2689-01L **SDG No.:** Q2639

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.032		0.053	J	62		CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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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ICP INTERELEMENT CORRECTION FACTORS

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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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ICP INTERELEMENT CORRECTION FACTORS

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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:	**PB168933**						
PB168933BL	PB168933BL	MB	SOLID	07/21/2025	2.00	100.0	100.00
PB168933BS	PB168933BS	LCS	SOLID	07/21/2025	2.00	100.0	100.00
Q2639-01	OU4-TS-38-071725	SAM	SOLID	07/21/2025	2.35	100.0	80.60
Q2639-03	OU4-TS-39-071725	SAM	SOLID	07/21/2025	2.24	100.0	81.00
Q2639-05	OU4-TS-40-071725	SAM	SOLID	07/21/2025	2.31	100.0	80.70
Q2639-07	OU4-TS-41-071725	SAM	SOLID	07/21/2025	2.08	100.0	82.00
Q2639-09	OU4-TS-42-071725	SAM	SOLID	07/21/2025	2.13	100.0	60.30
Q2639-11	OU4-TS-43-071725	SAM	SOLID	07/21/2025	2.31	100.0	58.00
Q2639-13	OU4-TS-44-071725	SAM	SOLID	07/21/2025	2.38	100.0	64.90
Q2651-01DUP	MH 2-1DUP	DUP	SOLID	07/21/2025	2.20	100.0	94.50
Q2651-01MS	MH 2-1MS	MS	SOLID	07/21/2025	2.18	100.0	94.50
Q2651-01MSD	MH 2-1MSD	MSD	SOLID	07/21/2025	2.22	100.0	94.50

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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q2639

Contract: NOBI03 **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:	**PB169010**						
PB169010BL	PB169010BL	MB	SOLID	07/24/2025	0.57	35.0	100.00
PB169010BS	PB169010BS	LCS	SOLID	07/24/2025	0.55	35.0	100.00
Q2639-01	OU4-TS-38-071725	SAM	SOLID	07/24/2025	0.56	35.0	80.60
Q2639-03	OU4-TS-39-071725	SAM	SOLID	07/24/2025	0.53	35.0	81.00
Q2639-05	OU4-TS-40-071725	SAM	SOLID	07/24/2025	0.53	35.0	80.70
Q2639-07	OU4-TS-41-071725	SAM	SOLID	07/24/2025	0.52	35.0	82.00
Q2639-09	OU4-TS-42-071725	SAM	SOLID	07/24/2025	0.58	35.0	60.30
Q2639-11	OU4-TS-43-071725	SAM	SOLID	07/24/2025	0.56	35.0	58.00
Q2639-13	OU4-TS-44-071725	SAM	SOLID	07/24/2025	0.53	35.0	64.90
Q2689-01DUP	OR-03-07232025DUP	DUP	SOLID	07/24/2025	0.55	35.0	92.80
Q2689-01MS	OR-03-07232025MS	MS	SOLID	07/24/2025	0.59	35.0	92.80
Q2689-01MSD	OR-03-07232025MSD	MSD	SOLID	07/24/2025	0.55	35.0	92.80

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: ACE **Sdg no.:** Q2639

Instrument id number: **Method:** **Run number:** LB136571

Start date: 07/22/2025 **End date:** 07/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1111	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	1116	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	1120	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	1124	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	1128	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	1133	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1210	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	1227	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	1232	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	1237	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	1248	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	1300	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	1305	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	1405	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	1409	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	1520	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	1526	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	1613	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	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168933BL	PB168933BL	1	1622	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168933BS	PB168933BS	1	1649	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	1714	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	1718	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-01	OU4-TS-38-071725	1	1752	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-03	OU4-TS-39-071725	1	1756	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-05	OU4-TS-40-071725	1	1800	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	1805	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	1809	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-07	OU4-TS-41-071725	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-11	OU4-TS-43-071725	1	1822	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-13	OU4-TS-44-071725	1	1826	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2651-01DUP	MH 2-1DUP	1	1834	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2651-01L	MH 2-1L	5	1838	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2651-01MS	MH 2-1MS	1	1842	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2651-01MSD	MH 2-1MSD	1	1846	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2651-01A	MH 2-1A	1	1850	Sb,Zn
CCV07	CCV07	1	1854	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	1858	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	1919	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	1923	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: Nobis Group **Contract:** NOBI03

Lab code: ACE **Sdg no.:** Q2639

Instrument id number: **Method:** **Run number:** LB136588

Start date: 07/23/2025 **End date:** 07/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1128	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	1132	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	1137	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	1141	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	1145	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	1149	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	1257	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	1302	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	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1329	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	1342	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	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1444	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	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2639-09	OU4-TS-42-071725	1	1501	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	1557	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	1601	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	1700	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	1704	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	1749	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	1757	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	1843	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	1851	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	1938	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	1947	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	1955	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	2004	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

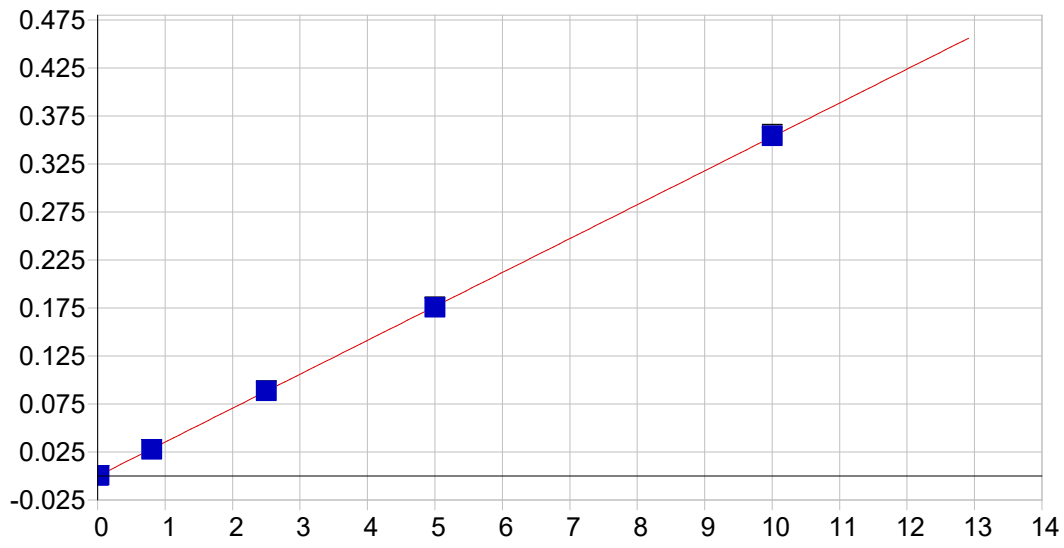
Lab code: ACE **Sdg no.:** Q2639

Instrument id number: **Method:** **Run number:** LB136613

Start date: 07/25/2025 **End date:** 07/25/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	HG
S0.2	S0.2	1	1100	HG
S2.5	S2.5	1	1103	HG
S5	S5	1	1105	HG
S7.5	S7.5	1	1107	HG
S10	S10	1	1109	HG
ICV39	ICV39	1	1113	HG
ICB39	ICB39	1	1115	HG
CCV47	CCV47	1	1117	HG
CCB47	CCB47	1	1119	HG
CRA	CRA	1	1146	HG
PB169010BL	PB169010BL	1	1153	HG
PB169010BS	PB169010BS	1	1158	HG
Q2639-01	OU4-TS-38-071725	1	1202	HG
Q2639-03	OU4-TS-39-071725	1	1205	HG
Q2639-05	OU4-TS-40-071725	1	1207	HG
Q2639-07	OU4-TS-41-071725	1	1209	HG
CCV48	CCV48	1	1212	HG
CCB48	CCB48	1	1214	HG
Q2639-09	OU4-TS-42-071725	1	1216	HG
Q2639-11	OU4-TS-43-071725	1	1219	HG
Q2639-13	OU4-TS-44-071725	1	1221	HG
Q2689-01DUP	OR-03-07232025DUP	1	1230	HG
Q2689-01MS	OR-03-07232025MS	1	1233	HG
Q2689-01MSD	OR-03-07232025MSD	1	1235	HG
CCV49	CCV49	1	1239	HG
CCB49	CCB49	1	1242	HG
Q2689-01L	OR-03-07232025L	5	1246	HG
Q2689-01A	OR-03-07232025A	1	1249	HG
CCV50	CCV50	1	1253	HG
CCB50	CCB50	1	1256	HG

METAL
RAW DATA

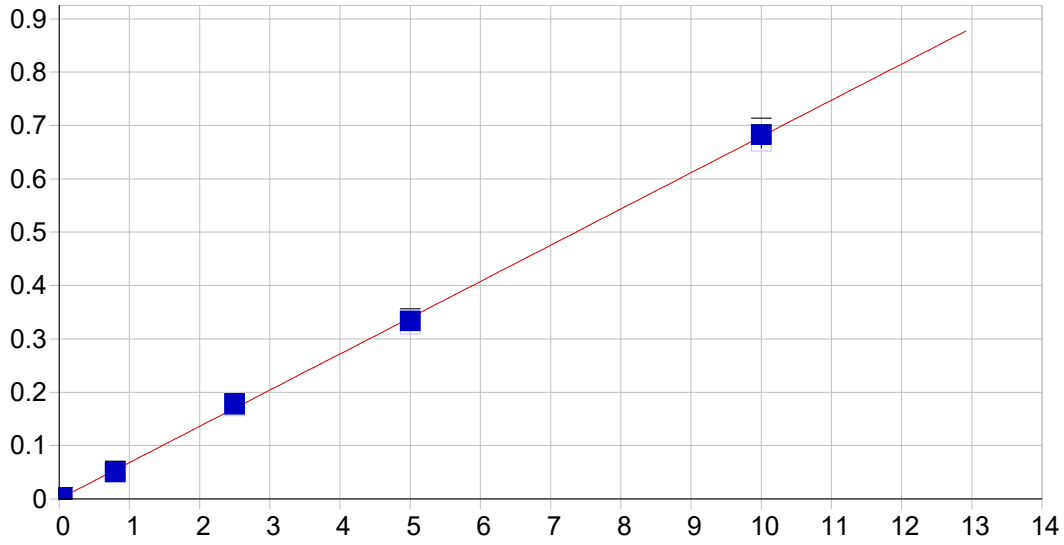


As 189.042 {479}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000047	Re-Slope:	1.000000
A1 (Gain):	0.035325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.002991		
Predicted MQL:	0.009969		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00005	.000	1
S1	.02000	.02075	.001	3.77	.00068	.000	1
S3	2.5000	2.5092	.009	.367	.08849	.000	1
S4	5.0000	4.9751	-.025	-.498	.17551	.000	1
S5	10.000	10.031	.031	.309	.35391	.002	1
S2	.80000	.78406	-.016	-1.99	.02762	.000	1

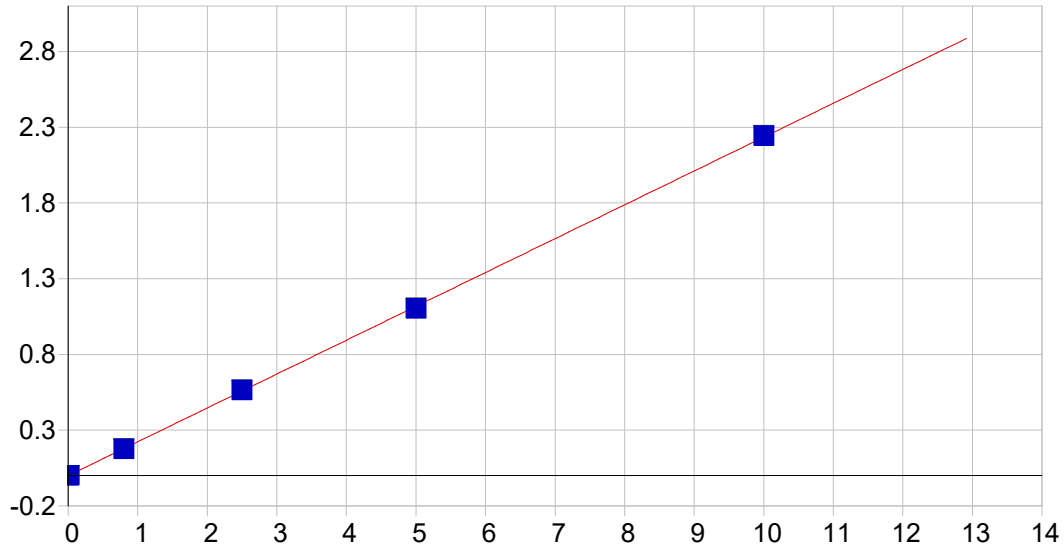


Tl 190.856 {477}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000125	Re-Slope:	1.000000
A1 (Gain):	0.067919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999686	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.001964		
Predicted MQL:	0.006546		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.04000	.04006	.000	.160	.00267	.000	1
S3	2.5000	2.6070	.107	4.28	.17407	.002	1
S4	5.0000	4.9046	-.095	-1.91	.32700	.005	1
S5	10.000	10.048	.048	.480	.67009	.012	1
S2	.80000	.74034	-.060	-7.46	.04941	.002	1

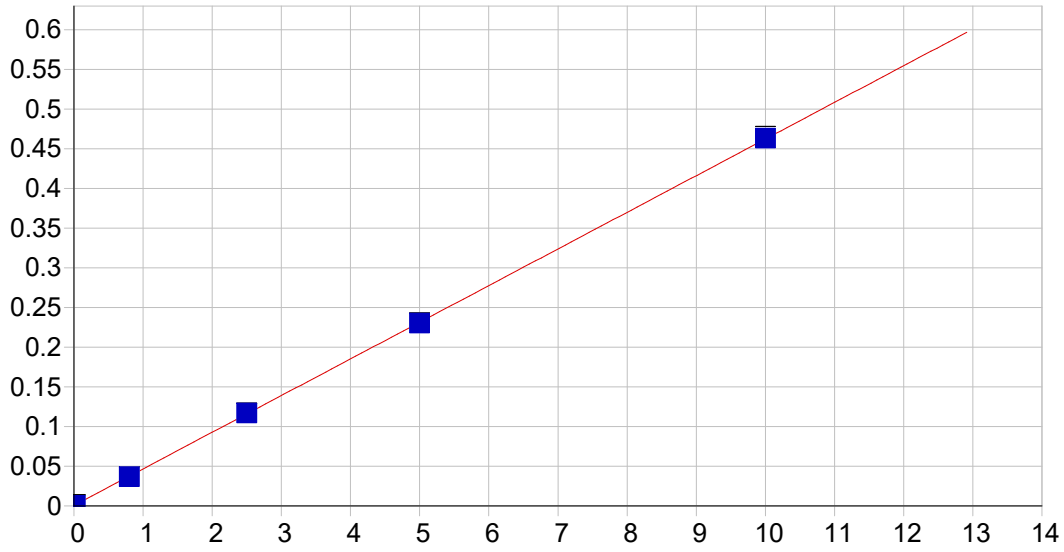


Pb 220.353 {453}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000035	Re-Slope:	1.000000
A1 (Gain):	0.223473	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.001264		
Predicted MQL:	0.004213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01200	.01244	.000	3.63	.00269	.000	1
S3	2.5000	2.5255	.025	1.02	.56377	.001	1
S4	5.0000	4.9409	-.059	-1.18	1.1030	.002	1
S5	10.000	10.042	.042	.422	2.2418	.002	1
S2	.80000	.79103	-.009	-1.12	.17656	.001	1

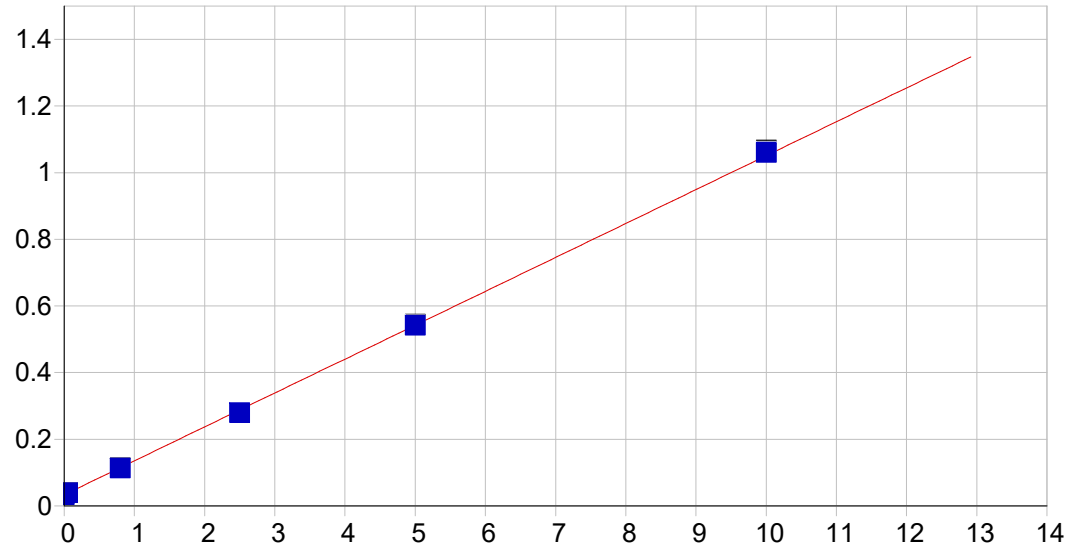


Se 196.090 {472}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000516	Re-Slope:	1.000000
A1 (Gain):	0.046189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.003858		
Predicted MQL:	0.012859		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00052	.000	1
S1	.02000	.01883	-.001	-5.83	.00139	.000	1
S3	2.5000	2.5215	.022	.860	.11695	.000	1
S4	5.0000	4.9724	-.028	-.551	.23013	.001	1
S5	10.000	10.022	.022	.223	.46331	.003	1
S2	.80000	.78488	-.015	-1.89	.03676	.000	1

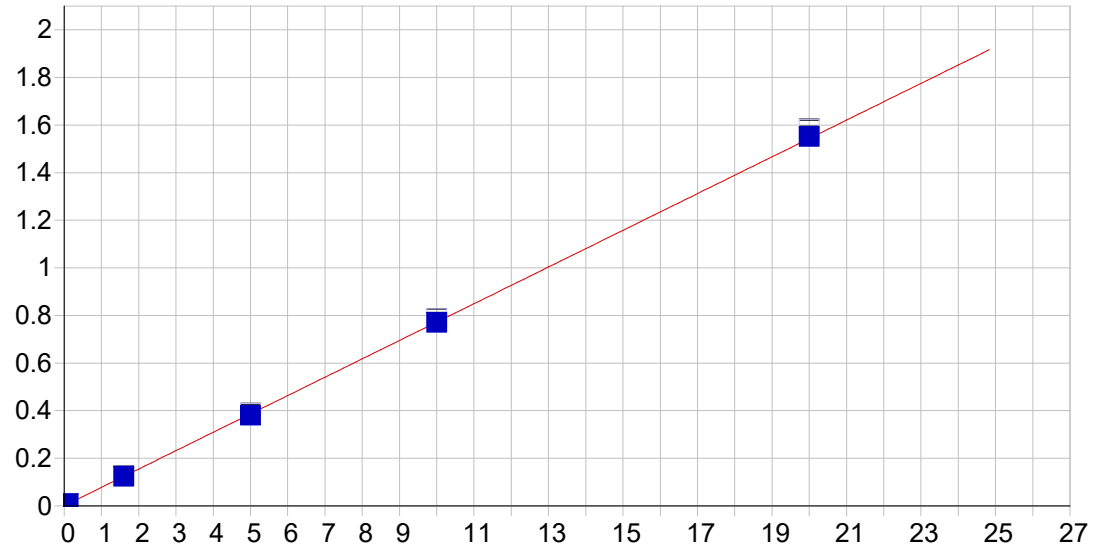


Sb 206.833 {463}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.033506	Re-Slope:	1.000000
A1 (Gain):	0.101739	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999833	Status:	OK.
Std Error of Est:	0.000069		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.03351	.000	1
S1	.05000	.06039	.010	20.8	.03966	.000	1
S3	2.5000	2.4178	-.082	-3.29	.28018	.000	1
S4	5.0000	4.9975	-.003	-.050	.54333	.002	1
S5	10.000	10.093	.093	.929	1.0631	.005	1
S2	.80000	.78147	-.019	-2.32	.11323	.000	1

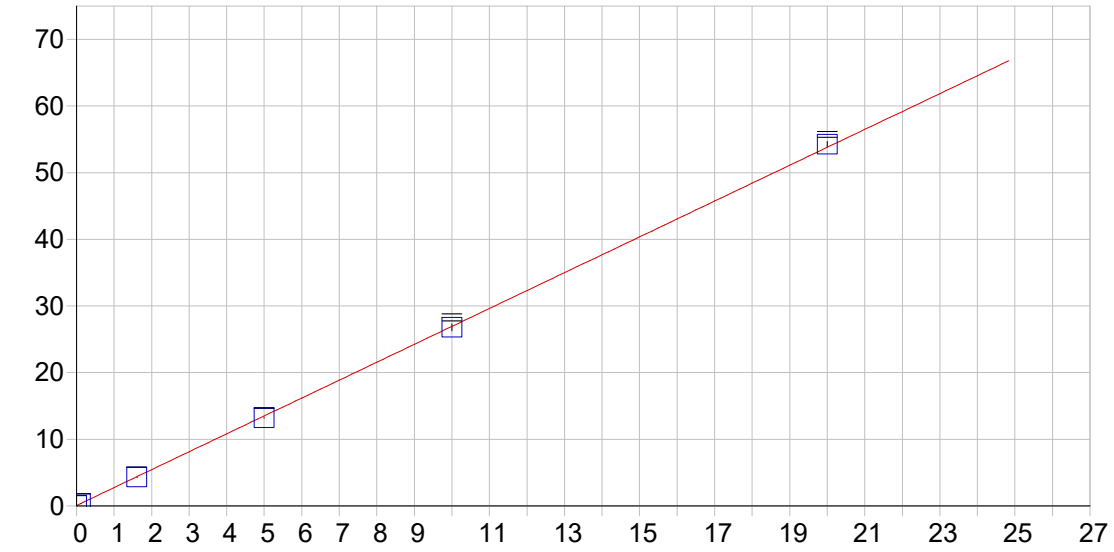


Al 396.152 { 85}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000764	Re-Slope:	1.000000
A1 (Gain):	0.077145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.011697		
Predicted MQL:	0.038992		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00076	.000	1
S1	.10000	.10712	.007	7.12	.00963	.000	1
S3	5.0000	4.9216	-.078	-1.57	.38792	.002	1
S4	10.000	9.9834	-.017	-.166	.78589	.001	1
S5	20.000	20.096	.096	.480	1.5810	.003	1
S2	1.6000	1.5915	-.008	-.528	.12594	.001	1

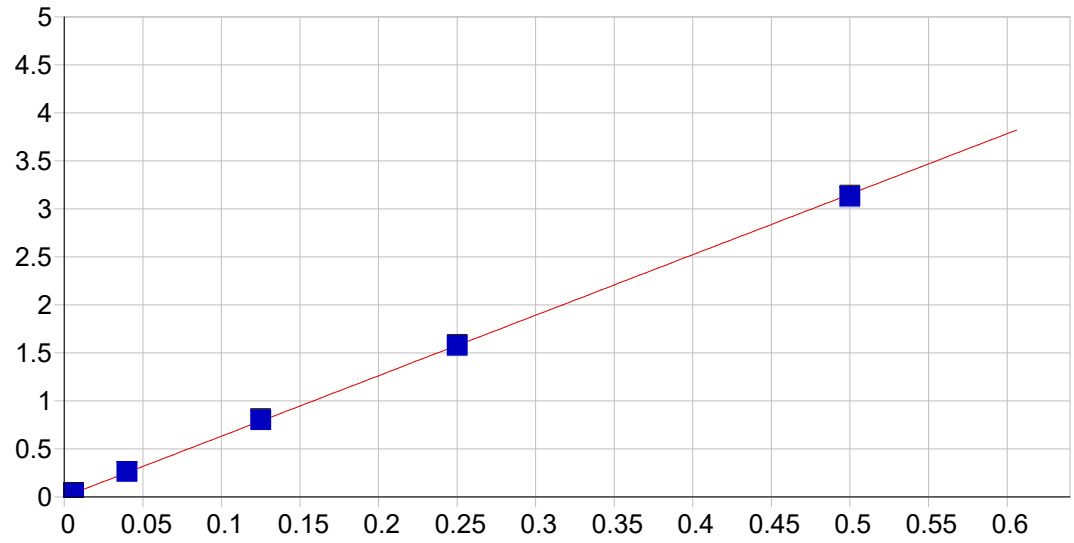


Ba 493.409 { 68}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.066940	Re-Slope:	1.000000
A1 (Gain):	2.686888	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.002105		
Predicted MDL:	0.000858		
Predicted MQL:	0.002859		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.06695	.002	1
S1	.10000	.09712	-.003	-2.88	.32789	.003	1
S3	5.0000	4.8926	-.107	-2.15	13.213	.040	1
S4	10.000	9.9519	-.048	-.481	26.807	.522	1
S5	20.000	20.168	.168	.841	54.257	.449	1
S2	1.6000	1.5901	-.010	-.616	4.3395	.005	1

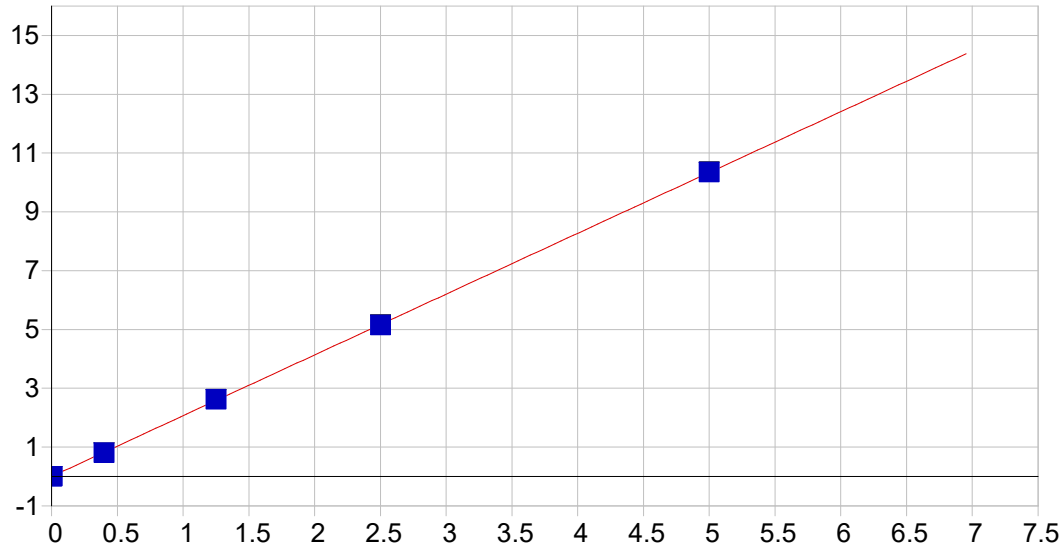


Be 234.861 {144}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001775	Re-Slope:	1.000000
A1 (Gain):	6.303664	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.000075		
Predicted MQL:	0.000250		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00177	.000	1
S1	.00600	.00625	.000	4.18	.04089	.001	1
S3	.12500	.12719	.002	1.75	.79998	.010	1
S4	.25000	.24969	-.000	-.122	1.5687	.009	1
S5	.50000	.49648	-.004	-.705	3.1173	.011	1
S2	.04000	.04139	.001	3.48	.26157	.001	1

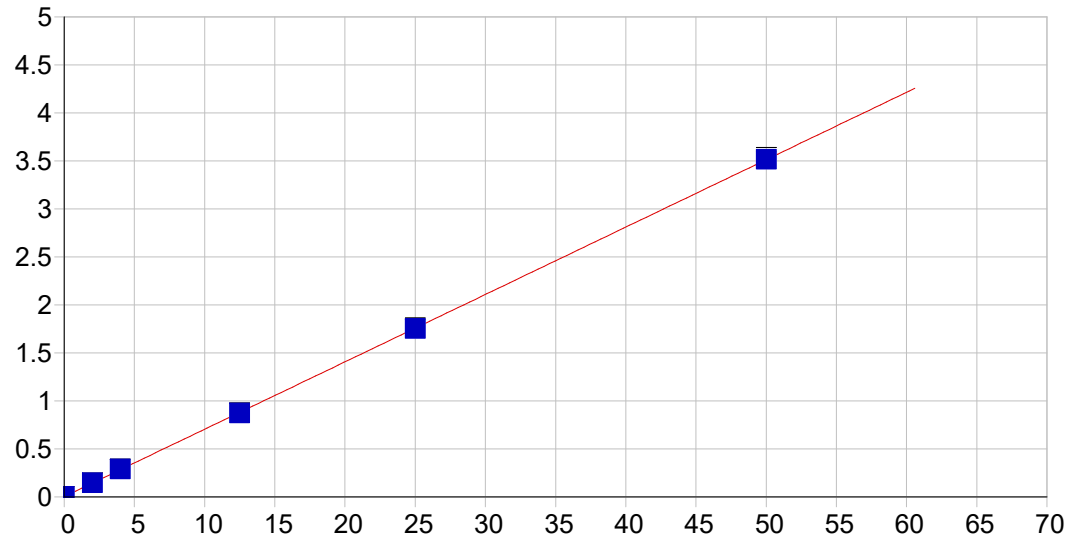


Cd 226.502 {449}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000657	Re-Slope:	1.000000
A1 (Gain):	2.068118	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000151		
Predicted MDL:	0.000105		
Predicted MQL:	0.000351		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00066	.000	1
S1	.00600	.00562	-.000	-6.36	.01101	.000	1
S3	1.2500	1.2671	.017	1.37	2.6216	.005	1
S4	2.5000	2.4904	-.010	-.384	5.1534	.009	1
S5	5.0000	5.0038	.004	.075	10.355	.007	1
S2	.40000	.38911	-.011	-2.72	.80465	.001	1

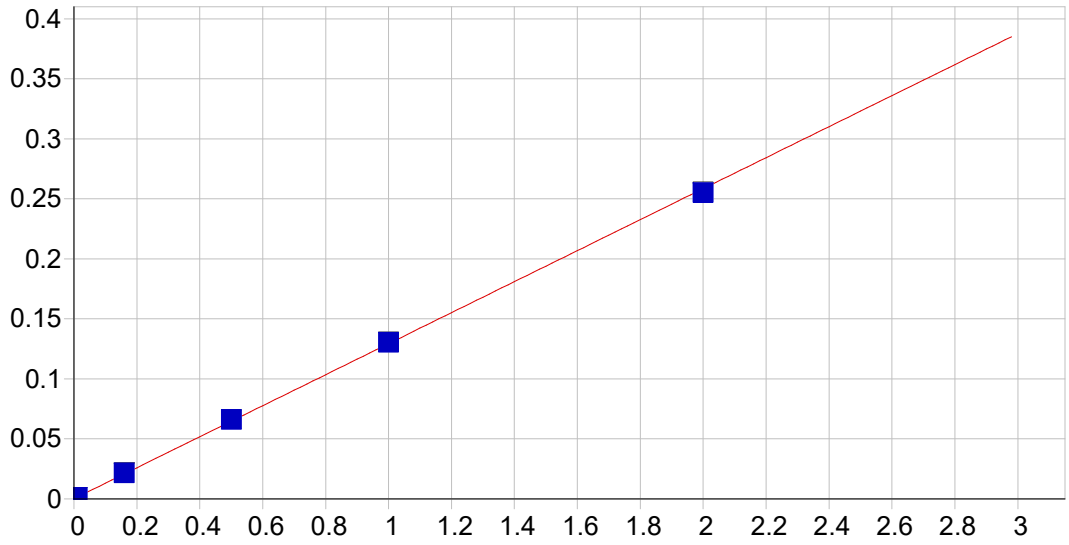


Ca 373.690 { 90}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003269	Re-Slope:	1.000000
A1 (Gain):	0.070186	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000224		
Predicted MDL:	0.010727		
Predicted MQL:	0.035756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	.00326	.001	1
S2	4.0000	4.0726	.073	1.82	.28911	.002	1
S3	12.500	12.389	-.111	-.889	.87279	.005	1
S4	25.000	24.942	-.058	-.232	1.7538	.006	1
S5	50.000	50.054	.054	.108	3.5164	.022	1
S1	2.0000	2.0425	.042	2.12	.14662	.001	1

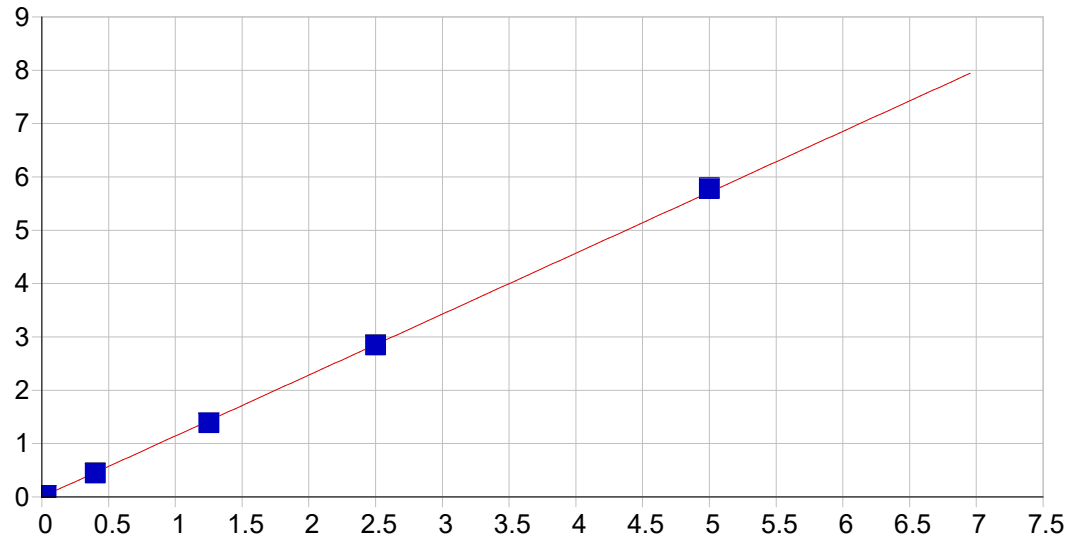


Cr 267.716 {126}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000158	Re-Slope:	1.000000
A1 (Gain):	0.129156	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999863	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.000499		
Predicted MQL:	0.001663		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.01000	.01125	.001	12.5	.00161	.000	1
S3	.50000	.51037	.010	2.07	.06610	.000	1
S4	1.0000	1.0088	.009	.880	.13050	.000	1
S5	2.0000	1.9738	-.026	-1.31	.25519	.000	1
S2	.16000	.16580	.006	3.63	.02158	.000	1

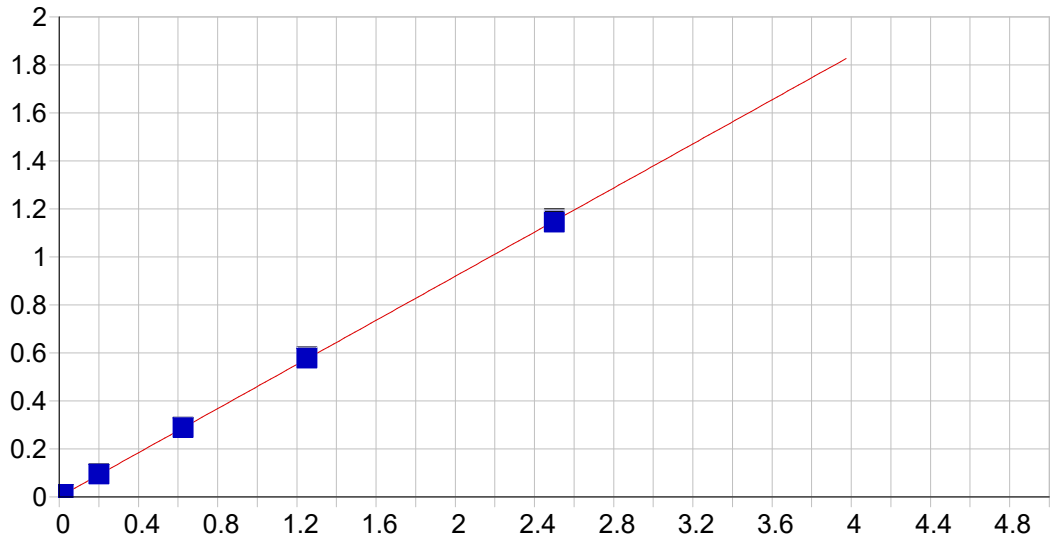


Co 228.616 {448}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000108	Re-Slope:	1.000000
A1 (Gain):	1.142351	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000346		
Predicted MDL:	0.000188		
Predicted MQL:	0.000628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.03000	.02902	-.001	-3.25	.03312	.000	1
S3	1.2500	1.2142	-.036	-2.87	1.3895	.002	1
S4	2.5000	2.4908	-.009	-.370	2.8503	.004	1
S5	5.0000	5.0569	.057	1.14	5.7866	.006	1
S2	.40000	.38913	-.011	-2.72	.44540	.001	1

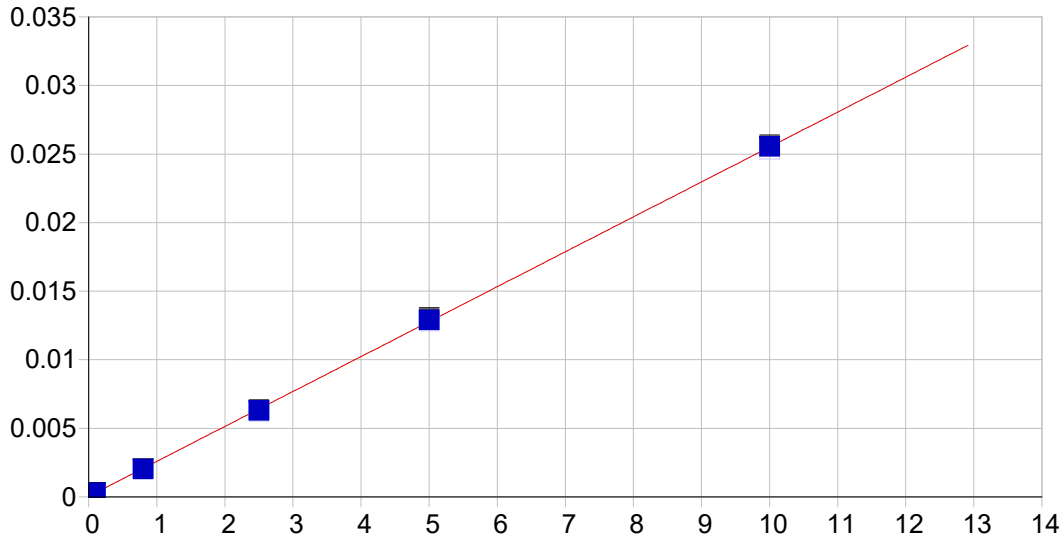


Cu 224.700 {450}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000521	Re-Slope:	1.000000
A1 (Gain):	0.459489	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000557		
Predicted MQL:	0.001857		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00052	.000	1
S1	.02000	.02075	.001	3.75	.01016	.000	1
S3	.62500	.62522	.000	.036	.29020	.001	1
S4	1.2500	1.2554	.005	.429	.58214	.001	1
S5	2.5000	2.4893	-.011	-.428	1.1539	.004	1
S2	.20000	.20436	.004	2.18	.09519	.000	1

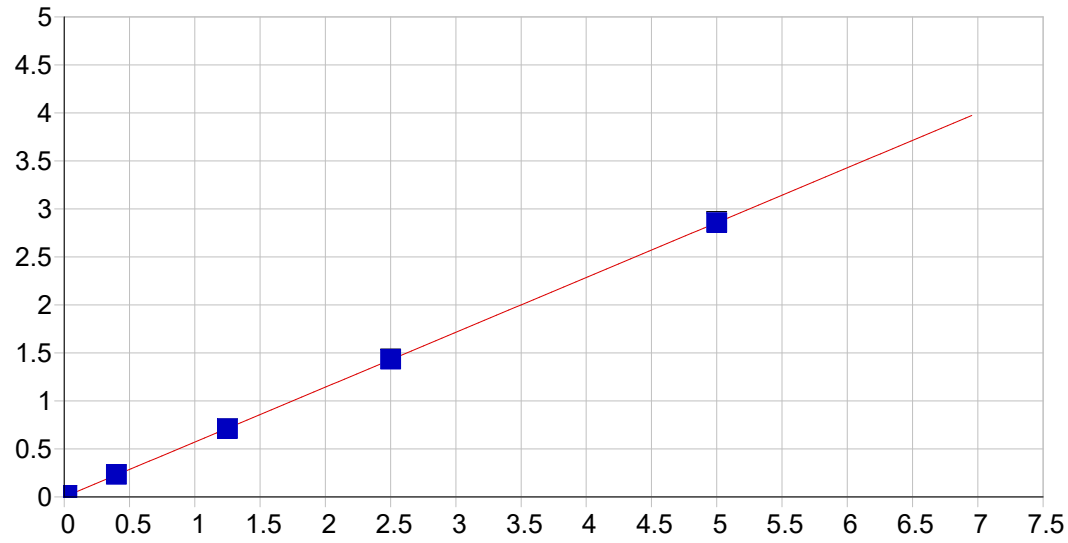


Fe 240.488 {140}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.002547	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.008883		
Predicted MQL:	0.029609		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00004	.000	1
S1	.10000	.09734	-.003	-2.66	.00029	.000	1
S3	2.5000	2.4516	-.048	-1.94	.00623	.000	1
S4	5.0000	5.0512	.051	1.02	.01280	.000	1
S5	10.000	10.017	.017	.170	.02534	.000	1
S2	.80000	.78281	-.017	-2.15	.00202	.000	1

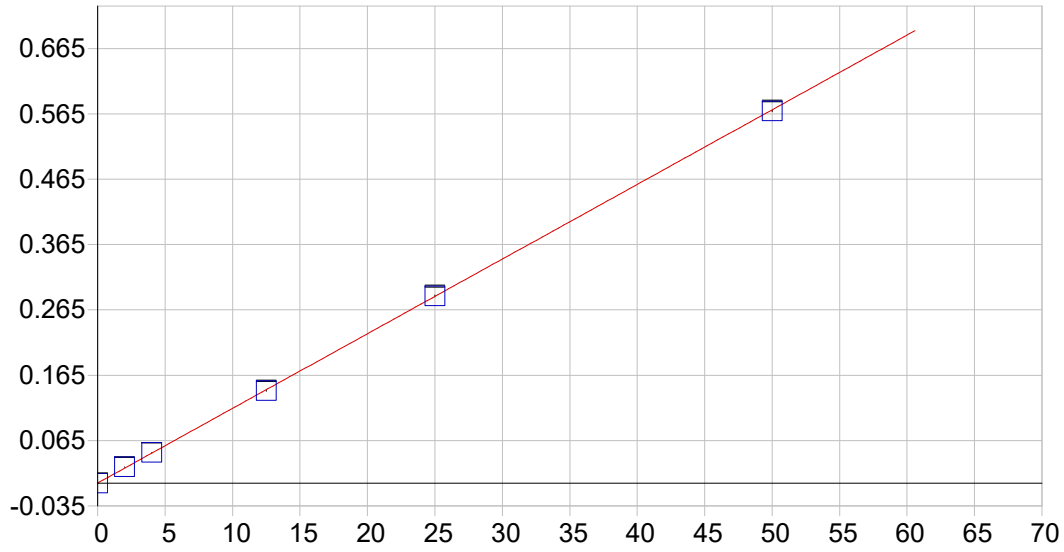


Mn 257.610 {131}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000487	Re-Slope:	1.000000
A1 (Gain):	0.571550	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.000507		
Predicted MQL:	0.001689		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00049	.000	1
S1	.02000	.02064	.001	3.19	.01229	.000	1
S3	1.2500	1.2408	-.009	-.737	.70980	.004	1
S4	2.5000	2.5055	.005	.219	1.4328	.002	1
S5	5.0000	4.9976	-.002	-.048	2.8574	.009	1
S2	.40000	.40549	.005	1.37	.23229	.001	1

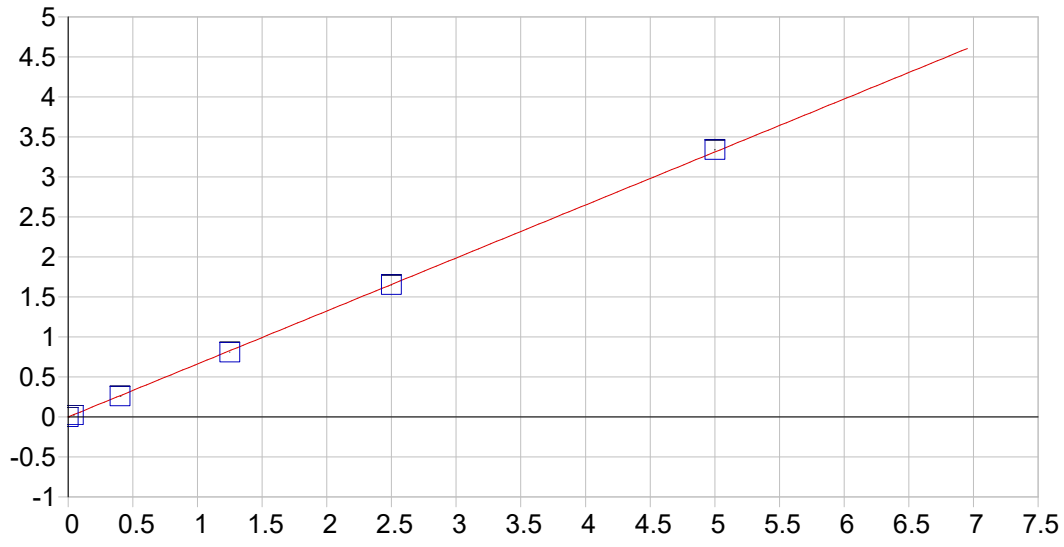


Mg 279.079 {121}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000019	Re-Slope:	1.000000
A1 (Gain):	0.011425	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.028705		
Predicted MQL:	0.095684		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	.00002	.000	1
S2	4.0000	4.0775	.077	1.94	.04661	.000	1
S3	12.500	12.373	-.127	-1.02	.14138	.001	1
S4	25.000	25.048	.048	.194	.28621	.001	1
S5	50.000	49.852	-.148	-.296	.56960	.001	1
S1	2.0000	2.1494	.149	7.47	.02458	.000	1

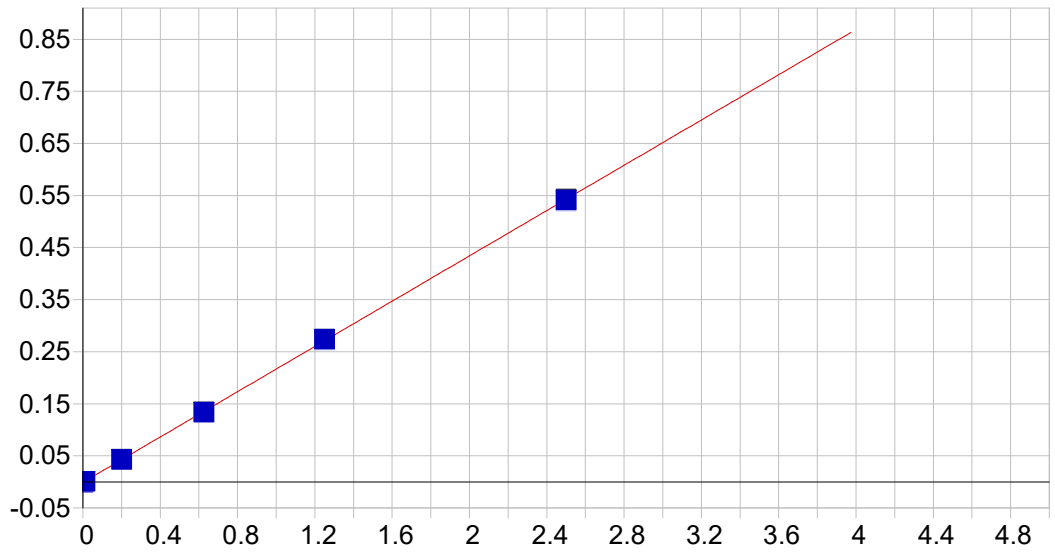


Ni 231.604 {446}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000471	Re-Slope:	1.000000
A1 (Gain):	0.662365	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000345		
Predicted MQL:	0.001151		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00047	.000	1
S1	.04000	.03948	-.001	-1.31	.02568	.000	1
S3	1.2500	1.2218	-.028	-2.26	.80881	.001	1
S4	2.5000	2.4944	-.006	-.224	1.6517	.003	1
S5	5.0000	5.0415	.041	.829	3.3388	.004	1
S2	.40000	.39285	-.007	-1.79	.25974	.001	1

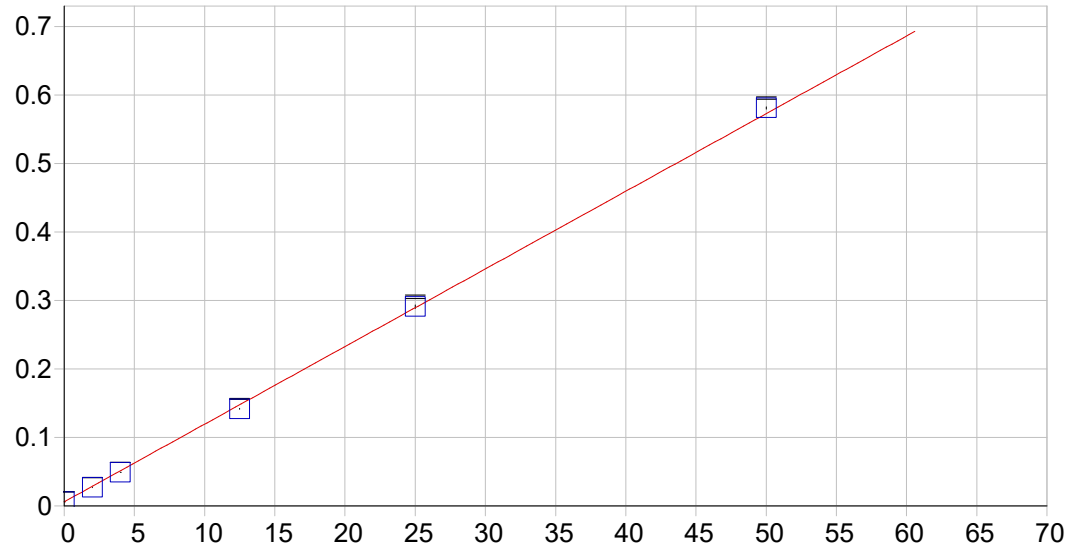


Ag 328.068 {103}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000773	Re-Slope:	1.000000
A1 (Gain):	0.217448	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:	0.000534		
Predicted MQL:	0.001780		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00077	.000	1
S1	.01000	.00929	-.001	-7.10	.00123	.000	1
S3	.62500	.61835	-.007	-1.06	.13303	.000	1
S4	1.2500	1.2619	.012	.952	.27231	.000	1
S5	2.5000	2.4939	-.006	-.243	.53889	.001	1
S2	.20000	.20153	.002	.764	.04284	.000	1

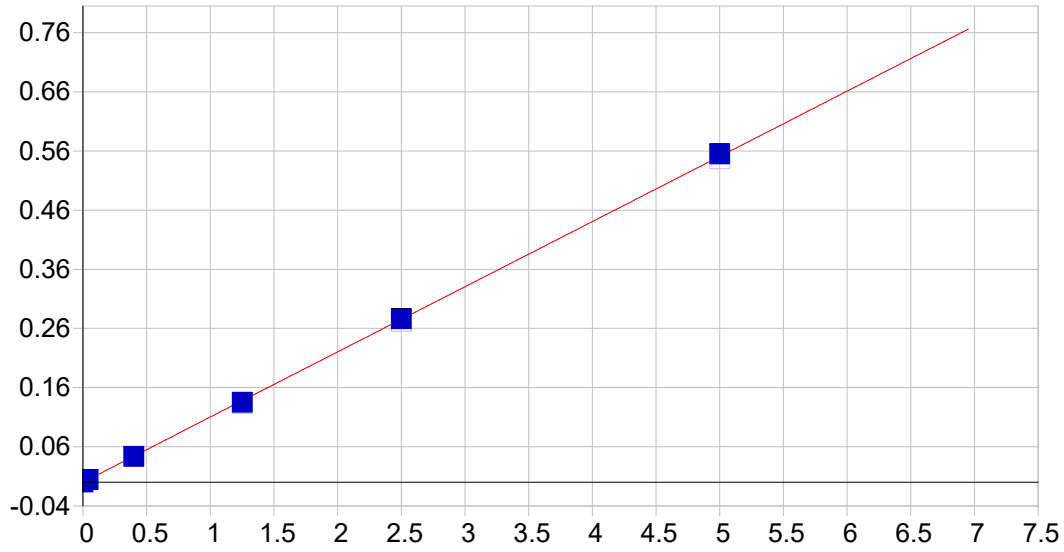


Na 589.592 { 57}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005971	Re-Slope:	1.000000
A1 (Gain):	0.011339	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.000147		
Predicted MDL:	0.014676		
Predicted MQL:	0.048920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	.00597	.000	1
S2	4.0000	3.7977	-.202	-5.06	.04903	.000	1
S3	12.500	11.974	-.526	-4.21	.14174	.001	1
S4	25.000	25.146	.146	.584	.29110	.003	1
S5	50.000	50.736	.736	1.47	.58126	.002	1
S1	2.0000	1.8463	-.154	-7.68	.02691	.000	1

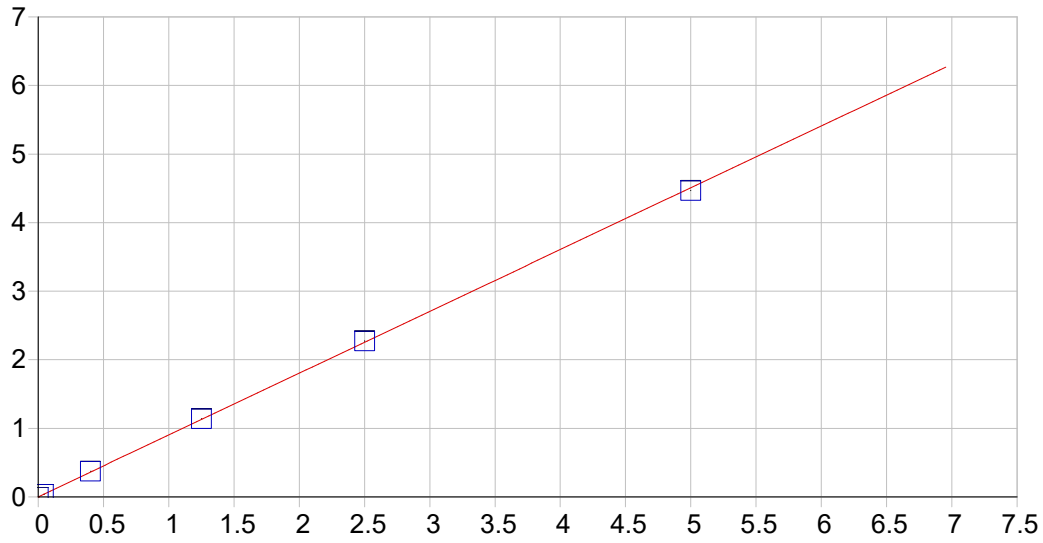


V 292.402 {115}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.110183	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.003255		
Predicted MQL:	0.010851		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.04000	.03849	-.002	-3.77	.00407	.000	1
S3	1.2500	1.2212	-.029	-2.30	.13254	.001	1
S4	2.5000	2.5030	.003	.121	.27176	.001	1
S5	5.0000	5.0323	.032	.646	.54643	.001	1
S2	.40000	.39492	-.005	-1.27	.04286	.000	1

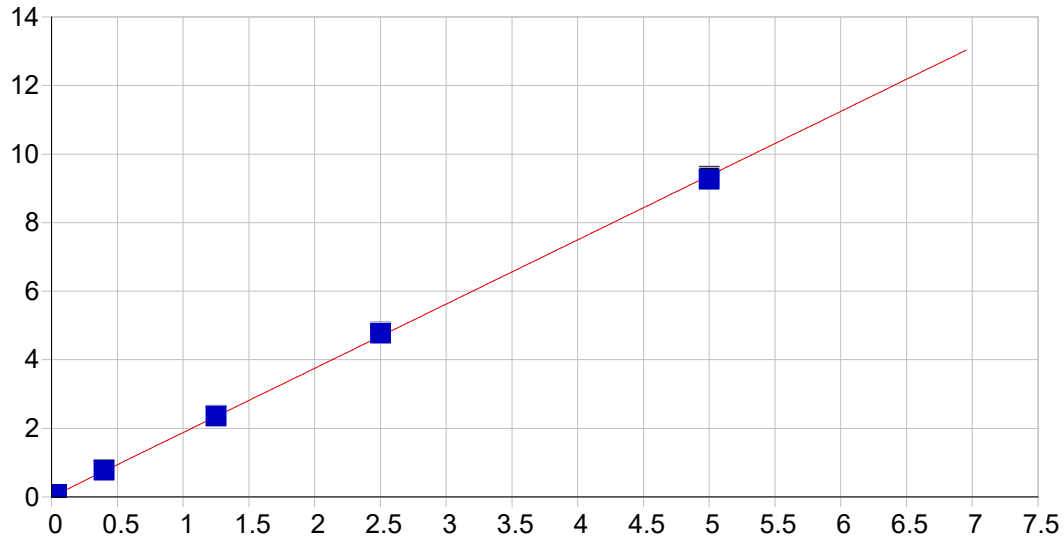


Zn 206.200 {464}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001549	Re-Slope:	1.000000
A1 (Gain):	0.901448	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000228		
Predicted MDL:	0.000175		
Predicted MQL:	0.000585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00155	.000	1
S1	.04000	.04096	.001	2.40	.03847	.000	1
S3	1.2500	1.2635	.014	1.08	1.1405	.001	1
S4	2.5000	2.5194	.019	.776	2.2727	.004	1
S5	5.0000	4.9546	-.045	-.908	4.4679	.003	1
S2	.40000	.41152	.012	2.88	.37251	.000	1

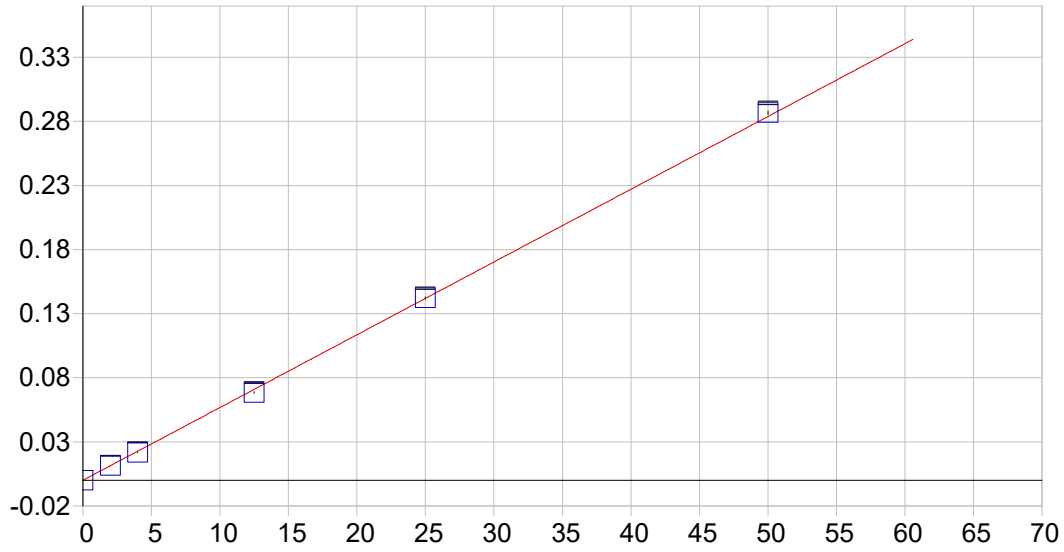


Zn 213.856 {158}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003552	Re-Slope:	1.000000
A1 (Gain):	1.873585	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000606		
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	.00355	.000	1
S1	.04000	.04092	.001	2.30	.08074	.001	1
S3	1.2500	1.2531	.003	.250	2.3677	.010	1
S4	2.5000	2.5431	.043	1.73	4.8009	.008	1
S5	5.0000	4.9419	-.058	-1.16	9.3278	.025	1
S2	.40000	.41092	.011	2.73	.77865	.002	1

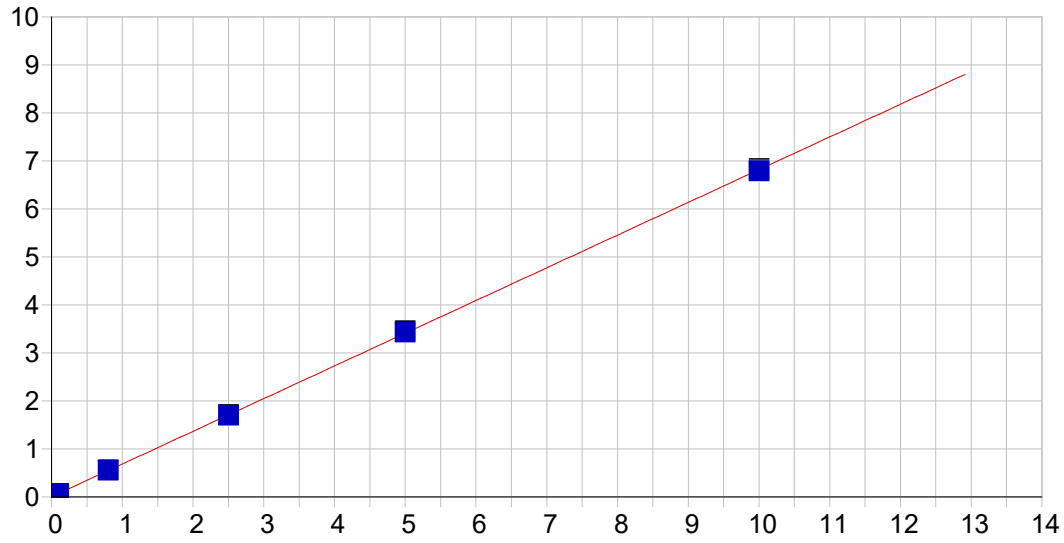


K 766.490 { 44}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000016	Re-Slope:	1.000000
A1 (Gain):	0.005677	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.034213		
Predicted MQL:	0.114044		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	-.00002	.000	1
S2	4.0000	3.8382	-.162	-4.05	.02177	.000	1
S3	12.500	12.069	-.431	-3.45	.06850	.001	1
S4	25.000	25.047	.047	.189	.14218	.001	1
S5	50.000	50.526	.526	1.05	.28683	.001	1
S1	2.0000	2.0204	.020	1.02	.01145	.000	1

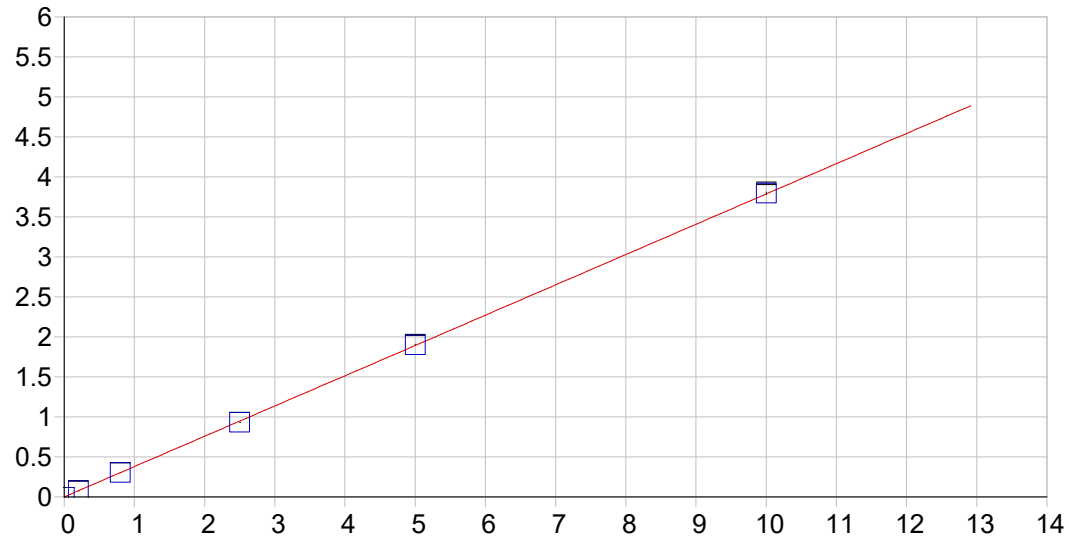


B 249.678 {135}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003575	Re-Slope:	1.000000
A1 (Gain):	0.681394	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000196		
Predicted MDL:	0.000853		
Predicted MQL:	0.002843		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00357	.000	1
S1	.10000	.10113	.001	1.13	.07208	.001	1
S3	2.5000	2.4864	-.014	-.543	1.6917	.016	1
S4	5.0000	5.0335	.033	.670	3.4211	.026	1
S5	10.000	9.9683	-.032	-.317	6.7713	.043	1
S2	.80000	.81068	.011	1.34	.55400	.003	1

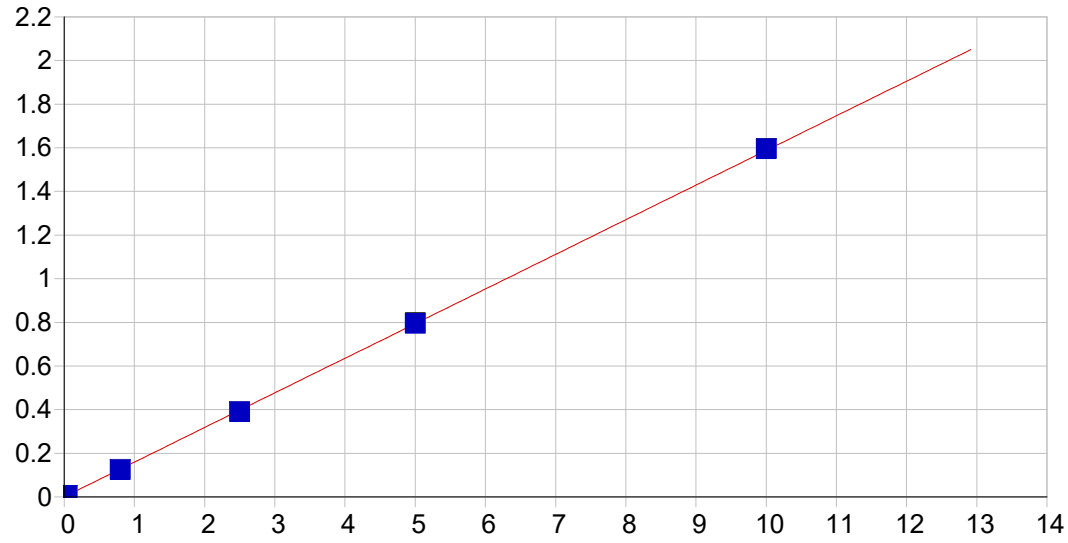


Mo 202.030 {467}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000393	Re-Slope:	1.000000
A1 (Gain):	0.378600	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000195		
Predicted MDL:	0.000410		
Predicted MQL:	0.001365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00040	.000	1
S1	.20000	.19761	-.002	-1.20	.07521	.000	1
S3	2.5000	2.4578	-.042	-1.69	.93092	.001	1
S4	5.0000	5.0199	.020	.397	1.9009	.006	1
S5	10.000	10.025	.025	.254	3.7960	.015	1
S2	.80000	.79931	-.001	-.086	.30301	.000	1

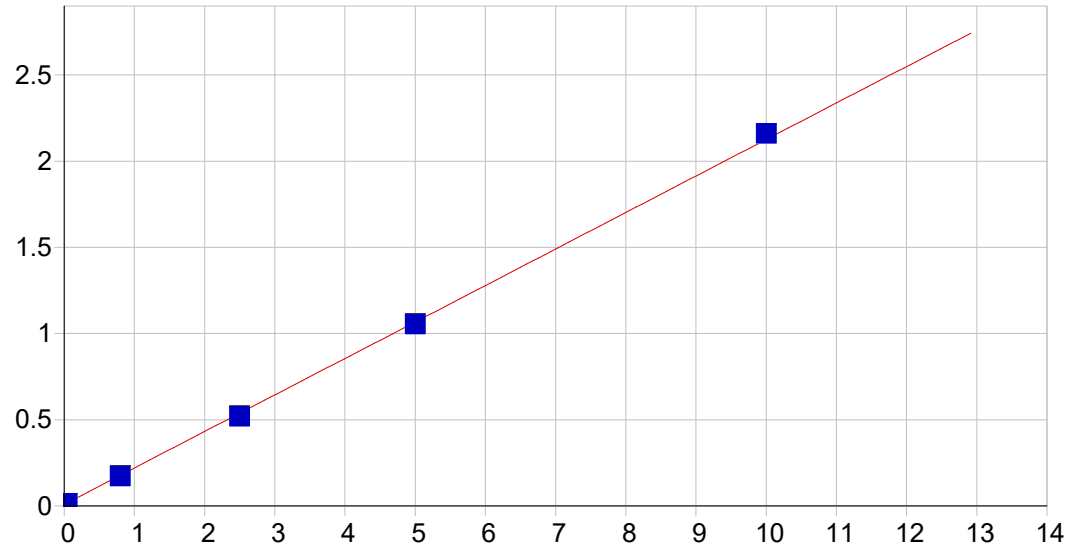


Sn 189.989 {478}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000600	Re-Slope:	1.000000
A1 (Gain):	0.158719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.000641		
Predicted MQL:	0.002137		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00060	.000	1
S1	.04000	.04060	.001	1.50	.00704	.000	1
S3	2.5000	2.4587	-.041	-1.65	.39043	.000	1
S4	5.0000	5.0038	.004	.075	.79398	.002	1
S5	10.000	10.052	.052	.520	1.5944	.000	1
S2	.80000	.78496	-.015	-1.88	.12506	.000	1

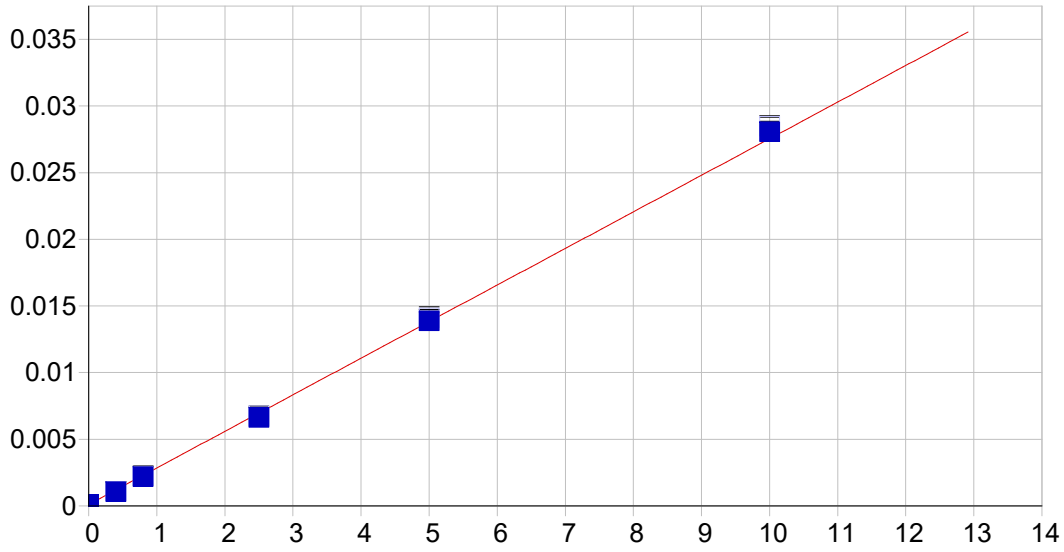


Ti 336.121 {100}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008379	Re-Slope:	1.000000
A1 (Gain):	0.211731	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	0.002099		
Predicted MQL:	0.006995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00838	.000	1
S1	.04000	.04000	-.000	-.004	.01684	.000	1
S3	2.5000	2.4119	-.088	-3.52	.51886	.002	1
S4	5.0000	4.9424	-.058	-1.15	1.0545	.002	1
S5	10.000	10.166	.166	1.66	2.1600	.000	1
S2	.80000	.77995	-.020	-2.51	.17346	.000	1

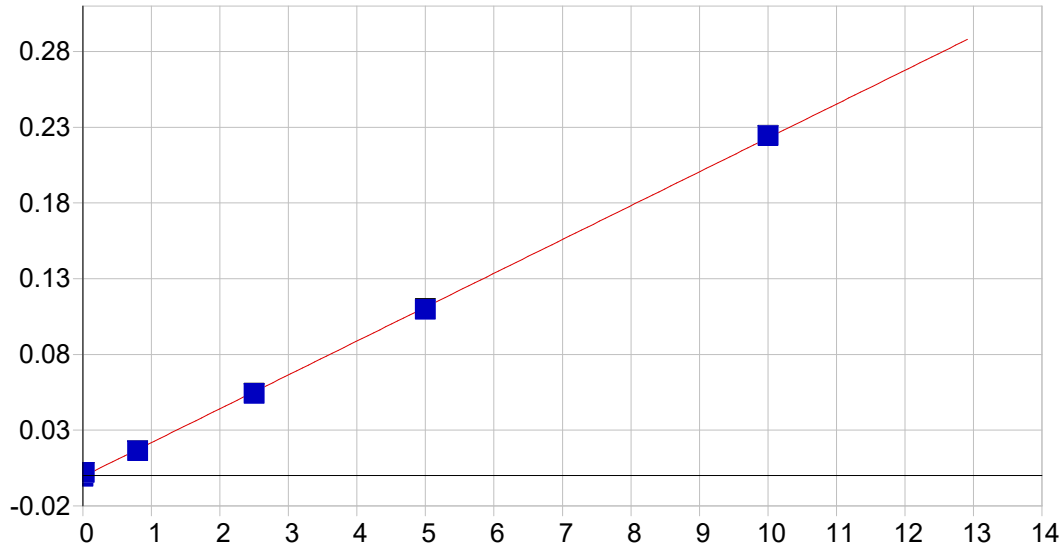


Si 288.158 {117}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000103	Re-Slope:	1.000000
A1 (Gain):	0.002745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999553	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.013966		
Predicted MQL:	0.046553		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	.00010	.000	1
S1	.40000	.35135	-.049	-12.2	.00107	.000	1
S3	2.5000	2.3787	-.121	-4.85	.00673	.000	1
S4	5.0000	5.0200	.020	.400	.01409	.000	1
S5	10.000	10.187	.187	1.87	.02848	.000	1
S2	.80000	.76203	-.038	-4.75	.00223	.000	1

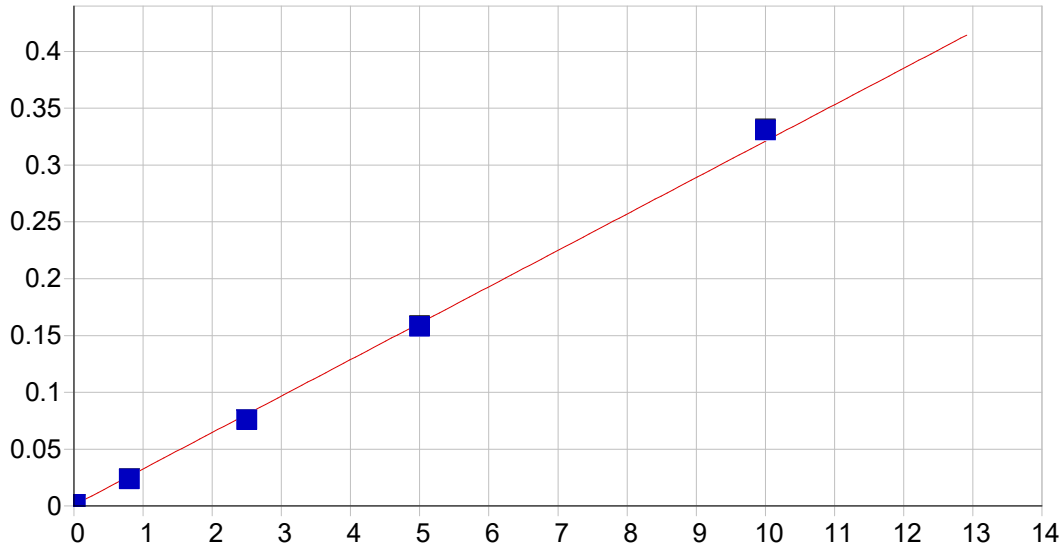


P 177.495 {490}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000545	Re-Slope:	1.000000
A1 (Gain):	0.022344	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.988094	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.003130		
Predicted MQL:	0.010432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00009	-.000	.000	-.00055	.000	1
S1	.02000	.11366	.094	468.	.00199	.000	1
S3	2.5000	2.4469	-.053	-2.13	.05412	.000	1
S4	5.0000	4.9342	-.066	-1.32	.10969	.000	1
S5	10.000	10.070	.070	.698	.22442	.000	1
S2	.80000	.75526	-.045	-5.59	.01633	.000	1

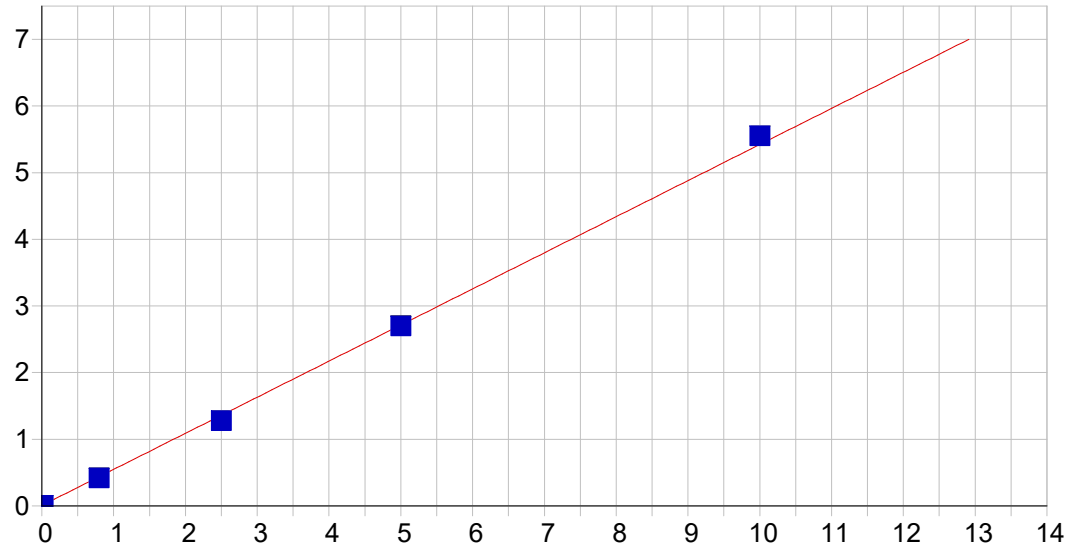


S 182.034 {485}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000524	Re-Slope:	1.000000
A1 (Gain):	0.032057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999239	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.002831		
Predicted MQL:	0.009436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00052	.000	1
S1	.02000	.01588	-.004	-20.6	.00101	.000	1
S3	2.5000	2.3517	-.148	-5.93	.07570	.000	1
S4	5.0000	4.9161	-.084	-1.68	.15770	.000	1
S5	10.000	10.311	.311	3.11	.33023	.001	1
S2	.80000	.72493	-.075	-9.38	.02370	.000	1

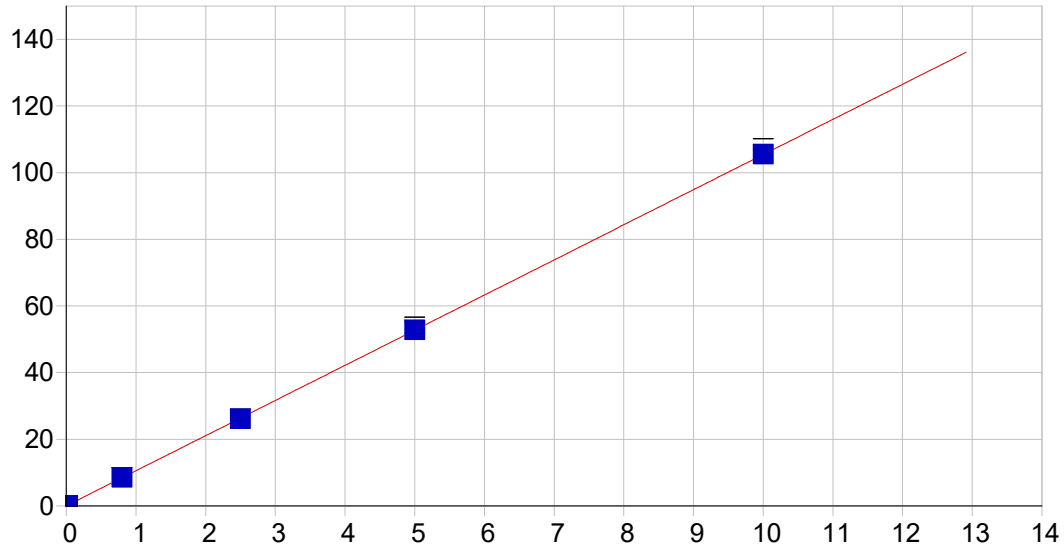


Li 670.784 { 50}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005894	Re-Slope:	1.000000
A1 (Gain):	0.541731	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999484	Status:	OK.
Std Error of Est:	0.000408		
Predicted MDL:	0.003396		
Predicted MQL:	0.011321		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00590	.001	1
S5	10.000	10.235	.235	2.35	5.5531	.004	1
S4	5.0000	4.9684	-.032	-.633	2.6988	.001	1
S3	2.5000	2.3453	-.155	-6.19	1.2771	.005	1
S1	.02000	.01484	-.005	-25.8	.01411	.001	1
S2	.80000	.75679	-.043	-5.40	.41609	.003	1

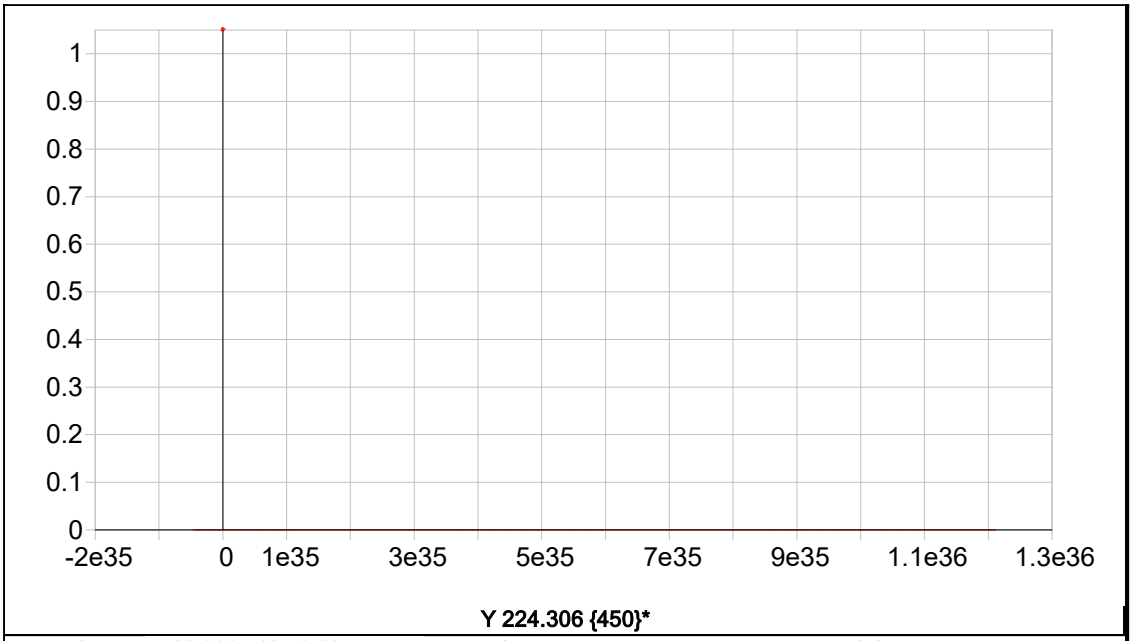


Sr 407.771 { 83}

Date of Fit:	7/22/2025 12:53:22	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002511	Re-Slope:	1.000000
A1 (Gain):	10.544344	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.001080		
Predicted MDL:	0.000090		
Predicted MQL:	0.000300		

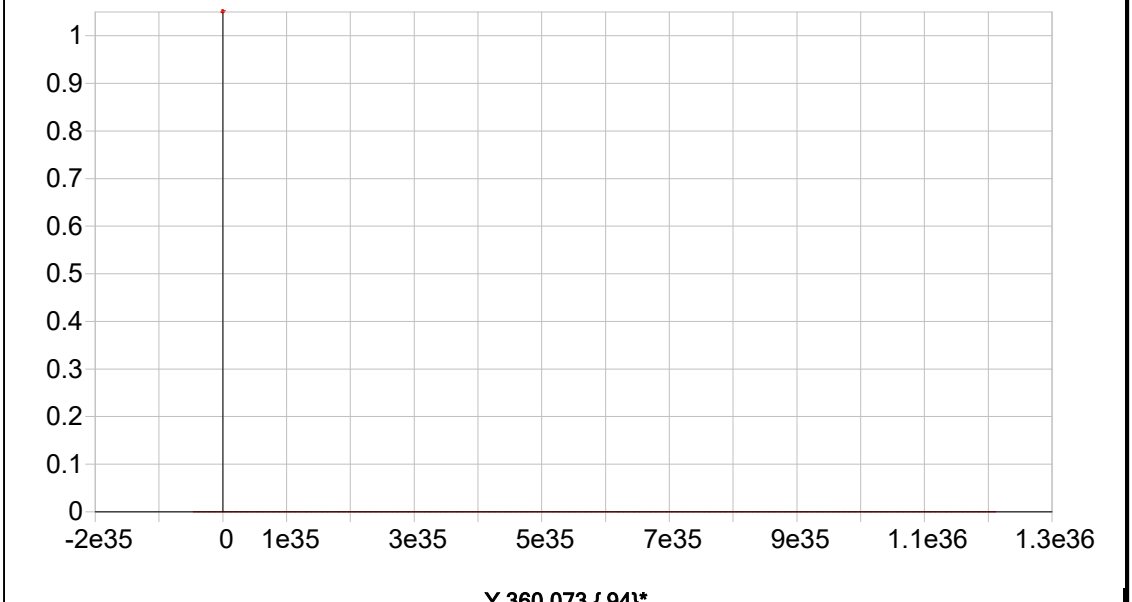
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00251	.001	1
S1	.02000	.01984	-.000	-.806	.21271	.001	1
S3	2.5000	2.4745	-.025	-1.02	26.120	.067	1
S4	5.0000	5.0085	.009	.171	52.865	.854	1
S5	10.000	10.010	.010	.100	105.65	1.59	1
S2	.80000	.80717	.007	.896	8.5217	.005	1



Y 224.306 {450}*

Date of Fit:	7/22/2025 12:53:22	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

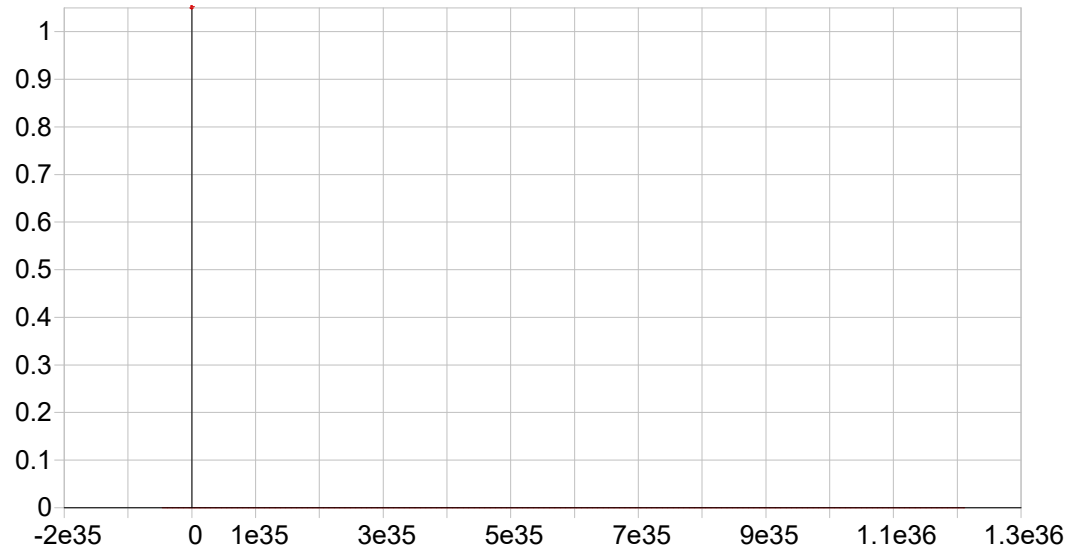


Y 360.073 { 94}*

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	

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					

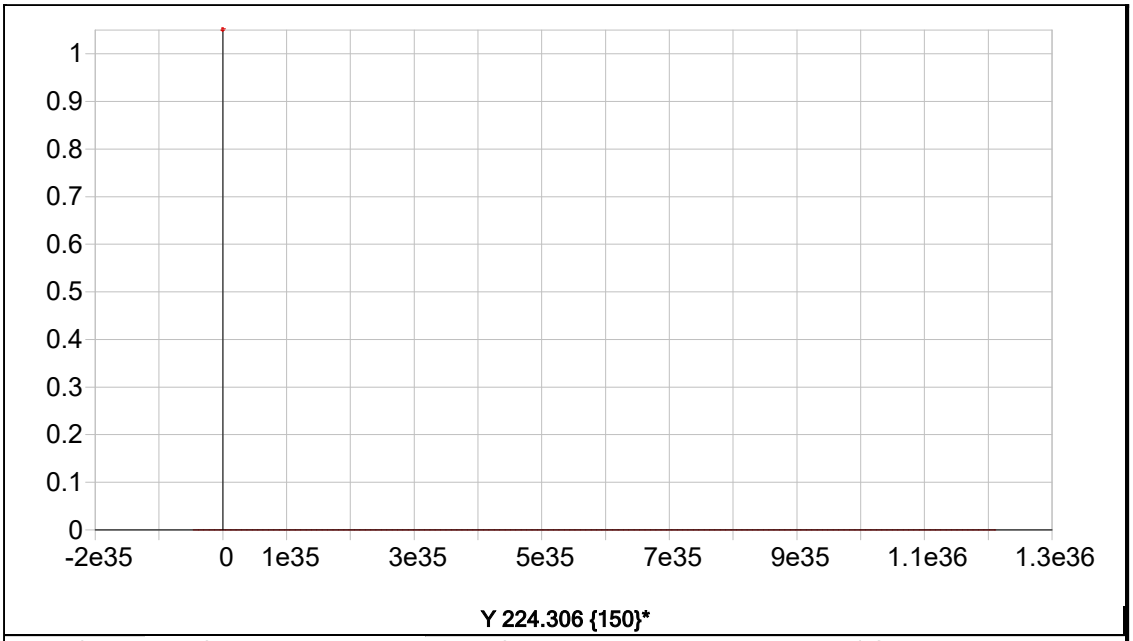
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

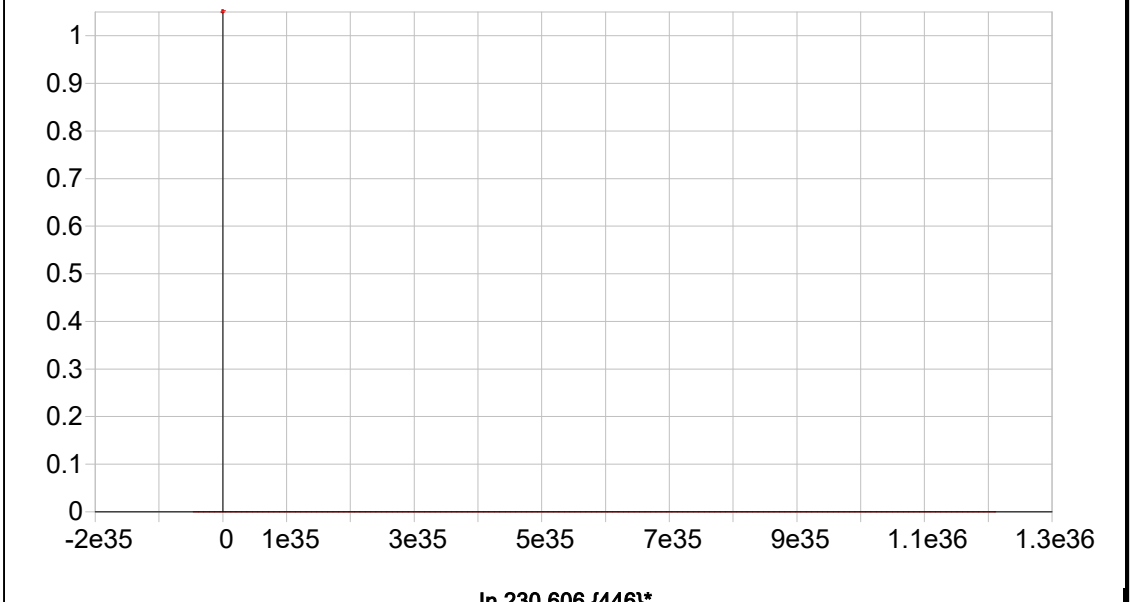
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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	

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:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S0 Acquired: 7/22/2025 11:11:58 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**-.00005**	**.00013**	**-.00004**	**.00052**	**.03351**	**.00076**	**.06695**	**.00177**
Stddev	.00004	.00011	.00017	.00006	.00007	.00043	.00188	.00026
%RSD	82.529	84.357	467.58	11.840	.19905	56.617	2.8144	14.596
#1	-.00001	.00004	.00014	.00050	.03344	.00073	.06913	.00204
#2	-.00009	.00024	-.00006	.00058	.03357	.00035	.06585	.00175
#3	-.00004	.00010	-.00019	.00046	.03351	.00121	.06588	.00152

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00066**	**.00326**	**.00016**	**.00011**	**.00052**	**.00004**	**.00049**	**.00002**
Stddev	.00010	.00059	.00008	.00008	.00024	.00002	.00014	.00012
%RSD	14.769	17.942	48.350	68.266	45.311	44.108	27.889	731.54
#1	-.00076	.00294	.00017	.00019	.00074	.00006	.00061	.00009
#2	-.00065	.00291	.00008	.00003	.00056	.00002	.00034	.00008
#3	-.00056	.00394	.00023	.00011	.00027	.00005	.00050	-.00012

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	**-.00047**	**-.00077**	**.00597**	**-.00001**	**.00355**	**-.00002**	**.00357**	**.00040**
Stddev	.00024	.00008	.00003	.00029	.00028	.00005	.00017	.00009
%RSD	50.348	9.8199	.46705	3035.9	7.9577	340.74	4.8139	23.951
#1	-.00023	-.00072	.00600	.00031	.00335	-.00007	.00364	.00043
#2	-.00070	-.00086	.00598	-.00024	.00343	.00004	.00370	.00047
#3	-.00048	-.00074	.00594	-.00010	.00387	-.00001	.00338	.00029

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	**.00060**	**.00838**	**.00010**	**-.00055**	**.00052**	**.00590**	**.00251**
Stddev	.00003	.00001	.00001	.00005	.00005	.00139	.00080
%RSD	5.5736	.13979	8.3650	8.4380	9.3221	23.535	32.044
#1	.00057	.00837	.00009	-.00057	.00051	.00516	.00343
#2	.00059	.00838	.00011	-.00058	.00058	.00503	.00220
#3	.00064	.00839	.00010	-.00049	.00048	.00750	.00191

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S0 Acquired: 7/22/2025 11:11:58 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**5824.9**	**91853.**	**8713.9**	**4887.6**	**6885.9**
Stddev	6.8	283.	72.1	9.0	15.0
%RSD	.11636	.30850	.82726	.18448	.21726
#1	5817.1	91573.	8789.9	4891.0	6875.5
#2	5828.2	92139.	8705.3	4894.5	6879.1
#3	5829.4	91845.	8646.5	4877.4	6903.0

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S1 Acquired: 7/22/2025 11:16:21 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**.00068**	**.00267**	**.00269**	**.00139**	**.03966**	**.00963**	**.32789**	**.04089**
Stddev	.00007	.00013	.00018	.00013	.00011	.00034	.00257	.00082
%RSD	10.049	4.7044	6.7662	9.4857	.27660	3.4906	.78366	1.9943
#1	.00065	.00282	.00270	.00142	.03955	.00943	.32587	.04020
#2	.00076	.00258	.00287	.00150	.03977	.00943	.32702	.04069
#3	.00064	.00262	.00251	.00124	.03967	.01001	.33078	.04179

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	**.01101**	**.14662**	**.00161**	**.03312**	**.01016**	**.00029**	**.01229**	**.02458**
Stddev	.00016	.00077	.00005	.00021	.00018	.00002	.00015	.00014
%RSD	1.4845	.52406	2.9056	.62317	1.7800	6.5480	1.2024	.57392
#1	.01091	.14599	.00159	.03290	.01020	.00029	.01216	.02448
#2	.01120	.14640	.00158	.03331	.00996	.00031	.01245	.02451
#3	.01091	.14748	.00167	.03315	.01032	.00027	.01226	.02474

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	**.02568**	**.00123**	**.02691**	**.00407**	**.08074**	**.01145**	**.07208**	**.07521**
Stddev	.00016	.00007	.00023	.00012	.00060	.00018	.00146	.00021
%RSD	.63607	5.5335	.86107	2.9385	.74435	1.5664	2.0298	.27819
#1	.02552	.00115	.02716	.00400	.08137	.01166	.07047	.07497
#2	.02566	.00128	.02686	.00400	.08070	.01131	.07246	.07531
#3	.02585	.00125	.02670	.00420	.08017	.01139	.07332	.07535

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	**.00704**	**.01684**	**.00107**	**.00199**	**.00101**	**.01411**	**.21271**
Stddev	.00003	.00027	.00001	.00006	.00003	.00109	.00101
%RSD	.40265	1.5953	.98329	3.1106	3.0298	7.7042	.47626
#1	.00701	.01706	.00106	.00194	.00100	.01349	.21287
#2	.00707	.01692	.00107	.00206	.00098	.01347	.21163
#3	.00703	.01654	.00108	.00198	.00104	.01536	.21363

Sample Name: S1 Acquired: 7/22/2025 11:16:21 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**5945.4**	**92924.**	**8716.3**	**4947.7**	**6948.3**
Stddev	5.9	447.	88.9	21.9	10.7
%RSD	.09860	.48109	1.0202	.44282	.15434
#1	5952.1	92604.	8805.1	4923.1	6960.6
#2	5942.1	93435.	8716.5	4954.9	6943.2
#3	5941.9	92733.	8627.3	4965.1	6941.1

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S2 Acquired: 7/22/2025 11:20:43 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**.02762**	**.04941**	**.17656**	**.03676**	**.11323**	**.12594**	**4.3395**	**.26157**
Stddev	.00007	.00197	.00051	.00013	.00018	.00143	.0054	.00092
%RSD	.23661	3.9956	.29029	.34249	.15805	1.1371	.12435	.35291
#1	.02766	.05136	.17713	.03674	.11307	.12630	4.3376	.26079
#2	.02766	.04945	.17640	.03689	.11342	.12436	4.3352	.26259
#3	.02754	.04742	.17614	.03664	.11321	.12715	4.3455	.26133

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	**.80465**	**.28911**	**.02158**	**.44540**	**.09519**	**.00202**	**.23229**	**.04661**
Stddev	.00052	.00179	.00026	.00057	.00003	.00003	.00088	.00032
%RSD	.06480	.62029	1.1965	.12746	.02769	1.2848	.38051	.68863
#1	.80484	.28704	.02162	.44606	.09516	.00199	.23199	.04635
#2	.80504	.29005	.02182	.44503	.09521	.00204	.23160	.04650
#3	.80405	.29023	.02131	.44512	.09519	.00203	.23329	.04697

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	**.25974**	**.04284**	**.04903**	**.04286**	**.77865**	**.02177**	**.55400**	**.30301**
Stddev	.00061	.00016	.00016	.00015	.00193	.00039	.00288	.00037
%RSD	.23409	.37321	.33602	.35777	.24731	1.7713	.52037	.12209
#1	.26044	.04302	.04921	.04285	.77764	.02210	.55423	.30259
#2	.25937	.04277	.04899	.04271	.77744	.02188	.55102	.30321
#3	.25941	.04272	.04889	.04302	.78087	.02135	.55677	.30324

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	**.12506**	**.17346**	**.00223**	**.01633**	**.02370**	**.41609**	**8.5217**
Stddev	.00035	.00037	.00002	.00003	.00027	.00341	.0049
%RSD	.27851	.21127	.89642	.18682	1.1388	.81886	.05702
#1	.12541	.17332	.00225	.01629	.02397	.41461	8.5167
#2	.12471	.17318	.00223	.01635	.02343	.41367	8.5220
#3	.12506	.17387	.00221	.01634	.02369	.41999	8.5264

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S2 Acquired: 7/22/2025 11:20:43 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**5830.7**	**92539.**	**8720.1**	**4898.3**	**6734.8**
Stddev	7.2	323.	22.1	3.6	16.9
%RSD	.12309	.34935	.25347	.07306	.25111
#1	5825.2	92437.	8737.9	4895.0	6715.3
#2	5838.8	92280.	8727.0	4902.1	6743.7
#3	5828.2	92902.	8695.3	4897.8	6745.3

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S3 Acquired: 7/22/2025 11:24:50 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**.08849**	**.17407**	**.56377**	**.11695**	**.28018**	**.38792**	**13.213**	**.79998**
Stddev	.00019	.00166	.00062	.00006	.00030	.00196	.040	.01019
%RSD	.21766	.95615	.11015	.05440	.10548	.50598	.30591	1.2740
#1	.08868	.17422	.56376	.11692	.28038	.39013	13.257	.81001
#2	.08850	.17565	.56315	.11702	.27984	.38637	13.178	.80031
#3	.08830	.17234	.56440	.11691	.28032	.38726	13.203	.78963

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.6216**	**.87279**	**.06610**	**1.3895**	**.29020**	**.00623**	**.70980**	**.14138**
Stddev	.0046	.00547	.00011	.0022	.00059	.00005	.00417	.00093
%RSD	.17362	.62615	.16336	.15438	.20171	.77026	.58710	.65851
#1	2.6202	.87904	.06621	1.3891	.29015	.00622	.71413	.14244
#2	2.6180	.87044	.06600	1.3876	.28964	.00619	.70946	.14069
#3	2.6267	.86889	.06610	1.3919	.29081	.00629	.70582	.14102

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	**.80881**	**.13303**	**.14174**	**.13254**	**2.3677**	**.06850**	**1.6917**	**.93092**
Stddev	.00121	.00018	.00071	.00079	.0099	.00058	.0160	.00070
%RSD	.14940	.13725	.50406	.59297	.41796	.84561	.94788	.07567
#1	.80909	.13291	.14115	.13345	2.3567	.06833	1.7069	.93049
#2	.80748	.13293	.14154	.13207	2.3759	.06803	1.6932	.93173
#3	.80985	.13324	.14253	.13211	2.3704	.06915	1.6749	.93054

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	**.39043**	**.51886**	**.00673**	**.05412**	**.07570**	**1.2771**	**26.120**
Stddev	.00031	.00200	.00002	.00015	.00019	.0049	.067
%RSD	.07914	.38548	.23673	.27520	.24754	.38075	.25589
#1	.39023	.52054	.00674	.05395	.07569	1.2826	26.194
#2	.39027	.51940	.00675	.05420	.07590	1.2748	26.099
#3	.39079	.51665	.00672	.05421	.07552	1.2737	26.065

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S3 Acquired: 7/22/2025 11:24:50 Type: Cal
Method: 6010-200.7 NEW(v53) 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	5676.1	89915.	8632.3	4804.8	6383.3
Stddev	7.0	301.	78.1	21.8	13.5
%RSD	.12406	.33438	.90423	.45401	.21120
#1	5672.9	89808.	8545.7	4823.6	6381.1
#2	5684.1	90254.	8654.2	4809.8	6397.7
#3	5671.2	89682.	8697.1	4780.9	6371.0

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S4 Acquired: 7/22/2025 11:28:57 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**.17551**	**.32700**	**1.1030**	**.23013**	**.54333**	**.78589**	**26.807**	**1.5687**
Stddev	.00036	.00457	.0025	.00073	.00170	.00078	.522	.0094
%RSD	.20345	1.3984	.22327	.31830	.31206	.09876	1.9461	.60043
#1	.17518	.33218	1.1039	.22943	.54177	.78580	27.399	1.5790
#2	.17545	.32526	1.1002	.23006	.54308	.78517	26.605	1.5667
#3	.17589	.32355	1.1048	.23089	.54513	.78671	26.416	1.5604

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.1534**	**1.7538**	**.13050**	**2.8503**	**.58214**	**.01280**	**1.4328**	**.28621**
Stddev	.0090	.0057	.00017	.0041	.00148	.00017	.0023	.00137
%RSD	.17436	.32375	.12998	.14315	.25347	1.3174	.15900	.47938
#1	5.1492	1.7602	.13052	2.8513	.58049	.01264	1.4354	.28778
#2	5.1473	1.7519	.13066	2.8458	.58259	.01279	1.4311	.28557
#3	5.1637	1.7493	.13032	2.8537	.58333	.01297	1.4318	.28527

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6517**	**.27231**	**.29110**	**.27176**	**4.8009**	**.14218**	**3.4211**	**1.9009**
Stddev	.0030	.00014	.00258	.00096	.0083	.00077	.0263	.0061
%RSD	.18334	.05115	.88622	.35353	.17385	.54462	.76807	.32038
#1	1.6524	.27220	.28813	.27287	4.8085	.14129	3.4505	1.8958
#2	1.6484	.27247	.29232	.27115	4.8022	.14272	3.4127	1.8992
#3	1.6544	.27225	.29283	.27127	4.7920	.14254	3.4000	1.9077

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	**.79398**	**1.0545**	**.01409**	**.10969**	**.15770**	**2.6988**	**52.865**
Stddev	.00246	.0017	.00011	.00035	.00037	.0013	.854
%RSD	.30929	.16494	.76935	.32065	.23373	.04890	1.6162
#1	.79439	1.0536	.01396	.10942	.15791	2.6988	53.822
#2	.79134	1.0533	.01413	.10956	.15728	2.7000	52.178
#3	.79620	1.0565	.01417	.11009	.15792	2.6974	52.595

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S4 Acquired: 7/22/2025 11:28:57 Type: Cal
Method: 6010-200.7 NEW(v53) 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	5617.5	90473.	8801.6	4709.0	6235.1
Stddev	12.6	298.	87.5	19.1	6.5
%RSD	.22487	.32965	.99409	.40543	.10359
#1	5631.5	90299.	8709.3	4693.7	6236.5
#2	5614.1	90301.	8812.2	4702.9	6240.7
#3	5606.9	90817.	8883.3	4730.4	6228.1

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S5 Acquired: 7/22/2025 11:33:10 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**.35391**	**.67009**	**2.2418**	**.46331**	**1.0631**	**1.5810**	**54.257**	**3.1173**
Stddev	.00157	.01248	.0018	.00251	.0048	.0029	.449	.0115
%RSD	.44362	1.8629	.07955	.54145	.45119	.18227	.82792	.36819
#1	.35264	.66144	2.2413	.46051	1.0583	1.5800	53.754	3.1093
#2	.35343	.68440	2.2403	.46406	1.0631	1.5842	54.399	3.1304
#3	.35567	.66443	2.2438	.46536	1.0679	1.5787	54.618	3.1121

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.355**	**3.5164**	**.25519**	**5.7866**	**1.1539**	**.02534**	**2.8574**	**.56960**
Stddev	.007	.0219	.00043	.0065	.0043	.00011	.0086	.00143
%RSD	.07028	.62134	.16733	.11190	.37688	.42643	.30251	.25055
#1	10.360	3.4969	.25547	5.7835	1.1500	.02527	2.8490	.56922
#2	10.347	3.5122	.25540	5.7822	1.1532	.02528	2.8571	.57118
#3	10.358	3.5400	.25469	5.7940	1.1586	.02546	2.8662	.56840

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3388**	**.53889**	**.58126**	**.54643**	**9.3278**	**.28683**	**6.7713**	**3.7960**
Stddev	.0037	.00130	.00153	.00116	.0248	.00140	.0431	.0151
%RSD	.11220	.24098	.26349	.21203	.26556	.48671	.63591	.39822
#1	3.3373	.53749	.58300	.54526	9.3082	.28683	6.7229	3.7812
#2	3.3360	.53913	.58012	.54758	9.3196	.28543	6.8054	3.7955
#3	3.3431	.54005	.58065	.54645	9.3556	.28822	6.7857	3.8114

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5944**	**2.1600**	**.02848**	**.22442**	**.33023**	**5.5531**	**105.65**
Stddev	.0003	.0003	.00005	.00021	.00074	.0036	1.59
%RSD	.02112	.01466	.18366	.09575	.22506	.06403	1.5018
#1	1.5941	2.1597	.02854	.22417	.32953	5.5571	103.86
#2	1.5943	2.1600	.02844	.22454	.33101	5.5522	106.22
#3	1.5948	2.1604	.02845	.22455	.33015	5.5501	106.88

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: S5 Acquired: 7/22/2025 11:33:10 Type: Cal
Method: 6010-200.7 NEW(v53) 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	**5434.2**	**90663.**	**8740.0**	**4632.6**	**5909.8**
Stddev	16.4	250.	54.9	23.0	5.7
%RSD	.30216	.27527	.62833	.49743	.09699
#1	5449.4	90939.	8798.1	4658.9	5912.1
#2	5436.3	90454.	8689.0	4622.5	5913.9
#3	5416.8	90595.	8733.0	4616.3	5903.2

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICV01 Acquired: 7/22/2025 12:03:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**3.877991**	**3.771399**	**3.802615**	**3.883450**	**4.102947**	**8.035224**
Stddev	.002375	.039876	.009232	.009796	.006284	.044215
%RSD	.0612378	1.057313	.2427719	.2522474	.1531658	.5502672
#1	3.875479	3.725463	3.797673	3.872372	4.101507	8.024112
#2	3.878293	3.797105	3.796907	3.887009	4.097508	7.997624
#3	3.880200	3.791627	3.813266	3.890969	4.109827	8.083934

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.139261**	**.2033695**	**1.952984**	**20.31288**	**.8186175**	**2.033805**
Stddev	.037616	.0034641	.003652	.07494	.0057135	.004382
%RSD	.4621517	1.703347	.1869901	.3689411	.6979436	.2154722
#1	8.181767	.2020209	1.952113	20.29651	.8236094	2.031549
#2	8.110268	.2007826	1.949847	20.24748	.8123860	2.031010
#3	8.125750	.2073051	1.956993	20.39466	.8198571	2.038855

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.028649**	**4.058856**	**2.029944**	**20.19512**	**2.037898**	**1.036078**
Stddev	.001781	.045881	.003944	.10632	.004164	.001385
%RSD	.1731386	1.130403	.1942991	.5264815	.2043246	.1336822
#1	1.029131	4.111681	2.027654	20.13059	2.035355	1.037522
#2	1.026677	4.035944	2.027680	20.13693	2.035637	1.035950
#3	1.030140	4.028943	2.034498	20.31784	2.042704	1.034761

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.60033**	**2.009771**	**2.050405**	**19.88966**	**3.943270**	**4.056519**
Stddev	.16833	.008166	.004281	.24908	.053945	.005027
%RSD	.8587940	.4062955	.2087784	1.252305	1.368026	.1239232
#1	19.78882	2.003750	2.045498	20.10760	3.895214	4.058991
#2	19.54715	2.006496	2.053377	19.94322	3.932977	4.050734
#3	19.46502	2.019065	2.052339	19.61816	4.001620	4.059831

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICV01 Acquired: 7/22/2025 12:03:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**4.003468**	**3.923360**	F **3.545041**	**3.868633**	**3.964447**	**3.718652**
Stddev	.007831	.013707	.024104	.012609	.015509	.017176
%RSD	.1956080	.3493745	.6799431	.3259415	.3912036	.4618946
#1	4.001172	3.911995	3.556371	3.883102	3.955338	3.701722
#2	3.997042	3.919503	3.561393	3.862806	3.955649	3.718171
#3	4.012191	3.938583	3.517359	3.859991	3.982355	3.736064

Elem	Sr4077
Units	ppm
Avg	**4.112143**
Stddev	.041623
%RSD	1.012199
#1	4.153562
#2	4.070319
#3	4.112548

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5674.106**	**91929.00**	**8828.841**	**4771.465**	**6313.122**
Stddev	2.780	374.31	95.908	14.351	7.337
%RSD	.0489896	.4071771	1.086303	.3007746	.1162116
#1	5675.918	91498.22	8900.667	4779.018	6320.857
#2	5675.493	92174.89	8865.928	4754.914	6312.248
#3	5670.905	92113.89	8719.927	4780.462	6306.263

Sample Name: LLICV01 Acquired: 7/22/2025 12:10:21 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0218335**	**.0394859**	**.0132478**	**.0217301**	**.0525141**	**.1080063**
Stddev	.0018563	.0005644	.0013218	.0020799	.0009243	.0086269
%RSD	8.501914	1.429426	9.977214	9.571521	1.759997	7.987417
#1	.0197189	.0395251	.0146426	.0228852	.0527345	.1108187
#2	.0231946	.0400298	.0120138	.0193290	.0533081	.1148761
#3	.0225868	.0389029	.0130871	.0229760	.0514995	.0983242

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1014511**	**.0063010**	**.0057527**	**2.132009**	**.0107665**	**.0298230**
Stddev	.0002695	.0000509	.0000238	.009130	.0003387	.0000137
%RSD	.2656286	.8075298	.4139753	.4282458	3.146285	.0459063
#1	.1015604	.0063473	.0057296	2.122790	.0104739	.0298375
#2	.1016488	.0063093	.0057514	2.141047	.0106880	.0298102
#3	.1011442	.0062466	.0057772	2.132191	.0111376	.0298214

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0216691**	**.1071180**	**.0219559**	**2.196966**	**.0408721**	**.0104021**
Stddev	.0002501	.0013781	.0005588	.011695	.0004748	.0007509
%RSD	1.154428	1.286491	2.545102	.5323390	1.161769	7.218389
#1	.0213866	.1055820	.0216911	2.208241	.0413637	.0100245
#2	.0218625	.1082460	.0215787	2.197765	.0408365	.0112668
#3	.0217582	.1075260	.0225978	2.184891	.0404160	.0099150

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.836943**	**.0404138**	**.0425793**	**2.096919**	**.1071641**	**.2055257**
Stddev	.017057	.0036754	.0001933	.020794	.0006348	.0001212
%RSD	.9285349	9.094464	.4540027	.9916429	.5923159	.0589652
#1	1.819993	.0371741	.0423937	2.075816	.1077226	.2056347
#2	1.836730	.0444079	.0425646	2.097554	.1072959	.2053952
#3	1.854105	.0396595	.0427795	2.117389	.1064738	.2055473

Sample Name: LLICV01 Acquired: 7/22/2025 12:10:21 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0413888	.0421387	.3437351	F .1063364	F .0158238	F .0119024
Stddev	.0001359	.0003519	.0033986	.0013199	.0008680	.0006901
%RSD	.3283471	.8351848	.9887390	1.241217	5.485475	5.797741
#1	.0415007	.0423062	.3474360	.1069860	.0153467	.0126313
#2	.0414280	.0423756	.3430154	.1072054	.0168257	.0112591
#3	.0412375	.0417343	.3407540	.1048176	.0152990	.0118168

Elem	Sr4077
Units	ppm
Avg	.0206928
Stddev	.0001014
%RSD	.4897632
#1	.0206122
#2	.0208066
#3	.0206597

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5795.760	95274.33	8837.705	4886.562	6788.031
Stddev	8.809	150.77	47.681	14.857	13.765
%RSD	.1519818	.1582493	.5395208	.3040329	.2027776
#1	5793.246	95436.40	8810.450	4870.530	6778.439
#2	5788.482	95138.23	8809.904	4889.290	6781.853
#3	5805.552	95248.37	8892.762	4899.866	6803.803

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICB01 Acquired: 7/22/2025 12:27:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000150**	**-.001896**	**.0004995**	**.0001204**	**-.017975**	**-.009895**	**-.001905**
Stddev	.001669	.001200	.0006809	.0022800	.000828	.004340	.000692
%RSD	1113.572	63.29918	136.3144	1893.959	4.608893	43.85616	36.34616
#1	.001284	-.002513	-.000251	-.002293	-.017253	-.014233	-.001551
#2	.000248	-.002661	.001079	.002238	-.018880	-.005554	-.001461
#3	-.001982	-.000513	.000670	.000416	-.017792	-.009898	-.002703

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000071**	**.0000805**	**.0396341**	**.0003527**	**.0001875**	**.0004190**	**.0041671**
Stddev	.000072	.0000718	.0034855	.0001577	.0001456	.0003163	.0063771
%RSD	101.8164	89.23636	8.794247	44.71058	77.64959	75.49272	153.0361
#1	.000012	.0000447	.0435791	.0005309	.0001974	.0004737	.0052905
#2	-.000120	.0000336	.0369712	.0002313	.0000372	.0007043	-.002697
#3	-.000104	.0001631	.0383520	.0002958	.0003278	.0000789	.009908

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000256**	**-.005977**	**.0002224**	**-.000205**	**-.109906**	**-.002943**	**.0008094**
Stddev	.000410	.011367	.0003642	.000209	.003454	.001818	.0000749
%RSD	160.2919	190.1602	163.7893	101.9558	3.142304	61.77355	9.252528
#1	-.000195	-.019028	.0004668	-.000358	-.113499	-.000852	.0007230
#2	.000120	-.000665	-.000196	-.000289	-.109606	-.004154	.0008568
#3	-.000693	.001761	.000396	.000033	-.106612	-.003823	.0008482

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0392133**	**-.000271**	**.0003277**	**.0033872**	**.0025169**	**.0049253**	**.0057566**
Stddev	.0032691	.000550	.0001594	.0005143	.0016803	.0070824	.0003800
%RSD	8.336711	202.9422	48.62712	15.18393	66.76034	143.7965	6.601130
#1	.0419988	-.000803	.0001664	.0031422	.0031559	-.002047	.0058340
#2	.0356142	.000296	.0003318	.0030412	.0006108	.012113	.0053439
#3	.0400269	-.000307	.0004850	.0039782	.0037839	.004710	.0060919

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICB01 Acquired: 7/22/2025 12:27:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.005829**	**-.006168**	**-.000003**
Stddev	.001009	.000770	.000036
%RSD	17.30238	12.48048	1273.133
#1	-.006895	-.006612	-.000000
#2	-.004889	-.006612	.000031
#3	-.005703	-.005279	-.000040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5803.488**	**95634.73**	**9059.876**	**4880.040**	**6844.222**
Stddev	5.578	277.80	55.883	12.187	3.974
%RSD	.0961075	.2904762	.6168220	.2497333	.0580687
#1	5802.500	95940.63	9027.097	4893.618	6843.377
#2	5798.471	95565.39	9124.402	4876.451	6840.739
#3	5809.494	95398.18	9028.129	4870.050	6848.551

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CRI01 Acquired: 7/22/2025 12:32:21 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0205155**	**.0396162**	**.0123592**	**.0212332**	**.0545094**	**.1022436**
Stddev	.0019371	.0004634	.0012488	.0003527	.0016262	.0039233
%RSD	9.442312	1.169588	10.10409	1.661129	2.983420	3.837201
#1	.0182862	.0399431	.0133119	.0214946	.0527770	.0989286
#2	.0214711	.0398194	.0128202	.0213729	.0560032	.1012273
#3	.0217890	.0390859	.0109455	.0208320	.0547480	.1065751

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0994600**	**.0059951**	**.0056546**	**2.102848**	**.0105453**	**.0296025**
Stddev	.0011187	.0000918	.0000780	.012403	.0002355	.0003630
%RSD	1.124817	1.530975	1.378965	.5898124	2.233068	1.226220
#1	.0984362	.0058964	.0055914	2.103856	.0106280	.0291904
#2	.1006541	.0060778	.0057417	2.114717	.0102796	.0298747
#3	.0992896	.0060112	.0056307	2.089972	.0107282	.0297425

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0215734**	**.1077998**	**.0225157**	**2.173038**	**.0412098**	**.0096921**
Stddev	.0002685	.0060235	.0004749	.015002	.0002138	.0005877
%RSD	1.244411	5.587706	2.109105	.6903891	.5188662	6.063569
#1	.0212651	.1086497	.0219958	2.159829	.0410476	.0100283
#2	.0217002	.1013964	.0226247	2.169936	.0411298	.0100346
#3	.0217550	.1133532	.0229267	2.189349	.0414522	.0090135

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.768914**	**.0351815**	**.0438251**	**2.031684**	**.1004724**	**.2023004**
Stddev	.020912	.0021661	.0001926	.034293	.0012379	.0007137
%RSD	1.182201	6.156934	.4394761	1.687926	1.232053	.3527866
#1	1.780067	.0326804	.0439506	2.021965	.0992212	.2028317
#2	1.744790	.0364501	.0436033	2.003299	.1016965	.2025803
#3	1.781886	.0364141	.0439213	2.069788	.1004994	.2014892

Sample Name: CRI01 Acquired: 7/22/2025 12:32:21 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0414851	.0425570	.3426392	F .1157704	.0143973	F .0115811
Stddev	.0008060	.0024129	.0076100	.0033041	.0023843	.0004687
%RSD	1.942883	5.669751	2.220982	2.853983	16.56099	4.047363
#1	.0407728	.0405115	.3486640	.1187785	.0116826	.0112933
#2	.0423600	.0452180	.3340872	.1162986	.0161521	.0113280
#3	.0413223	.0419416	.3451666	.1122340	.0153572	.0121220

Elem	Sr4077
Units	ppm
Avg	.0202172
Stddev	.0000792
%RSD	.3915674
#1	.0201321
#2	.0202307
#3	.0202887

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5733.061	95458.71	9061.069	4880.641	6691.589
Stddev	13.356	265.09	85.989	14.539	13.931
%RSD	.2329596	.2777030	.9489934	.2978845	.2081793
#1	5718.418	95715.83	9159.480	4872.132	6675.724
#2	5744.573	95473.98	9000.435	4897.428	6701.822
#3	5736.191	95186.31	9023.293	4872.363	6697.220

Sample Name: ICSA01 Acquired: 7/22/2025 12:37:04 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0106702**	**.0092964**	**-.003808**	**-.009014**	**-.002097**	**252.3147**
Stddev	.0014513	.0038138	.002385	.003628	.000708	1.3557
%RSD	13.60098	41.02459	62.63446	40.25497	33.74610	.5372860
#1	.0089965	.0049090	-.005689	-.011848	-.002732	251.6375
#2	.0115794	.0111616	-.004609	-.004924	-.002225	251.4311
#3	.0114347	.0118187	-.001125	-.010268	-.001334	253.8755

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022624**	**.0005406**	**-.001248**	**241.7068**	**.0559268**	**.0022237**
Stddev	.0011142	.0000262	.000217	.3990	.0005726	.0002173
%RSD	49.24997	4.839530	17.40859	.1650907	1.023859	9.773510
#1	.0034444	.0005104	-.001126	241.8897	.0562957	.0019737
#2	.0012314	.0005563	-.001499	241.2491	.0562175	.0023296
#3	.0021115	.0005551	-.001120	241.9816	.0552671	.0023677

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208886**	**101.5795**	**.0077899**	**255.9808**	**.0037804**	**.0038127**
Stddev	.0009531	.6132	.0006938	.3542	.0005598	.0008041
%RSD	4.562610	.6036198	8.905846	.1383737	14.80849	21.08956
#1	.0206426	101.0922	.0082540	256.1610	.0039962	.0036762
#2	.0200826	102.2680	.0081233	256.2087	.0042003	.0046764
#3	.0219405	101.3784	.0069924	255.5728	.0031448	.0030857

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0630590**	**.0047641**	**.0024760**	**.1985441**	**.0414048**	**-.000088**
Stddev	.0151695	.0007866	.0002041	.0201862	.0028797	.000737
%RSD	24.05607	16.51068	8.242713	10.16709	6.954888	839.7024
#1	.0517530	.0054664	.0023304	.2123854	.0387687	-.000304
#2	.0802984	.0049118	.0023882	.1753817	.0444780	.000733
#3	.0571256	.0039142	.0027093	.2078652	.0409677	-.000693

Sample Name: ICSA01 Acquired: 7/22/2025 12:37:04 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.000118	-.001842	.0151901	.0108174	-.015733	F .0484419
Stddev	.000561	.002126	.0124807	.0038121	.003146	.0017386
%RSD	475.0129	115.4173	82.16328	35.24041	19.99610	3.589059
#1	-.000347	-.002491	.0268395	.0147480	-.013917	.0469187
#2	.000521	-.003568	.0167130	.0105682	-.019366	.0503360
#3	-.000528	.000533	.0020179	.0071360	-.013916	.0480710

Elem	Sr4077
Units	ppm
Avg	.0044400
Stddev	.0007563
%RSD	17.03392
#1	.0048764
#2	.0035667
#3	.0048769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5152.992	84411.67	8671.647	4327.363	5558.184
Stddev	10.533	376.33	39.223	6.190	12.181
%RSD	.2044151	.4458327	.4523147	.1430420	.2191516
#1	5154.108	84311.20	8626.390	4323.075	5555.812
#2	5162.924	84095.76	8695.786	4324.555	5571.376
#3	5141.946	84828.04	8692.766	4334.459	5547.363

Sample Name: ICSAB01 Acquired: 7/22/2025 12:48:17 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1027990**	**.1043271**	**.0420547**	**.0407162**	**.5829719**	**251.3580**
Stddev	.0014414	.0021087	.0005694	.0011325	.0018712	1.5687
%RSD	1.402133	2.021256	1.353898	2.781526	.3209675	.6240714
#1	.1013500	.1059535	.0426239	.0404801	.5848530	252.0824
#2	.1028143	.1019446	.0420550	.0397202	.5811108	252.4335
#3	.1042327	.1050832	.0414851	.0419481	.5829521	249.5580

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4937986**	**.4742278**	**.9143248**	**242.7067**	**.5355813**	**.4798261**
Stddev	.0021214	.0025422	.0003436	1.9323	.0020928	.0002695
%RSD	.4295992	.5360743	.0375805	.7961511	.3907497	.0561700
#1	.4962384	.4756618	.9140379	244.7814	.5340885	.4801256
#2	.4927675	.4757290	.9142310	242.3803	.5346820	.4796031
#3	.4923900	.4712926	.9147056	240.9583	.5379734	.4797497

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4762280**	**100.7207**	**.4856484**	**255.0961**	**.9609545**	**.2095231**
Stddev	.0003964	.6002	.0020407	.7092	.0004727	.0006891
%RSD	.0832399	.5959408	.4202081	.2780100	.0491934	.3289066
#1	.4766393	100.8168	.4879639	255.9036	.9612274	.2088463
#2	.4761962	100.0782	.4848693	254.5748	.9604086	.2094990
#3	.4758484	101.2670	.4841119	254.8098	.9612275	.2102239

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039765**	**.4606250**	**1.017466**	**-.045993**	**.9765279**	**1.016140**
Stddev	.0044739	.0009848	.004292	.009046	.0032627	.001722
%RSD	112.5090	.2138025	.4217859	19.66887	.3341100	.1694923
#1	.0003266	.4595508	1.019384	-.039761	.9794803	1.016361
#2	.0026353	.4608391	1.020464	-.041849	.9770783	1.014318
#3	.0089675	.4614853	1.012550	-.056369	.9730250	1.017741

Sample Name: ICSAB01 Acquired: 7/22/2025 12:48:17 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.9973294	.9568407	.9349662	F .0118446	F -.011697	F .0505877
Stddev	.0045555	.0022710	.0214549	.0035734	.003040	.0017047
%RSD	.4567647	.2373456	2.294726	30.16892	25.98780	3.369814
#1	.9994405	.9544011	.9107427	.0159695	-.013809	.0513611
#2	1.000446	.9572275	.9425806	.0096924	-.008213	.0486334
#3	.992101	.9588934	.9515755	.0098718	-.013068	.0517687

Elem	Sr4077
Units	ppm
Avg	F .0056151
Stddev	.0011088
%RSD	19.74626
#1	.0063165
#2	.0061921
#3	.0043368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5192.448	85090.56	8662.393	4336.096	5601.008
Stddev	3.088	184.68	57.484	21.969	7.993
%RSD	.0594710	.2170366	.6636013	.5066639	.1427007
#1	5189.910	85167.99	8617.421	4314.746	5596.124
#2	5191.548	85223.92	8642.600	4334.906	5596.668
#3	5195.886	84879.77	8727.158	4358.636	5610.231

Sample Name: ICSADLX20 Acquired: 7/22/2025 12:52:26 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000050**	**-.000982**	**.0000924**	**-.002161**	**-.000909**	**12.14693**	**-.000710**
Stddev	.001387	.002772	.0006404	.002094	.000904	.04137	.000589
%RSD	2788.001	282.1670	692.7846	96.92125	99.46976	.3405928	82.94814
#1	-.001168	-.004020	-.000647	-.000182	-.001953	12.12482	-.001386
#2	.001503	-.000335	.000470	-.004354	-.000374	12.12132	-.000432
#3	-.000484	.001409	.000455	-.001946	-.000400	12.19466	-.000311

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001376**	**.0000389**	**12.31387**	**.0027344**	**.0003280**	**.0022103**	**4.889200**
Stddev	.0000631	.0000799	.07638	.0005364	.0000733	.0004252	.035878
%RSD	45.87938	205.6108	.6202564	19.61579	22.34690	19.23867	.7338148
#1	.0000918	.0000207	12.24805	.0025741	.0004123	.0017504	4.909658
#2	.0001113	.0001263	12.29594	.0022965	.0002921	.0025893	4.847773
#3	.0002096	-.000030	12.39761	.0033327	.0002795	.0022913	4.910168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000861**	**12.55451**	**.0003826**	**-.000244**	**-.114325**	**-.000802**	**.0005989**
Stddev	.0005430	.04809	.0002164	.000153	.007455	.001075	.0000698
%RSD	630.6880	.3830175	56.56608	62.58052	6.520614	133.9504	11.65571
#1	-.000228	12.55854	.0002087	-.000068	-.106376	-.001418	.0006136
#2	.000713	12.50454	.0006250	-.000339	-.115437	-.001428	.0005229
#3	-.000227	12.60046	.0003141	-.000324	-.121160	.000439	.0006602

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.085195**	**-.000126**	**.0002959**	**.0019865**	**.0037507**	**.0070959**	**.0008110**
Stddev	.011636	.000510	.0001600	.0001881	.0021224	.0023070	.0026843
%RSD	13.65763	405.8046	54.08095	9.467674	56.58597	32.51190	330.9857
#1	-.073149	.000019	.0004688	.0018398	.0013147	.0079743	.0030199
#2	-.086065	-.000692	.0002659	.0019213	.0052006	.0044787	-.002177
#3	-.096372	.000297	.0001530	.0021986	.0047369	.0088347	.001590

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICSADLX20 Acquired: 7/22/2025 12:52:26 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.008718**	**-.007685**	**.0002107**
Stddev	.002276	.003165	.0001377
%RSD	26.10453	41.18802	65.36902
#1	-.006938	-.009187	.0000824
#2	-.011283	-.004048	.0003563
#3	-.007934	-.009820	.0001935

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5718.368**	**92599.71**	**8882.179**	**4752.655**	**6676.270**
Stddev	9.589	51.11	58.836	6.136	15.236
%RSD	.1676843	.0551947	.6624035	.1291020	.2282172
#1	5728.191	92560.21	8947.956	4745.623	6679.854
#2	5717.881	92657.43	8864.014	4756.919	6689.396
#3	5709.032	92581.48	8834.568	4755.424	6659.561

Sample Name: ICSABDLX20 Acquired: 7/22/2025 12:56:43 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0042504**	**.0057753**	**.0017497**	**.0016220**	**.0282551**	**11.78560**	**.0238820**
Stddev	.0018988	.0012448	.0002869	.0019561	.0012727	.02034	.0008606
%RSD	44.67282	21.55355	16.39902	120.6022	4.504464	.1725594	3.603464
#1	.0021015	.0069158	.0020810	.0017327	.0296403	11.78666	.0246387
#2	.0057018	.0059627	.0015876	.0035205	.0279880	11.76475	.0229459
#3	.0049479	.0044475	.0015806	-.000387	.0271372	11.80539	.0240615

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0237474**	**.0444314**	**11.99519**	**.0264440**	**.0231303**	**.0249959**	**4.760900**
Stddev	.0000791	.0000560	.03996	.0002302	.0001252	.0001595	.040458
%RSD	.3331837	.1261315	.3331445	.8706150	.5412079	.6379822	.8497987
#1	.0236946	.0444258	11.96263	.0266822	.0230427	.0251234	4.789898
#2	.0237093	.0443784	11.98316	.0264271	.0230745	.0248171	4.778123
#3	.0238384	.0444901	12.03979	.0262226	.0232737	.0250473	4.714681

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0244836**	**12.13202**	**.0471431**	**.0100034**	**-.114719**	**.0204475**	**.0492102**
Stddev	.0001337	.02860	.0002166	.0006176	.011266	.0014889	.0003635
%RSD	.5459717	.2357231	.4594082	6.174320	9.820832	7.281529	.7387554
#1	.0244633	12.16504	.0473931	.0106416	-.112991	.0220216	.0494059
#2	.0243613	12.11562	.0470225	.0094086	-.104416	.0202591	.0487907
#3	.0246263	12.11540	.0470136	.0099600	-.126749	.0190618	.0494339

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.113412**	**-.000342**	**.0000639**	**.0022435**	**.0043383**	**.0043828**	**.0014883**
Stddev	.019215	.000509	.0003696	.0004001	.0000599	.0029888	.0002309
%RSD	16.94269	148.8003	578.4735	17.83538	1.380446	68.19303	15.51767
#1	-.109028	-.000770	.0001184	.0021424	.0043003	.0065870	.0012416
#2	-.096767	-.000478	-.000330	.0019036	.0044073	.0055804	.0016993
#3	-.134440	.000221	.000403	.0026844	.0043072	.0009810	.0015239

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: ICSABDLX20 Acquired: 7/22/2025 12:56:43 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.007184	-.006759	.0002111
Stddev	.002197	.002475	.0001065
%RSD	30.58854	36.62260	50.47355
#1	-.009340	-.008128	.0001622
#2	-.007264	-.003901	.0001377
#3	-.004947	-.008246	.0003333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5678.952	92359.00	8907.154	4767.834	6587.940
Stddev	1.099	225.46	34.848	8.587	6.397
%RSD	.0193500	.2441151	.3912333	.1800976	.0971001
#1	5680.099	92467.37	8905.837	4768.574	6594.937
#2	5677.908	92099.81	8942.642	4776.026	6586.493
#3	5678.849	92509.81	8872.983	4758.901	6582.391

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV01 Acquired: 7/22/2025 13:00:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.011047**	**5.166205**	**4.923636**	**5.034678**	**5.048602**	**10.00188**	**10.13640**
Stddev	.031498	.102279	.007243	.030471	.028748	.02220	.10443
%RSD	.6285714	1.979769	.1471045	.6052270	.5694314	.2219279	1.030198
#1	4.977543	5.048914	4.916897	5.003709	5.021880	10.02210	10.10114
#2	5.015542	5.212891	4.922717	5.035701	5.044908	9.97813	10.05417
#3	5.040055	5.236810	4.931295	5.064625	5.079019	10.00543	10.25389

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2465823**	**2.474458**	**25.49801**	**.9837533**	**2.483824**	**1.257466**	**5.030741**
Stddev	.0010867	.005460	.17913	.0020961	.002467	.004943	.002042
%RSD	.4406938	.2206406	.7025337	.2130680	.0993171	.3930586	.0405912
#1	.2474245	2.469819	25.60387	.9835586	2.481113	1.254490	5.032981
#2	.2453557	2.473080	25.29118	.9859400	2.484425	1.254737	5.028984
#3	.2469668	2.480474	25.59897	.9817615	2.485935	1.263172	5.030259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.533094**	**24.95707**	**2.490865**	**1.256720**	**24.50390**	**2.501227**	**2.531970**
Stddev	.009573	.13737	.002868	.002680	.20645	.001912	.002626
%RSD	.3779264	.5504404	.1151574	.2132156	.8425104	.0764451	.1037159
#1	2.539522	25.04758	2.488370	1.253831	24.40580	2.502520	2.530467
#2	2.522092	24.79900	2.490226	1.257205	24.74111	2.499030	2.535003
#3	2.537669	25.02464	2.493999	1.259124	24.36479	2.502131	2.530441

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.86603**	**5.039691**	**5.077413**	**4.989556**	**4.943429**	**4.899527**	**4.920297**
Stddev	.14435	.037701	.021445	.016268	.003898	.032907	.017319
%RSD	.5805180	.7480850	.4223642	.3260423	.0788580	.6716292	.3519894
#1	24.81826	5.049401	5.061215	4.978904	4.943372	4.870310	4.900775
#2	25.02821	4.998085	5.069292	4.981483	4.947355	4.935174	4.926303
#3	24.75162	5.071587	5.101733	5.008282	4.939559	4.893097	4.933814

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV01 Acquired: 7/22/2025 13:00:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**4.947776**	**4.945125**	**5.142370**
Stddev	.021304	.003392	.088690
%RSD	.4305855	.0685831	1.724684
#1	4.923194	4.945942	5.073392
#2	4.959254	4.948034	5.111305
#3	4.960881	4.941400	5.242414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5583.829**	**91879.10**	**8809.685**	**4709.728**	**6222.025**
Stddev	17.796	182.78	55.646	12.723	12.483
%RSD	.3186972	.1989331	.6316401	.2701406	.2006299
#1	5586.372	92066.61	8792.531	4711.466	6223.810
#2	5600.216	91701.45	8871.888	4721.493	6233.520
#3	5564.899	91869.25	8764.637	4696.226	6208.746

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB01 Acquired: 7/22/2025 13:05:32 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0012413**	**.0002300**	**.0020584**	**-.000524**	**.0002808**	**-.001687**	**.0002002**
Stddev	.0026033	.0008387	.0005324	.002160	.0012168	.003991	.0008862
%RSD	209.7259	364.6101	25.86379	412.2551	433.3899	236.4779	442.7141
#1	.0009180	-.000707	.0015726	.001281	.0013904	-.002107	.0010635
#2	.0039911	.000912	.0026276	-.002917	-.001020	.002496	-.000707
#3	-.001185	.000485	.0019751	.000064	.000472	-.005452	.000244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**.0002580**	**.0473352**	**-.000157**	**.0002686**	**.0002690**	**-.005562**
Stddev	.000032	.0000063	.0046445	.000216	.0001085	.0006939	.005235
%RSD	175.7635	2.431132	9.811994	137.5475	40.38709	257.9396	94.12221
#1	.000016	.0002594	.0442571	-.000217	.0002819	.0008220	-.011429
#2	-.000047	.0002511	.0526776	.000083	.0001541	-.000510	-.003891
#3	-.000024	.0002634	.0450708	-.000337	.0003699	.000495	-.001367

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002562**	**-.000078**	**.0001900**	**.0000033**	**-.163627**	**-.000542**	**.0008407**
Stddev	.0005064	.005889	.0001676	.0002746	.008529	.002034	.0001916
%RSD	197.6412	7578.934	88.21017	8248.541	5.212402	374.8896	22.78757
#1	.0002645	.004725	.0003798	-.000286	-.155431	-.000506	.0006360
#2	-.000254	-.006648	.0000622	.000261	-.172454	.001473	.0008705
#3	.000758	.001690	.0001281	.000035	-.162996	-.002594	.0010157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.102310**	**.0032234**	**.0009932**	**.0034830**	**.0066376**	**.0007939**	**.0030166**
Stddev	.020779	.0008706	.0002020	.0007883	.0021581	.0084624	.0011100
%RSD	20.31028	27.01033	20.33912	22.63200	32.51326	1065.929	36.79802
#1	-.096210	.0042287	.0007760	.0043923	.0048683	-.001769	.0042655
#2	-.125456	.0027267	.0010283	.0029921	.0060024	-.006091	.0021424
#3	-.085263	.0027147	.0011754	.0030647	.0090420	.010242	.0026419

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB01 Acquired: 7/22/2025 13:05:32 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.006754**	**-.008959**	**.0002693**
Stddev	.001125	.003356	.0001205
%RSD	16.65057	37.46142	44.73153
#1	-.006909	-.005880	.0003881
#2	-.007794	-.012537	.0001473
#3	-.005560	-.008462	.0002725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5755.360**	**93648.49**	**8614.615**	**4802.088**	**6853.247**
Stddev	7.859	232.54	67.164	18.734	12.254
%RSD	.1365432	.2483075	.7796536	.3901188	.1788052
#1	5748.951	93889.40	8591.882	4812.416	6841.646
#2	5764.128	93425.35	8690.195	4780.463	6866.064
#3	5753.000	93630.72	8561.767	4813.384	6852.032

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2640-01 Acquired: 7/22/2025 13:11:50 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0256460	-.004710	.1364763	-.003235	.0010587	51.83033
Stddev	.0002792	.002571	.0009133	.002140	.0010871	.13447
%RSD	1.088667	54.57945	.6692206	66.16517	102.6835	.2594380
#1	.0257836	-.003624	.1375270	-.005299	.0019382	51.77404
#2	.0253247	-.007646	.1358718	-.001026	-.000157	51.98379
#3	.0258297	-.002861	.1360302	-.003380	.001395	51.73315

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4790882	.0021986	-.000315	55.64791	.1951588	.0251552
Stddev	.0015820	.0001055	.000061	.33680	.0014005	.0002203
%RSD	.3302137	4.799996	19.27582	.6052328	.7176079	.8757695
#1	.4775803	.0021213	-.000361	55.26087	.1935460	.0253932
#2	.4807351	.0021556	-.000246	55.87432	.1958623	.0251141
#3	.4789491	.0023188	-.000338	55.80855	.1960680	.0249584

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1446263	45.26036	.5469340	14.74179	.0592268	.0025684
Stddev	.0006714	.14172	.0021147	.05543	.0002235	.0001320
%RSD	.4641992	.3131294	.3866448	.3760068	.3773503	5.140202
#1	.1447985	45.24259	.5444925	14.73900	.0591345	.0027188
#2	.1451949	45.12836	.5481897	14.79856	.0594816	.0025150
#3	.1438857	45.41014	.5481198	14.68780	.0590642	.0024716

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.69305	.1380724	.2309060	95.62361	.1333603	.2090052
Stddev	.25982	.0014918	.0018102	.21934	.0004176	.0004104
%RSD	.2896716	1.080425	.7839331	.2293795	.3131356	.1963795
#1	89.61142	.1373250	.2328789	95.40849	.1336148	.2092096
#2	89.48384	.1371022	.2305172	95.61539	.1335878	.2085327
#3	89.98387	.1397902	.2293218	95.84694	.1328784	.2092733

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2640-01 Acquired: 7/22/2025 13:11:50 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.001786	1.454846	F 83.50184	1.913011	19.04203	.0875925
Stddev	.000357	.008437	.19064	.005239	.09957	.0030388
%RSD	19.99721	.5799275	.2283071	.2738420	.5228908	3.469202
#1	-.002192	1.463942	83.47767	1.919000	18.94004	.0848965
#2	-.001521	1.447276	83.32444	1.909284	19.04705	.0908854
#3	-.001643	1.453321	83.70342	1.910747	19.13898	.0869955

Elem	Sr4077
Units	ppm
Avg	.2332963
Stddev	.0010400
%RSD	.4457754
#1	.2323917
#2	.2344326
#3	.2330647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5892.202	96636.40	9723.460	4927.335	5978.234
Stddev	6.392	88.60	40.230	37.444	6.346
%RSD	.1084844	.0916875	.4137390	.7599213	.1061508
#1	5885.093	96686.53	9758.143	4885.290	5974.397
#2	5897.476	96688.56	9679.356	4939.627	5985.559
#3	5894.036	96534.09	9732.882	4957.087	5974.747

Sample Name: Q2641-02 Acquired: 7/22/2025 13:15:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.005983**	**-.003926**	**.0009194**	**.0046470**	**.0014778**	**.2299141**	**.0704091**
Stddev	.001517	.001276	.0003550	.0034521	.0013426	.0071750	.0001410
%RSD	25.34816	32.49370	38.61334	74.28548	90.85119	3.120740	.2001820
#1	-.006470	-.004400	.0013187	.0025584	.0023484	.2242652	.0705330
#2	-.004283	-.004896	.0007999	.0086316	.0021536	.2379872	.0702558
#3	-.007196	-.002481	.0006396	.0027511	-.000068	.2274900	.0704385

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000202**	**-.000181**	**163.7148**	**.0123682**	**-.000132**	**.0022442**	**.0399523**
Stddev	.000073	.000090	.8756	.0002491	.000032	.0003428	.0050493
%RSD	36.17274	49.88193	.5348604	2.014102	23.98908	15.27531	12.63821
#1	-.000277	-.000197	162.9248	.0126553	-.000167	.0021661	.0437218
#2	-.000132	-.000262	164.6563	.0122396	-.000106	.0026194	.0342155
#3	-.000196	-.000084	163.5634	.0122097	-.000123	.0019472	.0419197

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020495**	**.0409502**	**.0012925**	**-.000544**	**304.2057**	**.0010436**	**.0064003**
Stddev	.0003245	.0145780	.0004232	.000181	4.9536	.0015584	.0005409
%RSD	15.83401	35.59926	32.73978	33.20701	1.628368	149.3193	8.451552
#1	.0016802	.0251042	.0016846	-.000431	299.4353	-.000489	.0061049
#2	.0021796	.0537921	.0013489	-.000752	303.8576	.000994	.0060713
#3	.0022888	.0439541	.0008439	-.000449	309.3241	.002626	.0070246

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001174**	**.0027938**	**.0037739**	**-.004235**	**-.000528**	**.7956366**	**.0096312**
Stddev	.034697	.0006862	.0003761	.000246	.003111	.0079594	.0032253
%RSD	3.465610	24.56109	9.966310	5.802629	589.3382	1.000384	33.48768
#1	1.006166	.0033902	.0035702	-.004518	.002651	.7889233	.0119807
#2	1.033105	.0020438	.0035437	-.004074	-.000669	.8044294	.0109591
#3	.964252	.0029474	.0042080	-.004114	-.003566	.7935572	.0059540

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2641-02 Acquired: 7/22/2025 13:15:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	3.190744	-.000822	1.042136
Stddev	.017251	.002104	.002692
%RSD	.5406537	255.9439	.2582998
#1	3.201332	-.002621	1.040278
#2	3.200062	.001491	1.045223
#3	3.170838	-.001336	1.040907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5262.702	87883.19	8777.224	4435.434	5775.425
Stddev	4.677	176.16	57.556	9.313	5.664
%RSD	.0888745	.2004460	.6557386	.2099590	.0980755
#1	5257.653	88055.24	8834.227	4445.978	5768.889
#2	5266.887	87703.19	8719.131	4431.993	5778.501
#3	5263.567	87891.13	8778.314	4428.332	5778.887

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2645-03 Acquired: 7/22/2025 13:20:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002302**	**-.002781**	**-.000433**	**.0064074**	**.0011908**	**.0022519**	**.1293763**
Stddev	.002732	.000630	.000892	.0035138	.0003544	.0058972	.0009210
%RSD	118.7209	22.64627	206.2157	54.83969	29.76260	261.8733	.7118582
#1	-.000996	-.002687	-.001324	.0025219	.0013836	-.000986	.1302671
#2	-.000467	-.002203	.000461	.0093621	.0014071	.009059	.1294339
#3	-.005442	-.003452	-.000435	.0073382	.0007818	-.001317	.1284279

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000161**	**-.000091**	**.7867627**	**-.000192**	**.0006818**	**.0023236**	**.0119792**
Stddev	.000058	.000083	.0090049	.000275	.0000930	.0004724	.0030722
%RSD	35.95465	92.09407	1.144548	143.0461	13.64676	20.33030	25.64617
#1	-.000128	-.000110	.7928100	-.000507	.0005890	.0019299	.0095730
#2	-.000128	.000001	.7910645	.000002	.0006813	.0021934	.0154397
#3	-.000229	-.000163	.7764138	-.000072	.0007751	.0028474	.0109249

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0209591**	**.3173074**	**-.000116**	**-.000041**	**367.4098**	**-.002357**	**.1895539**
Stddev	.0005236	.0146225	.000107	.000410	3.8174	.001452	.0003869
%RSD	2.498252	4.608297	91.89174	992.8874	1.039006	61.59583	.2041272
#1	.0215536	.3180986	-.000016	.000306	371.6588	-.001359	.1893283
#2	.0207576	.3023054	-.000104	-.000493	366.3016	-.004022	.1900007
#3	.0205663	.3315182	-.000228	.000063	364.2692	-.001690	.1893328

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5699711**	**.0643881**	**.0010191**	**-.001998**	**.0050812**	**.6382665**	**.0097620**
Stddev	.0421568	.0004223	.0000739	.000338	.0018154	.0192150	.0007833
%RSD	7.396297	.6558386	7.254967	16.91849	35.72676	3.010494	8.023621
#1	.5387763	.0642752	.0010038	-.002287	.0031890	.6599396	.0092752
#2	.5532055	.0648553	.0010995	-.001626	.0052462	.6233161	.0093452
#3	.6179314	.0640337	.0009541	-.002082	.0068084	.6315439	.0106655

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2645-03 Acquired: 7/22/2025 13:20:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**7.097858**	**-.013469**	**.0109898**
Stddev	.064734	.002436	.0001378
%RSD	.9120241	18.08927	1.254029
#1	7.172593	-.013591	.0108440
#2	7.059266	-.010974	.0111180
#3	7.061714	-.015842	.0110074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5432.828**	**89513.88**	**8943.369**	**4554.702**	**6022.546**
Stddev	12.310	212.88	39.922	5.034	3.169
%RSD	.2265774	.2378219	.4463915	.1105276	.0526225
#1	5425.067	89576.78	8942.343	4549.182	6018.909
#2	5426.395	89688.23	8903.970	4559.040	6024.007
#3	5447.021	89276.63	8983.795	4555.883	6024.720

Sample Name: Q2649-04 Acquired: 7/22/2025 13:24:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002995**	**-.002614**	**.0058105**	**.0042964**	**.0004934**	**.1089935**	**.2950936**
Stddev	.000626	.000189	.0006016	.0028930	.0009527	.0036845	.0016426
%RSD	20.90030	7.231924	10.35345	67.33460	193.0732	3.380454	.5566436
#1	-.002624	-.002630	.0051202	.0021986	.0012026	.1087808	.2968531
#2	-.003718	-.002795	.0060885	.0075968	-.000589	.1054200	.2936004
#3	-.002643	-.002418	.0062228	.0030939	.000867	.1127798	.2948273

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000980**	**.0007236**	**10.30584**	**.0070174**	**.0035449**	**.0370821**	**.1125611**
Stddev	.0000043	.0000369	.06943	.0002204	.0001305	.0003349	.0050659
%RSD	4.371756	5.098458	.6737298	3.141147	3.679971	.9030896	4.500590
#1	.0001025	.0006811	10.36565	.0071589	.0035730	.0372990	.1087548
#2	.0000977	.0007474	10.32219	.0071298	.0034028	.0372510	.1106174
#3	.0000939	.0007424	10.22970	.0067634	.0036591	.0366964	.1183110

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3132128**	**1.804958**	**.0060105**	**-.000097**	**436.3877**	**-.000574**	**.1574629**
Stddev	.0012027	.012591	.0003236	.000581	1.5155	.001026	.0007454
%RSD	.3839803	.6975601	5.384703	599.4555	.3472790	178.6945	.4733787
#1	.3141444	1.816048	.0060543	.000429	436.6786	.000383	.1582170
#2	.3136390	1.807556	.0056672	.000002	437.7366	-.001656	.1567265
#3	.3118551	1.791271	.0063100	-.000721	434.7478	-.000449	.1574453

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.605756**	**.0368455**	**.0011237**	**-.001690**	**.0044928**	**1.859704**	**.0187438**
Stddev	.032468	.0008415	.0001402	.000322	.0019251	.012085	.0029328
%RSD	2.021971	2.283873	12.47284	19.04752	42.84917	.6498331	15.64702
#1	1.606803	.0375227	.0011228	-.001611	.0067148	1.873137	.0217359
#2	1.637688	.0359034	.0012643	-.002045	.0033251	1.849714	.0186217
#3	1.572778	.0371103	.0009840	-.001416	.0034386	1.856262	.0158740

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-04 Acquired: 7/22/2025 13:24:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.4729492	-.009924	.0656716
Stddev	.0063080	.001817	.0003167
%RSD	1.333758	18.31333	.4821753
#1	.4672534	-.011739	.0660333
#2	.4718653	-.008104	.0655377
#3	.4797290	-.009929	.0654440

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5334.404	88309.61	8957.597	4487.192	5844.694
Stddev	8.859	315.87	43.241	21.158	11.896
%RSD	.1660723	.3576846	.4827331	.4715247	.2035345
#1	5337.229	88150.62	8909.975	4463.140	5846.613
#2	5341.506	88104.83	8968.411	4502.933	5855.515
#3	5324.477	88673.39	8994.405	4495.502	5831.956

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-08 Acquired: 7/22/2025 13:29:09 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002225**	**-.003302**	**.0082687**	**.0028026**	**.0007519**	**.1619160**	**.3666755**
Stddev	.003337	.000774	.0017158	.0020697	.0007013	.0028774	.0008108
%RSD	149.9641	23.43931	20.75066	73.84985	93.26523	1.777071	.2211170
#1	-.005019	-.003637	.0097501	.0051504	.0015094	.1616364	.3673329
#2	-.003126	-.002417	.0086675	.0020156	.0006213	.1591887	.3657695
#3	.001470	-.003853	.0063887	.0012418	.0001251	.1649230	.3669239

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000573**	**.0001548**	**15.54779**	**.0003982**	**.0007455**	**.0118913**	**.0707851**
Stddev	.0000367	.0000155	.08829	.0000678	.0000811	.0007375	.0025511
%RSD	63.93482	10.02175	.5678787	17.02378	10.88299	6.202118	3.604060
#1	.0000153	.0001532	15.60590	.0004730	.0007040	.0117131	.0690073
#2	.0000824	.0001402	15.44619	.0003806	.0006935	.0112592	.0696399
#3	.0000743	.0001711	15.59129	.0003409	.0008390	.0127016	.0737082

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0940996**	**.8349722**	**.0015423**	**-.000151**	**322.6023**	**-.000795**	**.1024527**
Stddev	.0002480	.0137847	.0000696	.000320	4.7600	.003352	.0004432
%RSD	.2635480	1.650919	4.513537	212.0165	1.475489	421.7532	.4325777
#1	.0943744	.8285406	.0015840	-.000205	327.2442	-.004472	.1019756
#2	.0938926	.8255787	.0014620	-.000441	322.8302	-.000002	.1028515
#3	.0940317	.8507973	.0015811	.000193	317.7324	.002089	.1025311

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.741889**	**.0412908**	**.0006969**	**-.002776**	**.0064549**	**2.181679**	**.0196437**
Stddev	.014250	.0001960	.0001343	.000803	.0004000	.007329	.0010812
%RSD	.8181026	.4747203	19.26518	28.93648	6.197103	.3359389	5.504051
#1	1.737049	.0412004	.0005508	-.003352	.0066659	2.173236	.0197671
#2	1.730689	.0415157	.0007251	-.001859	.0067052	2.185409	.0206580
#3	1.757929	.0411563	.0008149	-.003119	.0059935	2.186394	.0185061

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-08 Acquired: 7/22/2025 13:29:09 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.4739581	-.008445	.1600976
Stddev	.0016911	.002683	.0005192
%RSD	.3568004	31.76978	.3242916
#1	.4730335	-.005353	.1606130
#2	.4729309	-.010159	.1595747
#3	.4759099	-.009824	.1601052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5465.685	91925.02	9160.190	4630.054	6060.626
Stddev	26.941	74.06	27.738	4.838	17.598
%RSD	.4929106	.0805672	.3028128	.1044929	.2903659
#1	5470.273	91862.15	9137.082	4624.505	6063.552
#2	5490.037	92006.66	9190.951	4632.273	6076.577
#3	5436.745	91906.25	9152.536	4633.385	6041.748

Sample Name: Q2649-12 Acquired: 7/22/2025 13:33:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002179**	**-.004151**	**.0090927**	**.0018782**	**.0002828**	**.2822931**	**.7268658**
Stddev	.002535	.001215	.0006094	.0005731	.0008826	.0045088	.0016913
%RSD	116.3352	29.28440	6.701730	30.51285	312.0644	1.597197	.2326898
#1	-.003261	-.005351	.0097714	.0024578	-.000349	.2770870	.7281010
#2	-.003994	-.002921	.0085926	.0013119	.001291	.2848516	.7249381
#3	.000717	-.004180	.0089141	.0018649	-.000094	.2849406	.7275582

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003164**	**.0000692**	**12.76262**	**-.000071**	**.0056487**	**.0118879**	**.0095467**
Stddev	.0000159	.0000994	.12704	.000274	.0001551	.0001537	.0006927
%RSD	5.014844	143.7346	.9954143	385.5917	2.744889	1.293273	7.255434
#1	.0003250	-.000038	12.88482	-.000314	.0056118	.0117364	.0103450
#2	.0002981	.000158	12.63124	-.000125	.0058189	.0118835	.0091045
#3	.0003262	.000088	12.77178	.000226	.0055155	.0120437	.0091907

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1427447**	**4.120619**	**.0047028**	**-.000230**	**375.6381**	**-.003825**	**.1173251**
Stddev	.0004785	.044918	.0000721	.000246	2.6838	.001372	.0002144
%RSD	.3352131	1.090085	1.533752	106.8848	.7144538	35.87760	.1827714
#1	.1430602	4.167671	.0046738	-.000505	373.2022	-.003074	.1171323
#2	.1429799	4.078192	.0046496	-.000155	378.5151	-.002992	.1175561
#3	.1421942	4.115996	.0047849	-.000031	375.1969	-.005409	.1172868

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.429431**	**.0482096**	**.0008360**	**-.000897**	**.0054366**	**.8298937**	**.0167007**
Stddev	.030239	.0005604	.0000977	.000451	.0019266	.0084822	.0011186
%RSD	2.115437	1.162490	11.68661	50.28163	35.43706	1.022082	6.697864
#1	1.418950	.0485924	.0009335	-.001367	.0063727	.8256885	.0155093
#2	1.405828	.0484701	.0007381	-.000854	.0032208	.8396569	.0168642
#3	1.463516	.0475663	.0008364	-.000468	.0067161	.8243356	.0177285

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-12 Acquired: 7/22/2025 13:33:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.5981588	-.007303	.0975648
Stddev	.0047115	.003362	.0002771
%RSD	.7876726	46.03766	.2839906
#1	.5936536	-.009868	.0975733
#2	.5977701	-.008544	.0972835
#3	.6030526	-.003497	.0978375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5473.749	91852.77	9519.117	4605.771	5985.488
Stddev	6.099	190.54	94.855	31.542	7.318
%RSD	.1114144	.2074380	.9964697	.6848278	.1222595
#1	5480.396	91632.78	9430.806	4569.810	5993.935
#2	5468.411	91965.68	9619.383	4618.750	5981.076
#3	5472.441	91959.85	9507.164	4628.752	5981.453

Sample Name: Q2649-16 Acquired: 7/22/2025 13:38:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.004744**	**-.003417**	**.0340168**	**.0050097**	**.0016319**	**.1112073**	**.5751434**
Stddev	.001005	.002154	.0011851	.0039004	.0016726	.0038144	.0030055
%RSD	21.19418	63.03187	3.483796	77.85671	102.4966	3.430000	.5225699
#1	-.005337	-.005021	.0335680	.0034556	-.000115	.1155911	.5782899
#2	-.005312	-.000969	.0331216	.0094475	.001792	.1093851	.5723021
#3	-.003583	-.004260	.0353607	.0021259	.003218	.1086458	.5748383

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000127**	**.0001131**	**24.44060**	**.0878469**	**-.000101**	**.0069975**	**.1120080**
Stddev	.000024	.0000510	.16825	.0011335	.000064	.0003247	.0052406
%RSD	18.65242	45.11160	.6883936	1.290265	63.37980	4.640065	4.678764
#1	-.000109	.0001608	24.54151	.0891215	-.000170	.0070606	.1179316
#2	-.000117	.0001193	24.24638	.0869520	-.000091	.0066459	.1101168
#3	-.000153	.0000593	24.53392	.0874673	-.000043	.0072860	.1079754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0591568**	**3.084541**	**.0040257**	**-.000044**	**390.2795**	**-.001965**	**.1346410**
Stddev	.0005183	.016349	.0001045	.000310	4.1777	.001724	.0001295
%RSD	.8761534	.5300352	2.596754	699.8676	1.070450	87.72010	.0961898
#1	.0595700	3.078866	.0039080	-.000401	393.3450	-.000367	.1345387
#2	.0585752	3.071787	.0041079	.000161	391.9725	-.001736	.1347866
#3	.0593251	3.102972	.0040610	.000107	385.5210	-.003791	.1345977

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.032472**	**.0623344**	**.0011397**	**-.002429**	**.0059074**	**2.343308**	**.0793752**
Stddev	.004371	.0000676	.0000467	.000468	.0018939	.032944	.0006094
%RSD	.1441547	.1083737	4.100659	19.28239	32.06054	1.405894	.7677140
#1	3.034535	.0623618	.0011891	-.002489	.0073078	2.355459	.0799260
#2	3.027450	.0623839	.0010962	-.002865	.0037525	2.368452	.0794790
#3	3.035429	.0622574	.0011338	-.001934	.0066618	2.306014	.0787206

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-16 Acquired: 7/22/2025 13:38:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.7302378	-.004643	.1391304
Stddev	.0018449	.002141	.0005280
%RSD	.2526374	46.11863	.3794897
#1	.7319800	-.007041	.1395894
#2	.7283051	-.003965	.1385534
#3	.7304284	-.002923	.1392484

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5398.172	89803.97	9287.764	4490.517	5977.849
Stddev	9.156	377.86	22.860	9.384	7.192
%RSD	.1696154	.4207621	.2461333	.2089750	.1203033
#1	5399.527	89562.57	9276.896	4483.812	5970.031
#2	5406.575	89609.91	9314.031	4486.498	5984.182
#3	5388.414	90239.43	9272.365	4501.242	5979.334

Sample Name: Q2649-20 Acquired: 7/22/2025 13:42:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002158**	**-.006603**	**.0146783**	**.0043837**	**.0017281**	**.1785211**	**.4611522**
Stddev	.000896	.001119	.0006043	.0020844	.0012555	.0041119	.0011449
%RSD	41.52845	16.94622	4.116914	47.55024	72.64999	2.303293	.2482751
#1	-.001608	-.005565	.0140312	.0047283	.0017415	.1744421	.4603283
#2	-.003192	-.006455	.0147758	.0062743	.0029769	.1826651	.4606688
#3	-.001673	-.007789	.0152279	.0021484	.0004660	.1784560	.4624596

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000036**	**.0007847**	**15.68571**	**.0000581**	**.0010014**	**.0160676**	**.0433400**
Stddev	.000038	.0001001	.01894	.0003256	.0001716	.0001459	.0081021
%RSD	104.5897	12.75313	.1207455	560.2011	17.13132	.9080129	18.69438
#1	-.000062	.0007200	15.67957	.0002610	.0010822	.0159345	.0395620
#2	.000007	.0008999	15.70696	-.000317	.0011176	.0162236	.0378168
#3	-.000054	.0007342	15.67061	.000231	.0008044	.0160447	.0526411

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0257341**	**3.145434**	**.0037993**	**-.000069**	**367.9350**	**-.002462**	**.2299112**
Stddev	.0004519	.032767	.0003998	.000027	2.0449	.001009	.0006351
%RSD	1.756140	1.041748	10.52373	39.31234	.5557725	40.98339	.2762287
#1	.0253749	3.111537	.0033639	-.000093	369.9026	-.001672	.2291972
#2	.0255859	3.176941	.0038842	-.000075	368.0816	-.002116	.2304129
#3	.0262415	3.147824	.0041500	-.000039	365.8207	-.003599	.2301235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.280083**	**.0500289**	**.0009230**	**-.002276**	**.0063204**	**.9621365**	**.0227937**
Stddev	.020786	.0004352	.0005001	.000502	.0012877	.0055084	.0040874
%RSD	1.623764	.8698381	54.18572	22.05550	20.37384	.5725140	17.93191
#1	1.271825	.0499388	.0009912	-.001823	.0073019	.9630640	.0197046
#2	1.264695	.0496459	.0003922	-.002816	.0067970	.9671223	.0274285
#3	1.303728	.0505021	.0013854	-.002190	.0048624	.9562233	.0212481

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-20 Acquired: 7/22/2025 13:42:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.4868061	-.009057	.1049435
Stddev	.0038857	.001288	.0001569
%RSD	.7982025	14.21788	.1495242
#1	.4837925	-.010433	.1047874
#2	.4854341	-.008859	.1049420
#3	.4911916	-.007880	.1051012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5496.148	92346.73	9347.161	4615.172	6079.221
Stddev	1.228	298.03	43.464	10.955	13.700
%RSD	.0223445	.3227263	.4649918	.2373724	.2253534
#1	5494.738	92020.04	9396.908	4606.309	6064.670
#2	5496.724	92603.75	9328.031	4627.420	6091.871
#3	5496.983	92416.40	9316.543	4611.788	6081.121

Sample Name: Q2646-03 Acquired: 7/22/2025 13:46:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.001766**	**-.004136**	**.0010195**	**.0019272**	**.0021104**	**.2722065**	**.1481386**
Stddev	.001111	.002005	.0006833	.0031220	.0019997	.0179397	.0010319
%RSD	62.89050	48.47862	67.01899	161.9978	94.75546	6.590457	.6965971
#1	-.001366	-.002722	.0011001	.0046782	.0013386	.2756895	.1492880
#2	-.003022	-.003255	.0002996	-.001466	.0043809	.2527808	.1478361
#3	-.000911	-.006431	.0016590	.002569	.0006116	.2881493	.1472918

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000199**	**-.000348**	**109.9598**	**.0017123**	**.0018265**	**.0040354**	**8.091363**
Stddev	.000020	.000076	.1755	.0004553	.0002271	.0003332	.029325
%RSD	10.27891	21.75430	.1596396	26.58758	12.43452	8.255847	.3624294
#1	-.000220	-.000394	109.8326	.0013206	.0018981	.0042332	8.058333
#2	-.000180	-.000389	110.1601	.0016045	.0020092	.0036508	8.114339
#3	-.000196	-.000260	109.8868	.0022118	.0015722	.0042222	8.101417

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2778543**	**9.856389**	**.0124213**	**.0001726**	**46.08025**	**.0053922**	**.0515740**
Stddev	.0002335	.059169	.0001040	.0001341	.18278	.0008433	.0002135
%RSD	.0840483	.6003073	.8372582	77.68004	.3966628	15.63874	.4140286
#1	.2779953	9.901943	.0125372	.0001631	45.97583	.0048413	.0517497
#2	.2775847	9.877709	.0123363	.0000436	46.29130	.0063629	.0513363
#3	.2779828	9.789515	.0123903	.0003113	45.97361	.0049722	.0516360

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.86233**	**.0850309**	**.0011722**	**-.003101**	**.0085725**	**2.646594**	**2.253956**
Stddev	.08750	.0004668	.0000664	.000356	.0023779	.012880	.014570
%RSD	.5516002	.5489931	5.667092	11.49130	27.73839	.4866791	.6464371
#1	15.76345	.0845263	.0011574	-.003301	.0063454	2.631731	2.258338
#2	15.92973	.0854474	.0011144	-.002689	.0110768	2.654512	2.237698
#3	15.89381	.0851189	.0012448	-.003312	.0082951	2.653537	2.265833

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2646-03 Acquired: 7/22/2025 13:46:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	3.527450	.0122325	.5631060
Stddev	.021652	.0013558	.0005929
%RSD	.6138014	11.08334	.1052913
#1	3.544099	.0135226	.5626624
#2	3.502973	.0123555	.5637794
#3	3.535277	.0108194	.5628762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.937	94375.64	9252.222	4618.443	6283.069
Stddev	.992	197.89	31.099	9.552	6.785
%RSD	.0180035	.2096843	.3361232	.2068174	.1079951
#1	5511.983	94390.27	9217.583	4610.014	6285.039
#2	5510.009	94170.83	9261.338	4628.818	6288.651
#3	5510.820	94565.81	9277.743	4616.497	6275.516

Sample Name: Q2649-24 Acquired: 7/22/2025 13:51:07 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.003323**	**-.003709**	**.0128470**	**.0026556**	**.0012406**	**.4719841**	**.2516053**
Stddev	.001224	.000834	.0019391	.0048675	.0008911	.0007532	.0015440
%RSD	36.81797	22.48322	15.09407	183.2937	71.82511	.1595876	.6136487
#1	-.002248	-.003784	.0120099	.0044396	.0004399	.4711862	.2527040
#2	-.003067	-.002840	.0150641	-.002852	.0010814	.4720833	.2522719
#3	-.004655	-.004502	.0114671	.006379	.0022006	.4726828	.2498400

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001093**	**-.000011**	**4.001631**	**.0008635**	**.0045927**	**.0126017**	**.0238269**
Stddev	.0000104	.000060	.036843	.0001399	.0000897	.0001954	.0083143
%RSD	9.488534	546.7045	.9206960	16.20272	1.952756	1.550697	34.89470
#1	.0001195	.000030	4.022759	.0010223	.0046654	.0124533	.0164173
#2	.0000987	.000017	4.023045	.0007584	.0044925	.0128231	.0328186
#3	.0001098	-.000080	3.959089	.0008098	.0046204	.0125286	.0222447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0422107**	**2.825814**	**.0031128**	**-.000270**	**303.6355**	**.0000166**	**.1503457**
Stddev	.0003315	.029278	.0003316	.000378	2.8256	.0009958	.0002661
%RSD	.7853184	1.036085	10.65169	140.1939	.9305949	6015.022	.1769982
#1	.0424719	2.859171	.0027969	.000134	301.0529	-.001119	.1503896
#2	.0423223	2.813893	.0034581	-.000329	303.2000	.000427	.1500603
#3	.0418378	2.804377	.0030833	-.000615	306.6536	.000741	.1505871

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7762742**	**.0608731**	**.0011418**	**-.001411**	**.0038015**	**.2454808**	**.0235990**
Stddev	.0129127	.0005967	.0000397	.000515	.0009813	.0177579	.0028234
%RSD	1.663419	.9802839	3.474577	36.49716	25.81323	7.233925	11.96427
#1	.7636827	.0610798	.0011757	-.000901	.0042419	.2477043	.0265217
#2	.7756542	.0613391	.0010982	-.001931	.0044853	.2267159	.0208866
#3	.7894857	.0602005	.0011516	-.001399	.0026771	.2620223	.0233885

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24 Acquired: 7/22/2025 13:51:07 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.827478	-.010216	.0370793
Stddev	.001594	.003467	.0000698
%RSD	.0872370	33.93646	.1882964
#1	1.826944	-.006215	.0369998
#2	1.829270	-.012095	.0371075
#3	1.826219	-.012339	.0371306

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5521.669	92693.89	9327.986	4649.127	6123.041
Stddev	12.949	189.05	84.978	23.461	11.570
%RSD	.2345141	.2039499	.9110028	.5046261	.1889594
#1	5536.459	92884.37	9283.289	4627.271	6136.390
#2	5516.174	92690.98	9274.684	4646.193	6116.840
#3	5512.373	92506.31	9425.984	4673.917	6115.893

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV02 Acquired: 7/22/2025 14:05:33 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.087680**	**4.807280**	**4.965771**	**5.104377**	**5.148089**	**10.07335**	**10.47697**
Stddev	.012341	.131622	.012188	.028459	.017688	.02261	.09284
%RSD	.2425681	2.737963	.2454440	.5575473	.3435892	.2244579	.8861424
#1	5.075233	4.700663	4.952878	5.075124	5.132339	10.07034	10.38424
#2	5.087896	4.766788	4.967330	5.106037	5.144701	10.05238	10.47676
#3	5.099912	4.954391	4.977104	5.131970	5.167226	10.09731	10.56992

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2497515**	**2.494537**	**25.95043**	**.9755130**	**2.509457**	**1.277580**	**5.017034**
Stddev	.0023020	.005735	.27573	.0067225	.004657	.004517	.022872
%RSD	.9217218	.2298926	1.062521	.6891202	.1855884	.3535575	.4558932
#1	.2472079	2.491536	25.66380	.9692631	2.506239	1.273201	5.030644
#2	.2503547	2.490925	25.97371	.9826249	2.507334	1.277316	5.029831
#3	.2516918	2.501149	26.21378	.9746511	2.514797	1.282223	4.990628

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.568001**	**24.74639**	**2.523136**	**1.275903**	**23.14711**	**2.512226**	**2.574747**
Stddev	.016434	.09983	.004929	.000675	.20895	.005333	.005174
%RSD	.6399604	.4034036	.1953526	.0529290	.9026874	.2123017	.2009491
#1	2.551958	24.64366	2.521219	1.275156	23.29220	2.518344	2.569172
#2	2.567245	24.75248	2.519453	1.276085	23.24152	2.508555	2.575673
#3	2.584800	24.84303	2.528735	1.276470	22.90762	2.509780	2.579395

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.60942**	**5.179119**	**5.146556**	**5.007215**	**4.978675**	**4.849918**	**4.863045**
Stddev	.11746	.042048	.022813	.013183	.007685	.034784	.011278
%RSD	.4586670	.8118672	.4432643	.2632701	.1543582	.7172127	.2319043
#1	25.56541	5.149378	5.126096	4.996286	4.984916	4.870386	4.850237
#2	25.74253	5.160754	5.142416	5.003504	4.981018	4.869613	4.871487
#3	25.52032	5.227225	5.171155	5.021855	4.970092	4.809755	4.867412

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV02 Acquired: 7/22/2025 14:05:33 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.964307**	**5.003480**	**5.280916**
Stddev	.021903	.009844	.043824
%RSD	.4412129	.1967389	.8298591
#1	4.946882	5.013785	5.246750
#2	4.957143	4.994174	5.265672
#3	4.988895	5.002481	5.330327

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5505.607**	**92021.40**	**8726.601**	**4605.176**	**6154.865**
Stddev	16.033	461.81	93.483	13.368	9.929
%RSD	.2912082	.5018506	1.071239	.2902746	.1613149
#1	5523.179	92540.26	8819.761	4616.292	6163.651
#2	5501.865	91655.41	8727.246	4608.893	6156.851
#3	5491.776	91868.52	8632.798	4590.344	6144.093

Sample Name: CCB02 Acquired: 7/22/2025 14:09:41 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**.0018715**	**.0006443**	**.0008448**	**.0014704**	**.0008100**	**-.013386**	**.0005277**
Stddev	.0015152	.0018668	.0004116	.0016288	.0010089	.005553	.0004051
%RSD	80.96112	289.7337	48.72539	110.7776	124.5519	41.48120	76.76880
#1	.0004434	-.000354	.0012140	.0019467	.0019268	-.019113	.0009364
#2	.0034608	.002798	.0009195	.0028079	.0005387	-.013021	.0005205
#3	.0017103	-.000511	.0004009	-.000344	-.000036	-.008025	.0001263

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000215**	**.0001675**	**.0474802**	**-.000100**	**.0002802**	**.0004364**	**-.002871**
Stddev	.0000098	.0000653	.0018105	.000204	.0002098	.0004158	.002461
%RSD	45.71486	38.94783	3.813147	203.7741	74.87984	95.27964	85.74268
#1	.0000162	.0000961	.0461221	-.000308	.0001433	-.000019	-.003724
#2	.0000154	.0001825	.0467827	-.000094	.0001756	.000533	-.004792
#3	.0000328	.0002240	.0495357	.000101	.0005217	.000795	-.000096

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000315**	**-.012863**	**.0001220**	**.0000900**	**.3470009**	**-.002642**	**.0009849**
Stddev	.000502	.011269	.0001760	.0003501	.0161393	.001844	.0002063
%RSD	159.2342	87.60955	144.2534	388.8124	4.651088	69.79969	20.94627
#1	-.000614	-.012802	-.000081	-.000313	.3646893	-.002455	.0008615
#2	-.000596	-.001624	.000236	.000315	.3432377	-.000898	.0012231
#3	.000264	-.024162	.000210	.000269	.3330756	-.004572	.0008701

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4146666**	**.0019980**	**.0010116**	**.0032477**	**.0069527**	**.0018935**	**.0038812**
Stddev	.0120947	.0001271	.0002021	.0009709	.0015506	.0052121	.0015300
%RSD	2.916734	6.360469	19.97368	29.89402	22.30243	275.2664	39.41980
#1	.4080297	.0020597	.0010337	.0032488	.0054287	.0013926	.0054181
#2	.4073432	.0018519	.0007994	.0022763	.0069009	-.003050	.0023583
#3	.4286267	.0020826	.0012017	.0042180	.0085287	.007338	.0038673

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB02 Acquired: 7/22/2025 14:09:41 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.003650**	**-.007750**	**.0002280**
Stddev	.001006	.002731	.0000379
%RSD	27.54816	35.23738	16.60851
#1	-.003205	-.005197	.0002715
#2	-.004802	-.010630	.0002091
#3	-.002944	-.007425	.0002032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5721.687**	**94749.78**	**8855.966**	**4793.116**	**6822.060**
Stddev	10.162	260.80	65.232	21.417	7.846
%RSD	.1775968	.2752498	.7365846	.4468385	.1150127
#1	5729.075	94802.12	8784.558	4800.073	6822.571
#2	5725.887	94980.44	8870.915	4810.189	6829.639
#3	5710.099	94466.79	8912.426	4769.084	6813.971

Sample Name: Q2649-24DUP Acquired: 7/22/2025 14:25:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.001155**	**-.003503**	**.0151298**	**.0036385**	**.0023730**	**.5565806**	**.2936960**
Stddev	.002627	.001729	.0012859	.0035919	.0002539	.0026985	.0008942
%RSD	227.3776	49.37216	8.499495	98.71834	10.70001	.4848381	.3044559
#1	.001861	-.003347	.0141904	.0073772	.0023477	.5536220	.2945544
#2	-.002385	-.001856	.0146035	.0033245	.0026386	.5589066	.2937637
#3	-.002943	-.005304	.0165954	.0002140	.0021327	.5572133	.2927699

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001865**	**.0000178**	**4.699635**	**.0005099**	**.0055724**	**.0146679**	**.0175302**
Stddev	.0000398	.0000708	.013423	.0003304	.0001294	.0004622	.0110394
%RSD	21.32792	397.0458	.2856213	64.80119	2.321903	3.150834	62.97374
#1	.0002118	-.000008	4.714921	.0001292	.0057218	.0141408	.0048149
#2	.0001407	.000098	4.694211	.0006780	.0054974	.0150039	.0231069
#3	.0002071	-.000036	4.689772	.0007225	.0054980	.0148589	.0246687

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0472260**	**3.331868**	**.0033504**	**.0000381**	**347.1932**	**-.003585**	**.1709856**
Stddev	.0001774	.028473	.0003139	.0003284	5.0082	.001265	.0008866
%RSD	.3756601	.8545802	9.369591	862.0355	1.442487	35.28310	.5185145
#1	.0470349	3.364624	.0032325	-.000000	352.3201	-.002198	.1699955
#2	.0472576	3.317942	.0031125	.000384	342.3127	-.003882	.1717062
#3	.0473855	3.313037	.0037062	-.000270	346.9467	-.004674	.1712550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7159042**	**.0751878**	**.0008108**	**-.001666**	**.0060479**	**.2881204**	**.0270213**
Stddev	.0139899	.0004469	.0001066	.000296	.0017544	.0189184	.0022882
%RSD	1.954163	.5943342	13.14861	17.77823	29.00865	6.566141	8.468138
#1	.7136973	.0751976	.0007610	-.001706	.0066230	.2982640	.0249530
#2	.7308664	.0747361	.0009332	-.001352	.0040781	.2662934	.0266316
#3	.7031488	.0756297	.0007381	-.001940	.0074426	.2998038	.0294794

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24DUP Acquired: 7/22/2025 14:25:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**2.122191**	**-.009986**	**.0434477**
Stddev	.004058	.002426	.0001564
%RSD	.1912383	24.28989	.3599607
#1	2.126773	-.012253	.0436250
#2	2.120750	-.010278	.0433294
#3	2.119050	-.007428	.0433887

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5401.940**	**89810.40**	**8704.091**	**4526.925**	**5939.024**
Stddev	15.271	328.24	11.981	5.359	24.649
%RSD	.2827000	.3654851	.1376450	.1183894	.4150390
#1	5417.500	89446.57	8690.976	4531.335	5962.083
#2	5401.347	90084.31	8706.836	4520.960	5941.946
#3	5386.975	89900.33	8714.460	4528.480	5913.045

Sample Name: Q2649-24LX5 Acquired: 7/22/2025 14:30:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000739**	**.0001951**	**.0035647**	**-.001273**	**-.000485**	**.1019741**	**.0519465**
Stddev	.000949	.0007616	.0011955	.002864	.001130	.0047082	.0004143
%RSD	128.3698	390.4123	33.53808	225.0374	233.2508	4.617060	.7974990
#1	-.000035	.0005794	.0049389	-.002342	-.000386	.1051605	.0522543
#2	-.000364	-.000682	.0027633	.001972	-.001661	.0965661	.0521097
#3	-.001818	.000688	.0029920	-.003448	.000593	.1041956	.0514754

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000040**	**.0000652**	**.8620570**	**-.000197**	**.0010084**	**.0028671**	**-.001212**
Stddev	.000014	.0000757	.0105097	.000506	.0001152	.0003288	.004313
%RSD	35.09433	116.1332	1.219137	257.2303	11.42401	11.46735	355.8696
#1	-.000052	.0001191	.8587099	-.000457	.0008757	.0025308	.001756
#2	-.000025	.0000979	.8738326	-.000520	.0010657	.0028828	-.006160
#3	-.000044	-.000021	.8536286	.000387	.0010836	.0031878	.000768

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087721**	**.6212865**	**.0003611**	**.0001874**	**58.80459**	**-.001802**	**.0313117**
Stddev	.0003051	.0214351	.0002424	.0004391	.12822	.000572	.0000171
%RSD	3.478256	3.450109	67.12054	234.3649	.2180359	31.77530	.0545331
#1	.0088859	.6449110	.0003215	.0002867	58.90166	-.002461	.0313304
#2	.0090038	.6030810	.0006209	-.000293	58.65924	-.001435	.0313079
#3	.0084264	.6158674	.0001410	.000568	58.85286	-.001508	.0312969

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7027433**	**.0123724**	**.0001795**	**.0000700**	**.0044677**	**.0581214**	**.0040855**
Stddev	.0334436	.0004094	.0002543	.0007934	.0016371	.0104189	.0045734
%RSD	4.759002	3.309119	141.6819	1132.757	36.64262	17.92601	111.9414
#1	.6918443	.0121235	.0003333	.0004711	.0033103	.0567424	.0022009
#2	.6761088	.0121488	-.000114	.0005828	.0063408	.0691612	.0007556
#3	.7402768	.0128449	.000319	-.000844	.0037520	.0484608	.0093001

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24LX5 Acquired: 7/22/2025 14:30:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.3771156	-.004347	.0079743
Stddev	.0027345	.000583	.0000289
%RSD	.7251011	13.40458	.3627951
#1	.3786925	-.003833	.0079951
#2	.3739581	-.004228	.0079413
#3	.3786962	-.004980	.0079866

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5473.530	91834.36	9043.295	4632.824	6240.545
Stddev	19.752	129.71	27.802	10.606	22.320
%RSD	.3608688	.1412400	.3074322	.2289319	.3576584
#1	5468.276	91981.93	9073.031	4620.753	6243.498
#2	5456.935	91782.78	9038.904	4637.068	6216.896
#3	5495.378	91738.39	9017.949	4640.650	6261.241

Sample Name: Q2649-24MS Acquired: 7/22/2025 14:34:40 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8464043**	**1.918992**	**.9791237**	**2.135604**	**.8628949**	**2.641684**	**.5047331**
Stddev	.0042429	.032157	.0039720	.009737	.0036880	.013231	.0012085
%RSD	.5012855	1.675719	.4056696	.4559173	.4274030	.5008720	.2394402
#1	.8425240	1.893845	.9824110	2.126318	.8593408	2.656914	.5060645
#2	.8457541	1.907907	.9747102	2.134758	.8626402	2.633016	.5044298
#3	.8509347	1.955225	.9802500	2.145736	.8667037	2.635123	.5037052

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1912958**	**.2026359**	**5.742980**	**.4055588**	**.2178265**	**.3252137**	**3.373335**
Stddev	.0009316	.0003231	.019579	.0008053	.0006059	.0007807	.006935
%RSD	.4870035	.1594445	.3409218	.1985621	.2781706	.2400704	.2055924
#1	.1923162	.2024189	5.764540	.4047843	.2171577	.3244815	3.375767
#2	.1910808	.2024816	5.726308	.4063917	.2179827	.3251245	3.378726
#3	.1904905	.2030072	5.738092	.4055004	.2183390	.3260353	3.365511

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2643229**	**5.322476**	**.5357195**	**.0787567**	**354.5314**	**.3174160**	**.3967370**
Stddev	.0002517	.029534	.0007360	.0002973	6.7996	.0009813	.0007943
%RSD	.0952204	.5548982	.1373799	.3774955	1.917914	.3091547	.2002031
#1	.2642553	5.303968	.5354171	.0784159	349.9294	.3184425	.3976057
#2	.2646015	5.356537	.5351829	.0789631	362.3416	.3164872	.3965573
#3	.2641119	5.306924	.5365585	.0788910	351.3233	.3173184	.3960479

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.01039**	**.3480795**	**.4507610**	**.7361866**	**.2096609**	**1.225753**	**6.051165**
Stddev	.08511	.0025089	.0013627	.0020261	.0022630	.002349	.016278
%RSD	.7086061	.7207824	.3023167	.2752204	1.079371	.1916584	.2690008
#1	11.91666	.3509266	.4495564	.7339010	.2121121	1.228439	6.068414
#2	12.03167	.3461920	.4504864	.7368967	.2076511	1.224738	6.049006
#3	12.08283	.3471200	.4522401	.7377622	.2092193	1.224082	6.036074

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24MS Acquired: 7/22/2025 14:34:40 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**2.120118**	**.1872947**	**.2543054**
Stddev	.005673	.0030649	.0009032
%RSD	.2675853	1.636419	.3551826
#1	2.114428	.1843526	.2548610
#2	2.125774	.1904692	.2547920
#3	2.120153	.1870624	.2532632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5414.362**	**91038.27**	**9141.675**	**4510.536**	**5938.876**
Stddev	10.422	341.82	48.192	21.030	4.694
%RSD	.1924805	.3754707	.5271699	.4662392	.0790339
#1	5416.642	91163.75	9095.800	4505.141	5937.032
#2	5423.454	90651.44	9137.334	4492.729	5944.211
#3	5402.989	91299.62	9191.891	4533.738	5935.384

Sample Name: Q2649-24MSD Acquired: 7/22/2025 14:38:48 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8190926**	**1.779691**	**.9530216**	**2.068085**	**1.231100**	**2.660752**	**.5386941**
Stddev	.0028720	.045909	.0023411	.003974	.008371	.010834	.0019629
%RSD	.3506277	2.579614	.2456522	.1921402	.6799741	.4071778	.3643752
#1	.8205955	1.726680	.9504484	2.066812	1.239489	2.651321	.5371584
#2	.8157810	1.806120	.9535908	2.064904	1.222746	2.658351	.5380183
#3	.8209012	1.806273	.9550256	2.072539	1.231066	2.672586	.5409056

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1950053**	**.1968652**	**6.320800**	**.4009159**	**.2121831**	**.3159239**	**3.224894**
Stddev	.0014686	.0003094	.026670	.0006754	.0001342	.0006547	.005106
%RSD	.7531115	.1571367	.4219411	.1684604	.0632289	.2072450	.1583397
#1	.1938091	.1967039	6.318186	.4009743	.2121376	.3166354	3.230528
#2	.1945624	.1972218	6.295533	.4002132	.2120776	.3153469	3.220572
#3	.1966444	.1966698	6.348681	.4015602	.2123341	.3157894	3.223582

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2595100**	**5.671828**	**.5203989**	**.0775112**	**388.5770**	**.3091904**	**.4103484**
Stddev	.0018560	.014536	.0006382	.0004790	3.4567	.0012923	.0018237
%RSD	.7152097	.2562781	.1226321	.6179514	.8895680	.4179554	.4444359
#1	.2596148	5.655218	.5211293	.0774320	387.2006	.3084639	.4121512
#2	.2576037	5.678049	.5201181	.0770768	392.5098	.3084249	.4103894
#3	.2613114	5.682218	.5199493	.0780249	386.0206	.3106825	.4085045

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.00094**	**.3620634**	**.6420594**	**1.056946**	**.3007550**	**1.609800**	**5.943780**
Stddev	.04126	.0024794	.0012266	.001947	.0022371	.007377	.018753
%RSD	.3437695	.6847924	.1910446	.1842029	.7438237	.4582541	.3155064
#1	12.04810	.3609038	.6431218	1.057095	.2983482	1.618107	5.933699
#2	11.97149	.3603763	.6407170	1.054928	.3011460	1.607280	5.932224
#3	11.98324	.3649101	.6423395	1.058813	.3027708	1.604013	5.965418

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24MSD Acquired: 7/22/2025 14:38:48 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**2.318868**	**.1888401**	**.2572899**
Stddev	.009666	.0009349	.0009304
%RSD	.4168385	.4950932	.3616002
#1	2.307781	.1889994	.2565541
#2	2.323298	.1896852	.2569801
#3	2.325524	.1878358	.2583357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5435.820**	**89091.50**	**8737.450**	**4487.496**	**5931.767**
Stddev	13.233	211.29	46.071	26.623	7.002
%RSD	.2434338	.2371652	.5272781	.5932597	.1180436
#1	5430.712	88882.66	8747.566	4456.888	5934.268
#2	5450.845	89305.16	8777.623	4500.327	5937.175
#3	5425.902	89086.66	8687.162	4505.273	5923.858

Sample Name: Q2649-24A Acquired: 7/22/2025 14:42:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8259564**	**1.842126**	**.9630423**	**2.093492**	**.8802248**	**2.748345**	**.4821253**
Stddev	.0068117	.055812	.0025066	.005714	.0015064	.016239	.0003972
%RSD	.8247003	3.029762	.2602736	.2729517	.1711359	.5908505	.0823904
#1	.8254230	1.900630	.9644384	2.097842	.8818018	2.736212	.4816716
#2	.8194271	1.789466	.9601485	2.095613	.8788006	2.766792	.4822941
#3	.8330190	1.836283	.9645398	2.087020	.8800719	2.742029	.4824103

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1939600**	**.1985266**	**5.617515**	**.4009290**	**.2130150**	**.3186249**	**3.285039**
Stddev	.0005912	.0006639	.015488	.0016208	.0006664	.0011079	.018855
%RSD	.3048332	.3344086	.2757040	.4042546	.3128304	.3477050	.5739533
#1	.1943574	.1984538	5.627934	.4025467	.2127846	.3193788	3.306807
#2	.1932806	.1979021	5.599718	.4009351	.2124943	.3173529	3.274522
#3	.1942422	.1992239	5.624893	.3993052	.2137660	.3191431	3.273790

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2550676**	**5.263090**	**.5262479**	**.0772037**	**319.8750**	**.3125141**	**.3825750**
Stddev	.0012448	.004703	.0009206	.0001806	3.6782	.0022562	.0011404
%RSD	.4880176	.0893495	.1749466	.2339071	1.149876	.7219617	.2980754
#1	.2545048	5.266181	.5259511	.0774062	323.7354	.3126885	.3812741
#2	.2542037	5.265411	.5255123	.0771452	316.4113	.3101758	.3830486
#3	.2564944	5.257678	.5272804	.0770596	319.4783	.3146781	.3834022

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.65679**	**.3495512**	**.4599379**	**.7553155**	**.2129205**	**1.201411**	**5.968557**
Stddev	.02810	.0012712	.0012125	.0028624	.0019657	.006822	.026454
%RSD	.2410659	.3636643	.2636246	.3789617	.9232092	.5678125	.4432224
#1	11.64717	.3496828	.4604770	.7574764	.2111980	1.198389	5.962545
#2	11.68844	.3482193	.4585493	.7520692	.2125016	1.209222	5.945627
#3	11.63476	.3507515	.4607873	.7564009	.2150619	1.196623	5.997500

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-24A Acquired: 7/22/2025 14:42:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.951297	.1900584	.2499861
Stddev	.008707	.0012324	.0006332
%RSD	.4461999	.6484508	.2533054
#1	1.956490	.1894040	.2492608
#2	1.941246	.1914800	.2504288
#3	1.956157	.1892911	.2502688

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5396.334	90716.32	8814.407	4502.630	5923.449
Stddev	5.241	249.22	11.578	13.301	9.464
%RSD	.0971207	.2747254	.1313552	.2953961	.1597685
#1	5391.403	90448.33	8813.798	4517.961	5922.246
#2	5401.838	90759.50	8826.278	4494.175	5933.456
#3	5395.763	90941.13	8803.145	4495.753	5914.644

Sample Name: PB168919TB Acquired: 7/22/2025 14:47:03 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.004569**	**-.003335**	**-.000144**	**.0026860**	**-.000187**	**-.005403**	**-.003324**
Stddev	.002137	.002681	.001128	.0025832	.000861	.004108	.000735
%RSD	46.76968	80.40210	784.2136	96.17455	459.5991	76.03856	22.11540
#1	-.002573	-.000290	.000989	.0010523	-.000710	-.006835	-.002976
#2	-.004310	-.005342	-.001267	.0056641	-.000659	-.008604	-.004168
#3	-.006823	-.004372	-.000153	.0013415	.000806	-.000770	-.002827

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000229**	**-.000002**	**-.019142**	**.0002652**	**-.000208**	**.0009104**	**-.006018**
Stddev	.000038	.000067	.004038	.0001352	.000179	.0000686	.006687
%RSD	16.68329	3135.967	21.09509	50.96013	86.17929	7.529864	111.1161
#1	-.000193	-.000010	-.022833	.0001093	-.000004	.0008461	-.010330
#2	-.000269	-.000065	-.019764	.0003381	-.000339	.0009027	.001685
#3	-.000224	.000068	-.014829	.0003483	-.000280	.0009825	-.009410

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056615**	**.0167602**	**.0007709**	**.0000212**	**402.4093**	**-.000943**	**.0020267**
Stddev	.0001331	.0175471	.0003586	.0003036	1.8920	.003990	.0000408
%RSD	2.351444	104.6954	46.51988	1433.691	.4701698	423.1389	2.015855
#1	.0055333	.0121279	.0010593	.0003716	401.5156	.001334	.0020540
#2	.0056524	.0019939	.0008840	-.000162	401.1296	-.005550	.0020463
#3	.0057990	.0361587	.0003694	-.000147	404.5826	.001387	.0019797

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1614709**	**-.001518**	**.0012469**	**-.001318**	**.0068808**	**.0077721**	**.0085882**
Stddev	.0157859	.000273	.0002416	.000609	.0017854	.0059093	.0053719
%RSD	9.776304	17.99566	19.37470	46.22731	25.94745	76.03176	62.54922
#1	.1623422	-.001396	.0013648	-.001541	.0081874	.0025702	.0044797
#2	.1452674	-.001326	.0014070	-.000629	.0076086	.0141973	.0066179
#3	.1768030	-.001830	.0009690	-.001785	.0048465	.0065489	.0146670

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168919TB Acquired: 7/22/2025 14:47:03 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0689919	-.010796	-.000042
Stddev	.0018156	.002337	.000030
%RSD	2.631631	21.64701	70.90973
#1	.0683463	-.009072	-.000008
#2	.0675873	-.013456	-.000056
#3	.0710421	-.009859	-.000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5298.368	88836.88	9023.981	4454.936	5855.840
Stddev	17.382	389.57	64.464	12.436	20.972
%RSD	.3280657	.4385174	.7143580	.2791620	.3581311
#1	5313.009	89036.87	9060.188	4456.565	5873.827
#2	5302.939	89085.84	9062.201	4466.478	5860.886
#3	5279.158	88387.94	8949.554	4441.765	5832.805

Sample Name: PB168941BL Acquired: 7/22/2025 14:56:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000030**	**-.000417**	**.0014566**	**-.001458**	**-.001107**	**.0045257**	**.0006144**
Stddev	.001669	.001699	.0015152	.001198	.001141	.0086267	.0004666
%RSD	5569.494	407.3616	104.0230	82.18219	103.0690	190.6161	75.94108
#1	-.000373	-.001199	.0010752	-.002682	.000207	-.004135	.0001012
#2	.001784	-.001584	.0001686	-.000287	-.001850	.013118	.0007288
#3	-.001501	.001532	.0031261	-.001404	-.001676	.004594	.0010131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000164**	**.0001330**	**.0060593**	**.0005211**	**.0001099**	**.0005982**	**.0038640**
Stddev	.0000686	.0000301	.0097451	.0003248	.0000437	.0008971	.0055147
%RSD	417.5231	22.66354	160.8286	62.32816	39.74557	149.9527	142.7197
#1	-.000023	.0001100	-.004289	.0005101	.0001539	.0013828	.0041606
#2	-.000023	.0001218	.007406	.0008512	.0001093	.0007916	.0092245
#3	.000096	.0001671	.015061	.0002019	.0000666	-.000380	-.001793

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000110**	**.0036947**	**.0002059**	**.0005894**	**.5206065**	**-.002118**	**.0006288**
Stddev	.0002979	.0349126	.0002402	.0007240	.0266340	.001378	.0002206
%RSD	2717.849	944.9291	116.6676	122.8369	5.115950	65.07286	35.08366
#1	-.000037	-.032275	-.000005	.0008030	.5440219	-.002822	.0006737
#2	-.000260	.005916	.000467	.0011826	.5261662	-.003003	.0003892
#3	.000330	.037444	.000156	-.000217	.4916315	-.000530	.0008235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4928602**	**-.001368**	**.0000382**	**.0004555**	**.0068195**	**.0023465**	**.0002927**
Stddev	.0253441	.000311	.0002580	.0002243	.0013909	.0107542	.0029450
%RSD	5.142239	22.72249	675.5792	49.25230	20.39584	458.3095	1006.058
#1	.5220773	-.001673	.0000694	.0002015	.0058783	.0139105	.0017780
#2	.4768043	-.001052	.0002792	.0006266	.0061631	.0004835	.0021993
#3	.4796992	-.001379	-.000234	.0005383	.0084171	-.007354	-.003099

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168941BL Acquired: 7/22/2025 14:56:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.008059	-.009317	-.000067
Stddev	.000454	.002178	.000009
%RSD	5.635598	23.37411	14.11881
#1	-.007834	-.007675	-.000071
#2	-.007762	-.008489	-.000056
#3	-.008582	-.011787	-.000073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5575.023	90693.70	8397.877	4620.022	6618.773
Stddev	12.518	190.77	18.096	2.731	18.207
%RSD	.2245430	.2103435	.2154794	.0591085	.2750810
#1	5587.502	90663.09	8416.972	4617.339	6631.483
#2	5575.101	90520.09	8395.675	4619.929	6626.922
#3	5562.466	90897.93	8380.983	4622.798	6597.915

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168941BS Acquired: 7/22/2025 15:01:18 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7988378**	**2.067492**	**.9815327**	**2.022367**	**.8553299**	**2.105953**
Stddev	.0037271	.038572	.0016091	.005689	.0017235	.009720
%RSD	.4665658	1.865643	.1639418	.2812797	.2014975	.4615498
#1	.7948182	2.057822	.9802013	2.024284	.8534628	2.095630
#2	.7995156	2.034674	.9810760	2.015967	.8568600	2.107300
#3	.8021794	2.109978	.9833208	2.026849	.8556668	2.114930

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2161180**	**.2119854**	**.1951268**	**1.109900**	**.4097824**	**.2053100**
Stddev	.0007336	.0012218	.0003477	.011490	.0005471	.0005918
%RSD	.3394520	.5763716	.1781939	1.035185	.1335017	.2882256
#1	.2159421	.2113378	.1948194	1.096662	.4104131	.2047599
#2	.2169235	.2133947	.1950569	1.115762	.4094974	.2052340
#3	.2154883	.2112237	.1955042	1.117275	.4094366	.2059361

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3236226**	**3.140880**	**.2195795**	**2.115213**	**.5192282**	**.0795144**
Stddev	.0003780	.028219	.0006348	.019752	.0008874	.0002287
%RSD	.1168033	.8984309	.2890788	.9338283	.1708998	.2876165
#1	.3231862	3.122210	.2190254	2.136780	.5188984	.0796989
#2	.3238441	3.127088	.2202720	2.110857	.5185529	.0795857
#3	.3238376	3.173342	.2194409	2.098002	.5202332	.0792585

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.071940**	**.3128452**	**.2202356**	**10.32565**	**.3227625**	**.4318715**
Stddev	.020069	.0019739	.0009568	.03304	.0017668	.0012078
%RSD	.6532923	.6309624	.4344228	.3199653	.5474018	.2796712
#1	3.082340	.3106735	.2195162	10.33488	.3220680	.4315952
#2	3.048806	.3133316	.2213214	10.28898	.3247710	.4308258
#3	3.084674	.3145304	.2198691	10.35309	.3214485	.4331936

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168941BS Acquired: 7/22/2025 15:01:18 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7240549**	**.2119683**	**.8725958**	**5.788229**	F **-.005636**	**.1898461**
Stddev	.0031346	.0022497	.0114510	.006400	.003032	.0030703
%RSD	.4329183	1.061317	1.312289	.1105608	53.79500	1.617237
#1	.7217017	.2098425	.8616737	5.782120	-.003083	.1866108
#2	.7228497	.2117382	.8716026	5.787682	-.004838	.1902083
#3	.7276131	.2143241	.8845110	5.794884	-.008988	.1927192

Elem	Sr4077
Units	ppm
Avg	**.2139502**
Stddev	.0003494
%RSD	.1633177
#1	.2137336
#2	.2137638
#3	.2143533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5542.646**	**90769.77**	**8405.642**	**4609.184**	**6449.874**
Stddev	7.861	263.91	50.578	3.499	10.373
%RSD	.1418288	.2907469	.6017137	.0759047	.1608323
#1	5548.313	90913.02	8457.667	4611.978	6459.154
#2	5545.954	90931.09	8356.647	4605.260	6451.793
#3	5533.672	90465.21	8402.613	4610.313	6438.675

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168932BL Acquired: 7/22/2025 15:05:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000646**	**-.001315**	**.0016332**	**-.001088**	**-.001002**	**-.008093**
Stddev	.002009	.000214	.0005020	.002905	.001014	.009685
%RSD	311.0322	16.27926	30.73972	266.9817	101.1842	119.6740
#1	.000060	-.001107	.0019906	-.003068	-.001976	-.006589
#2	-.002912	-.001302	.0018499	-.002443	.000048	.000752
#3	.000914	-.001535	.0010592	.002247	-.001079	-.018443

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011540**	**.0000517**	**.0000689**	**.0016856**	**-.000104**	**.0000437**
Stddev	.0013088	.0000801	.0000587	.0040888	.000046	.0001269
%RSD	113.4137	154.8629	85.21293	242.5672	43.72400	290.6068
#1	.0008740	.0000147	.0000914	.0048187	-.000157	.0001811
#2	.0025802	.0001437	.0000023	-.002940	-.000075	-.000069
#3	.0000079	-.000003	.0001131	.003178	-.000081	.000019

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004831**	**-.007385**	**-.000268**	**.0141930**	**.0002260**	**.0003514**
Stddev	.0002929	.007649	.000197	.0306554	.0003245	.0005177
%RSD	60.62369	103.5739	73.39672	215.9893	143.5734	147.3395
#1	.0006874	-.014683	-.000448	.0227222	.0002860	.0000407
#2	.0001476	-.008042	-.000058	-.019824	.0005164	.0009490
#3	.0006144	.000571	-.000298	.039681	-.000124	.0000644

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1879162**	**-.001828**	**.0002993**	**.2367766**	**-.000860**	**.0001586**
Stddev	.0040729	.000758	.0002148	.0269888	.000259	.0002753
%RSD	2.167408	41.48472	71.76894	11.39842	30.07082	173.5917
#1	.1849419	-.002627	.0005340	.2672946	-.001158	.0000387
#2	.1925583	-.001737	.0002517	.2269840	-.000729	.0004735
#3	.1862483	-.001119	.0001123	.2160512	-.000693	-.000036

Sample Name: PB168932BL Acquired: 7/22/2025 15:05:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0003143	.0056377	-.007202	.0005673	-.007859	F -.010051
Stddev	.0004211	.0013682	.018127	.0022135	.002087	.001915
%RSD	133.9642	24.26879	251.6919	390.1971	26.55269	19.05086
#1	.0001316	.0057806	.013696	.0030417	-.010199	-.009073
#2	.0000154	.0042037	-.018681	-.000115	-.007189	-.012257
#3	.0007959	.0069289	-.016621	-.001225	-.006190	-.008823

Elem	Sr4077
Units	ppm
Avg	-.000132
Stddev	.000065
%RSD	48.69275
#1	-.000067
#2	-.000135
#3	-.000196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5690.603	92417.36	8512.771	4688.101	6756.432
Stddev	9.810	248.11	3.851	8.539	7.231
%RSD	.1723905	.2684651	.0452328	.1821462	.1070292
#1	5700.614	92438.27	8514.127	4678.907	6762.939
#2	5690.187	92159.46	8515.759	4695.783	6757.711
#3	5681.007	92654.36	8508.425	4689.612	6748.647

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168932BS Acquired: 7/22/2025 15:15:41 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8052159**	**2.137502**	**.9814645**	**2.049954**	**.8620849**	**2.107479**
Stddev	.0056128	.091360	.0032950	.011088	.0023553	.016182
%RSD	.6970552	4.274131	.3357252	.5408697	.2732050	.7678600
#1	.7994944	2.032877	.9789524	2.039146	.8596463	2.124880
#2	.8054399	2.201514	.9802458	2.049414	.8622617	2.104676
#3	.8107133	2.178114	.9851953	2.061302	.8643469	2.092881

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2155586**	**.2116864**	**.1954455**	**1.117648**	**.4159962**	**.2050732**
Stddev	.0012549	.0006014	.0008016	.003947	.0018948	.0005157
%RSD	.5821782	.2840932	.4101233	.3531970	.4554788	.2514719
#1	.2142507	.2119533	.1945322	1.116725	.4179824	.2044782
#2	.2156722	.2109978	.1957717	1.121975	.4157979	.2053516
#3	.2167529	.2121082	.1960324	1.114243	.4142084	.2053899

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3247762**	**3.167306**	**.2187312**	**2.120567**	**.5194591**	**.0800583**
Stddev	.0012529	.020593	.0011895	.030372	.0018255	.0006649
%RSD	.3857783	.6501729	.5438150	1.432252	.3514309	.8304938
#1	.3243475	3.143666	.2187939	2.085533	.5174552	.0808088
#2	.3237939	3.176906	.2175116	2.139463	.5198946	.0795429
#3	.3261872	3.181346	.2198881	2.136706	.5210275	.0798232

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.966882**	**.3139008**	**.2209669**	**10.34042**	**.3194192**	**.4344645**
Stddev	.009443	.0010205	.0008969	.06734	.0012787	.0021756
%RSD	.3182766	.3250866	.4059191	.6512167	.4003263	.5007501
#1	2.960929	.3148251	.2219120	10.26408	.3207972	.4321211
#2	2.977770	.3140716	.2201274	10.39136	.3182709	.4348521
#3	2.961946	.3128057	.2208612	10.36582	.3191894	.4364201

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168932BS Acquired: 7/22/2025 15:15:41 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7267149**	**.2112958**	**.8905480**	**5.835058**	F **-.006381**	**.1883970**
Stddev	.0044904	.0010482	.0102069	.031126	.003448	.0030984
%RSD	.6178980	.4960860	1.146135	.5334311	54.03698	1.644625
#1	.7222607	.2117461	.8894603	5.799324	-.007559	.1884189
#2	.7266434	.2100976	.9012551	5.849593	-.002498	.1852877
#3	.7312405	.2120435	.8809285	5.856259	-.009086	.1914845

Elem	Sr4077
Units	ppm
Avg	**.2130274**
Stddev	.0007736
%RSD	.3631668
#1	.2129178
#2	.2123144
#3	.2138500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5519.762**	**90613.74**	**8522.671**	**4629.804**	**6440.406**
Stddev	24.119	264.00	9.258	18.496	22.199
%RSD	.4369486	.2913419	.1086225	.3995041	.3446900
#1	5498.314	90719.89	8520.030	4618.015	6424.840
#2	5545.871	90313.19	8532.962	4620.276	6465.826
#3	5515.100	90808.14	8515.021	4651.122	6430.550

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV03 Acquired: 7/22/2025 15:20:59 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.214094**	**5.074358**	**5.110597**	**5.225142**	**5.245097**	**10.48381**	**10.63991**
Stddev	.028410	.142830	.027511	.029850	.019630	.02170	.17544
%RSD	.5448744	2.814746	.5383038	.5712697	.3742510	.2070270	1.648884
#1	5.189154	4.942965	5.100176	5.198366	5.231318	10.50186	10.43755
#2	5.208107	5.053726	5.089819	5.219735	5.236399	10.48983	10.73294
#3	5.245020	5.226382	5.141796	5.257326	5.267573	10.45972	10.74925

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2616537**	**2.560272**	**26.75350**	**1.006844**	**2.564763**	**1.305499**	**5.145818**
Stddev	.0029434	.009904	.09843	.004576	.010689	.005803	.052504
%RSD	1.124908	.3868174	.3679110	.4544458	.4167755	.4445415	1.020331
#1	.2599175	2.558892	26.72517	1.005428	2.561700	1.301835	5.114337
#2	.2599914	2.551130	26.67234	1.011960	2.555939	1.302471	5.206429
#3	.2650521	2.570793	26.86299	1.003143	2.576649	1.312190	5.116686

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.664539**	**25.89700**	**2.585430**	**1.313333**	**23.59112**	**2.612920**	**2.648058**
Stddev	.002468	.02791	.009917	.001171	.35242	.004564	.008768
%RSD	.0926291	.1077755	.3835618	.0891743	1.493849	.1746586	.3310957
#1	2.662620	25.92677	2.580555	1.314365	23.55888	2.608835	2.655736
#2	2.663675	25.89280	2.578895	1.313574	23.95856	2.612080	2.638504
#3	2.667323	25.87142	2.596841	1.312060	23.25594	2.617846	2.649934

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.76468**	**5.420717**	**5.269037**	**5.168052**	**5.150724**	**4.955757**	**5.088944**
Stddev	.32624	.066613	.024914	.025014	.003512	.052128	.035307
%RSD	1.266231	1.228865	.4728298	.4840107	.0681864	1.051858	.6938002
#1	25.74635	5.406661	5.249824	5.160037	5.152124	4.967773	5.082190
#2	26.09969	5.362254	5.260100	5.148028	5.153320	5.000826	5.057502
#3	25.44798	5.493237	5.297186	5.196091	5.146728	4.898670	5.127140

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV03 Acquired: 7/22/2025 15:20:59 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.088886**	**5.128471**	**5.408299**
Stddev	.040236	.017575	.056229
%RSD	.7906672	.3426922	1.039672
#1	5.064733	5.139099	5.344189
#2	5.066590	5.138129	5.449249
#3	5.135334	5.108185	5.431459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5332.576**	**88168.69**	**8241.721**	**4448.009**	**5947.462**
Stddev	20.218	480.76	67.561	14.492	26.322
%RSD	.3791472	.5452724	.8197402	.3258123	.4425686
#1	5341.915	88338.60	8275.115	4431.394	5949.727
#2	5346.436	87626.05	8286.083	4458.044	5972.578
#3	5309.376	88541.42	8163.966	4454.588	5920.081

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB03 Acquired: 7/22/2025 15:26:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.001135**	**-.000301**	**.0011511**	**.0022309**	**-.001700**	**-.013545**	**.0013484**
Stddev	.001500	.000930	.0004685	.0031839	.001243	.001086	.0013427
%RSD	132.1763	308.5494	40.69786	142.7202	73.15238	8.014884	99.57902
#1	.000583	-.000949	.0008898	.0058727	-.002098	-.014269	.0015061
#2	-.001806	-.000720	.0008715	.0008460	-.000306	-.014069	-.000066
#3	-.002181	.000764	.0016919	-.000026	-.002695	-.012297	.002605

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000061**	**.0000923**	**.0470520**	**-.000207**	**.0002736**	**.0003922**	**-.007940**
Stddev	.0000229	.0000273	.0026942	.000102	.0001000	.0004585	.002849
%RSD	377.7351	29.62220	5.726062	49.21684	36.54678	116.8995	35.88132
#1	-.000014	.0001238	.0484322	-.000162	.0003749	.0008632	-.008967
#2	.000031	.0000753	.0439474	-.000136	.0001750	.0003664	-.010134
#3	.000001	.0000778	.0487766	-.000324	.0002707	-.000053	-.004720

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000113**	**.0380178**	**.0000436**	**.0006944**	**.0564248**	**-.001162**	**.0004539**
Stddev	.000093	.0103462	.0003457	.0001798	.0115574	.001750	.0002161
%RSD	82.25948	27.21409	791.9722	25.88749	20.48289	150.5391	47.60551
#1	-.000189	.0394810	-.000223	.0008389	.0665337	-.001278	.0006305
#2	-.000142	.0475545	.000434	.0007512	.0438251	-.002851	.0005183
#3	-.000009	.0270179	-.000081	.0004931	.0589158	.000643	.0002130

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1736166**	**.0038999**	**.0006467**	**.0030132**	**.0053671**	**-.006076**	**-.000561**
Stddev	.0280460	.0006234	.0002874	.0007972	.0007690	.023168	.002870
%RSD	16.15397	15.98528	44.43489	26.45698	14.32840	381.3399	511.3456
#1	.1799399	.0041621	.0009296	.0038046	.0044968	.019184	-.001050
#2	.1429488	.0031882	.0003551	.0030248	.0056494	-.026337	-.003155
#3	.1979612	.0043494	.0006554	.0022103	.0059551	-.011074	.002521

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB03 Acquired: 7/22/2025 15:26:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.006625**	**-.006772**	**.0001214**
Stddev	.002131	.002239	.0001001
%RSD	32.16796	33.06548	82.44918
#1	-.008143	-.006935	.0000509
#2	-.004189	-.004456	.0000772
#3	-.007545	-.008925	.0002359

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5547.664**	**89999.94**	**8287.188**	**4578.130**	**6597.006**
Stddev	7.560	172.68	35.887	10.147	11.904
%RSD	.1362772	.1918723	.4330448	.2216449	.1804390
#1	5546.557	89977.94	8297.477	4589.734	6601.303
#2	5555.716	89839.30	8316.807	4573.739	6606.165
#3	5540.718	90182.56	8247.280	4570.918	6583.551

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2633-02 Acquired: 7/22/2025 15:31:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0002755**	**-.004280**	**.0003698**	**-.000619**	**.0048098**	**.1434503**	**.0215244**
Stddev	.0012870	.001206	.0010201	.001396	.0011652	.0128529	.0011081
%RSD	467.0963	28.17033	275.8353	225.5689	24.22614	8.959821	5.147864
#1	.0013223	-.002950	.0002415	-.002071	.0059016	.1287428	.0224785
#2	.0006656	-.004588	.0014480	.000714	.0049447	.1490826	.0217858
#3	-.001161	-.005302	-.000580	-.000500	.0035830	.1525256	.0203091

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000186**	**.0000269**	**25.67357**	**.0031533**	**-.000070**	**.0053662**	**.0123734**
Stddev	.000022	.0000703	.07288	.0003905	.000174	.0006813	.0036371
%RSD	11.73997	261.3425	.2838733	12.38290	249.9106	12.69659	29.39424
#1	-.000168	.0000182	25.65735	.0027457	-.000241	.0060584	.0143848
#2	-.000181	.0001012	25.61017	.0035241	.000107	.0046963	.0081749
#3	-.000210	-.000039	25.75319	.0031902	-.000074	.0053438	.0145605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097870**	**.7741410**	**.0008048**	**.0005318**	**41.23633**	**-.000793**	**.1674264**
Stddev	.0006473	.0296878	.0001256	.0002714	.09759	.001774	.0008690
%RSD	6.614079	3.834935	15.60862	51.03116	.2366527	223.7774	.5190413
#1	.0103878	.7743532	.0006603	.0008444	41.14843	.000451	.1665630
#2	.0091015	.7443476	.0008883	.0003958	41.34134	-.000005	.1674152
#3	.0098716	.8037221	.0008658	.0003554	41.21922	-.002825	.1683010

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.287793**	**.0297111**	**.0018951**	**-.002964**	**.0075986**	**4.712646**	**.1041738**
Stddev	.027108	.0013112	.0003295	.000478	.0010509	.009599	.0039451
%RSD	.5126522	4.413282	17.38772	16.11069	13.83004	.2036888	3.787022
#1	5.318155	.0295867	.0019337	-.002583	.0087169	4.703286	.1028930
#2	5.266021	.0284665	.0015480	-.002808	.0074475	4.712185	.1086002
#3	5.279202	.0310801	.0022037	-.003500	.0066315	4.722468	.1010283

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2633-02 Acquired: 7/22/2025 15:31:45 Type: Unk
Method: 6010-200.7 NEW(v53) 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	2.791202	-.007069	.0931982
Stddev	.013027	.002622	.0000954
%RSD	.4667109	37.09099	.1024048
#1	2.776452	-.009072	.0933083
#2	2.796024	-.004102	.0931397
#3	2.801131	-.008035	.0931465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5475.576	89442.12	8319.357	4527.500	6275.244
Stddev	25.443	161.52	32.693	11.106	16.256
%RSD	.4646552	.1805887	.3929693	.2453116	.2590462
#1	5490.562	89337.37	8291.857	4522.139	6283.752
#2	5489.966	89628.13	8355.504	4520.091	6285.480
#3	5446.199	89360.85	8310.710	4540.270	6256.500

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-01 Acquired: 7/22/2025 15:36:00 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0003383**	**-.004222**	**.0050377**	**.0044605**	**.0020621**	**.0528834**	**.0042445**
Stddev	.0031006	.001245	.0007789	.0016728	.0011670	.0075351	.0007248
%RSD	916.6755	29.47874	15.46124	37.50173	56.59034	14.24860	17.07738
#1	.0030172	-.003489	.0055663	.0030602	.0010819	.0541429	.0046820
#2	-.003058	-.005659	.0041432	.0063129	.0017515	.0447978	.0046437
#3	.001056	-.003518	.0054036	.0040085	.0033530	.0597094	.0034078

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000150**	**-.000031**	**4.744418**	**.0001456**	**.0071779**	**.0608548**	**1.554232**
Stddev	.000021	.000032	.010087	.0005274	.0000958	.0002386	.011165
%RSD	14.22367	103.6592	.2126128	362.2786	1.334875	.3920147	.7183550
#1	-.000136	-.000065	4.732771	-.000462	.0072850	.0610329	1.562467
#2	-.000174	-.000022	4.750382	.000411	.0071005	.0605838	1.558704
#3	-.000139	-.000004	4.750100	.000488	.0071480	.0609478	1.541524

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189122**	**1.810857**	**.0092134**	**-.000028**	**15.00731**	**.0005373**	**.0427529**
Stddev	.0003004	.022268	.0004091	.000555	.09963	.0039709	.0001939
%RSD	1.588235	1.229711	4.439769	1974.285	.6638933	739.1053	.4535555
#1	.0187101	1.788587	.0087785	-.000584	14.97515	-.003295	.0425697
#2	.0192573	1.810861	.0092713	.000526	15.11905	.004634	.0427330
#3	.0187691	1.833123	.0095905	-.000026	14.92773	.000272	.0429560

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9287934**	**.0093640**	**.0007397**	**-.002550**	**.0080333**	**6.262931**	**.0064033**
Stddev	.0213393	.0011794	.0003667	.000288	.0012702	.056619	.0010706
%RSD	2.297526	12.59539	49.57606	11.30411	15.81160	.9040295	16.71919
#1	.9510957	.0096612	.0011630	-.002220	.0088451	6.251528	.0051799
#2	.9267152	.0103663	.0005193	-.002683	.0065695	6.324384	.0071688
#3	.9085693	.0080643	.0005368	-.002749	.0086853	6.212882	.0068613

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-01 Acquired: 7/22/2025 15:36:00 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.430059**	**-.011213**	**.0241698**
Stddev	.020565	.001714	.0000942
%RSD	.3787260	15.28904	.3896548
#1	5.414906	-.009577	.0240809
#2	5.453469	-.011067	.0242685
#3	5.421802	-.012996	.0241598

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5700.141**	**91056.53**	**8365.824**	**4647.885**	**6725.013**
Stddev	26.553	191.76	30.701	24.759	30.947
%RSD	.4658316	.2105941	.3669835	.5326973	.4601726
#1	5716.311	91015.52	8365.051	4676.318	6752.431
#2	5714.616	90888.60	8396.904	4631.087	6731.151
#3	5669.495	91265.48	8335.516	4636.249	6691.457

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02 Acquired: 7/22/2025 15:40:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002776**	**-.003576**	**.0016623**	**.0029171**	**.0005582**	**.0506386**	**.0050326**
Stddev	.001782	.001664	.0004415	.0012123	.0012917	.0053625	.0004319
%RSD	64.18617	46.53087	26.55860	41.55752	231.4070	10.58964	8.582644
#1	-.000764	-.002523	.0012357	.0015963	.0006614	.0452289	.0048031
#2	-.003408	-.005494	.0021173	.0039790	.0017951	.0507344	.0055309
#3	-.004155	-.002710	.0016341	.0031762	-.000782	.0559525	.0047639

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000192**	**-.000038**	**4.494025**	**-.000162**	**.0070842**	**.0051916**	**.1092379**
Stddev	.000007	.000027	.011784	.000220	.0000696	.0002203	.0058561
%RSD	3.603722	69.72924	.2622046	135.7011	.9826454	4.244298	5.360842
#1	-.000199	-.000015	4.500894	.000066	.0071638	.0052672	.1026951
#2	-.000186	-.000032	4.480419	-.000179	.0070349	.0049434	.1110303
#3	-.000190	-.000067	4.500762	-.000374	.0070538	.0053642	.1139883

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199090**	**1.747032**	**.0092667**	**.0000625**	**13.98121**	**-.002171**	**.0388794**
Stddev	.0001863	.028430	.0001959	.0002206	.01959	.002759	.0003119
%RSD	.9358194	1.627317	2.113861	353.0151	.1400951	127.0909	.8021245
#1	.0201177	1.764844	.0090408	.0003171	13.95860	-.000466	.0388678
#2	.0198501	1.762007	.0093697	-.000060	13.99223	-.000692	.0385735
#3	.0197593	1.714245	.0093896	-.000070	13.99282	-.005353	.0391970

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8597653**	**.0087073**	**.0007868**	**-.002267**	**.0079418**	**5.815387**	**.0062703**
Stddev	.0032928	.0008206	.0004732	.000315	.0006033	.025071	.0020847
%RSD	.3829836	9.423745	60.14383	13.90195	7.595801	.4311115	33.24686
#1	.8567599	.0092524	.0012829	-.002523	.0072465	5.788422	.0040602
#2	.8592510	.0077636	.0007371	-.002364	.0083257	5.837993	.0082014
#3	.8632849	.0091060	.0003404	-.001915	.0082532	5.819745	.0065493

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02 Acquired: 7/22/2025 15:40:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.155460**	**-.011872**	**.0247953**
Stddev	.032360	.000855	.0002083
%RSD	.6276862	7.201591	.8401056
#1	5.125621	-.012786	.0250140
#2	5.150901	-.011737	.0245992
#3	5.189857	-.011092	.0247726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5682.465**	**93455.03**	**8440.565**	**4714.569**	**6671.193**
Stddev	3.768	274.26	2.766	12.395	9.675
%RSD	.0663032	.2934669	.0327732	.2629127	.1450254
#1	5680.919	93727.66	8441.182	4714.591	6662.264
#2	5686.760	93179.17	8437.543	4702.162	6681.472
#3	5679.716	93458.26	8442.971	4726.953	6669.843

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02DUP Acquired: 7/22/2025 15:44:32 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.002104**	**-.002893**	**.0019712**	**.0018519**	**.0007587**	**.0633076**	**.0043968**
Stddev	.000661	.002064	.0016690	.0017223	.0001111	.0066294	.0007868
%RSD	31.40305	71.33194	84.67043	93.00466	14.64928	10.47170	17.89406
#1	-.001693	-.003842	.0006928	.0003217	.0006763	.0558945	.0051012
#2	-.002866	-.000526	.0013614	.0015169	.0007147	.0653609	.0045414
#3	-.001753	-.004311	.0038593	.0037171	.0008851	.0686674	.0035478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000159**	**-.000065**	**4.721737**	**-.000060**	**.0073815**	**.0057670**	**.1161991**
Stddev	.000043	.000119	.026260	.000178	.0001391	.0001573	.0110858
%RSD	26.81878	181.8492	.5561521	296.0673	1.884411	2.727195	9.540339
#1	-.000135	.000049	4.717378	-.000025	.0074995	.0059483	.1265619
#2	-.000134	-.000189	4.697929	-.000253	.0072282	.0056855	.1045097
#3	-.000208	-.000057	4.749904	.000098	.0074169	.0056671	.1175258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0210525**	**1.784717**	**.0095426**	**.0003383**	**14.54767**	**-.001635**	**.0406639**
Stddev	.0003089	.018901	.0001246	.0004507	.03575	.001246	.0001395
%RSD	1.467109	1.059050	1.305658	133.2476	.2457148	76.22406	.3429232
#1	.0213840	1.793618	.0095557	.0006090	14.58081	-.002411	.0406127
#2	.0207728	1.763009	.0094120	.0005878	14.55241	-.002297	.0408217
#3	.0210007	1.797525	.0096602	-.000182	14.50979	-.000197	.0405574

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9308223**	**.0082994**	**.0011064**	**-.002719**	**.0079717**	**6.033783**	**.0069592**
Stddev	.0234651	.0005519	.0001968	.000619	.0002936	.023705	.0017641
%RSD	2.520897	6.650003	17.78695	22.75064	3.683384	.3928754	25.34936
#1	.9538524	.0080153	.0009109	-.002258	.0076874	6.016092	.0049406
#2	.9316692	.0089355	.0011038	-.002477	.0079539	6.060718	.0077320
#3	.9069452	.0079475	.0013045	-.003422	.0082739	6.024540	.0082050

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02DUP Acquired: 7/22/2025 15:44:32 Type: Unk
Method: 6010-200.7 NEW(v53) 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	5.359541	-.010603	.0258287
Stddev	.023363	.003462	.0000578
%RSD	.4359056	32.65290	.2236342
#1	5.372389	-.006606	.0257742
#2	5.332574	-.012564	.0258227
#3	5.373660	-.012640	.0258893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5608.000	93205.42	8436.407	4659.645	6545.449
Stddev	8.245	203.59	38.624	21.617	3.385
%RSD	.1470235	.2184302	.4578229	.4639253	.0517126
#1	5615.511	93064.76	8443.297	4636.121	6544.166
#2	5609.310	93438.87	8471.122	4678.637	6549.288
#3	5599.178	93112.62	8394.801	4664.178	6542.893

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02LX5 Acquired: 7/22/2025 15:48:49 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0006733**	**-.000944**	**.0013478**	**.0003756**	**-.000276**	**.0180614**	**.0024568**
Stddev	.0005787	.001341	.0002960	.0002245	.000579	.0148715	.0007287
%RSD	85.95508	141.9541	21.95801	59.77944	209.4887	82.33855	29.66106
#1	.0001648	-.001460	.0010763	.0001528	-.000407	.0265651	.0016219
#2	.0013031	.000577	.0016633	.0003721	.000357	.0267296	.0027835
#3	.0005521	-.001950	.0013038	.0006018	-.000778	.0008895	.0029650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**-.000114**	**.8942138**	**-.000313**	**.0014280**	**.0015729**	**.0165392**
Stddev	.000049	.000037	.0088861	.000154	.0001906	.0004262	.0046314
%RSD	88.42426	32.34229	.9937379	49.03812	13.34690	27.09920	28.00276
#1	-.000033	-.000081	.8911355	-.000137	.0012504	.0010810	.0167114
#2	-.000111	-.000154	.8872761	-.000417	.0016293	.0018322	.0210821
#3	-.000022	-.000108	.9042297	-.000386	.0014042	.0018056	.0118241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040350**	**.3433882**	**.0013663**	**.0006627**	**2.650920**	**-.000457**	**.0083435**
Stddev	.0002219	.0185917	.0000908	.0001870	.003238	.003387	.0002210
%RSD	5.499245	5.414202	6.646475	28.21764	.1221533	741.2615	2.648790
#1	.0042482	.3594892	.0014171	.0004904	2.652905	.001458	.0083588
#2	.0040516	.3230405	.0012615	.0008615	2.652672	-.004367	.0081153
#3	.0038053	.3476350	.0014204	.0006361	2.647183	.001538	.0085565

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2931155**	**.0014126**	**.0001286**	**-.000386**	**.0089914**	**1.137145**	**.0012695**
Stddev	.0288487	.0003592	.0001107	.000246	.0018461	.008963	.0028802
%RSD	9.842079	25.42552	86.05240	63.85886	20.53200	.7881931	226.8776
#1	.2800021	.0017955	.0001636	-.000670	.0104675	1.127877	-.001446
#2	.2731529	.0013590	.0000047	-.000250	.0069215	1.137788	.000965
#3	.3261915	.0010833	.0002176	-.000238	.0095852	1.145768	.004290

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02LX5 Acquired: 7/22/2025 15:48:49 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.037461	-.007188	.0048477
Stddev	.006095	.000477	.0000612
%RSD	.5874663	6.643331	1.261856
#1	1.036650	-.007440	.0048095
#2	1.031812	-.007485	.0048152
#3	1.043920	-.006637	.0049182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5584.146	91141.38	8257.710	4592.144	6587.237
Stddev	8.598	167.41	60.332	18.478	9.199
%RSD	.1539777	.1836779	.7306142	.4023853	.1396437
#1	5593.631	90986.00	8188.413	4570.986	6597.859
#2	5581.943	91318.66	8298.556	4600.334	6581.917
#3	5576.863	91119.47	8286.161	4605.111	6581.936

Sample Name: Q2644-02MS Acquired: 7/22/2025 15:53:09 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7429227**	**1.702792**	**.8940259**	**1.817813**	**.7875087**	**2.026309**	**.2065065**
Stddev	.0045994	.030959	.0012379	.004951	.0028669	.008625	.0011599
%RSD	.6190997	1.818134	.1384576	.2723333	.3640415	.4256506	.5616945
#1	.7385963	1.708128	.8929638	1.812297	.7841988	2.018858	.2052353
#2	.7424182	1.730736	.8937287	1.821872	.7892102	2.024310	.2075074
#3	.7477536	1.669512	.8953853	1.819269	.7891173	2.035757	.2067767

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1910301**	**.1793190**	**5.511691**	**.3887883**	**.1978382**	**.3022111**	**3.063132**
Stddev	.0014561	.0004099	.029253	.0017898	.0003898	.0006731	.014840
%RSD	.7622432	.2286082	.5307397	.4603657	.1970439	.2227328	.4844713
#1	.1901100	.1789498	5.500139	.3884269	.1975408	.3028689	3.057167
#2	.1927089	.1792471	5.544956	.3907312	.1976943	.3022408	3.052202
#3	.1902714	.1797602	5.489978	.3872067	.1982796	.3015236	3.080026

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2250747**	**3.679786**	**.4891518**	**.0720861**	**16.92845**	**.2981758**	**.2426373**
Stddev	.0008745	.011215	.0007045	.0002514	.02935	.0042330	.0005344
%RSD	.3885497	.3047688	.1440201	.3487028	.1734016	1.419641	.2202449
#1	.2254760	3.668912	.4890279	.0723755	16.91372	.3027026	.2427689
#2	.2256766	3.691313	.4885176	.0719614	16.90939	.2975092	.2420494
#3	.2240716	3.679134	.4899100	.0719216	16.96226	.2943156	.2430936

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.25592**	**.2832668**	**.4272788**	**.6794475**	**.2007941**	**6.681682**	**5.388014**
Stddev	.00792	.0013808	.0005133	.0009441	.0017272	.022454	.012870
%RSD	.0772150	.4874628	.1201302	.1389548	.8602066	.3360506	.2388646
#1	10.25103	.2833011	.4267628	.6786276	.1989733	6.701397	5.373793
#2	10.25168	.2846302	.4272842	.6804797	.2009995	6.657242	5.391387
#3	10.26506	.2818692	.4277894	.6792352	.2024094	6.686408	5.398861

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02MS Acquired: 7/22/2025 15:53:09 Type: Unk
Method: 6010-200.7 NEW(v53) 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	5.059477	.1744019	.2243167
Stddev	.005631	.0018588	.0011263
%RSD	.1112987	1.065792	.5020971
#1	5.053666	.1747738	.2233199
#2	5.064909	.1723854	.2255385
#3	5.059855	.1760467	.2240916

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5597.525	91682.83	8417.363	4642.683	6518.859
Stddev	8.627	229.98	52.563	13.113	9.027
%RSD	.1541264	.2508485	.6244557	.2824374	.1384705
#1	5596.562	91816.79	8445.493	4641.483	6518.238
#2	5606.593	91417.27	8356.721	4656.355	6528.179
#3	5589.419	91814.44	8449.874	4630.212	6510.158

Sample Name: Q2644-02MSD Acquired: 7/22/2025 15:57:07 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7793814**	**1.948657**	**.9375006**	**1.928217**	**.8258322**	**2.117694**	**.2145381**
Stddev	.0034673	.053412	.0038386	.010471	.0033766	.008353	.0008838
%RSD	.4448762	2.740965	.4094538	.5430633	.4088687	.3944552	.4119628
#1	.7781696	1.896499	.9335492	1.917751	.8232912	2.124434	.2144579
#2	.7766826	1.946232	.9377372	1.928206	.8245416	2.120299	.2154592
#3	.7832919	2.003241	.9412155	1.938694	.8296637	2.108349	.2136971

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1991835**	**.1881369**	**5.771987**	**.4087721**	**.2074123**	**.3163737**	**3.190940**
Stddev	.0020227	.0004342	.048758	.0009148	.0003963	.0009491	.023178
%RSD	1.015517	.2307668	.8447358	.2238026	.1910879	.2999822	.7263683
#1	.2004652	.1876366	5.778674	.4085187	.2069552	.3154763	3.165180
#2	.2002337	.1883589	5.817055	.4097869	.2076216	.3162776	3.197534
#3	.1968517	.1884152	5.720230	.4080107	.2076602	.3173672	3.210107

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2358089**	**3.842800**	**.5128003**	**.0746331**	**18.04773**	**.3111898**	**.2551146**
Stddev	.0005770	.030681	.0012459	.0005681	.13441	.0023962	.0014751
%RSD	.2446965	.7983969	.2429539	.7611957	.7447549	.7700236	.5782145
#1	.2351694	3.827284	.5116819	.0752841	17.97096	.3108287	.2564397
#2	.2362906	3.822975	.5125760	.0743780	17.96931	.3089947	.2553790
#3	.2359668	3.878139	.5141431	.0742374	18.20294	.3137461	.2535252

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.76412**	**.2924061**	**.4483936**	**.7142028**	**.2082792**	**7.096826**	**5.644106**
Stddev	.04870	.0030607	.0022454	.0016670	.0013953	.063802	.018584
%RSD	.4524407	1.046725	.5007639	.2334041	.6699381	.8990271	.3292575
#1	10.74171	.2941825	.4462731	.7123437	.2071870	7.063092	5.627804
#2	10.73065	.2941639	.4481618	.7147003	.2077995	7.056971	5.640171
#3	10.81999	.2888719	.4507459	.7155644	.2098511	7.170413	5.664341

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02MSD Acquired: 7/22/2025 15:57:07 Type: Unk
Method: 6010-200.7 NEW(v53) 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	5.436916	.1825914	.2337754
Stddev	.037551	.0019745	.0007164
%RSD	.6906598	1.081366	.3064386
#1	5.403390	.1814910	.2341166
#2	5.429866	.1848709	.2342574
#3	5.477492	.1814123	.2329522

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5531.200	90800.18	8402.757	4604.270	6435.032
Stddev	10.440	90.43	79.601	16.676	15.444
%RSD	.1887447	.0995940	.9473225	.3621823	.2399999
#1	5531.446	90702.38	8359.764	4585.015	6434.791
#2	5541.514	90817.40	8353.897	4613.787	6450.596
#3	5520.639	90880.77	8494.610	4614.008	6419.711

Sample Name: Q2644-02A Acquired: 7/22/2025 16:01:04 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8013110**	**1.914776**	**.9605975**	**1.974799**	**.8439459**	**2.178490**	**.2201925**
Stddev	.0040681	.061639	.0030072	.005592	.0006846	.017350	.0015820
%RSD	.5076849	3.219132	.3130513	.2831712	.0811237	.7964123	.7184460
#1	.7967519	1.874193	.9574170	1.968547	.8439735	2.189677	.2193991
#2	.8026104	1.884429	.9609808	1.976528	.8446163	2.158503	.2191643
#3	.8045707	1.985704	.9633946	1.979323	.8432479	2.187288	.2220141

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072912**	**.1920528**	**5.639981**	**.4194509**	**.2121841**	**.3244441**	**3.216879**
Stddev	.0031692	.0003954	.048108	.0007928	.0003892	.0009267	.034319
%RSD	1.528885	.2059085	.8529855	.1890117	.1834422	.2856322	1.066837
#1	.2040942	.1919345	5.597208	.4202752	.2126201	.3239003	3.253001
#2	.2073474	.1917301	5.630672	.4193838	.2120607	.3239180	3.212932
#3	.2104320	.1924940	5.692064	.4186938	.2118715	.3255142	3.184705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405197**	**3.829367**	**.5251064**	**.0771441**	**17.28102**	**.3205596**	**.2616357**
Stddev	.0007444	.026887	.0002746	.0000967	.29251	.0017909	.0002634
%RSD	.3094811	.7021341	.0522868	.1253573	1.692648	.5586698	.1006745
#1	.2396684	3.798893	.5247908	.0772401	17.58981	.3215478	.2615406
#2	.2408427	3.839465	.5252909	.0771456	17.24514	.3184923	.2619335
#3	.2410480	3.849743	.5252373	.0770467	17.00811	.3216386	.2614331

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.96611**	**.3073283**	**.4558422**	**.7269298**	**.2125990**	**6.768218**	**5.787384**
Stddev	.20285	.0043705	.0004100	.0025177	.0008370	.077750	.010890
%RSD	1.849819	1.422087	.0899346	.3463510	.3936814	1.148750	.1881641
#1	11.18892	.3030481	.4555481	.7241586	.2116633	6.848797	5.787199
#2	10.91725	.3071532	.4556679	.7275542	.2128576	6.762213	5.776588
#3	10.79214	.3117837	.4563105	.7290766	.2132762	6.693645	5.798366

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2644-02A Acquired: 7/22/2025 16:01:04 Type: Unk
Method: 6010-200.7 NEW(v53) 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	5.206911	.1881477	.2402597
Stddev	.033893	.0012531	.0005198
%RSD	.6509156	.6660123	.2163454
#1	5.172644	.1891740	.2408344
#2	5.207672	.1885178	.2398224
#3	5.240416	.1867512	.2401223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5606.096	92004.47	8379.574	4661.406	6514.207
Stddev	12.885	59.00	129.904	8.836	11.950
%RSD	.2298330	.0641275	1.550243	.1895513	.1834430
#1	5597.086	91942.42	8514.761	4671.268	6506.249
#2	5600.348	92011.14	8368.269	4654.212	6508.423
#3	5620.854	92059.85	8255.693	4658.737	6527.948

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2646-01 Acquired: 7/22/2025 16:05:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.000768**	**-.002853**	**.0064132**	**.0066938**	**.0049003**	**.7424458**	**.0377864**
Stddev	.000793	.001089	.0018047	.0015492	.0003786	.0159954	.0002740
%RSD	103.2825	38.18374	28.14002	23.14424	7.725941	2.154416	.7251900
#1	-.001490	-.002440	.0046687	.0057794	.0047485	.7510328	.0374800
#2	.000081	-.002031	.0062984	.0084825	.0046213	.7239907	.0380079
#3	-.000894	-.004089	.0082726	.0058194	.0053313	.7523139	.0378714

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000144**	**.0000339**	**43.18148**	**.0073939**	**.0010009**	**.0562324**	**4.280110**
Stddev	.000020	.0000332	.03657	.0006908	.0000702	.0005214	.003289
%RSD	13.63201	97.95508	.0846818	9.343269	7.017829	.9272333	.0768411
#1	-.000129	.0000138	43.17512	.0066027	.0009818	.0566850	4.283837
#2	-.000137	.0000722	43.14851	.0077012	.0009422	.0563500	4.278873
#3	-.000166	.0000156	43.22081	.0078777	.0010788	.0556623	4.277619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1542726**	**3.920026**	**.0129512**	**.0007918**	**15.71967**	**.0073361**	**.1558734**
Stddev	.0004842	.037955	.0001141	.0006415	.05070	.0003589	.0005900
%RSD	.3138647	.9682454	.8810297	81.01945	.3225125	4.892029	.3784988
#1	.1547911	3.881811	.0129288	.0011558	15.77024	.0072127	.1552530
#2	.1538323	3.920549	.0128499	.0011684	15.71992	.0070553	.1564273
#3	.1541943	3.957717	.0130748	.0000511	15.66885	.0077405	.1559401

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.856505**	**.0178111**	**.0021878**	**.0077246**	**.0259177**	**1.683120**	**1.249208**
Stddev	.041095	.0007721	.0004152	.0005465	.0005458	.002263	.002560
%RSD	.7016952	4.335116	18.97769	7.074688	2.106038	.1344413	.2049074
#1	5.896046	.0169993	.0017289	.0071619	.0260903	1.685726	1.247236
#2	5.859453	.0178977	.0025373	.0082533	.0263563	1.681980	1.248287
#3	5.814016	.0185363	.0022974	.0077584	.0253064	1.681653	1.252101

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2646-01 Acquired: 7/22/2025 16:05:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**4.066714**	**-.001570**	**.2158754**
Stddev	.014881	.001520	.0008748
%RSD	.3659274	96.83542	.4052399
#1	4.083648	-.001507	.2167177
#2	4.060775	-.000082	.2149713
#3	4.055719	-.003121	.2159374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5480.014**	**90612.49**	**8502.594**	**4557.445**	**6305.484**
Stddev	1.547	236.81	31.128	11.559	2.175
%RSD	.0282306	.2613465	.3661014	.2536338	.0344905
#1	5480.289	90845.52	8534.262	4567.626	6306.318
#2	5478.348	90372.07	8501.485	4544.880	6303.016
#3	5481.406	90619.87	8472.036	4559.828	6307.119

Sample Name: PB168926TB Acquired: 7/22/2025 16:09:16 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.001884**	**-.004688**	**.0007803**	**.0038518**	**.0010551**	**.0004210**	**-.000230**
Stddev	.001770	.002564	.0016873	.0018716	.0011321	.0078744	.000329
%RSD	93.95272	54.68263	216.2267	48.59032	107.2996	1870.657	142.8120
#1	-.000446	-.003362	-.001101	.0058538	-.000230	.0008762	.000124
#2	-.001345	-.007643	.002160	.0035554	.001907	.0080579	-.000290
#3	-.003860	-.003059	.001282	.0021460	.001488	-.007671	-.000525

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**-.000061**	**.0087912**	**.0008925**	**-.000115**	**.0025121**	**.0166404**
Stddev	.000036	.000013	.0083999	.0003145	.000103	.0008699	.0053363
%RSD	17.00893	21.63536	95.54896	35.24303	89.57111	34.62834	32.06834
#1	-.000192	-.000076	.0062711	.0011051	-.000007	.0015083	.0203537
#2	-.000254	-.000052	.0181627	.0010413	-.000127	.0029817	.0105253
#3	-.000191	-.000055	.0019399	.0005312	-.000211	.0030462	.0190423

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049437**	**.0120788**	**.0009870**	**.0005870**	**377.5482**	**-.003026**	**.0026441**
Stddev	.0002908	.0115173	.0003633	.0002278	2.1059	.001450	.0001154
%RSD	5.883062	95.35091	36.81056	38.80353	.5577704	47.91577	4.366123
#1	.0052595	.0250405	.0012170	.0003552	378.8103	-.002749	.0026995
#2	.0046870	.0030206	.0005681	.0005952	375.1172	-.001735	.0025114
#3	.0048845	.0081753	.0011758	.0008106	378.7173	-.004595	.0027213

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.016910**	**-.001247**	**.0007528**	**-.001654**	**.0075842**	**.0065975**	**.0058131**
Stddev	.007471	.001003	.0001450	.000429	.0015699	.0087189	.0026280
%RSD	44.17923	80.45793	19.26345	25.95424	20.69907	132.1552	45.20747
#1	-.017365	-.001897	.0006030	-.001478	.0060313	.0015617	.0028643
#2	-.009223	-.001752	.0007627	-.001340	.0091705	.0166653	.0066676
#3	-.024144	-.000092	.0008925	-.002143	.0075509	.0015656	.0079075

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168926TB Acquired: 7/22/2025 16:09:16 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0742617	-.013832	.0000051
Stddev	.0019753	.001676	.0000136
%RSD	2.659899	12.11395	264.5577
#1	.0754321	-.014628	.0000172
#2	.0753719	-.011907	-.000010
#3	.0719811	-.014961	.000008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5285.119	87324.85	8506.956	4408.142	5825.503
Stddev	26.583	152.20	72.547	11.917	28.069
%RSD	.5029742	.1742904	.8527966	.2703446	.4818378
#1	5282.378	87151.41	8590.462	4420.532	5813.436
#2	5312.967	87436.10	8470.956	4407.131	5857.589
#3	5260.014	87387.05	8459.449	4396.762	5805.485

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV04 Acquired: 7/22/2025 16:13:44 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.223397**	**5.151292**	**5.099030**	**5.240840**	**5.277653**	**10.47543**	**10.77437**
Stddev	.011087	.013096	.011811	.013642	.010903	.01842	.03772
%RSD	.2122507	.2542280	.2316235	.2603100	.2065892	.1758420	.3501122
#1	5.219496	5.161348	5.106232	5.226598	5.268590	10.45583	10.79626
#2	5.214789	5.136483	5.085399	5.242130	5.274617	10.47808	10.73082
#3	5.235907	5.156045	5.105458	5.253792	5.289753	10.49238	10.79605

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2567552**	**2.557423**	**26.98568**	**1.010525**	**2.567714**	**1.309749**	**5.269437**
Stddev	.0020998	.004061	.10456	.002333	.004652	.003382	.027256
%RSD	.8178235	.1587859	.3874703	.2308744	.1811769	.2582390	.5172467
#1	.2549168	2.559095	27.04131	1.007869	2.569074	1.307594	5.294685
#2	.2563053	2.552793	26.86506	1.011464	2.562533	1.308006	5.273085
#3	.2590435	2.560381	27.05066	1.012243	2.571534	1.313647	5.240540

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.671623**	**25.90875**	**2.588310**	**1.316581**	**23.83827**	**2.620334**	**2.657493**
Stddev	.002205	.07138	.005429	.004945	.14092	.001284	.007136
%RSD	.0825507	.2755006	.2097536	.3755581	.5911337	.0490108	.2685290
#1	2.674141	25.93620	2.589340	1.322273	23.99923	2.621802	2.661920
#2	2.670034	25.82772	2.582439	1.314122	23.77841	2.619422	2.661298
#3	2.670695	25.96233	2.593150	1.313349	23.73716	2.619776	2.649261

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.46863**	**5.301509**	**5.305404**	**5.160059**	**5.181581**	**5.074107**	**5.067455**
Stddev	.11783	.011819	.010768	.014026	.001869	.023857	.003163
%RSD	.4451816	.2229421	.2029602	.2718269	.0360756	.4701764	.0624256
#1	26.60397	5.292765	5.295479	5.170008	5.180890	5.095105	5.063803
#2	26.41313	5.296806	5.303880	5.144017	5.183698	5.079050	5.069345
#3	26.38880	5.314956	5.316853	5.166153	5.180156	5.048165	5.069219

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV04 Acquired: 7/22/2025 16:13:44 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.096835**	**5.146198**	**5.423348**
Stddev	.007908	.006888	.068578
%RSD	.1551605	.1338390	1.264488
#1	5.095967	5.145315	5.478649
#2	5.089396	5.153484	5.346614
#3	5.105141	5.139794	5.444781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5343.614**	**88308.88**	**8432.053**	**4442.699**	**5970.583**
Stddev	5.801	238.54	37.234	9.142	2.739
%RSD	.1085583	.2701215	.4415802	.2057738	.0458824
#1	5349.876	88063.11	8455.693	4432.529	5968.971
#2	5342.543	88539.46	8451.333	4445.334	5973.746
#3	5338.423	88324.07	8389.132	4450.235	5969.032

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB04 Acquired: 7/22/2025 16:17:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0014375**	**.0010341**	**.0006866**	**-.001203**	**-.000623**	**-.003646**	**.0004577**
Stddev	.0023431	.0007051	.0010553	.002978	.001070	.007570	.0013631
%RSD	162.9949	68.19299	153.6951	247.4856	171.7469	207.6195	297.8217
#1	.0035218	.0017054	.0018010	.000463	-.000227	-.011832	-.000564
#2	-.001099	.0002994	-.000297	-.004641	-.001835	.003101	.002005
#3	.001890	.0010973	.000556	.000569	.000192	-.002208	-.000068

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000040**	**.0000911**	**.0461769**	**.0000283**	**.0000853**	**.0006113**	**-.006504**
Stddev	.000091	.0000682	.0101376	.0005480	.0000469	.0002423	.006185
%RSD	226.4164	74.85136	21.95373	1934.515	54.92825	39.63288	95.10133
#1	.000058	.0000130	.0560492	-.000114	.0001372	.0008905	-.013645
#2	-.000056	.0001386	.0357935	.000634	.0000728	.0004862	-.002988
#3	-.000121	.0001218	.0466879	-.000434	.0000460	.0004571	-.002877

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000401**	**.0130094**	**.0001177**	**.0003442**	**.1969519**	**-.001873**	**.0001144**
Stddev	.000281	.0195662	.0002831	.0004321	.0128675	.001081	.0000386
%RSD	70.05492	150.4003	240.5867	125.5229	6.533333	57.70256	33.78547
#1	-.000692	.0328289	-.000157	.0007722	.2107421	-.003049	.0000746
#2	-.000131	.0124923	.000101	.0003522	.1948471	-.000922	.0001518
#3	-.000380	-.006293	.000409	-.000092	.1852666	-.001649	.0001166

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3203412**	**.0036179**	**.0008723**	**.0031504**	**.0058781**	**-.005716**	**.0016784**
Stddev	.0307613	.0004061	.0002448	.0002863	.0014713	.008546	.0040287
%RSD	9.602667	11.22612	28.06488	9.086513	25.03057	149.5019	240.0358
#1	.3539747	.0040452	.0009986	.0028477	.0044656	-.008552	-.001631
#2	.3134160	.0035716	.0010283	.0031869	.0074020	-.012484	.006165
#3	.2936328	.0032368	.0005902	.0034168	.0057668	.003887	.000501

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB04 Acquired: 7/22/2025 16:17:56 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.006402	-.007231	.0000367
Stddev	.002306	.002741	.0001120
%RSD	36.01467	37.90954	305.5124
#1	-.004121	-.009631	-.000030
#2	-.008731	-.004244	.000166
#3	-.006355	-.007817	-.000026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5545.671	91381.68	8401.883	4616.586	6599.738
Stddev	5.334	134.47	46.514	8.720	2.810
%RSD	.0961876	.1471537	.5536137	.1888913	.0425809
#1	5545.948	91236.45	8439.981	4613.006	6599.014
#2	5550.862	91406.70	8350.048	4610.226	6602.839
#3	5540.204	91501.88	8415.621	4626.527	6597.360

Sample Name: PB168933BL Acquired: 7/22/2025 16:22:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0006930**	**-.000546**	**.0010713**	**-.002820**	**-.000830**	**.0086718**	**.0005500**
Stddev	.0014673	.001447	.0010030	.005161	.001868	.0010218	.0004153
%RSD	211.7220	264.9938	93.62431	182.9915	225.0720	11.78251	75.49628
#1	-.000990	-.000481	.0016444	.001181	-.001371	.0076529	.0003742
#2	.001368	-.002025	-.000087	-.000997	.001249	.0086663	.0002516
#3	.001701	.000867	.001656	-.008646	-.002368	.0096964	.0010243

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000056**	**-.000014**	**-.002901**	**.0002076**	**.0001490**	**.0003313**	**-.002251**
Stddev	.0000436	.000095	.007439	.0002993	.0000641	.0002769	.002055
%RSD	783.7689	683.6066	256.3983	144.1751	43.04149	83.59430	91.30995
#1	.0000542	-.000061	-.009973	-.000130	.0001996	.0002081	-.002345
#2	-.000030	.000096	.004858	.000312	.0001705	.0001374	-.004257
#3	-.000008	-.000077	-.003589	.000441	.0000769	.0006485	-.000150

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000078**	**.0316529**	**.0001554**	**.0006365**	**.0655750**	**-.002386**	**.0005566**
Stddev	.000334	.0525658	.0002571	.0003476	.0115300	.001353	.0001116
%RSD	429.8994	166.0693	165.4725	54.60897	17.58293	56.71135	20.04766
#1	-.000023	-.002412	-.000141	.0009309	.0739748	-.003341	.0006348
#2	-.000435	.092192	.000298	.0002531	.0703207	-.002978	.0004288
#3	.000225	.005179	.000309	.0007255	.0524295	-.000838	.0006062

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1779008**	**.0014718**	**.0004654**	**.0004073**	**.0083510**	**-.001603**	**.0006316**
Stddev	.0308185	.0010323	.0002763	.0001736	.0010156	.009670	.0036577
%RSD	17.32340	70.14060	59.36111	42.63042	12.16163	603.1482	579.1399
#1	.2022126	.0018041	.0007678	.0005932	.0095206	-.001119	.0039598
#2	.1432398	.0003143	.0004020	.0002495	.0078404	-.011507	-.003284
#3	.1882500	.0022971	.0002263	.0003791	.0076919	.007816	.001219

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168933BL Acquired: 7/22/2025 16:22:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.008125**	**-.009704**	**-.000118**
Stddev	.000614	.001700	.000054
%RSD	7.552700	17.51440	45.22828
#1	-.008558	-.011041	-.000065
#2	-.007423	-.010280	-.000118
#3	-.008395	-.007792	-.000172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5545.651**	**90481.37**	**8359.537**	**4611.664**	**6605.155**
Stddev	10.582	197.60	33.402	8.526	14.943
%RSD	.1908176	.2183843	.3995668	.1848847	.2262356
#1	5535.553	90254.63	8326.172	4601.855	6589.720
#2	5544.742	90572.68	8392.976	4617.297	6606.191
#3	5556.659	90616.79	8359.462	4615.840	6619.553

Sample Name: Q2649-01 Acquired: 7/22/2025 16:36:35 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1801009**	**.0372663**	**.3320883**	**-.107806**	**-.036321**	**301.2588**	**2.693452**
Stddev	.0041540	.0041976	.0043954	.003004	.001450	7.1352	.007969
%RSD	2.306472	11.26371	1.323571	2.786217	3.992428	2.368466	.2958549
#1	.1822281	.0336903	.3299268	-.111098	-.037349	306.0479	2.689787
#2	.1827605	.0362209	.3371460	-.105216	-.036953	304.6701	2.702594
#3	.1753142	.0418878	.3291922	-.107103	-.034663	293.0582	2.687976

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0264613**	**-.003676**	**34.96796**	**.4330706**	**.4436782**	**1.152653**	**837.1302**
Stddev	.0003297	.000838	.29876	.0016373	.0002309	.001546	2.5209
%RSD	1.246109	22.79116	.8543681	.3780774	.0520358	.1341132	.3011367
#1	.0264017	-.003175	35.01092	.4326903	.4435488	1.154018	834.4842
#2	.0268168	-.004643	35.24291	.4316568	.4435410	1.152967	839.5040
#3	.0261655	-.003210	34.65005	.4348646	.4439447	1.150975	837.4022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.70815**	**103.1405**	**.6053043**	**.0155268**	**14.07940**	**.4499145**	**1.302796**
Stddev	.08271	.4630	.0006422	.0011072	.14846	.0036263	.001870
%RSD	.5623688	.4488540	.1060881	7.130547	1.054455	.8059927	.1435327
#1	14.69942	102.7453	.6047154	.0143106	13.94013	.4457394	1.304718
#2	14.79488	103.6498	.6052086	.0157937	14.06247	.4522785	1.302687
#3	14.63014	103.0263	.6059890	.0164762	14.23560	.4517256	1.300983

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.69477**	^ *****	**.0030396**	**.0204491**	**4.914755**	**4.737092**	**9.879174**
Stddev	.16735	-----	.0006770	.0022354	.030466	.103185	.022478
%RSD	.8497030	-----	22.27390	10.93150	.6198784	2.178231	.2275253
#1	19.51977	^ -----	.0034856	.0182586	4.904796	4.619062	9.856444
#2	19.71130	^ -----	.0022605	.0203619	4.948954	4.810206	9.879686
#3	19.85324	^ -----	.0033726	.0227269	4.890515	4.782007	9.901391

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-01 Acquired: 7/22/2025 16:36:35 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.1335404	.9694966	-.492040
Stddev	.0051566	.0052632	.001709
%RSD	3.861451	.5428753	.3472379
#1	.1323658	.9647295	-.490072
#2	.1391830	.9751446	-.493146
#3	.1290724	.9686157	-.492902

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5724.946	94700.40	9579.143	4765.204	5359.878
Stddev	1.700	321.49	95.776	10.401	7.975
%RSD	.0296879	.3394845	.9998417	.2182754	.1487958
#1	5726.749	95071.13	9554.212	4761.401	5368.506
#2	5724.717	94498.34	9498.298	4757.240	5352.777
#3	5723.373	94531.72	9684.920	4776.972	5358.349

Sample Name: Q2649-05 Acquired: 7/22/2025 16:40:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.1295667	.0212326	.2347547	-.073060	-.025549	173.5545	1.494534
Stddev	.0024099	.0039712	.0007519	.004095	.001223	.0489	.001746
%RSD	1.859997	18.70333	.3202831	5.604774	4.786149	.0281828	.1168523
#1	.1272061	.0171691	.2349620	-.070371	-.026913	173.5016	1.494694
#2	.1294710	.0251045	.2339209	-.077772	-.024551	173.5638	1.492714
#3	.1320231	.0214243	.2353812	-.071036	-.025184	173.5981	1.496195

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0191838	-.002547	31.99948	.3188561	.2440655	.6927278	527.6986
Stddev	.0002687	.000125	.14829	.0017112	.0002444	.0041519	.9964
%RSD	1.400548	4.913783	.4634267	.5366545	.1001203	.5993483	.1888275
#1	.0189478	-.002658	32.06457	.3198181	.2439412	.6893609	528.0319
#2	.0194762	-.002572	32.10410	.3198696	.2439082	.6914557	528.4857
#3	.0191275	-.002412	31.82977	.3168804	.2443470	.6973669	526.5783

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.235079	52.94721	.3509725	.0147599	5.100663	.4245901	.8578444
Stddev	.013310	.21126	.0012821	.0003397	.035007	.0012352	.0005904
%RSD	.1441223	.3990095	.3652890	2.301495	.6863315	.2909219	.0688276
#1	9.238670	52.71660	.3498129	.0145405	5.088688	.4236928	.8582896
#2	9.246224	52.99363	.3507553	.0151512	5.073214	.4240787	.8571746
#3	9.220342	53.13141	.3523493	.0145879	5.140087	.4259989	.8580690

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.85637	^ *****	.0120601	.0177566	4.273333	4.987897	7.090020
Stddev	.06176	-----	.0002922	.0011657	.002433	.069577	.016472
%RSD	.3664107	-----	2.422798	6.565060	.0569374	1.394916	.2323259
#1	16.87888	^ -----	.0119069	.0169981	4.272049	5.015778	7.073063
#2	16.78650	^ -----	.0123970	.0171729	4.271810	4.908704	7.091038
#3	16.90371	^ -----	.0118763	.0190989	4.276139	5.039210	7.105959

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-05 Acquired: 7/22/2025 16:40:54 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.1198838	.5951316	-.222811
Stddev	.0023690	.0004837	.000654
%RSD	1.976083	.0812813	.2933957
#1	.1225471	.5955938	-.222580
#2	.1190927	.5951721	-.223549
#3	.1180115	.5946289	-.222304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5844.625	96349.37	9481.034	4882.163	5670.801
Stddev	10.095	106.02	47.332	18.821	3.937
%RSD	.1727285	.1100325	.4992269	.3855043	.0694327
#1	5854.489	96418.24	9507.364	4879.889	5671.550
#2	5845.072	96402.58	9426.392	4902.018	5674.311
#3	5834.314	96227.29	9509.347	4864.583	5666.543

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-09 Acquired: 7/22/2025 16:45:06 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0778292**	**.0231712**	**.5213358**	**-.061878**	**-.026034**	**253.9940**	**2.845480**
Stddev	.0015109	.0028937	.0033096	.001595	.001140	1.1496	.007601
%RSD	1.941339	12.48822	.6348386	2.577179	4.379427	.4525910	.2671139
#1	.0778358	.0242995	.5247644	-.062844	-.027169	254.9969	2.842322
#2	.0793368	.0198834	.5181596	-.062753	-.024888	254.2454	2.854150
#3	.0763150	.0253308	.5210834	-.060038	-.026046	252.7395	2.839967

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0200534**	**.0035939**	**30.49002**	**.3313898**	**1.654704**	**.6321500**	**518.9067**
Stddev	.0000437	.0002619	.17314	.0010847	.003802	.0005531	1.0309
%RSD	.2177832	7.286107	.5678576	.3273245	.2297936	.0874951	.1986758
#1	.0200094	.0034333	30.40149	.3326265	1.655311	.6324239	518.5608
#2	.0200967	.0038961	30.68953	.3305996	1.650635	.6325127	518.0932
#3	.0200541	.0034524	30.37905	.3309433	1.658166	.6315134	520.0661

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.81684**	**64.42842**	**.7029781**	**.0093291**	**6.251080**	**.3229611**	**1.154185**
Stddev	.06426	.09067	.0018742	.0002478	.009913	.0035273	.000921
%RSD	.3242864	.1407289	.2666100	2.655903	.1585840	1.092160	.0798344
#1	19.78014	64.32400	.7030749	.0092992	6.261101	.3203883	1.153198
#2	19.89104	64.47403	.7010574	.0090977	6.241278	.3269819	1.155022
#3	19.77932	64.48723	.7048021	.0095905	6.250862	.3215130	1.154337

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.91244**	**^ *****	**.0133489**	**.0170517**	**3.383614**	**3.873393**	**5.815051**
Stddev	.03093	-----	.0008404	.0010700	.004688	.036663	.011282
%RSD	.1478923	-----	6.295479	6.274790	.1385395	.9465257	.1940155
#1	20.94454	^ -----	.0132426	.0164623	3.382494	3.915068	5.818579
#2	20.90996	^ -----	.0125668	.0182868	3.388760	3.846110	5.802426
#3	20.88283	^ -----	.0142374	.0164060	3.379587	3.859000	5.824147

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-09 Acquired: 7/22/2025 16:45:06 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.051956	.8238347	-.237849
Stddev	.003041	.0032917	.001550
%RSD	.2891128	.3995563	.6517959
#1	1.055307	.8202837	-.238024
#2	1.049371	.8244365	-.236219
#3	1.051189	.8267841	-.239304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6390.755	104994.6	10297.87	5323.497	5561.729
Stddev	4.887	212.2	36.92	3.756	10.680
%RSD	.0764621	.2020909	.3585500	.0705611	.1920258
#1	6395.744	104907.2	10307.64	5326.869	5559.271
#2	6385.978	104840.1	10257.04	5319.449	5573.424
#3	6390.542	105236.6	10328.92	5324.173	5552.493

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168933BS Acquired: 7/22/2025 16:49:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7903619**	**1.939090**	**.9759317**	**1.992325**	**.8270585**	**2.110408**
Stddev	.0081927	.032823	.0061061	.010488	.0046834	.003005
%RSD	1.036581	1.692678	.6256699	.5264062	.5662676	.1423766
#1	.7828048	1.902903	.9711945	1.983208	.8221745	2.108802
#2	.7892122	1.947424	.9737778	1.989980	.8274894	2.108547
#3	.7990688	1.966942	.9828229	2.003787	.8315115	2.113874

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2157237**	**.2174242**	**.1943185**	**1.093962**	**.4142975**	**.2042686**
Stddev	.0014850	.0008759	.0008895	.001946	.0007603	.0006057
%RSD	.6883871	.4028384	.4577309	.1779121	.1835172	.2965414
#1	.2172868	.2178636	.1940702	1.091817	.4136953	.2039512
#2	.2143316	.2179933	.1935797	1.095614	.4151518	.2038875
#3	.2155528	.2164156	.1953058	1.094457	.4140452	.2049671

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3230259**	**3.090332**	**.2189910**	**2.094180**	**.5176114**	**.0793468**
Stddev	.0009149	.006682	.0003770	.032417	.0021585	.0004515
%RSD	.2832414	.2162331	.1721516	1.547975	.4170086	.5689930
#1	.3220158	3.094455	.2193357	2.102912	.5164608	.0795990
#2	.3232625	3.082623	.2190487	2.121337	.5162719	.0788256
#3	.3237992	3.093920	.2185884	2.058291	.5201014	.0796159

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.749678**	**.3118693**	**.2191427**	**9.972085**	**.3279380**	**.4196410**
Stddev	.004212	.0039288	.0010981	.046032	.0020594	.0018690
%RSD	.1531707	1.259767	.5010736	.4616043	.6279733	.4453716
#1	2.745573	.3074297	.2182148	9.935047	.3302329	.4177067
#2	2.749470	.3132812	.2188583	9.957588	.3273299	.4197794
#3	2.753989	.3148971	.2203549	10.02362	.3262511	.4214369

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168933BS Acquired: 7/22/2025 16:49:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.7013051	.2046948	.8333951	5.839732	F -.005003	.1886037
Stddev	.0022988	.0029693	.0096626	.023838	.001472	.0021359
%RSD	.3277856	1.450598	1.159421	.4082103	29.42907	1.132469
#1	.6996831	.2071682	.8364874	5.835305	-.003786	.1866481
#2	.7002964	.2014018	.8411330	5.818417	-.006640	.1882802
#3	.7039358	.2055145	.8225649	5.865473	-.004584	.1908829

Elem	Sr4077
Units	ppm
Avg	.2132583
Stddev	.0004701
%RSD	.2204494
#1	.2137809
#2	.2128699
#3	.2131240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5563.172	90499.31	8216.782	4657.120	6478.394
Stddev	18.573	133.06	42.527	12.702	19.814
%RSD	.3338509	.1470292	.5175571	.2727429	.3058515
#1	5569.300	90455.08	8168.811	4645.588	6480.881
#2	5577.906	90648.85	8231.676	4670.734	6496.847
#3	5542.309	90394.00	8249.858	4655.037	6457.453

Sample Name: Q2649-13 Acquired: 7/22/2025 16:53:26 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1677610**	**.0267404**	**1.167579**	**-.093791**	**-.076323**	**139.2373**	**3.657668**
Stddev	.0020494	.0026083	.004335	.002305	.001141	.2751	.007014
%RSD	1.221601	9.754145	.3712700	2.457845	1.495473	.1975453	.1917618
#1	.1658154	.0293283	1.162748	-.092775	-.075014	139.4512	3.657140
#2	.1699004	.0241122	1.168859	-.092168	-.077110	138.9270	3.650932
#3	.1675673	.0267807	1.171129	-.096429	-.076845	139.3336	3.664930

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184252**	**.0039106**	**57.24797**	**.3978054**	**.2833233**	**1.026611**	**670.5504**
Stddev	.0004019	.0009577	.20635	.0011493	.0007110	.006274	7.4846
%RSD	2.181206	24.48948	.3604496	.2889172	.2509664	.6111723	1.116189
#1	.0184438	.0039493	57.42025	.3984641	.2828793	1.025377	667.6195
#2	.0180143	.0029342	57.01928	.3964782	.2829471	1.021044	679.0570
#3	.0188175	.0048484	57.30437	.3984737	.2841434	1.033410	664.9748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.443546**	**76.80144**	**.5397325**	**.0121920**	**13.72057**	**.4070488**	**1.822510**
Stddev	.028242	.09247	.0031145	.0021486	.08945	.0016074	.005932
%RSD	.3794159	.1204007	.5770377	17.62295	.6519748	.3948947	.3254851
#1	7.462399	76.85435	.5374732	.0112689	13.72564	.4080538	1.824700
#2	7.411075	76.69466	.5384390	.0146479	13.80739	.4078978	1.827036
#3	7.457163	76.85529	.5432853	.0106593	13.62869	.4051949	1.815795

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.28162**	**^ *****	**.0063342**	**5.012638**	**3.846151**	**3.121023**	**12.31424**
Stddev	.08484	-----	.0002936	.009217	.005183	.040540	.00955
%RSD	.3807643	-----	4.634733	.1838826	.1347663	1.298919	.0775357
#1	22.25954	^ -----	.0060057	5.005573	3.840467	3.128533	12.31453
#2	22.37532	^ -----	.0065709	5.009277	3.850616	3.077253	12.30455
#3	22.21001	^ -----	.0064260	5.023065	3.847371	3.157282	12.32364

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-13 Acquired: 7/22/2025 16:53:26 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.270073	.7739407	-.195326
Stddev	.005751	.0022838	.008012
%RSD	.4528200	.2950868	4.101620
#1	1.264218	.7726674	-.192131
#2	1.270288	.7765773	-.204442
#3	1.275714	.7725775	-.189406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5845.776	96361.72	9556.957	4839.361	5451.311
Stddev	7.966	300.52	43.587	32.963	7.968
%RSD	.1362770	.3118694	.4560769	.6811444	.1461730
#1	5854.953	96523.92	9539.747	4832.635	5460.316
#2	5840.637	96014.95	9606.521	4810.280	5448.445
#3	5841.738	96546.30	9524.602	4875.168	5445.173

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17 Acquired: 7/22/2025 16:57:37 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1949207**	**.0137671**	**.0698123**	**-.068903**	**-.023172**	**87.48115**	**.2754251**
Stddev	.0016334	.0003480	.0018708	.003974	.001738	.10347	.0003766
%RSD	.8379604	2.527725	2.679735	5.767045	7.501914	.1182772	.1367430
#1	.1954274	.0135887	.0709265	-.064999	-.024383	87.37393	.2750797
#2	.1962407	.0141681	.0676525	-.068766	-.023953	87.48911	.2753689
#3	.1930941	.0135445	.0708581	-.072943	-.021180	87.58041	.2758266

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0145600**	**-.003808**	**15.28111**	**.5928888**	**.0494047**	**.5774825**	**514.8992**
Stddev	.0002379	.000149	.14669	.0013532	.0004533	.0014178	1.5378
%RSD	1.633876	3.910619	.9599294	.2282325	.9175903	.2455087	.2986532
#1	.0148276	-.003654	15.12323	.5941273	.0489785	.5765517	516.0429
#2	.0144800	-.003817	15.30693	.5930946	.0493546	.5791142	513.1510
#3	.0143725	-.003952	15.41318	.5914445	.0498810	.5767815	515.5036

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6915483**	**5.011432**	**.0616194**	**.0077874**	**.7712827**	**.6813461**	**.3503370**
Stddev	.0035891	.026602	.0004343	.0011340	.0177927	.0024945	.0013599
%RSD	.5189911	.5308305	.7048701	14.56147	2.306895	.3661122	.3881762
#1	.6874775	5.039597	.0621132	.0087563	.7915605	.6832930	.3487757
#2	.6942565	4.986733	.0614487	.0065402	.7640051	.6822110	.3509729
#3	.6929109	5.007965	.0612964	.0080657	.7582825	.6785343	.3512626

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.22903**	**^ *******	**.0057404**	**.0155808**	**1.025086**	**2.926615**	**10.71676**
Stddev	.09384	-----	.0000870	.0003439	.000882	.023744	.02885
%RSD	.7673680	-----	1.515948	2.206969	.0860687	.8113290	.2691749
#1	12.23329	^ -----	.0058024	.0153626	1.024969	2.944445	10.74665
#2	12.32067	^ -----	.0057779	.0159771	1.024268	2.935739	10.71455
#3	12.13313	^ -----	.0056409	.0154025	1.026021	2.899662	10.68909

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17 Acquired: 7/22/2025 16:57:37 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.3567124	.2081620	-.387505
Stddev	.0009994	.0010185	.001669
%RSD	.2801723	.4892955	.4306368
#1	.3573231	.2077798	-.389073
#2	.3555590	.2093163	-.385751
#3	.3572551	.2073898	-.387691

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5979.875	98148.92	9403.344	4959.149	5945.613
Stddev	10.610	65.94	66.253	11.011	7.182
%RSD	.1774261	.0671851	.7045728	.2220347	.1207943
#1	5991.834	98136.81	9454.099	4970.541	5953.764
#2	5976.199	98220.07	9427.540	4958.341	5942.861
#3	5971.592	98089.87	9328.394	4948.564	5940.214

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17DUP Acquired: 7/22/2025 17:01:51 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.2370752**	**.0206724**	**.8743076**	**-.073015**	**-.011562**	**88.60150**	**.5359700**
Stddev	.0019937	.0025890	.0022522	.001857	.001166	.16336	.0019005
%RSD	.8409524	12.52391	.2575978	2.543400	10.08801	.1843788	.3545910
#1	.2385591	.0234698	.8747106	-.072479	-.012614	88.46464	.5344431
#2	.2348090	.0201870	.8718812	-.075081	-.010308	88.55750	.5353683
#3	.2378576	.0183605	.8763311	-.071485	-.011765	88.78235	.5380985

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189237**	**-.006727**	**19.46282**	**.5044771**	**.0933616**	**1.653604**	**548.9610**
Stddev	.0001103	.000470	.06221	.0040524	.0006151	.006608	1.0706
%RSD	.5826452	6.990713	.3196118	.8032793	.6588267	.3996198	.1950152
#1	.0188450	-.006939	19.49479	.5065535	.0926517	1.647258	548.6263
#2	.0190498	-.007053	19.39113	.5070705	.0937352	1.653109	550.1589
#3	.0188764	-.006188	19.50254	.4998074	.0936980	1.660446	548.0977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.403813**	**7.309853**	**.1427785**	**.0122384**	**2.733775**	**.6572932**	**8.503533**
Stddev	.005311	.023535	.0007543	.0006524	.007769	.0021122	.009092
%RSD	.3783041	.3219625	.5282893	5.330448	.2841736	.3213458	.1069204
#1	1.402968	7.333529	.1419732	.0114857	2.727167	.6549541	8.513681
#2	1.398976	7.286462	.1434684	.0125892	2.742333	.6578646	8.500790
#3	1.409496	7.309568	.1428939	.0126402	2.731825	.6590609	8.496129

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.52911**	**^ *****	**.0109491**	**.2663252**	**1.263330**	**3.791386**	**10.83310**
Stddev	.05040	-----	.0000968	.0011064	.003719	.031933	.03276
%RSD	.4371706	-----	.8845356	.4154305	.2943709	.8422389	.3024338
#1	11.55035	^ -----	.0110610	.2650597	1.259652	3.758110	10.82656
#2	11.56542	^ -----	.0108942	.2668061	1.263252	3.821780	10.80410
#3	11.47156	^ -----	.0108922	.2671098	1.267088	3.794269	10.86864

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17DUP Acquired: 7/22/2025 17:01:51 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.7157531	.2339436	-.396687
Stddev	.0067675	.0018732	.001177
%RSD	.9455103	.8006880	.2965867
#1	.7208882	.2350380	-.396603
#2	.7080843	.2317808	-.397904
#3	.7182867	.2350122	-.395555

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5960.100	98961.58	9617.872	4988.504	5949.092
Stddev	17.123	281.29	20.934	14.284	10.677
%RSD	.2873017	.2842439	.2176586	.2863326	.1794704
#1	5978.578	99008.25	9638.252	4996.600	5957.416
#2	5956.955	98659.87	9618.942	4996.901	5952.806
#3	5944.767	99216.62	9596.424	4972.012	5937.055

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17LX5 Acquired: 7/22/2025 17:06:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0430594**	**.0048483**	**.0128196**	**-.011766**	**-.006654**	**19.36842**	**.0628829**
Stddev	.0036231	.0024886	.0010252	.003133	.002074	.03705	.0007503
%RSD	8.414070	51.32947	7.997243	26.62980	31.17379	.1913017	1.193163
#1	.0463846	.0035073	.0117859	-.013462	-.004343	19.39590	.0629235
#2	.0391982	.0033178	.0138362	-.008150	-.008354	19.38306	.0636120
#3	.0435954	.0077197	.0128366	-.013684	-.007266	19.32628	.0621131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030206**	**-.002722**	**3.447587**	**.1340211**	**.0097833**	**.1305015**	**118.0528**
Stddev	.0001142	.000102	.011956	.0008224	.0001863	.0008053	.4603
%RSD	3.780451	3.752288	.3467925	.6136756	1.904538	.6170502	.3899047
#1	.0029590	-.002636	3.449011	.1335031	.0099181	.1314285	118.5832
#2	.0031524	-.002835	3.458767	.1349694	.0098612	.1301007	117.7575
#3	.0029505	-.002694	3.434983	.1335907	.0095707	.1299753	117.8178

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1572447**	**1.161010**	**.0122837**	**.0026544**	**.1810223**	**.1511673**	**.0780041**
Stddev	.0004457	.019282	.0003313	.0003717	.0052830	.0025783	.0000998
%RSD	.2834302	1.660783	2.696833	14.00347	2.918432	1.705578	.1279650
#1	.1571994	1.145790	.0125125	.0022259	.1825041	.1534772	.0779170
#2	.1577114	1.182693	.0119039	.0028474	.1751566	.1516388	.0781131
#3	.1568235	1.154548	.0124348	.0028899	.1854061	.1483857	.0779823

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.729683**	**-.007135**	**.0009878**	**.0017563**	**.2339002**	**.6413250**	**2.137949**
Stddev	.006063	.001975	.0003705	.0003364	.0033689	.0159789	.017763
%RSD	.2221110	27.67552	37.51266	19.15317	1.440307	2.491539	.8308392
#1	2.735088	-.005567	.0014156	.0020104	.2315159	.6542263	2.158060
#2	2.730835	-.009352	.0007818	.0018837	.2377542	.6462978	2.131379
#3	2.723127	-.006485	.0007660	.0013748	.2324303	.6234511	2.124406

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17LX5 Acquired: 7/22/2025 17:06:02 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0590850	.0404552	-.089434
Stddev	.0044522	.0022343	.000356
%RSD	7.535200	5.522934	.3985483
#1	.0597684	.0429606	-.089829
#2	.0543306	.0386691	-.089136
#3	.0631559	.0397361	-.089337

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5697.780	92794.89	8643.793	4741.072	6414.123
Stddev	2.830	101.02	29.759	28.483	5.415
%RSD	.0496738	.1088589	.3442849	.6007677	.0844261
#1	5695.708	92824.65	8677.941	4728.765	6408.154
#2	5701.005	92877.69	8630.045	4773.639	6418.720
#3	5696.628	92682.34	8623.394	4720.812	6415.495

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17MS Acquired: 7/22/2025 17:10:12 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.9158983**	**1.771247**	**1.175959**	**1.461956**	**.4445648**	**110.1434**
Stddev	.0088067	.041278	.002188	.005121	.0023400	.2305
%RSD	.9615335	2.330450	.1860365	.3502572	.5263575	.2092685
#1	.9061018	1.801724	1.173480	1.456066	.4418970	109.8897
#2	.9231585	1.787745	1.176777	1.464452	.4462695	110.2005
#3	.9184347	1.724272	1.177619	1.465350	.4455280	110.3399

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5427091**	**.1841346**	**.1799104**	**19.28228**	**.8795972**	**.2753836**
Stddev	.0021863	.0014334	.0004319	.01932	.0055736	.0009579
%RSD	.4028490	.7784451	.2400422	.1001850	.6336548	.3478551
#1	.5403774	.1834407	.1798490	19.26574	.8830838	.2744375
#2	.5430368	.1831803	.1795125	19.27758	.8731691	.2753604
#3	.5447130	.1857829	.1803697	19.30351	.8825387	.2763530

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.030279**	**643.0501**	**1.065218**	**11.76152**	**.6008085**	**.0801141**
Stddev	.006262	2.2907	.003475	.04293	.0017383	.0009215
%RSD	.6077844	.3562182	.3262216	.3650016	.2893231	1.150278
#1	1.023997	641.5186	1.062156	11.72366	.5992722	.0792296
#2	1.030320	645.6835	1.064504	11.75275	.6004580	.0810687
#3	1.036520	641.9483	1.068995	11.80816	.6026954	.0800441

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.496740**	**1.008471**	**1.379950**	**25.21004**	^ *****	**.3923934**
Stddev	.018079	.007786	.001250	.04939	-----	.0004516
%RSD	.5170301	.7720600	.0905476	.1959258	-----	.1150914
#1	3.484329	1.002405	1.378853	25.23491	^ -----	.3919641
#2	3.517483	1.017251	1.381310	25.24206	^ -----	.3928644
#3	3.488408	1.005758	1.379687	25.15316	^ -----	.3923518

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17MS Acquired: 7/22/2025 17:10:12 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.7638934	1.380891	4.516019	F 18.57170	.5858023	.4488212
Stddev	.0006657	.003896	.032361	.05774	.0048279	.0009746
%RSD	.0871432	.2821546	.7165802	.3109185	.8241545	.2171399
#1	.7642701	1.377544	4.483271	18.50640	.5841603	.4479852
#2	.7631248	1.385168	4.516807	18.59269	.5912371	.4498916
#3	.7642853	1.379960	4.547978	18.61601	.5820096	.4485867

Elem	Sr4077
Units	ppm
Avg	-.311599
Stddev	.002020
%RSD	.6481318
#1	-.310560
#2	-.313926
#3	-.310310

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6002.880	98463.84	9584.354	4984.285	5808.423
Stddev	12.863	203.91	24.134	9.716	13.933
%RSD	.2142743	.2070947	.2518036	.1949239	.2398697
#1	6016.372	98358.02	9605.556	4982.336	5821.733
#2	6001.511	98334.59	9589.415	4975.691	5809.595
#3	5990.756	98698.91	9558.091	4994.827	5793.942

Sample Name: CCV05 Acquired: 7/22/2025 17:14:16 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.173035**	**4.999324**	**5.115301**	**5.180031**	**5.210542**	**10.43281**	**10.69386**
Stddev	.009931	.032541	.011183	.011445	.017673	.04543	.10919
%RSD	.1919773	.6509127	.2186231	.2209504	.3391715	.4354743	1.021023
#1	5.170748	4.967137	5.117955	5.180124	5.222127	10.42498	10.62072
#2	5.164447	4.998627	5.103029	5.168539	5.190201	10.39179	10.81936
#3	5.183910	5.032209	5.124918	5.191430	5.219298	10.48164	10.64149

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2633223**	**2.560512**	**27.12059**	**1.022223**	**2.564102**	**1.303418**	**5.297751**
Stddev	.0004411	.007220	.05066	.002598	.006204	.002966	.010971
%RSD	.1675300	.2819921	.1867900	.2541529	.2419400	.2275705	.2070965
#1	.2631297	2.558233	27.07331	1.025221	2.565030	1.303736	5.289408
#2	.2638270	2.554706	27.11441	1.020627	2.557486	1.300306	5.293665
#3	.2630102	2.568597	27.17406	1.020821	2.569788	1.306213	5.310179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.676969**	**26.08985**	**2.585570**	**1.321811**	**23.80981**	**2.608893**	**2.652272**
Stddev	.011999	.11175	.006305	.002130	.11959	.008817	.010607
%RSD	.4482448	.4283292	.2438657	.1611121	.5022769	.3379744	.3999028
#1	2.665929	25.99419	2.585461	1.321329	23.90424	2.607911	2.652922
#2	2.675238	26.21268	2.579321	1.324140	23.67533	2.600608	2.662538
#3	2.689740	26.06268	2.591930	1.319963	23.84985	2.618161	2.641355

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.00766**	**5.395672**	**5.254357**	**5.165327**	**5.145819**	**5.035906**	**5.167819**
Stddev	.09893	.014099	.012230	.010385	.017419	.012079	.006360
%RSD	.3803924	.2613110	.2327632	.2010485	.3385097	.2398525	.1230706
#1	26.09010	5.379660	5.253521	5.160821	5.142586	5.048763	5.173258
#2	25.89796	5.406227	5.242565	5.157957	5.130244	5.024795	5.160826
#3	26.03493	5.401129	5.266983	5.177204	5.164629	5.034160	5.169373

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV05 Acquired: 7/22/2025 17:14:16 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.081846**	**5.056995**	**5.433231**
Stddev	.019248	.024785	.010936
%RSD	.3787676	.4901152	.2012882
#1	5.079141	5.054206	5.442248
#2	5.064093	5.033723	5.421065
#3	5.102304	5.083057	5.436379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5395.892**	**87038.40**	**8224.609**	**4459.022**	**6013.646**
Stddev	18.615	218.32	27.476	9.779	19.984
%RSD	.3449869	.2508299	.3340724	.2193151	.3323164
#1	5403.592	86962.95	8246.665	4464.943	6021.057
#2	5409.421	86867.80	8193.831	4447.735	6028.866
#3	5374.662	87284.43	8233.332	4464.389	5991.015

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB05 Acquired: 7/22/2025 17:18:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0018311**	**.0002981**	**.0008292**	**-.001987**	**.0006807**	**-.005105**	**.0010252**
Stddev	.0013023	.0013723	.0002920	.001276	.0009195	.003435	.0008436
%RSD	71.12047	460.2940	35.21519	64.23923	135.0769	67.28305	82.28730
#1	.0003384	-.000162	.0011495	-.003204	.0015926	-.001984	.0017505
#2	.0027350	-.000785	.0007605	-.000659	.0006958	-.004545	.0012257
#3	.0024201	.001841	.0005777	-.002098	-.000246	-.008785	.0000994

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000361**	**.0000878**	**.0417332**	**-.000227**	**.0002652**	**.0002199**	**-.003702**
Stddev	.0000341	.0000325	.0103019	.000292	.0000720	.0005695	.005464
%RSD	94.63247	37.00601	24.68501	128.4727	27.15553	259.0070	147.5859
#1	-.000001	.0000793	.0529366	-.000519	.0002121	-.000142	-.009995
#2	.000067	.0001237	.0326687	-.000227	.0002362	-.000075	-.000161
#3	.000042	.0000604	.0395944	.000065	.0003471	.000876	-.000950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000451**	**.0108486**	**-.000186**	**.0003498**	**.0020775**	**-.001077**	**.0003491**
Stddev	.000446	.0106233	.000157	.0000120	.0028335	.002538	.0003494
%RSD	99.06780	97.92279	84.64516	3.442795	136.3909	235.6868	100.0844
#1	-.000883	.0033341	-.000077	.0003389	.0030582	.001199	-.000039
#2	.000008	.0230025	-.000366	.0003627	-.001116	-.000615	.000448
#3	-.000477	.0062093	-.000114	.0003477	.004290	-.003814	.000638

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1425116**	**.0030999**	**.0009007**	**.0032968**	**.0077860**	**.0081011**	**.0019242**
Stddev	.0211288	.0003447	.0000807	.0001447	.0021074	.0092380	.0022952
%RSD	14.82599	11.11999	8.960408	4.387863	27.06655	114.0350	119.2815
#1	.1657743	.0027464	.0008706	.0034075	.0065422	.0154562	.0028503
#2	.1372491	.0031181	.0009921	.0033499	.0065966	.0111144	.0036117
#3	.1245115	.0034351	.0008393	.0031331	.0102192	-.002267	-.000689

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB05 Acquired: 7/22/2025 17:18:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.005952**	**-.009480**	**.0000195**
Stddev	.000291	.001241	.0000186
%RSD	4.895928	13.09309	95.41188
#1	-.005671	-.010039	.0000410
#2	-.005932	-.010344	.0000101
#3	-.006253	-.008058	.0000074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5556.915**	**92132.54**	**8386.056**	**4714.124**	**6609.333**
Stddev	7.565	177.11	31.277	6.877	11.905
%RSD	.1361352	.1922319	.3729655	.1458901	.1801229
#1	5554.585	92327.35	8377.961	4721.065	6605.338
#2	5565.371	92089.03	8420.585	4707.312	6622.722
#3	5550.789	91981.24	8359.622	4713.994	6599.940

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17MSD Acquired: 7/22/2025 17:22:48 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.9818185**	**1.725263**	**1.377065**	**1.516498**	**.4274330**	**111.2709**
Stddev	.0049785	.028458	.004485	.003049	.0017583	.1108
%RSD	.5070708	1.649500	.3256992	.2010814	.4113640	.0995549
#1	.9864781	1.696125	1.375896	1.513327	.4294604	111.2908
#2	.9824044	1.752989	1.373280	1.519409	.4263248	111.1515
#3	.9765730	1.726674	1.382019	1.516758	.4265139	111.3703

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5814807**	**.1913682**	**.1871058**	**20.12099**	**1.165520**	**.2833312**
Stddev	.0000477	.0013103	.0000521	.09835	.003334	.0003408
%RSD	.0082072	.6846813	.0278631	.4887839	.2860498	.1202728
#1	.5814582	.1925800	.1871571	20.11554	1.169033	.2829379
#2	.5815355	.1899778	.1870529	20.02547	1.165128	.2835196
#3	.5814484	.1915468	.1871074	20.22194	1.162400	.2835362

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.171241**	**690.4887**	**1.124257**	**11.11652**	**.6162694**	**.0814891**
Stddev	.001065	.9881	.003653	.01356	.0021198	.0005259
%RSD	.0909511	.1431076	.3249618	.1219807	.3439772	.6454259
#1	1.170108	691.0697	1.121988	11.13061	.6151980	.0820925
#2	1.171393	689.3477	1.122311	11.10357	.6148991	.0811278
#3	1.172222	691.0485	1.128471	11.11538	.6187110	.0812471

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.689230**	**1.142872**	**1.427057**	**25.19187**	**^ *****	**.3679486**
Stddev	.006160	.004088	.001830	.13720	-----	.0006129
%RSD	.1669736	.3576607	.1282563	.5446078	-----	.1665605
#1	3.683316	1.146469	1.428194	25.03520	^ -----	.3682107
#2	3.695610	1.138427	1.424945	25.29055	^ -----	.3672482
#3	3.688766	1.143719	1.428030	25.24985	^ -----	.3683868

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17MSD Acquired: 7/22/2025 17:22:48 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.7775769	1.579555	4.388108	F 19.32129	.6503677	.4766543
Stddev	.0012453	.003682	.007809	.05366	.0055976	.0018402
%RSD	.1601496	.2331243	.1779687	.2777110	.8606830	.3860561
#1	.7774564	1.583640	4.382349	19.26088	.6522701	.4784761
#2	.7763962	1.578535	4.396997	19.33961	.6440669	.4766904
#3	.7788780	1.576490	4.384977	19.36339	.6547662	.4747964

Elem	Sr4077
Units	ppm
Avg	-.343968
Stddev	.000769
%RSD	.2237055
#1	-.344210
#2	-.343106
#3	-.344587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5920.520	98707.25	9570.430	4968.422	5714.145
Stddev	5.112	306.96	38.405	18.685	.847
%RSD	.0863359	.3109826	.4012887	.3760842	.0148289
#1	5915.330	99018.60	9567.606	4983.854	5714.016
#2	5920.680	98698.27	9610.169	4973.765	5715.049
#3	5925.549	98404.87	9533.515	4947.647	5713.369

Sample Name: Q2649-17A Acquired: 7/22/2025 17:26:53 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.9105457**	**1.949194**	**1.036605**	**1.688064**	**.7413937**	**88.56490**	**.4641216**
Stddev	.0027160	.080470	.004362	.003340	.0020111	.18913	.0015215
%RSD	.2982843	4.128394	.4207577	.1978329	.2712545	.2135471	.3278251
#1	.9131421	1.882718	1.031594	1.685706	.7391676	88.71748	.4647559
#2	.9077241	2.038656	1.039551	1.691886	.7430792	88.62391	.4652233
#3	.9107709	1.926208	1.038669	1.686602	.7419344	88.35330	.4623855

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1983293**	**.1934421**	**16.03775**	**.9643806**	**.2584628**	**.8426131**	**525.5521**
Stddev	.0015025	.0010934	.04008	.0033528	.0008667	.0029231	5.4598
%RSD	.7575770	.5652363	.2498838	.3476680	.3353371	.3469097	1.038874
#1	.1971610	.1921845	15.99352	.9672253	.2574985	.8397715	530.9618
#2	.2000242	.1941678	16.04809	.9606840	.2587131	.8456114	520.0435
#3	.1978027	.1939740	16.07164	.9652326	.2591768	.8424563	525.6510

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8772387**	**6.850722**	**.5866141**	**.0859876**	**3.553564**	**.9582465**	**.5419147**
Stddev	.0008231	.004910	.0013654	.0022159	.051855	.0038600	.0016690
%RSD	.0938273	.0716766	.2327599	2.577014	1.459245	.4028239	.3079822
#1	.8764743	6.850770	.5856408	.0882077	3.602224	.9626636	.5400321
#2	.8781100	6.855608	.5860266	.0837759	3.499016	.9555215	.5432129
#3	.8771318	6.845787	.5881749	.0859791	3.559452	.9565543	.5424990

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.77779**	**^ *****	**.4010240**	**.7462483**	**1.203440**	**3.758245**	**16.59364**
Stddev	.18054	-----	.0013996	.0014925	.004169	.034640	.06220
%RSD	.8290068	-----	.3490108	.1999997	.3464399	.9216960	.3748129
#1	21.96109	^ -----	.3997773	.7445555	1.205735	3.797293	16.53663
#2	21.60014	^ -----	.4007566	.7468148	1.205957	3.731214	16.58433
#3	21.77215	^ -----	.4025380	.7473746	1.198627	3.746229	16.65997

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-17A Acquired: 7/22/2025 17:26:53 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.3569994	.3920771	-.206421
Stddev	.0011902	.0056875	.005045
%RSD	.3333996	1.450612	2.444120
#1	.3573582	.3976308	-.211160
#2	.3579689	.3862646	-.201117
#3	.3556710	.3923359	-.206986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5952.580	96705.44	9362.037	4921.655	5899.445
Stddev	17.008	68.00	94.564	11.162	21.671
%RSD	.2857175	.0703155	1.010078	.2268016	.3673479
#1	5958.917	96670.07	9450.515	4931.227	5918.597
#2	5965.509	96783.83	9262.381	4909.394	5903.818
#3	5933.314	96662.42	9373.215	4924.345	5875.921

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-21 Acquired: 7/22/2025 17:30:58 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1376133**	**.0225749**	**.4053295**	**-.113441**	**-.036572**	**231.7921**	**.5763450**
Stddev	.0022012	.0009908	.0010494	.004032	.002925	1.5192	.0011975
%RSD	1.599577	4.388753	.2589028	3.553848	7.999023	.6554347	.2077713
#1	.1398182	.0228296	.4061405	-.117459	-.037550	233.2967	.5777245
#2	.1354158	.0234135	.4041443	-.109396	-.033282	230.2586	.5755734
#3	.1376060	.0214817	.4057036	-.113466	-.038882	231.8209	.5757371

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0331818**	**.0003901**	**15.92988**	**.3198765**	**.1505492**	**.8530879**	**796.0148**
Stddev	.0004738	.0004427	.06272	.0005126	.0003212	.0046031	6.1439
%RSD	1.427987	113.4887	.3937042	.1602566	.2133804	.5395858	.7718386
#1	.0326783	.0000575	15.86878	.3197465	.1509066	.8524004	795.5456
#2	.0336190	.0008925	15.92677	.3204417	.1504563	.8579961	790.1189
#3	.0332480	.0002202	15.99410	.3194415	.1502846	.8488672	802.3799

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.562654**	**28.99222**	**.1791627**	**^ *****	**6.827262**	**.6825870**	**.6335543**
Stddev	.009827	.06889	.0012686	-----	.031231	.0035892	.0022535
%RSD	.3834771	.2376095	.7080841	-----	.4574391	.5258200	.3556859
#1	2.551757	28.91323	.1778594	^ -----	6.860445	.6784866	.6336439
#2	2.565361	29.02360	.1792352	^ -----	6.798443	.6841158	.6357617
#3	2.570844	29.03983	.1803935	^ -----	6.822899	.6851588	.6312575

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.78200**	**^ *****	**-.002384**	**.0235720**	**3.975973**	**3.326743**	**6.416608**
Stddev	.12879	-----	.000491	.0017703	.005426	.036000	.025861
%RSD	.5912532	-----	20.58428	7.510266	.1364654	1.082146	.4030289
#1	21.86658	^ -----	-.001818	.0251375	3.981388	3.365116	6.399413
#2	21.63378	^ -----	-.002690	.0239277	3.975994	3.321402	6.404062
#3	21.84563	^ -----	-.002643	.0216509	3.970536	3.293712	6.446348

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2649-21 Acquired: 7/22/2025 17:30:58 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**2.194191**	**.4539783**	**-.592360**
Stddev	.009175	.0044079	.005702
%RSD	.4181657	.9709484	.9626015
#1	2.202407	.4576694	-.591986
#2	2.184290	.4490977	-.586855
#3	2.195877	.4551677	-.598240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6315.554**	**104028.3**	**10210.34**	**5292.026**	**5504.336**
Stddev	17.417	329.7	28.38	3.476	18.326
%RSD	.2757776	.3168977	.2779149	.0656831	.3329314
#1	6325.769	103849.9	10241.23	5288.233	5513.443
#2	6325.449	104408.7	10204.34	5295.060	5516.325
#3	6295.443	103826.3	10185.44	5292.783	5483.241

Sample Name: Q2658-01 Acquired: 7/22/2025 17:35:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0211499**	**-.000645**	**.0686893**	**-.023261**	**.0083614**	**107.3939**
Stddev	.0083354	.002464	.0038098	.002397	.0022480	.2205
%RSD	39.41110	382.2956	5.546440	10.30654	26.88580	.2053284
#1	.0300779	-.000355	.0694628	-.026018	.0057916	107.2157
#2	.0197996	.001662	.0645521	-.021662	.0093292	107.6405
#3	.0135720	-.003241	.0720530	-.022103	.0099635	107.3256

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5852738**	**.0040353**	**.0010320**	F **2269.512**	**.1525284**	**.0256294**
Stddev	.0014955	.0000916	.0000559	7.098	.0004350	.0002505
%RSD	.2555215	2.270743	5.419772	.3127746	.2851677	.9773070
#1	.5848785	.0039805	.0009754	2277.665	.1524240	.0255365
#2	.5840158	.0039844	.0010872	2266.166	.1530061	.0254387
#3	.5869273	.0041411	.0010333	2264.704	.1521552	.0259131

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1109578**	**59.59524**	**1.784789**	**475.7214**	**.0991257**	**.0004749**
Stddev	.0002929	.11960	.001608	1.6048	.0006963	.0007009
%RSD	.2640073	.2006923	.0900785	.3373442	.7023968	147.5983
#1	.1107425	59.55207	1.784663	474.2626	.0988406	.0004166
#2	.1112914	59.73044	1.783247	477.4404	.0999192	.0012032
#3	.1108396	59.50322	1.786455	475.4611	.0986171	-.000195

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.04546**	**.1487986**	**1.375127**	**56.81137**	**.2614610**	**.0079414**
Stddev	.02310	.0021437	.001673	.07715	.0006779	.0001875
%RSD	.1917887	1.440647	.1216598	.1358009	.2592941	2.360791
#1	12.02482	.1466738	1.374352	56.85604	.2620908	.0080327
#2	12.07042	.1487613	1.377047	56.85577	.2607434	.0077258
#3	12.04114	.1509606	1.373982	56.72228	.2615488	.0080657

Sample Name: Q2658-01 Acquired: 7/22/2025 17:35:15 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0141369	3.390944	8.880170	2.535428	F 99.40519	.5619572
Stddev	.0005158	.006923	.062436	.008547	.17945	.0031264
%RSD	3.648858	.2041490	.7030951	.3371139	.1805277	.5563459
#1	.0136099	3.385547	8.809082	2.544773	99.58870	.5654959
#2	.0141599	3.398749	8.926112	2.533505	99.39679	.5595689
#3	.0146408	3.388537	8.905316	2.528005	99.23008	.5608069

Elem	Sr4077
Units	ppm
Avg	7.954569
Stddev	.018015
%RSD	.2264765
#1	7.960909
#2	7.968557
#3	7.934241

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4693.865	79327.60	8295.997	3953.094	4486.655
Stddev	6.119	42.00	22.917	3.493	2.142
%RSD	.1303688	.0529420	.2762443	.0883692	.0477443
#1	4700.144	79366.81	8295.993	3954.313	4488.258
#2	4693.533	79283.28	8318.916	3949.155	4487.485
#3	4687.919	79332.72	8273.081	3955.815	4484.222

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2658-02 Acquired: 7/22/2025 17:39:37 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0258481**	**-.004070**	**1.063363**	**-.029355**	**.0095978**	**129.1466**
Stddev	.0010261	.001359	.002232	.005276	.0041649	.3348
%RSD	3.969829	33.37514	.2099354	17.97202	43.39445	.2592318
#1	.0248940	-.005300	1.062495	-.026688	.0098953	128.9511
#2	.0269336	-.004299	1.065899	-.035432	.0136059	129.5332
#3	.0257166	-.002612	1.061695	-.025945	.0052921	128.9555

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6707064**	**.0043523**	**.0004309**	**1949.883**	**.9228952**	**.0389284**
Stddev	.0011356	.0000538	.0001567	10.456	.0004104	.0006053
%RSD	.1693158	1.236717	36.35902	.5362283	.0444703	1.554837
#1	.6696601	.0043807	.0005958	1949.929	.9226064	.0396262
#2	.6719140	.0043860	.0002840	1960.315	.9233650	.0385459
#3	.6705450	.0042902	.0004130	1939.404	.9227141	.0386130

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3691461**	**114.1192**	**4.380244**	**100.0201**	**.2829638**	**.0133063**
Stddev	.0011618	.4291	.003937	.1127	.0009972	.0002136
%RSD	.3147306	.3760287	.0898731	.1126370	.3524071	1.605101
#1	.3696209	114.0981	4.376174	99.9790	.2829518	.0133350
#2	.3678220	114.5585	4.380527	100.1475	.2819727	.0135041
#3	.3699952	113.7010	4.384032	99.9338	.2839670	.0130798

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.799451**	**.5334539**	**2.578999**	**24.65460**	**.2574189**	**.0418925**
Stddev	.068716	.0015136	.001936	.14492	.0016718	.0007535
%RSD	.7809098	.2837346	.0750785	.5878139	.6494460	1.798686
#1	8.799865	.5350652	2.581152	24.65169	.2555410	.0412692
#2	8.867959	.5332346	2.578446	24.80097	.2579704	.0416784
#3	8.730529	.5320619	2.577400	24.51116	.2587452	.0427299

Sample Name: Q2658-02 Acquired: 7/22/2025 17:39:37 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0445043	4.909244	.8540855	5.048862	F 107.0003	.4064427
Stddev	.0006421	.011165	.0224648	.016340	.3974	.0107488
%RSD	1.442752	.2274217	2.630271	.3236306	.3713960	2.644611
#1	.0438971	4.903254	.8363721	5.062334	107.0309	.4024355
#2	.0451763	4.922126	.8793539	5.030687	106.5885	.3982731
#3	.0444394	4.902353	.8465306	5.053567	107.3815	.4186195

Elem	Sr4077
Units	ppm
Avg	11.85274
Stddev	.04022
%RSD	.3393541
#1	11.83175
#2	11.82735
#3	11.89911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4968.413	81485.95	8513.900	4097.504	4765.120
Stddev	8.020	155.87	36.022	2.156	4.596
%RSD	.1614176	.1912835	.4230940	.0526127	.0964486
#1	4969.943	81580.42	8540.406	4096.894	4761.584
#2	4975.558	81306.04	8528.408	4095.719	4770.315
#3	4959.738	81571.38	8472.887	4099.899	4763.462

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168951BL Acquired: 7/22/2025 17:43:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0017639**	**-.000430**	**.0014935**	**-.001388**	**.0002184**	**-.003885**	**.0007645**
Stddev	.0019732	.001148	.0012257	.001675	.0003054	.003418	.0011222
%RSD	111.8676	266.7651	82.07241	120.6510	139.8497	87.96696	146.7931
#1	-.000504	-.001599	.0027665	-.000713	-.000007	-.007580	.0020055
#2	.002709	-.000388	.0013928	-.000156	.000566	-.003237	.0004670
#3	.003087	.000696	.0003212	-.003295	.000096	-.000838	-.000179

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000225**	**-.000052**	**.0112965**	**-.000347**	**.0000552**	**.0000900**	**-.013323**
Stddev	.0000374	.000092	.0081552	.000635	.0000711	.0002990	.001123
%RSD	165.8316	174.8642	72.19204	182.7912	128.7647	332.3641	8.430598
#1	.0000271	.000033	.0031928	-.000556	.0001356	.0000977	-.012279
#2	-.000017	-.000041	.0195021	-.000852	.0000007	.0003850	-.014512
#3	.000057	-.000149	.0111945	.000366	.0000293	-.000213	-.013179

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001886**	**.0160487**	**-.000039**	**.0007043**	**.1858532**	**-.001159**	**.0001654**
Stddev	.0003858	.0249436	.000203	.0005775	.0116992	.002004	.0001730
%RSD	204.6114	155.4250	524.2996	81.99310	6.294864	172.9243	104.6165
#1	.0002172	-.003996	.000184	.0013023	.1979623	-.003464	.0000378
#2	-.000211	.043983	-.000086	.0001498	.1849850	.000165	.0000961
#3	.000559	.008158	-.000213	.0006609	.1746123	-.000177	.0003624

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1043600**	**-.000867**	**-.000148**	**-.000771**	**.0075183**	**.0030744**	**-.000240**
Stddev	.0169914	.000439	.000284	.000525	.0026465	.0070238	.001258
%RSD	16.28154	50.56659	192.0420	68.12011	35.20098	228.4602	524.0706
#1	.0955529	-.000381	-.000425	-.001062	.0077122	.0055588	.001085
#2	.0935801	-.001233	.000142	-.001085	.0047801	-.004854	-.001417
#3	.1239469	-.000989	-.000160	-.000165	.0100625	.008518	-.000387

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: PB168951BL Acquired: 7/22/2025 17:43:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0055294	-.009320	.0000597
Stddev	.0021916	.001794	.0000985
%RSD	39.63653	19.25167	164.9573
#1	.0062659	-.011013	.0000631
#2	.0072579	-.007439	-.000040
#3	.0030643	-.009508	.000156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5572.429	91467.82	8267.382	4640.055	6601.517
Stddev	4.003	318.03	16.738	7.392	6.874
%RSD	.0718432	.3476988	.2024640	.1593168	.1041272
#1	5572.223	91834.14	8280.998	4638.792	6598.818
#2	5576.532	91307.09	8248.694	4633.376	6609.331
#3	5568.533	91262.24	8272.455	4647.998	6596.403

Sample Name: PB168951BS Acquired: 7/22/2025 17:48:18 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8062529**	**1.961925**	**.9917140**	**2.043156**	**.8583748**	**2.136357**
Stddev	.0022047	.086062	.0028412	.002580	.0026784	.003644
%RSD	.2734514	4.386631	.2864975	.1262912	.3120350	.1705562
#1	.8086885	1.863381	.9884378	2.045292	.8587301	2.140463
#2	.8056770	2.000084	.9932012	2.040289	.8555365	2.133509
#3	.8043934	2.022311	.9935030	2.043888	.8608579	2.135100

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2196607**	**.2213841**	**.1965116**	**1.128147**	**.4224494**	**.2075623**
Stddev	.0005293	.0004966	.0005773	.004622	.0017161	.0005542
%RSD	.2409421	.2243369	.2937558	.4097343	.4062259	.2669993
#1	.2200562	.2215780	.1960346	1.132271	.4244214	.2070388
#2	.2198664	.2217545	.1963468	1.129019	.4212947	.2075053
#3	.2190594	.2208198	.1971533	1.123151	.4216322	.2081427

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3274372**	**3.188634**	**.2239426**	**2.157054**	**.5246751**	**.0812549**
Stddev	.0007555	.013781	.0009889	.013585	.0010448	.0003154
%RSD	.2307259	.4321792	.4416005	.6297813	.1991264	.3881523
#1	.3280662	3.204298	.2250497	2.146816	.5241204	.0812563
#2	.3265992	3.183227	.2231466	2.172465	.5240246	.0809388
#3	.3276461	3.178377	.2236317	2.151882	.5258802	.0815696

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.969580**	**.3164675**	**.2245879**	**10.21033**	**.3322969**	**.4325421**
Stddev	.011773	.0049600	.0005145	.02741	.0005991	.0011077
%RSD	.3964692	1.567286	.2290746	.2684090	.1802915	.2560962
#1	2.977654	.3221301	.2244763	10.24178	.3316991	.4312725
#2	2.975014	.3128932	.2251490	10.19158	.3322944	.4330423
#3	2.956071	.3143792	.2241384	10.19763	.3328973	.4333116

Sample Name: PB168951BS Acquired: 7/22/2025 17:48:18 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7218382**	**.2141015**	**.8622505**	**5.981384**	F **.0012340**	**.1914215**
Stddev	.0024758	.0013719	.0078359	.023903	.0007800	.0024421
%RSD	.3429837	.6407910	.9087683	.3996279	63.20822	1.275762
#1	.7206138	.2141500	.8681674	5.960342	.0006101	.1931993
#2	.7202133	.2127060	.8652202	5.976436	.0021085	.1886370
#3	.7246876	.2154486	.8533638	6.007374	.0009834	.1924283

Elem	Sr4077
Units	ppm
Avg	**.2167998**
Stddev	.0001661
%RSD	.0765992
#1	.2169439
#2	.2168372
#3	.2166182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5551.280**	**88974.56**	**8145.652**	**4577.144**	**6488.071**
Stddev	5.434	569.63	33.018	20.738	9.284
%RSD	.0978885	.6402180	.4053461	.4530692	.1430910
#1	5548.359	88351.52	8108.400	4553.381	6497.259
#2	5557.550	89103.48	8157.248	4586.469	6488.261
#3	5547.932	89468.68	8171.308	4591.583	6478.694

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-01 Acquired: 7/22/2025 17:52:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.2040630**	**-.008193**	**.5732076**	**-.050464**	**-.014679**	**243.0092**
Stddev	.0012396	.001710	.0024881	.003444	.001766	1.9052
%RSD	.6074477	20.87349	.4340637	6.823969	12.02850	.7839961
#1	.2051753	-.006627	.5729007	-.046644	-.015650	242.0394
#2	.2042869	-.010018	.5708872	-.051420	-.012641	241.7840
#3	.2027267	-.007933	.5758349	-.053329	-.015746	245.2041

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.712431**	**.0132411**	**.0149442**	**54.64247**	**.5237049**	**.2727699**
Stddev	.006182	.0001674	.0001780	.33599	.0009156	.0005657
%RSD	.3609876	1.264212	1.191270	.6148819	.1748221	.2073791
#1	1.705391	.0132012	.0147420	54.43562	.5226768	.2724575
#2	1.714928	.0130973	.0150134	54.46165	.5244321	.2724294
#3	1.716973	.0134249	.0150773	55.03014	.5240060	.2734229

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.430770**	**441.8089**	**7.026810**	**112.1180**	**.4782907**	**.0144874**
Stddev	.003693	.7282	.015042	.2699	.0012579	.0005001
%RSD	.2581192	.1648297	.2140680	.2407071	.2629956	3.451848
#1	1.427758	441.7100	7.017953	112.2389	.4772901	.0147204
#2	1.429663	442.5816	7.018298	111.8088	.4778793	.0148284
#3	1.434890	441.1352	7.044178	112.3063	.4797028	.0139133

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.257173**	**.7195885**	**1.722747**	**84.15636**	**^ *****	**.0189165**
Stddev	.015217	.0060160	.004106	.20607	-----	.0006293
%RSD	.6741605	.8360315	.2383561	.2448661	-----	3.326882
#1	2.264794	.7194347	1.722412	84.04228	.0428095	.0181999
#2	2.267075	.7256800	1.727011	84.39424	.0430590	.0191700
#3	2.239652	.7136510	1.718819	84.03255	^ -----	.0193795

Sample Name: Q2639-01 Acquired: 7/22/2025 17:52:19 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0584562	18.46722	2.639753	F 19.40362	10.73250	.6627325
Stddev	.0009961	.00466	.017506	.10315	.05784	.0007453
%RSD	1.704056	.0252350	.6631520	.5315773	.5389242	.1124559
#1	.0580060	18.46544	2.651673	19.28606	10.66580	.6619830
#2	.0595979	18.47251	2.647930	19.47895	10.76882	.6634735
#3	.0577646	18.46372	2.619655	19.44584	10.76288	.6627410

Elem	Sr4077
Units	ppm
Avg	-.197455
Stddev	.001300
%RSD	.6585946
#1	-.198153
#2	-.198257
#3	-.195955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6411.252	107384.6	10799.75	5381.084	5319.146
Stddev	2.795	68.0	57.00	16.518	7.511
%RSD	.0436016	.0632991	.5278226	.3069681	.1412076
#1	6414.479	107306.2	10803.40	5362.064	5327.736
#2	6409.691	107427.0	10854.85	5389.359	5315.887
#3	6409.586	107420.6	10741.01	5391.829	5313.815

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-03 Acquired: 7/22/2025 17:56:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2033092	-.007435	.5760090	-.053234	-.014419	238.9129
Stddev	.0002951	.006001	.0012808	.005733	.002516	2.1875
%RSD	.1451491	80.71540	.2223647	10.76910	17.44954	.9156091
#1	.2029730	-.011980	.5768373	-.053326	-.017003	236.6940
#2	.2034292	-.009693	.5745337	-.058920	-.011977	241.0676
#3	.2035254	-.000632	.5766561	-.047455	-.014277	238.9770

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.679809	.0134711	.0147333	54.27185	.5216306	.2791393
Stddev	.002216	.0000444	.0004677	.14221	.0020534	.0006577
%RSD	.1319255	.3296363	3.174615	.2620362	.3936587	.2356140
#1	1.677251	.0134206	.0151040	54.14425	.5237556	.2784366
#2	1.681114	.0134887	.0148882	54.42517	.5214790	.2792410
#3	1.681063	.0135040	.0142078	54.24612	.5196571	.2797401

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.509752	434.4916	7.212081	107.2281	.4689262	.0105980
Stddev	.002381	1.6114	.005747	.2208	.0006509	.0016502
%RSD	.1577380	.3708616	.0796837	.2058792	.1388005	15.57092
#1	1.511239	432.6786	7.212101	107.4396	.4686513	.0087357
#2	1.507006	435.7605	7.217818	106.9991	.4684579	.0118786
#3	1.511012	435.0356	7.206325	107.2456	.4696694	.0111798

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.148000	.6790607	1.668415	79.98736	^ *****	.0145709
Stddev	.007789	.0017668	.002689	.26291	-----	.0010198
%RSD	.3625929	.2601889	.1611723	.3286947	-----	6.998590
#1	2.141312	.6771604	1.671483	79.72512	^ -----	.0133950
#2	2.156551	.6806538	1.666464	80.25094	^ -----	.0152134
#3	2.146138	.6793680	1.667299	79.98603	^ -----	.0151042

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-03 Acquired: 7/22/2025 17:56:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0716020	18.47640	3.764570	F 18.60154	10.50641	.6542545
Stddev	.0005989	.01085	.004937	.08105	.09237	.0010392
%RSD	.8364009	.0587386	.1311426	.4357318	.8791816	.1588354
#1	.0711087	18.47480	3.765598	18.63069	10.55321	.6554354
#2	.0714290	18.46644	3.759200	18.66399	10.56601	.6534796
#3	.0722683	18.48797	3.768913	18.50995	10.40000	.6538486

Elem	Sr4077
Units	ppm
Avg	-.185902
Stddev	.000825
%RSD	.4439458
#1	-.184958
#2	-.186486
#3	-.186262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6552.507	108206.5	10613.74	5446.927	5483.896
Stddev	7.618	188.6	14.41	5.550	3.532
%RSD	.1162558	.1742522	.1357768	.1018893	.0644124
#1	6544.171	108253.2	10621.78	5449.628	5480.681
#2	6559.107	107999.0	10597.10	5440.544	5487.677
#3	6554.242	108367.3	10622.33	5450.609	5483.329

Sample Name: Q2639-05 Acquired: 7/22/2025 18:00:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1950628**	**-.008524**	**.5377690**	**-.047401**	**-.013253**	**232.8207**
Stddev	.0015243	.003075	.0009691	.001353	.000524	1.2710
%RSD	.7814483	36.07378	.1801995	2.855149	3.955496	.5459278
#1	.1964881	-.011176	.5374622	-.048878	-.013671	234.2862
#2	.1952446	-.009242	.5369904	-.047103	-.013422	232.0192
#3	.1934558	-.005154	.5388543	-.046221	-.012665	232.1566

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.619007**	**.0125272**	**.0134758**	**54.73005**	**.4807749**	**.2579271**
Stddev	.001510	.0001433	.0005847	.17439	.0016451	.0005180
%RSD	.0932977	1.143733	4.339138	.3186397	.3421752	.2008388
#1	1.620729	.0125522	.0139735	54.57934	.4819971	.2575375
#2	1.618387	.0123730	.0128318	54.92106	.4789044	.2577289
#3	1.617905	.0126563	.0136221	54.68974	.4814231	.2585150

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.366157**	**426.7208**	**6.907414**	**105.0635**	**.4549962**	**.0139325**
Stddev	.001848	4.0193	.008411	.1885	.0013768	.0008287
%RSD	.1352341	.9418929	.1217679	.1793826	.3026031	5.948371
#1	1.366461	423.1485	6.899000	105.1543	.4539179	.0131722
#2	1.364176	431.0728	6.907419	104.8468	.4545237	.0148159
#3	1.367833	425.9412	6.915822	105.1893	.4565471	.0138093

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.086866**	**.6618073**	**1.636243**	**78.63426**	**.0278349**	**.0140137**
Stddev	.008041	.0072459	.004361	.16413	.0115874	.0001008
%RSD	.3853151	1.094861	.2665526	.2087253	41.62890	.7195263
#1	2.085338	.6700041	1.641259	78.78821	.0232036	.0141137
#2	2.079699	.6562558	1.634131	78.65300	.0410216	.0140155
#3	2.095562	.6591620	1.633341	78.46156	.0192795	.0139121

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-05 Acquired: 7/22/2025 18:00:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0548762	17.78695	2.355609	F 18.28659	10.04814	.6294072
Stddev	.0008698	.01942	.009155	.02847	.02172	.0009420
%RSD	1.585072	.1091809	.3886614	.1557073	.2161797	.1496671
#1	.0547067	17.80184	2.365467	18.26811	10.05434	.6295733
#2	.0541036	17.76498	2.353987	18.27228	10.06609	.6302551
#3	.0558183	17.79402	2.347374	18.31938	10.02399	.6283932

Elem	Sr4077
Units	ppm
Avg	-.187122
Stddev	.003850
%RSD	2.057475
#1	-.183416
#2	-.191101
#3	-.186847

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6515.092	107719.0	10817.76	5417.136	5484.190
Stddev	14.848	122.2	22.26	9.972	3.660
%RSD	.2278967	.1134822	.2057692	.1840838	.0667423
#1	6526.073	107843.0	10842.90	5406.928	5488.093
#2	6498.199	107715.4	10800.56	5426.854	5483.644
#3	6521.004	107598.6	10809.81	5417.626	5480.834

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV06 Acquired: 7/22/2025 18:05:14 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.171335**	**4.642905**	**5.119290**	**5.171666**	**5.236715**	**10.49250**	**10.69883**
Stddev	.006691	.110812	.010696	.010014	.007862	.00967	.04150
%RSD	.1293843	2.386702	.2089421	.1936340	.1501297	.0921910	.3879040
#1	5.178304	4.739695	5.124692	5.177524	5.232316	10.48601	10.74655
#2	5.164962	4.666990	5.106970	5.160103	5.232037	10.48787	10.67117
#3	5.170738	4.522031	5.126209	5.177371	5.245792	10.50362	10.67878

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2644620**	**2.557238**	**27.11052**	**1.039623**	**2.574855**	**1.302377**	**5.390109**
Stddev	.0007820	.006612	.05288	.000309	.003838	.002065	.019090
%RSD	.2957103	.2585726	.1950710	.0297021	.1490714	.1585565	.3541743
#1	.2653103	2.563176	27.11740	1.039923	2.578349	1.302227	5.368104
#2	.2637698	2.550112	27.15964	1.039306	2.570747	1.300392	5.399993
#3	.2643060	2.558427	27.05454	1.039639	2.575469	1.304513	5.402232

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.698721**	**26.37457**	**2.589686**	**1.332935**	**24.60134**	**2.633004**	**2.692274**
Stddev	.009671	.12388	.004884	.002563	.06871	.008198	.005108
%RSD	.3583614	.4696901	.1885817	.1923181	.2792764	.3113456	.1897311
#1	2.689018	26.23699	2.592869	1.330094	24.54156	2.623894	2.687738
#2	2.708360	26.40949	2.584063	1.335075	24.58606	2.639787	2.697807
#3	2.698784	26.47725	2.592125	1.333635	24.67640	2.635329	2.691278

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.31396**	**5.357014**	**5.255795**	**5.145756**	**5.204765**	**5.183157**	**5.144631**
Stddev	.04689	.008663	.004786	.020326	.006325	.029809	.006436
%RSD	.1781974	.1617159	.0910543	.3950023	.1215263	.5751120	.1250987
#1	26.26325	5.366980	5.256633	5.162597	5.197987	5.149426	5.140347
#2	26.35575	5.352778	5.250646	5.123179	5.205798	5.194084	5.141515
#3	26.32287	5.351284	5.260107	5.151493	5.210510	5.205961	5.152032

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV06 Acquired: 7/22/2025 18:05:14 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.022741**	**5.040103**	**5.437676**
Stddev	.018619	.002127	.038858
%RSD	.3706993	.0422109	.7146066
#1	5.044158	5.038141	5.392857
#2	5.010401	5.039803	5.458254
#3	5.013664	5.042364	5.461917

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5426.393**	**85827.69**	**8209.636**	**4416.874**	**6052.573**
Stddev	4.374	285.90	13.133	16.870	14.898
%RSD	.0806134	.3331147	.1599712	.3819536	.2461450
#1	5424.063	86143.62	8214.843	4432.334	6040.443
#2	5431.439	85586.77	8194.698	4398.880	6069.202
#3	5423.676	85752.66	8219.368	4419.407	6048.075

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB06 Acquired: 7/22/2025 18:09:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0014622**	**.0000396**	**.0004754**	**.0009098**	**-.000888**	**-.007377**	**-.000001**
Stddev	.0020205	.0013522	.0005780	.0033372	.001466	.007468	.001324
%RSD	138.1863	3414.769	121.5975	366.8080	165.0537	101.2330	247668.6
#1	-.000681	-.001207	.0003958	.0016858	-.002234	-.015957	-.000222
#2	.001736	.001477	.0010891	-.002747	-.001103	-.002343	-.001200
#3	.003332	-.000151	-.000059	.003791	.000673	-.003831	.001421

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**.0000565**	**-.019842**	**-.000381**	**.0000450**	**.0003520**	**-.010401**
Stddev	.000038	.0000706	.007969	.000241	.0000808	.0002506	.003662
%RSD	86.06101	125.0593	40.16100	63.42806	179.5435	71.18120	35.20885
#1	-.000000	.0000876	-.024897	-.000577	-.000038	.0003298	-.013263
#2	-.000064	.0001062	-.010656	-.000453	.000124	.0006129	-.011667
#3	-.000067	-.000024	-.023973	-.000111	.000049	.0001133	-.006274

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000410**	**.0091647**	**-.000050**	**.0005770**	**.0176847**	**-.001922**	**.0005997**
Stddev	.000328	.0097268	.000206	.0002701	.0147719	.003348	.0001050
%RSD	79.85080	106.1333	408.0411	46.81221	83.52917	174.1954	17.50987
#1	-.000652	.0188808	-.000286	.0008196	.0012645	.001920	.0007193
#2	-.000541	.0091859	.000094	.0002859	.0218959	-.004211	.0005568
#3	-.000037	-.000573	.000041	.0006255	.0298937	-.003475	.0005228

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1771615**	**.0031072**	**.0009579**	**-.000864**	**.0078699**	**.0035141**	**.0007319**
Stddev	.0076604	.0004534	.0003716	.000012	.0027045	.0138351	.0015940
%RSD	4.323968	14.59358	38.78882	1.401559	34.36476	393.6989	217.7774
#1	.1859364	.0025883	.0013864	-.000860	.0073929	-.005973	.0010923
#2	.1737397	.0034275	.0007620	-.000855	.0054357	.019389	-.001011
#3	.1718084	.0033057	.0007253	-.000878	.0107811	-.002874	.002115

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB06 Acquired: 7/22/2025 18:09:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	-.006027	-.009611	-.000017
Stddev	.000531	.000946	.000042
%RSD	8.817873	9.839776	245.2620
#1	-.005956	-.010432	.000014
#2	-.006591	-.008577	-.000000
#3	-.005535	-.009823	-.000064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5576.284	91939.84	8305.713	4662.509	6584.306
Stddev	13.635	132.04	13.807	4.162	5.835
%RSD	.2445213	.1436198	.1662402	.0892588	.0886131
#1	5590.455	92085.62	8300.138	4664.425	6590.483
#2	5575.140	91905.65	8295.564	4657.735	6583.548
#3	5563.256	91828.26	8321.436	4665.368	6578.888

Sample Name: Q2639-07 Acquired: 7/22/2025 18:13:46 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.1845424**	**-.006565**	**.4884788**	**-.043360**	**-.013724**	**217.0098**	**1.553015**
Stddev	.0024367	.005171	.0022671	.003395	.001841	2.9286	.001083
%RSD	1.320397	78.76851	.4641044	7.828603	13.41445	1.349528	.0697129
#1	.1873480	-.007342	.4896468	-.041109	-.012863	215.4155	1.553125
#2	.1829560	-.001049	.4899237	-.047265	-.015838	215.2242	1.551881
#3	.1833230	-.011303	.4858659	-.041707	-.012472	220.3896	1.554038

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117179**	**.0105292**	**53.79250**	**.4639202**	**.2396501**	**1.299358**	**396.8665**
Stddev	.0001654	.0001253	.16429	.0012220	.0006768	.002307	1.6146
%RSD	1.411263	1.189580	.3054160	.2634040	.2824100	.1775489	.4068328
#1	.0118743	.0105792	53.86807	.4651897	.2403247	1.298712	397.7449
#2	.0115448	.0103867	53.60402	.4638188	.2389711	1.297443	397.8515
#3	.0117346	.0106218	53.90540	.4627521	.2396543	1.301919	395.0032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.518448**	**98.29693**	**.4177878**	**.0132543**	**1.894442**	**.6135563**	**1.534134**
Stddev	.012205	.17538	.0004119	.0006182	.015295	.0022354	.002557
%RSD	.1872352	.1784204	.0985880	4.664082	.8073552	.3643269	.1667058
#1	6.506599	98.15873	.4181160	.0133680	1.902705	.6153078	1.535038
#2	6.517766	98.23782	.4179218	.0138077	1.903828	.6110386	1.536116
#3	6.530980	98.49422	.4173256	.0125871	1.876793	.6143224	1.531247

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**73.02683**	**.0373468**	**.0134557**	**.0518873**	**16.60981**	**1.950062**	**16.59504**
Stddev	.32299	.0129347	.0002738	.0004568	.04338	.019804	.09667
%RSD	.4422893	34.63403	2.035027	.8803967	.2611865	1.015559	.5824966
#1	73.19068	.0443890	.0137620	.0523899	16.56484	1.969368	16.67770
#2	73.23506	.0452324	.0132345	.0517748	16.65141	1.951023	16.48875
#3	72.65475	.0224190	.0133706	.0514973	16.61318	1.929795	16.61868

Sample Name: Q2639-07 Acquired: 7/22/2025 18:13:46 Type: Unk
Method: 6010-200.7 NEW(v53) 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	11.43578	.5919313	-.165576
Stddev	.07210	.0021922	.001783
%RSD	.6305179	.3703409	1.076778
#1	11.48516	.5896785	-.166215
#2	11.35303	.5940574	-.166952
#3	11.46914	.5920581	-.163562

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6372.655	105515.9	10414.37	5293.086	5510.515
Stddev	3.104	46.5	51.30	5.103	4.821
%RSD	.0487107	.0440565	.4925874	.0964074	.0874899
#1	6369.097	105476.9	10437.60	5293.347	5504.995
#2	6374.058	105503.5	10449.95	5287.858	5513.902
#3	6374.810	105567.4	10355.56	5298.053	5512.648

Sample Name: Q2639-09 Acquired: 7/22/2025 18:17:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0009971**	**-.002034**	**.0005153**	**-.007628**	**-.003971**	**-.003912**	**-.018586**
Stddev	.0003766	.000326	.0001957	.000709	.000330	.004177	.000296
%RSD	37.76673	16.01604	37.97955	9.289835	8.318736	106.7889	1.590225
#1	.0012800	-.001673	.0005277	-.008430	-.004328	-.008074	-.018262
#2	.0005697	-.002307	.0007045	-.007089	-.003677	-.003941	-.018841
#3	.0011417	-.002123	.0003137	-.007364	-.003907	.000280	-.018655

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000141**	**.0002492**	**-.042328**	**-.001034**	**-.000020**	**-.000586**	**-.011980**
Stddev	.000011	.0000304	.000623	.000022	.000050	.000051	.001358
%RSD	7.752041	12.20697	1.471114	2.087810	246.7468	8.739106	11.33893
#1	-.000136	.0002156	-.043026	-.001057	-.000073	-.000645	-.010826
#2	-.000153	.0002750	-.042130	-.001031	.000026	-.000552	-.013477
#3	-.000133	.0002569	-.041829	-.001014	-.000014	-.000561	-.011636

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000451**	**-.000210**	**.0004136**	**.0000964**	**-.514213**	**.0003959**	**-.000704**
Stddev	.000057	.001942	.0000486	.0001779	.003083	.0010872	.000296
%RSD	12.58819	924.7015	11.73711	184.5080	.5995533	274.6073	42.05805
#1	-.000460	-.001202	.0004177	.0002708	-.511609	.0016511	-.000367
#2	-.000391	-.001455	.0003632	-.000085	-.513413	-.000212	-.000920
#3	-.000503	.002027	.0004600	.000103	-.517618	-.000251	-.000827

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.080281**	**-.002481**	**-.000575**	**-.003467**	**.0067514**	**-.031769**	**-.017377**
Stddev	.007738	.000318	.000045	.000127	.0006264	.004073	.000243
%RSD	9.638110	12.81930	7.877730	3.651144	9.278274	12.82206	1.398268
#1	-.085698	-.002169	-.000524	-.003583	.0060303	-.028340	-.017099
#2	-.071420	-.002805	-.000611	-.003332	.0071615	-.036271	-.017549
#3	-.083727	-.002468	-.000589	-.003486	.0070623	-.030696	-.017482

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-09 Acquired: 7/22/2025 18:17:57 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**-.014021**	**-.012201**	**-.000155**
Stddev	.000373	.000412	.000015
%RSD	2.660934	3.377390	9.393703
#1	-.014312	-.011752	-.000150
#2	-.013600	-.012288	-.000172
#3	-.014152	-.012562	-.000144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**25004.36**	**372382.4**	**26010.33**	**20962.19**	**28854.77**
Stddev	155.04	3499.7	286.13	65.70	166.29
%RSD	.6200355	.9398062	1.100065	.3134190	.5763071
#1	25183.17	375108.0	25868.48	21029.69	29046.78
#2	24922.41	368435.8	25822.83	20958.43	28757.35
#3	24907.50	373603.5	26339.67	20898.45	28760.17

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-11 Acquired: 7/22/2025 18:22:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.2812096**	**.0014212**	**.4119258**	**-.030593**	**-.010443**	**183.9034**	**1.413564**
Stddev	.0051217	.0041733	.0020422	.003495	.000494	.0945	.000893
%RSD	1.821291	293.6374	.4957813	11.42474	4.730320	.0513840	.0631476
#1	.2792636	-.002000	.4102955	-.034628	-.010981	183.9763	1.412629
#2	.2773462	.000192	.4142166	-.028615	-.010010	183.9374	1.413655
#3	.2870190	.006071	.4112655	-.028535	-.010338	183.7967	1.414407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097766**	**.0086395**	**107.0172**	**.2803589**	**.1759991**	**.8051096**	**298.6868**
Stddev	.0001807	.0000937	.5617	.0010353	.0007532	.0030066	1.3980
%RSD	1.848068	1.084600	.5248336	.3692914	.4279747	.3734398	.4680428
#1	.0099838	.0087475	107.2980	.2814248	.1759168	.8064228	297.0744
#2	.0096939	.0085897	106.3705	.2802947	.1752904	.8016697	299.4244
#3	.0096521	.0085812	107.3831	.2793571	.1767901	.8072362	299.5614

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.260566**	**73.90823**	**.3184792**	**.0126176**	**3.840053**	**.4365325**	**1.198240**
Stddev	.012051	.04102	.0013750	.0007369	.032835	.0014002	.003401
%RSD	.1924876	.0555036	.4317409	5.840281	.8550748	.3207633	.2837945
#1	6.265581	73.95424	.3194820	.0117778	3.815927	.4349622	1.195682
#2	6.246817	73.87546	.3169118	.0129192	3.877446	.4369841	1.196939
#3	6.269299	73.89501	.3190439	.0131560	3.826787	.4376512	1.202099

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**61.77658**	**.1514082**	**.0150969**	**.0244740**	**11.34793**	**2.136595**	**15.91668**
Stddev	.36609	.0111138	.0003905	.0006555	.00553	.020639	.04878
%RSD	.5925971	7.340271	2.586773	2.678293	.0486978	.9659637	.3064663
#1	61.35423	.1386391	.0146763	.0244793	11.35431	2.130735	15.96763
#2	62.00317	.1566840	.0154480	.0238158	11.34479	2.159530	15.87041
#3	61.97233	.1589014	.0151665	.0251267	11.34469	2.119520	15.91200

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-11 Acquired: 7/22/2025 18:22:25 Type: Unk
Method: 6010-200.7 NEW(v53) 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	13.57438	.4092294	.1540718
Stddev	.06441	.0010825	.0014291
%RSD	.4744804	.2645193	.9275539
#1	13.59572	.4079910	.1557188
#2	13.50201	.4097018	.1531602
#3	13.62541	.4099954	.1533363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6364.136	105111.4	10654.54	5289.673	5606.917
Stddev	22.521	255.7	88.46	8.188	15.088
%RSD	.3538663	.2432513	.8302335	.1547924	.2690964
#1	6366.485	104896.7	10552.48	5297.185	5598.917
#2	6385.390	105043.1	10708.96	5290.889	5624.320
#3	6340.533	105394.3	10702.19	5280.945	5597.514

Sample Name: Q2639-13 Acquired: 7/22/2025 18:26:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.2668965**	**-.001153**	**.3774574**	**-.029569**	**-.009832**	**174.3759**	**1.347525**
Stddev	.0020347	.004532	.0010338	.001560	.002173	.5023	.001628
%RSD	.7623614	393.2170	.2738880	5.274427	22.09845	.2880733	.1208289
#1	.2688800	.001916	.3785272	-.031060	-.007363	173.7982	1.346466
#2	.2669954	-.006358	.3773813	-.029699	-.010679	174.6195	1.349400
#3	.2648142	.000984	.3764638	-.027949	-.011452	174.7100	1.346710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093774**	**.0087998**	**110.6298**	**.2586466**	**.1644335**	**.7944519**	**277.8276**
Stddev	.0000461	.0001377	.3387	.0005444	.0000767	.0019546	.5345
%RSD	.4910230	1.564955	.3061684	.2104720	.0466312	.2460282	.1923757
#1	.0093832	.0089192	110.2843	.2580803	.1645188	.7950060	277.4278
#2	.0093288	.0086491	110.6438	.2586933	.1643704	.7922801	278.4347
#3	.0094203	.0088309	110.9612	.2591661	.1644113	.7960697	277.6203

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.267612**	**69.50259**	**.3039190**	**.0090423**	**4.046928**	**.4297234**	**1.214359**
Stddev	.019402	.34687	.0009682	.0004379	.021187	.0030047	.002190
%RSD	.3095526	.4990752	.3185779	4.842754	.5235429	.6992193	.1803041
#1	6.248184	69.16745	.3030340	.0085450	4.059902	.4262681	1.212914
#2	6.267664	69.48022	.3037700	.0093703	4.058404	.4311795	1.216878
#3	6.286987	69.86010	.3049531	.0092117	4.022478	.4317226	1.213285

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.75091**	**.1153727**	**.0150281**	**.0234277**	**11.12171**	**2.069486**	**15.32171**
Stddev	.28667	.0051969	.0002232	.0006653	.03523	.013712	.05005
%RSD	.4797764	4.504423	1.485435	2.839673	.3167929	.6625870	.3266818
#1	59.72969	.1182449	.0151930	.0227245	11.08106	2.056859	15.37142
#2	60.04761	.1184995	.0151172	.0240471	11.14050	2.067527	15.27132
#3	59.47544	.1093736	.0147741	.0235115	11.14356	2.084072	15.32238

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2639-13 Acquired: 7/22/2025 18:26:27 Type: Unk
Method: 6010-200.7 NEW(v53) 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	15.08031	.3903650	.1807445
Stddev	.02622	.0022987	.0004643
%RSD	.1738708	.5888644	.2568765
#1	15.11053	.3894818	.1803618
#2	15.06359	.3929744	.1812610
#3	15.06680	.3886389	.1806107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6317.183	106443.4	10468.32	5308.985	5639.761
Stddev	14.024	22.2	42.83	5.244	9.204
%RSD	.2219956	.0208305	.4091736	.0987734	.1631938
#1	6319.973	106420.1	10491.87	5302.964	5639.880
#2	6329.603	106445.7	10494.22	5311.446	5648.904
#3	6301.974	106464.3	10418.88	5312.547	5630.498

Sample Name: Q2651-01 Acquired: 7/22/2025 18:30:30 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0675546	.0050548	.0754007	-.019180	-.009496	64.91688	.2936405
Stddev	.0014123	.0020236	.0002616	.003388	.002239	.04153	.0010214
%RSD	2.090533	40.03246	.3469440	17.66634	23.57783	.0639733	.3478307
#1	.0678336	.0034740	.0751550	-.021808	-.007191	64.89430	.2934075
#2	.0688064	.0043550	.0753713	-.015356	-.011663	64.96480	.2927557
#3	.0660236	.0073354	.0756757	-.020376	-.009633	64.89153	.2947582

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066472	-.002243	17.44384	.1988620	.0629634	.2440637	180.1549
Stddev	.0001888	.000058	.06218	.0009710	.0002932	.0008349	.5183
%RSD	2.840794	2.593510	.3564308	.4882702	.4656362	.3420704	.2877084
#1	.0064292	-.002215	17.37692	.1979827	.0630948	.2436582	179.6020
#2	.0067581	-.002310	17.45477	.1986993	.0631678	.2450239	180.6298
#3	.0067544	-.002205	17.49982	.1999041	.0626275	.2435091	180.2329

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.334305	18.74337	.0924042	.0062726	1.570176	.2528623	.3035938
Stddev	.001861	.01753	.0003296	.0008594	.008448	.0061547	.0009245
%RSD	.1394654	.0935155	.3566770	13.70026	.5380181	2.434001	.3045320
#1	1.332608	18.75359	.0920715	.0052915	1.566476	.2591078	.3046472
#2	1.336295	18.75339	.0927306	.0066342	1.579843	.2468027	.3029171
#3	1.334012	18.72313	.0924104	.0068921	1.564210	.2526764	.3032171

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.110290	.0059504	.0038205	.0091836	.9022224	1.496561	3.702370
Stddev	.020342	.0058429	.0002627	.0005354	.0023414	.008204	.006264
%RSD	.3980682	98.19374	6.877256	5.829571	.2595147	.5481744	.1691789
#1	5.098752	-.000718	.0035570	.0086321	.9009272	1.487398	3.698264
#2	5.133778	.010174	.0038220	.0097012	.9049252	1.499062	3.699266
#3	5.098339	.008396	.0040825	.0092175	.9008147	1.503223	3.709579

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01 Acquired: 7/22/2025 18:30:30 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2775501	.1191334	-.147125
Stddev	.0050363	.0024934	.000552
%RSD	1.814568	2.092930	.3753953
#1	.2748131	.1182069	-.146543
#2	.2744749	.1172360	-.147642
#3	.2833623	.1219574	-.147189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5945.261	97750.06	9339.712	4976.425	6249.655
Stddev	8.941	286.42	15.133	25.723	4.663
%RSD	.1503967	.2930165	.1620323	.5168961	.0746052
#1	5943.384	98016.19	9355.757	4957.731	6249.247
#2	5937.407	97446.94	9337.686	4965.782	6245.209
#3	5954.992	97787.04	9325.694	5005.761	6254.508

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01DUP Acquired: 7/22/2025 18:34:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0655194**	**.0056786**	**.0706176**	**-.017811**	**-.009715**	**62.44070**	**.2997759**
Stddev	.0013081	.0002696	.0013420	.000882	.001979	.03295	.0003616
%RSD	1.996468	4.746877	1.900374	4.950459	20.37058	.0527689	.1206320
#1	.0643790	.0057240	.0692023	-.017472	-.011984	62.40549	.2997006
#2	.0669473	.0053892	.0707786	-.017149	-.008815	62.47079	.3001693
#3	.0652321	.0059225	.0718718	-.018812	-.008345	62.44583	.2994579

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061710**	**-.001925**	**6.329083**	**.1889530**	**.0664269**	**.2304895**	**173.6908**
Stddev	.0001442	.000032	.017803	.0003877	.0000667	.0009405	.7650
%RSD	2.336236	1.685550	.2812920	.2051966	.1004038	.4080596	.4404442
#1	.0063311	-.001959	6.320258	.1888298	.0663655	.2313971	173.5532
#2	.0060514	-.001894	6.317417	.1893874	.0664173	.2295192	174.5153
#3	.0061304	-.001923	6.349575	.1886419	.0664979	.2305522	173.0040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.368556**	**11.72139**	**.0880467**	**.0056728**	**1.656224**	**.2427767**	**.3089103**
Stddev	.000631	.02929	.0002166	.0003279	.007019	.0008723	.0006455
%RSD	.0461051	.2498738	.2460073	5.780492	.4238131	.3593039	.2089551
#1	1.368417	11.75215	.0878207	.0056954	1.664162	.2417722	.3096508
#2	1.369245	11.71817	.0880670	.0053342	1.653676	.2432138	.3086132
#3	1.368006	11.69384	.0882525	.0059888	1.650835	.2433440	.3084668

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.109019**	**.0126661**	**.0041226**	**.0106705**	**.9591365**	**1.511435**	**3.374121**
Stddev	.036489	.0038789	.0007791	.0006922	.0004826	.001941	.013529
%RSD	.7142021	30.62443	18.89770	6.486630	.0503159	.1283910	.4009515
#1	5.104610	.0145280	.0032468	.0100737	.9593564	1.511236	3.386402
#2	5.147512	.0152630	.0043821	.0114293	.9594699	1.513468	3.376341
#3	5.074935	.0082072	.0047387	.0105086	.9585831	1.509602	3.359619

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01DUP Acquired: 7/22/2025 18:34:36 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2547984	.1124055	-.143446
Stddev	.0046705	.0019399	.000658
%RSD	1.833035	1.725824	.4588889
#1	.2584629	.1142930	-.143356
#2	.2495394	.1125064	-.144145
#3	.2563928	.1104171	-.142838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5998.544	96503.80	9213.509	4971.530	6354.324
Stddev	8.654	203.12	32.829	7.561	7.797
%RSD	.1442762	.2104831	.3563165	.1520863	.1226979
#1	6000.825	96541.37	9213.914	4975.403	6357.684
#2	6005.829	96284.51	9246.133	4962.818	6359.877
#3	5988.977	96685.52	9180.479	4976.370	6345.411

Sample Name: Q2651-01LX5 Acquired: 7/22/2025 18:38:41 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0138193**	**.0018936**	**.0161047**	**-.007191**	**-.003637**	**13.98742**	**.0629081**
Stddev	.0018370	.0017354	.0003310	.003906	.001649	.06105	.0004897
%RSD	13.29288	91.64486	2.055328	54.31510	45.34356	.4364890	.7783825
#1	.0136448	.0023167	.0158992	-.003778	-.005437	14.05752	.0632567
#2	.0157374	.0033782	.0159283	-.006344	-.002199	13.94590	.0623483
#3	.0120759	-.000014	.0164865	-.011451	-.003275	13.95884	.0631193

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014989**	**-.000711**	**3.835822**	**.0426134**	**.0124286**	**.0541891**	**37.40303**
Stddev	.0000772	.000040	.029849	.0002622	.0002138	.0003051	.12813
%RSD	5.149786	5.564857	.7781752	.6152699	1.720453	.5630660	.3425641
#1	.0015832	-.000756	3.870287	.0426935	.0123146	.0543642	37.40027
#2	.0014816	-.000681	3.818965	.0428261	.0122960	.0543662	37.53252
#3	.0014318	-.000695	3.818215	.0423205	.0126753	.0538367	37.27631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2944207**	**4.141945**	**.0181834**	**.0007984**	**.3064771**	**.0524845**	**.0648111**
Stddev	.0004262	.010509	.0002977	.0001486	.0098187	.0009992	.0002099
%RSD	.1447666	.2537198	1.637027	18.61502	3.203715	1.903808	.3239027
#1	.2946908	4.133148	.0185173	.0006290	.3063830	.0521539	.0650095
#2	.2939294	4.139104	.0179457	.0009066	.3163426	.0536071	.0648326
#3	.2946421	4.153582	.0180873	.0008597	.2967059	.0516925	.0645913

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.166913**	**-.011885**	**.0007622**	**.0003204**	**.1999384**	**.3096736**	**.7328285**
Stddev	.052706	.001576	.0003184	.0006693	.0012382	.0022805	.0035828
%RSD	4.516725	13.25724	41.77668	208.9060	.6192708	.7364200	.4889033
#1	1.117211	-.013626	.0005847	-.000415	.1998914	.3074552	.7367980
#2	1.222182	-.010557	.0005720	.000482	.2011995	.3095541	.7298343
#3	1.161348	-.011474	.0011297	.000894	.1987245	.3120115	.7318532

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01LX5 Acquired: 7/22/2025 18:38:41 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0506105	.0181185	-.030295
Stddev	.0008767	.0020242	.000155
%RSD	1.732258	11.17173	.5102844
#1	.0501075	.0203132	-.030277
#2	.0516228	.0177175	-.030458
#3	.0501011	.0163249	-.030150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5743.594	93669.97	8364.905	4788.919	6607.575
Stddev	8.064	116.01	55.295	16.191	9.032
%RSD	.1404071	.1238526	.6610357	.3380892	.1366923
#1	5745.016	93785.24	8303.963	4782.365	6606.868
#2	5750.852	93553.23	8411.871	4807.359	6616.940
#3	5734.913	93671.43	8378.882	4777.032	6598.917

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01MS Acquired: 7/22/2025 18:42:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.7924076**	**1.832494**	**1.049654**	**1.727434**	**.4491539**	**76.11179**	**.5025949**
Stddev	.0017198	.042342	.002842	.014795	.0003080	.06770	.0024771
%RSD	.2170339	2.310622	.2707691	.8564490	.0685730	.0889513	.4928555
#1	.7923488	1.812238	1.046640	1.719332	.4494918	76.05934	.5018953
#2	.7941561	1.881159	1.052286	1.744510	.4490811	76.18822	.5053465
#3	.7907180	1.804085	1.050036	1.718460	.4488889	76.08781	.5005428

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2048727**	**.1947647**	**8.463243**	**.6289548**	**.2741696**	**.5419308**	**181.4563**
Stddev	.0013895	.0014211	.069565	.0043191	.0009888	.0032357	1.2563
%RSD	.6782035	.7296609	.8219680	.6867064	.3606458	.5970636	.6923548
#1	.2040913	.1940491	8.422754	.6338424	.2734867	.5392402	182.7374
#2	.2064770	.1964014	8.543569	.6256519	.2753035	.5455211	180.2264
#3	.2040500	.1938436	8.423406	.6273703	.2737188	.5410311	181.4051

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.600040**	**15.68592**	**.6220993**	**.0775527**	**4.459386**	**.5552985**	**.5338140**
Stddev	.005474	.01167	.0019137	.0006363	.060485	.0013816	.0015664
%RSD	.3421106	.0744200	.3076198	.8204741	1.356363	.2488080	.2934373
#1	1.596370	15.69617	.6213059	.0782826	4.510521	.5565800	.5339149
#2	1.606332	15.67321	.6242821	.0772600	4.392619	.5554806	.5321996
#3	1.597419	15.68837	.6207098	.0771153	4.475018	.5538348	.5353275

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.78758**	**.2617292**	**.3956150**	**.7187780**	**1.146113**	**5.140899**	**9.444581**
Stddev	.12900	.0063630	.0020826	.0040929	.001287	.040725	.067213
%RSD	.8171251	2.431154	.5264229	.5694175	.1122897	.7921789	.7116560
#1	15.91162	.2674931	.3945744	.7162482	1.146904	5.174292	9.390159
#2	15.65412	.2549012	.3980128	.7235000	1.146806	5.095528	9.519711
#3	15.79700	.2627932	.3942578	.7165858	1.144627	5.152876	9.423873

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01MS Acquired: 7/22/2025 18:42:55 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2731417	.3158828	.0568749
Stddev	.0040603	.0021838	.0014831
%RSD	1.486525	.6913260	2.607656
#1	.2700445	.3156197	.0555186
#2	.2777385	.3181863	.0584585
#3	.2716420	.3138426	.0566474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5903.199	96706.49	8841.727	4944.131	6197.132
Stddev	22.986	383.06	75.920	12.280	25.142
%RSD	.3893804	.3961056	.8586589	.2483748	.4057031
#1	5923.567	96264.20	8880.215	4930.532	6218.277
#2	5878.277	96923.78	8754.271	4954.409	6169.332
#3	5907.752	96931.50	8890.695	4947.451	6203.788

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01MSD Acquired: 7/22/2025 18:46:52 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8061710**	**1.777718**	**1.047467**	**1.738954**	**.4665641**	**77.91222**	**.5118099**
Stddev	.0026440	.069278	.003525	.013001	.0022955	.07741	.0004814
%RSD	.3279741	3.896994	.3365356	.7476202	.4920060	.0993586	.0940553
#1	.8074826	1.732966	1.050755	1.742979	.4686913	77.84631	.5113661
#2	.8031276	1.742672	1.043745	1.724417	.4668701	77.89288	.5117420
#3	.8079029	1.857517	1.047902	1.749467	.4641309	77.99747	.5123217

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1996678**	**.1961077**	**7.900072**	**.5922195**	**.2763657**	**.5396664**	**181.5319**
Stddev	.0008407	.0005880	.021309	.0009012	.0007593	.0009541	.3843
%RSD	.4210628	.2998400	.2697292	.1521702	.2747608	.1767963	.2117125
#1	.1987021	.1959976	7.906755	.5912397	.2764131	.5397639	181.9113
#2	.2002362	.1955826	7.876223	.5924058	.2755838	.5386673	181.5416
#3	.2000652	.1967430	7.917239	.5930129	.2771002	.5405680	181.1428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.619181**	**15.97424**	**.6280871**	**.0798568**	**4.515492**	**.5507374**	**.5412220**
Stddev	.002274	.05791	.0017871	.0001475	.045580	.0009085	.0005543
%RSD	.1404180	.3625029	.2845338	.1846939	1.009419	.1649631	.1024148
#1	1.618042	15.93769	.6299011	.0800122	4.550114	.5508445	.5415093
#2	1.617702	15.94402	.6263282	.0798395	4.532512	.5497801	.5405831
#3	1.621799	16.04100	.6280319	.0797188	4.463851	.5515876	.5415737

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.90899**	**.2556570**	**.4059029**	**.7190741**	**1.132357**	**2.222979**	**9.560950**
Stddev	.05685	.0023200	.0001721	.0026710	.002605	.016345	.053344
%RSD	.3573482	.9074668	.0424019	.3714532	.2300562	.7352578	.5579331
#1	15.93391	.2571564	.4057100	.7179816	1.132885	2.225834	9.591730
#2	15.94913	.2529847	.4059578	.7171226	1.129529	2.237708	9.499355
#3	15.84393	.2568298	.4060409	.7221182	1.134658	2.205395	9.591767

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01MSD Acquired: 7/22/2025 18:46:52 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2344121	.3126415	.0539211
Stddev	.0027524	.0021978	.0005357
%RSD	1.174165	.7029872	.9933922
#1	.2373892	.3110972	.0533405
#2	.2319602	.3151577	.0540268
#3	.2338869	.3116696	.0543960

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5903.058	97301.31	9152.547	4948.333	6178.940
Stddev	14.073	205.80	23.833	8.826	10.938
%RSD	.2384016	.2115039	.2603954	.1783551	.1770158
#1	5886.900	97122.82	9172.939	4938.270	6167.577
#2	5909.641	97254.70	9158.355	4954.757	6189.396
#3	5912.633	97526.41	9126.347	4951.973	6179.845

Sample Name: Q2651-01A Acquired: 7/22/2025 18:50:49 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.8158272**	**1.890016**	**1.055335**	**1.807052**	**.7806169**	**66.06232**	**.4900589**
Stddev	.0042317	.028595	.003382	.005142	.0005964	.03219	.0015456
%RSD	.5186961	1.512963	.3204750	.2845464	.0764066	.0487234	.3153877
#1	.8121382	1.865096	1.051440	1.804236	.7812733	66.02592	.4884118
#2	.8148968	1.883716	1.057044	1.803933	.7801083	66.08702	.4914775
#3	.8204467	1.921236	1.057522	1.812987	.7804690	66.07402	.4902876

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1989714**	**.1970493**	**18.11316**	**.5837902**	**.2732267**	**.5382807**	**179.9995**
Stddev	.0009120	.0005012	.01710	.0007996	.0005971	.0014639	.9055
%RSD	.4583672	.2543291	.0944292	.1369669	.2185519	.2719596	.5030349
#1	.1999903	.1966658	18.09413	.5846678	.2727101	.5371862	178.9780
#2	.1982315	.1968659	18.11812	.5835998	.2730895	.5377124	180.7033
#3	.1986923	.1976164	18.12724	.5831029	.2738805	.5399436	180.3171

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.518327**	**20.35946**	**.6201556**	**.0803941**	**4.407000**	**.5511220**	**.5090927**
Stddev	.001324	.06163	.0014560	.0001610	.013716	.0042269	.0006302
%RSD	.0872060	.3027043	.2347739	.2002608	.3112257	.7669545	.1237896
#1	1.519798	20.38098	.6188254	.0805548	4.404530	.5465014	.5090427
#2	1.517956	20.28996	.6199302	.0803948	4.421783	.5520707	.5084889
#3	1.517229	20.40745	.6217111	.0802328	4.394687	.5547939	.5097463

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.78893**	**.2867436**	**.4155162**	**.7423462**	**1.084398**	**2.380272**	**9.726164**
Stddev	.09098	.0020343	.0009142	.0028968	.003553	.038018	.023829
%RSD	.6151576	.7094461	.2200100	.3902267	.3276916	1.597214	.2449984
#1	14.68429	.2845852	.4151768	.7396589	1.083107	2.336498	9.705126
#2	14.83330	.2886255	.4148202	.7419648	1.088417	2.405025	9.721325
#3	14.84921	.2870200	.4165515	.7454148	1.081671	2.399293	9.752041

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-01A Acquired: 7/22/2025 18:50:49 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2752370	.3048569	.0534497
Stddev	.0030764	.0015904	.0008205
%RSD	1.117729	.5216852	1.535088
#1	.2736060	.3041676	.0541705
#2	.2787855	.3066757	.0525569
#3	.2733195	.3037275	.0536219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5877.871	96710.48	9199.846	4908.982	6143.244
Stddev	9.788	176.41	31.360	5.339	8.916
%RSD	.1665202	.1824084	.3408723	.1087599	.1451296
#1	5872.203	96913.06	9166.113	4907.546	6146.614
#2	5889.173	96590.72	9228.114	4904.508	6149.983
#3	5872.236	96627.66	9205.312	4914.892	6133.135

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV07 Acquired: 7/22/2025 18:54:47 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.187065**	**4.572224**	**5.129606**	**5.186230**	**5.254204**	**10.38734**
Stddev	.008553	.103663	.011135	.006694	.006761	.02373
%RSD	.1648998	2.267237	.2170732	.1290810	.1286838	.2284406
#1	5.179478	4.547726	5.140125	5.178522	5.250548	10.38260
#2	5.185380	4.685942	5.117943	5.189573	5.250058	10.36634
#3	5.196335	4.483004	5.130750	5.190594	5.262006	10.41308

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.61662**	**.2665914**	**2.569379**	**26.85674**	**1.010326**	**2.576692**
Stddev	.12612	.0011899	.002463	.19300	.002463	.002829
%RSD	1.187950	.4463553	.0958535	.7186184	.2438102	.1098049
#1	10.73186	.2672076	2.572212	26.65059	1.009875	2.579604
#2	10.48189	.2652198	2.568181	26.88652	1.008120	2.573953
#3	10.63611	.2673469	2.567745	27.03312	1.012984	2.576520

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.307865**	**5.136067**	**2.684990**	**26.21155**	**2.597365**	**1.316304**
Stddev	.002199	.021620	.007808	.12233	.000960	.002544
%RSD	.1681723	.4209461	.2907887	.4666966	.0369482	.1932761
#1	1.308083	5.111115	2.676943	26.28994	2.598392	1.314720
#2	1.305564	5.147873	2.685492	26.07059	2.596491	1.314953
#3	1.309947	5.149214	2.692534	26.27412	2.597211	1.319238

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.33950**	**2.621452**	**2.650582**	**25.15491**	F **5.532857**	**5.270310**
Stddev	.02704	.004552	.012124	.13668	.015833	.005400
%RSD	.1158589	.1736332	.4574112	.5433354	.2861647	.1024680
#1	23.31149	2.618397	2.639514	25.00586	5.535243	5.269531
#2	23.36545	2.626683	2.648692	25.18452	5.515967	5.265341
#3	23.34155	2.619275	2.663540	25.27436	5.547362	5.276057

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV07 Acquired: 7/22/2025 18:54:47 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.155120**	**5.162470**	**4.930994**	**5.173381**	**5.031831**	**4.980569**
Stddev	.009732	.009424	.021414	.008545	.008341	.008546
%RSD	.1887847	.1825411	.4342695	.1651715	.1657616	.1715821
#1	5.166253	5.170129	4.908528	5.173583	5.033417	4.970740
#2	5.150875	5.151947	4.933282	5.164736	5.039266	4.984732
#3	5.148230	5.165335	4.951172	5.181822	5.022812	4.986236

Elem	Sr4077
Units	ppm
Avg	**5.370459**
Stddev	.066132
%RSD	1.231400
#1	5.347332
#2	5.318996
#3	5.445048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5435.425**	**89085.22**	**8180.077**	**4499.391**	**6060.021**
Stddev	6.223	273.37	22.045	22.727	11.820
%RSD	.1144842	.3068689	.2694910	.5051152	.1950570
#1	5428.267	89349.00	8185.079	4525.262	6047.929
#2	5439.548	89103.49	8199.192	4490.269	6060.582
#3	5438.460	88803.17	8155.962	4482.642	6071.550

Sample Name: CCB07 Acquired: 7/22/2025 18:58:58 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007640**	**.0002848**	**.0006849**	**.0007800**	**.0013863**	**-.010005**	**-.001112**
Stddev	.0015766	.0006347	.0006197	.0007739	.0007766	.010960	.000463
%RSD	206.3487	222.8557	90.48358	99.22473	56.02178	109.5460	41.60880
#1	.0007548	-.000437	.0008243	.0013152	.0008162	.001665	-.001597
#2	.0023452	.000537	.0012230	-.000107	.0022708	-.011600	-.000676
#3	-.000808	.000755	.0000074	.001132	.0010718	-.020080	-.001061

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000011**	**.0000718**	**.0147268**	**.0019402**	**.0000032**	**.0004160**	**.0251851**
Stddev	.000035	.0001497	.0051772	.0002846	.0001522	.0000670	.0051689
%RSD	322.6720	208.4128	35.15517	14.67121	4721.322	16.10811	20.52364
#1	.000005	.0000308	.0087498	.0022645	.0000783	.0004658	.0220977
#2	.000014	-.000053	.0176116	.0018242	.0001033	.0004425	.0311525
#3	-.000051	.000238	.0178189	.0017318	-.000172	.0003398	.0223052

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043104**	**.0234441**	**.0003230**	**.0004502**	**-.018610**	**-.002425**	**.0179135**
Stddev	.0004081	.0195610	.0001074	.0000618	.004709	.001605	.0003838
%RSD	9.467802	83.43703	33.26401	13.73164	25.30248	66.17752	2.142775
#1	.0043136	.0309052	.0002084	.0003923	-.014781	-.003750	.0174848
#2	.0047168	.0012505	.0004215	.0004431	-.017181	-.000641	.0180305
#3	.0039007	.0381764	.0003390	.0005153	-.023867	-.002885	.0182253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1855818**	**.0029141**	**.0011261**	**-.000709**	**.0050024**	**.0054273**	**.0009059**
Stddev	.0155919	.0004281	.0002339	.000563	.0013134	.0026991	.0011871
%RSD	8.401637	14.69063	20.77210	79.43600	26.25600	49.73133	131.0515
#1	.1924154	.0033376	.0013692	-.001358	.0065172	.0075229	.0005329
#2	.1677398	.0029233	.0011063	-.000422	.0041802	.0023817	-.000050
#3	.1965901	.0024815	.0009026	-.000347	.0043098	.0063773	.002235

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB07 Acquired: 7/22/2025 18:58:58 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0051718	-.006959	.0000374
Stddev	.0024393	.001802	.0000202
%RSD	47.16570	25.89752	54.09573
#1	.0028346	-.008604	.0000142
#2	.0049790	-.005033	.0000465
#3	.0077018	-.007241	.0000514

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5682.814	91962.17	8369.015	4684.087	6795.997
Stddev	13.320	229.16	28.047	14.635	14.236
%RSD	.2343901	.2491931	.3351295	.3124367	.2094832
#1	5693.930	92210.91	8401.400	4671.563	6810.230
#2	5686.463	91915.98	8352.584	4700.175	6796.004
#3	5668.050	91759.62	8353.062	4680.525	6781.757

Sample Name: Q2651-02 Acquired: 7/22/2025 19:03:17 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0648486**	**.0067202**	**.1109706**	**-.024234**	**-.010867**	**152.7512**	**.4516478**
Stddev	.0044889	.0008540	.0016826	.001827	.002260	.2988	.0008823
%RSD	6.922041	12.70855	1.516305	7.539419	20.79414	.1956095	.1953532
#1	.0627972	.0057570	.1096398	-.024064	-.010509	153.0076	.4526431
#2	.0617520	.0073851	.1104100	-.022499	-.008808	152.8229	.4509619
#3	.0699967	.0070186	.1128620	-.026141	-.013285	152.4231	.4513383

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077068**	**-.000026**	**33.93744**	**.3682102**	**.0956696**	**.3858744**	**221.6865**
Stddev	.0001524	.000032	.20466	.0002906	.0002357	.0012985	.4776
%RSD	1.977366	124.8161	.6030373	.0789198	.2463697	.3365002	.2154255
#1	.0078293	-.000053	34.15192	.3682384	.0953986	.3861544	221.1953
#2	.0077548	-.000034	33.74428	.3679066	.0958271	.3844587	221.7150
#3	.0075361	.000010	33.91613	.3684857	.0957831	.3870100	222.1492

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.893411**	**28.16306**	**.1815672**	**.0076700**	**.5941013**	**.3767543**	**.4357007**
Stddev	.005014	.07079	.0004524	.0002578	.0091240	.0033530	.0001313
%RSD	.2648193	.2513571	.2491726	3.361143	1.535770	.8899754	.0301478
#1	1.899164	28.23254	.1813505	.0074311	.5932221	.3803888	.4356660
#2	1.891095	28.16562	.1812639	.0076357	.5854487	.3760928	.4358459
#3	1.889973	28.09103	.1820872	.0079433	.6036331	.3737813	.4355902

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.554687**	**.0328142**	**.0034048**	**.0136029**	**1.903913**	**1.528399**	**3.994684**
Stddev	.044178	.0047150	.0002423	.0001341	.003726	.014580	.014789
%RSD	.4623729	14.36873	7.115442	.9857764	.1957128	.9539302	.3702110
#1	9.525114	.0299478	.0036307	.0135115	1.908163	1.538108	3.982862
#2	9.605470	.0302387	.0034347	.0137568	1.902371	1.535455	3.989922
#3	9.533476	.0382560	.0031489	.0135404	1.901205	1.511633	4.011267

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-02 Acquired: 7/22/2025 19:03:17 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**5.236886**	**.1907943**	**-.138292**
Stddev	.029051	.0017511	.000590
%RSD	.5547410	.9177708	.4268872
#1	5.210791	.1925378	-.137628
#2	5.231679	.1908093	-.138490
#3	5.268189	.1890358	-.138758

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6454.654**	**103932.6**	**10111.98**	**5325.626**	**6036.715**
Stddev	10.503	148.9	56.40	9.180	7.821
%RSD	.1627259	.1432949	.5577583	.1723807	.1295542
#1	6448.343	103799.8	10050.98	5323.355	6038.179
#2	6466.779	103904.4	10122.74	5335.729	6043.701
#3	6448.839	104093.6	10162.23	5317.795	6028.266

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-03 Acquired: 7/22/2025 19:07:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0676198**	**.0058019**	**.1015545**	**-.015953**	**-.008035**	**119.8841**	**.3687670**
Stddev	.0031224	.0026647	.0019581	.001185	.000812	.1872	.0011473
%RSD	4.617608	45.92886	1.928157	7.429578	10.10617	.1561779	.3111256
#1	.0640182	.0051497	.0992941	-.014724	-.008229	119.7835	.3679643
#2	.0692769	.0035238	.1027323	-.017089	-.007144	120.1002	.3700811
#3	.0695644	.0087322	.1026371	-.016047	-.008733	119.7688	.3682556

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064831**	**-.001330**	**6.620593**	**.3232115**	**.0882202**	**.3107792**	**189.6468**
Stddev	.0000201	.000145	.010929	.0019429	.0001758	.0017200	.4784
%RSD	.3102694	10.88598	.1650774	.6011124	.1993186	.5534407	.2522421
#1	.0064776	-.001200	6.612845	.3242994	.0880329	.3089243	189.1077
#2	.0065054	-.001303	6.615841	.3243666	.0882458	.3110919	190.0205
#3	.0064663	-.001486	6.633094	.3209684	.0883818	.3123213	189.8123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.865267**	**17.41659**	**.1415099**	**.0068280**	**2.519190**	**.2598264**	**.3989959**
Stddev	.004290	.04025	.0005565	.0000561	.014386	.0011771	.0012676
%RSD	.2299867	.2311197	.3932496	.8217167	.5710686	.4530499	.3177022
#1	1.861441	17.41509	.1411572	.0068922	2.502959	.2587055	.3998171
#2	1.869905	17.37711	.1412211	.0067885	2.524243	.2610527	.3996346
#3	1.864456	17.45757	.1421515	.0068032	2.530369	.2597210	.3975360

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.851099**	**.0219044**	**.0027943**	**.0132525**	**1.732249**	**1.463545**	**3.251621**
Stddev	.034353	.0032050	.0002063	.0007106	.001287	.010382	.007150
%RSD	.4375586	14.63173	7.382725	5.362392	.0742777	.7093666	.2199009
#1	7.861428	.0182298	.0026272	.0139118	1.730825	1.474874	3.244084
#2	7.879103	.0233611	.0027308	.0133461	1.732591	1.461273	3.252472
#3	7.812767	.0241222	.0030249	.0124997	1.733330	1.454487	3.258308

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-03 Acquired: 7/22/2025 19:07:20 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.2297226	.1602726	-.155073
Stddev	.0013116	.0018574	.000460
%RSD	.5709483	1.158881	.2968541
#1	.2286224	.1591215	-.154545
#2	.2293712	.1624153	-.155286
#3	.2311740	.1592809	-.155388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6247.772	100413.7	9681.039	5133.092	6197.454
Stddev	14.035	353.9	28.348	4.807	8.660
%RSD	.2246372	.3524414	.2928176	.0936496	.1397305
#1	6263.457	100534.6	9673.434	5135.407	6205.429
#2	6243.461	100015.2	9657.270	5136.303	6198.691
#3	6236.399	100691.3	9712.414	5127.565	6188.242

Sample Name: Q2651-04 Acquired: 7/22/2025 19:11:24 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.0596186	.0064939	.1142428	-.017288	-.007120	121.8762	.3883898
Stddev	.0029098	.0034892	.0006657	.005225	.001593	.0625	.0006755
%RSD	4.880733	53.73069	.5826921	30.22367	22.36827	.0512605	.1739232
#1	.0605989	.0105229	.1134826	-.013595	-.006457	121.9085	.3880772
#2	.0563453	.0044578	.1147215	-.015002	-.008937	121.8042	.3891650
#3	.0619117	.0045011	.1145244	-.023266	-.005966	121.9160	.3879273

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056717	-.001788	10.00184	.3059818	.0695658	.2910297	165.3827
Stddev	.0001014	.000105	.04421	.0007682	.0001973	.0019447	.4871
%RSD	1.787649	5.848468	.4420358	.2510589	.2835857	.6682190	.2945483
#1	.0056112	-.001745	9.95835	.3057492	.0696400	.2899585	165.2545
#2	.0056152	-.001907	10.00045	.3053569	.0693422	.2898560	165.9211
#3	.0057888	-.001712	10.04674	.3068395	.0697153	.2932745	164.9725

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.605546	16.88060	.1329046	.0055057	.7755982	.2304562	.3515516
Stddev	.001052	.04946	.0002810	.0004247	.0097201	.0004631	.0007018
%RSD	.0655005	.2929983	.2114276	7.714366	1.253236	.2009529	.1996257
#1	1.605072	16.89918	.1325854	.0057086	.7777327	.2302413	.3523532
#2	1.604816	16.82454	.1331149	.0057910	.7649883	.2309877	.3512534
#3	1.606752	16.91807	.1330133	.0050176	.7840737	.2301395	.3510481

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.044393	.0077519	.0025369	.0113868	1.461190	1.502046	2.952179
Stddev	.056776	.0036791	.0005546	.0001820	.004325	.006698	.008185
%RSD	.7057806	47.46078	21.86145	1.598676	.2959979	.4459005	.2772579
#1	8.044466	.0098081	.0023855	.0112566	1.457862	1.496842	2.946706
#2	8.101133	.0099431	.0020738	.0113090	1.466079	1.509603	2.948242
#3	7.987581	.0035043	.0031515	.0115948	1.459630	1.499694	2.961589

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-04 Acquired: 7/22/2025 19:11:24 Type: Unk
Method: 6010-200.7 NEW(v53) 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	1.312858	.1437799	-.120004
Stddev	.005139	.0042436	.000439
%RSD	.3914532	2.951449	.3654459
#1	1.308512	.1427077	-.119804
#2	1.311532	.1484567	-.120507
#3	1.318530	.1401752	-.119701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6028.814	98911.79	9458.946	5063.829	6130.440
Stddev	13.911	286.02	38.416	27.043	17.599
%RSD	.2307498	.2891700	.4061354	.5340498	.2870810
#1	6040.498	99192.57	9484.712	5033.328	6140.692
#2	6032.519	98620.79	9477.333	5073.282	6140.509
#3	6013.426	98922.01	9414.792	5084.877	6110.118

Sample Name: Q2651-05 Acquired: 7/22/2025 19:15:30 Type: Unk
Method: 6010-200.7 NEW(v53) 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	**.0715736**	**.0041183**	**.1068836**	**-.021724**	**-.009141**	**113.3970**	**.3440688**
Stddev	.0004107	.0046760	.0015690	.003091	.000940	.1046	.0005624
%RSD	.5738216	113.5415	1.467938	14.22708	10.28900	.0922113	.1634634
#1	.0711401	.0023477	.1057224	-.020815	-.010053	113.3558	.3436695
#2	.0719569	.0094211	.1086686	-.019189	-.009195	113.5159	.3447120
#3	.0716237	.0005862	.1062598	-.025167	-.008174	113.3194	.3438249

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074366**	**-.000269**	**9.138572**	**.2422565**	**.0797147**	**.3329085**	**201.4647**
Stddev	.0000832	.000267	.026556	.0018793	.0003452	.0005432	1.7850
%RSD	1.118370	99.27112	.2905905	.7757416	.4330766	.1631692	.8860169
#1	.0073406	-.000406	9.159862	.2429975	.0793413	.3326881	202.5539
#2	.0074856	.000039	9.108815	.2401197	.0797803	.3335273	199.4047
#3	.0074836	-.000440	9.147040	.2436523	.0800224	.3325101	202.4355

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.400181**	**14.50697**	**.1354187**	**.0069530**	**4.623846**	**.3158804**	**.3566145**
Stddev	.001070	.03560	.0003886	.0009162	.050111	.0024191	.0014596
%RSD	.0764032	.2454155	.2869944	13.17730	1.083742	.7658371	.4092993
#1	1.400705	14.54599	.1354846	.0077141	4.663301	.3160025	.3567846
#2	1.400888	14.47625	.1357702	.0059361	4.567464	.3182361	.3550773
#3	1.398951	14.49867	.1350014	.0072088	4.640774	.3134025	.3579816

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.980168**	**.0046823**	**.0032439**	**.0132758**	**1.524826**	**1.651410**	**3.944713**
Stddev	.035614	.0048307	.0001875	.0010679	.000725	.007152	.001951
%RSD	.5102152	103.1693	5.779578	8.043855	.0475186	.4330646	.0494574
#1	7.004537	.0050104	.0031205	.0139608	1.525580	1.649516	3.946566
#2	6.939296	-.000304	.0034596	.0138213	1.524135	1.645397	3.944895
#3	6.996671	.009341	.0031515	.0120454	1.524763	1.659319	3.942677

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: Q2651-05 Acquired: 7/22/2025 19:15:30 Type: Unk
Method: 6010-200.7 NEW(v53) 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	.8547898	.1389393	-.154086
Stddev	.0055101	.0021954	.001841
%RSD	.6446171	1.580096	1.194590
#1	.8499346	.1387529	-.155241
#2	.8536563	.1368431	-.151963
#3	.8607786	.1412219	-.155053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6266.918	103007.8	9835.397	5284.647	6156.235
Stddev	2.318	578.7	20.118	14.756	3.346
%RSD	.0369901	.5618293	.2045465	.2792211	.0543577
#1	6268.812	102672.3	9856.725	5273.655	6156.155
#2	6267.608	103676.1	9816.760	5301.418	6159.621
#3	6264.333	102675.0	9832.706	5278.869	6152.930

Sample Name: CCV08 Acquired: 7/22/2025 19:19:35 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.256530**	**5.014776**	**5.150043**	**5.294709**	**5.335577**	**10.57196**	**10.77899**
Stddev	.006510	.132197	.009780	.014036	.004722	.01722	.05938
%RSD	.1238501	2.636152	.1898947	.2650896	.0885086	.1628637	.5508729
#1	5.263688	5.111105	5.158732	5.304363	5.330956	10.55991	10.71498
#2	5.250962	4.864061	5.151945	5.278608	5.335379	10.56428	10.78973
#3	5.254940	5.069161	5.139453	5.301157	5.340395	10.59168	10.83227

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2699039**	**2.579726**	**27.21730**	**1.047494**	**2.598449**	**1.317416**	**5.335716**
Stddev	.0021206	.005217	.21255	.002002	.004527	.002568	.006432
%RSD	.7856876	.2022362	.7809532	.1910825	.1742331	.1949356	.1205509
#1	.2687448	2.584210	27.05450	1.048326	2.600748	1.317583	5.343141
#2	.2686154	2.580967	27.13963	1.045211	2.601366	1.319897	5.332140
#3	.2723514	2.574000	27.45776	1.048946	2.593233	1.314769	5.331866

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.717257**	**26.60485**	**2.611956**	**1.334867**	**24.48492**	**2.659524**	**2.708963**
Stddev	.008229	.04142	.004388	.002195	.16035	.004116	.004083
%RSD	.3028320	.1556907	.1680072	.1644261	.6548752	.1547474	.1507126
#1	2.710312	26.58970	2.611893	1.332373	24.58103	2.654928	2.706777
#2	2.715113	26.57313	2.616375	1.335724	24.57391	2.660775	2.706439
#3	2.726345	26.65171	2.607599	1.336504	24.29981	2.662869	2.713673

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.93946**	**5.460395**	**5.337848**	**5.214773**	**5.239584**	**5.112044**	**5.196210**
Stddev	.09400	.046558	.009368	.010957	.006562	.012468	.027188
%RSD	.3623816	.8526547	.1754937	.2101183	.1252450	.2438854	.5232362
#1	25.98737	5.427369	5.345039	5.227399	5.233773	5.102117	5.227241
#2	25.99986	5.440171	5.327254	5.207756	5.246701	5.107978	5.176570
#3	25.83116	5.513646	5.341250	5.209165	5.238279	5.126037	5.184818

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCV08 Acquired: 7/22/2025 19:19:35 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.141680**	**5.069847**	**5.451775**
Stddev	.024699	.006457	.075419
%RSD	.4803631	.1273665	1.383393
#1	5.163339	5.076010	5.377978
#2	5.114782	5.063131	5.448629
#3	5.146918	5.070399	5.528718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5449.315**	**87569.60**	**8224.858**	**4505.368**	**6089.019**
Stddev	11.512	188.95	67.278	4.663	17.169
%RSD	.2112477	.2157708	.8179896	.1035045	.2819609
#1	5439.546	87783.16	8275.960	4507.592	6076.062
#2	5446.392	87424.14	8249.980	4508.503	6082.502
#3	5462.006	87501.50	8148.633	4500.009	6108.492

Reviewed By:jaswal
On:7/23/2025 3:53:24 PM
Inst Id :P4
LB :LB136571

Sample Name: CCB08 Acquired: 7/22/2025 19:23:45 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022661**	**.0004058**	**.0006134**	**.0013334**	**-.000508**	**.0002798**
Stddev	.0021528	.0017094	.0004884	.0055752	.000106	.0079741
%RSD	94.99840	421.2312	79.62466	418.1325	20.84396	2849.599
#1	.0026042	-.000736	.0000514	.0003554	-.000414	-.005589
#2	-.000036	-.000417	.0008534	-.003688	-.000488	-.002930
#3	.004230	.002371	.0009354	.007333	-.000623	.009359

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002086**	**-.000096**	**.0000946**	**-.020962**	**.0003224**	**.0001957**
Stddev	.000786	.000059	.0000890	.001698	.0005271	.0000839
%RSD	37.69429	61.30112	94.02017	8.098504	163.4936	42.88074
#1	-.002789	-.000097	.0001320	-.022170	.0009301	.0002926
#2	-.002233	-.000037	.0001588	-.019021	.0000478	.0001464
#3	-.001237	-.000155	-.000007	-.021696	-.000011	.0001481

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000908**	**-.005715**	**-.000019**	**-.016562**	**.0001325**	**.0002922**
Stddev	.0004550	.001689	.000137	.017241	.0001776	.0003464
%RSD	500.8798	29.55311	716.1602	104.1026	134.0614	118.5391
#1	.0003554	-.007380	.000062	-.036254	.0002719	.0000770
#2	.0003516	-.004003	.000058	-.009252	.0001930	.0001079
#3	-.000435	-.005761	-.000178	-.004180	-.000067	.0006918

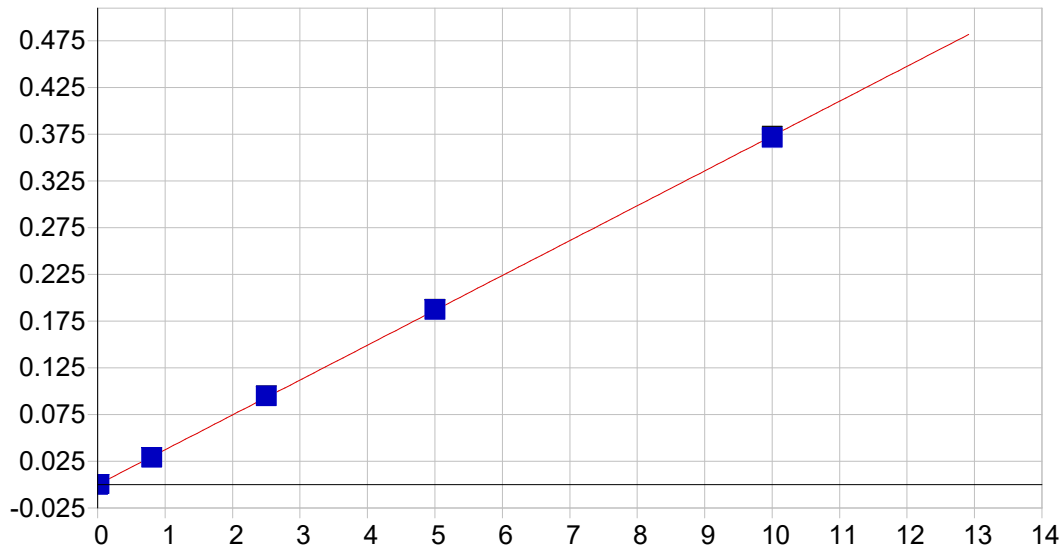
Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.081216**	**-.005895**	**.0001188**	**.1220875**	**.0025353**	**.0012376**
Stddev	.018335	.001366	.0001035	.0176168	.0007257	.0001289
%RSD	22.57607	23.17619	87.10611	14.42963	28.62503	10.41822
#1	-.081909	-.006819	.0002247	.1331737	.0033466	.0011644
#2	-.062544	-.006539	.0001139	.1313151	.0023111	.0013865
#3	-.099196	-.004325	.0000179	.1017737	.0019481	.0011620

Sample Name: CCB08 Acquired: 7/22/2025 19:23:45 Type: Unk
Method: 6010-200.7 NEW(v53) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000526	.0050912	.0013317	.0003528	-.006571	F -.010306
Stddev	.000166	.0010997	.0103378	.0019763	.003247	.000503
%RSD	31.50596	21.59880	776.2972	560.1584	49.41268	4.879372
#1	-.000370	.0039164	.0132323	.0025435	-.010173	-.010537
#2	-.000700	.0060958	-.005426	-.001296	-.003870	-.009729
#3	-.000508	.0052615	-.003811	-.000189	-.005670	-.010651

Elem	Sr4077
Units	ppm
Avg	.0000693
Stddev	.0000503
%RSD	72.54992
#1	.0001186
#2	.0000181
#3	.0000712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5616.363	94093.94	8592.299	4789.859	6638.038
Stddev	6.559	210.08	45.979	8.821	12.234
%RSD	.1167830	.2232621	.5351143	.1841697	.1842970
#1	5619.053	93874.71	8632.354	4793.163	6632.947
#2	5621.149	94113.62	8602.450	4796.551	6651.995
#3	5608.886	94293.48	8542.093	4779.862	6629.171

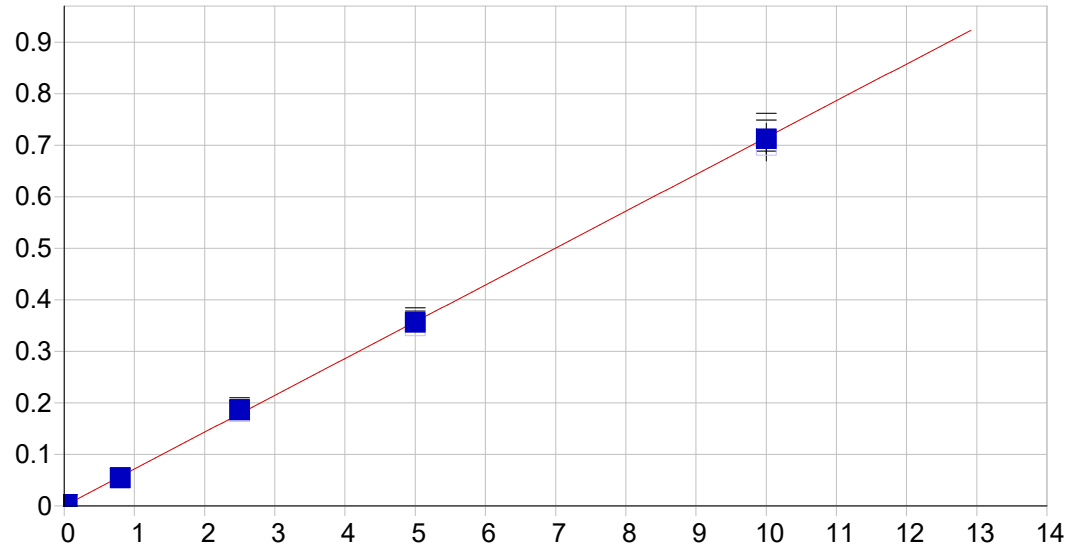


As 189.042 {479}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.037315	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002981		
Predicted MQL:	0.009936		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.02000	.01959	-.000	-2.03	.00070	.000	1
S3	2.5000	2.5436	.044	1.75	.09479	.000	1
S4	5.0000	5.0225	.022	.449	.18718	.000	1
S5	10.000	9.9562	-.044	-.438	.37109	.001	1
S2	.80000	.77809	-.022	-2.74	.02897	.000	1

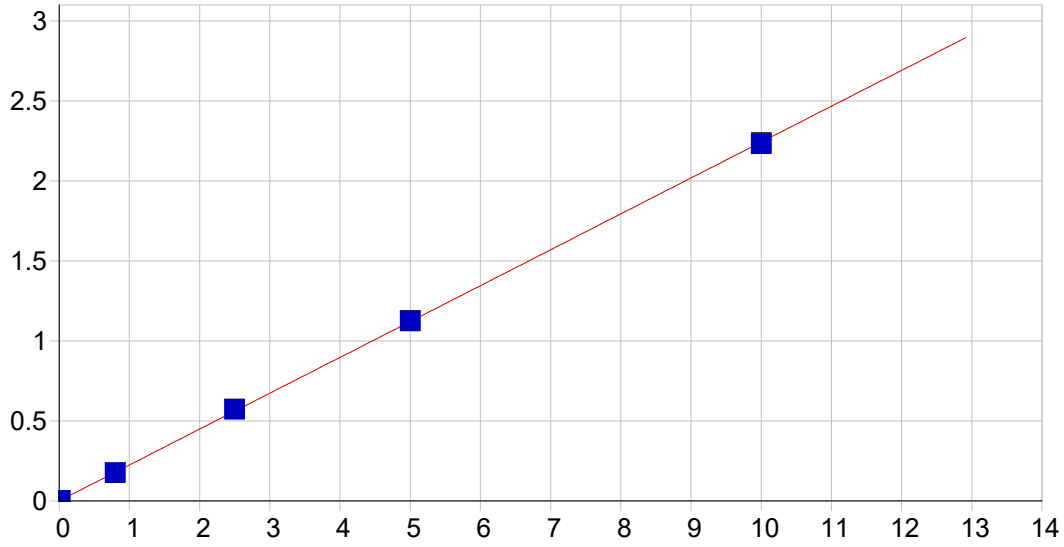


Tl 190.856 {477}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000122	Re-Slope:	1.000000
A1 (Gain):	0.071458	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.001887		
Predicted MQL:	0.006289		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.04000	.03879	-.001	-3.04	.00271	.000	1
S3	2.5000	2.5968	.097	3.87	.18240	.005	1
S4	5.0000	4.9775	-.022	-.449	.34924	.010	1
S5	10.000	9.9698	-.030	-.302	.69941	.030	1
S2	.80000	.75710	-.043	-5.36	.05317	.000	1

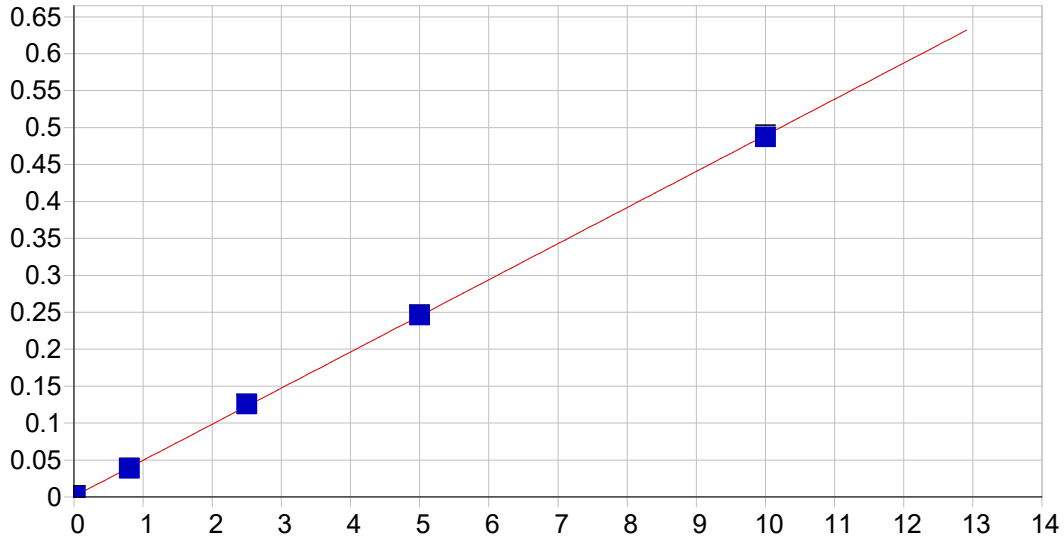


Pb 220.353 {453}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000195	Re-Slope:	1.000000
A1 (Gain):	0.224207	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.001260		
Predicted MQL:	0.004199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00020	.000	1
S1	.01200	.01196	-.000	-.350	.00282	.000	1
S3	2.5000	2.5465	.046	1.86	.57056	.002	1
S4	5.0000	5.0083	.008	.166	1.1219	.003	1
S5	10.000	9.9568	-.043	-.432	2.2303	.006	1
S2	.80000	.78849	-.012	-1.44	.17680	.001	1

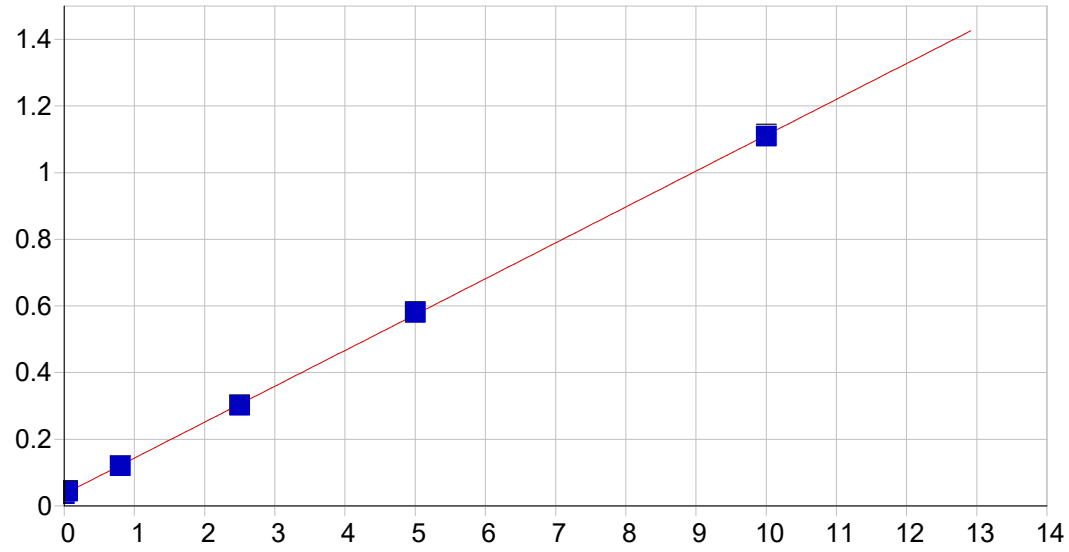


Se 196.090 {472}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000634	Re-Slope:	1.000000
A1 (Gain):	0.048887	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.003834		
Predicted MQL:	0.012782		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00063	.000	1
S1	.02000	.01468	-.005	-26.6	.00135	.000	1
S3	2.5000	2.5544	.054	2.17	.12547	.000	1
S4	5.0000	5.0197	.020	.394	.24596	.001	1
S5	10.000	9.9531	-.047	-.469	.48707	.003	1
S2	.80000	.77815	-.022	-2.73	.03866	.000	1

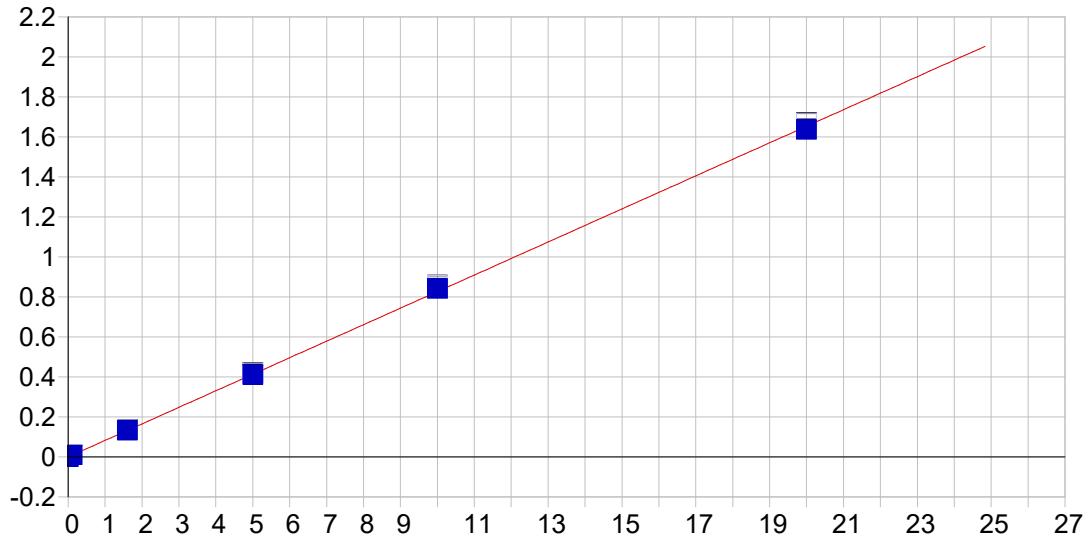


Sb 206.833 {463}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.035912	Re-Slope:	1.000000
A1 (Gain):	0.107642	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999453	Status:	OK.
Std Error of Est:	0.000132		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.03591	.000	1
S1	.05000	.08052	.031	61.0	.04459	.000	1
S3	2.5000	2.4655	-.034	-1.38	.30204	.001	1
S4	5.0000	5.0524	.052	1.05	.58122	.002	1
S5	10.000	9.9704	-.030	-.296	1.1121	.004	1
S2	.80000	.78126	-.019	-2.34	.12024	.001	1

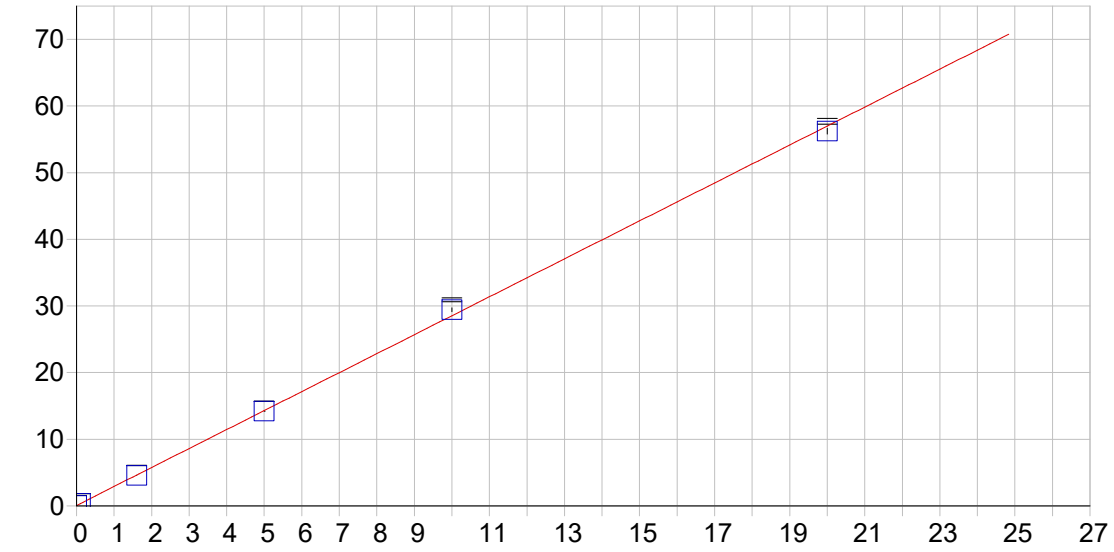


Al 396.152 { 85}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000133	Re-Slope:	1.000000
A1 (Gain):	0.082670	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	0.011608		
Predicted MQL:	0.038694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00013	.000	1
S1	.10000	.11982	.020	19.8	.01041	.001	1
S3	5.0000	4.9808	-.019	-.384	.41965	.001	1
S4	10.000	10.183	.183	1.83	.85775	.001	1
S5	20.000	19.807	-.193	-.967	1.6694	.003	1
S2	1.6000	1.6086	.009	.537	.13542	.001	1

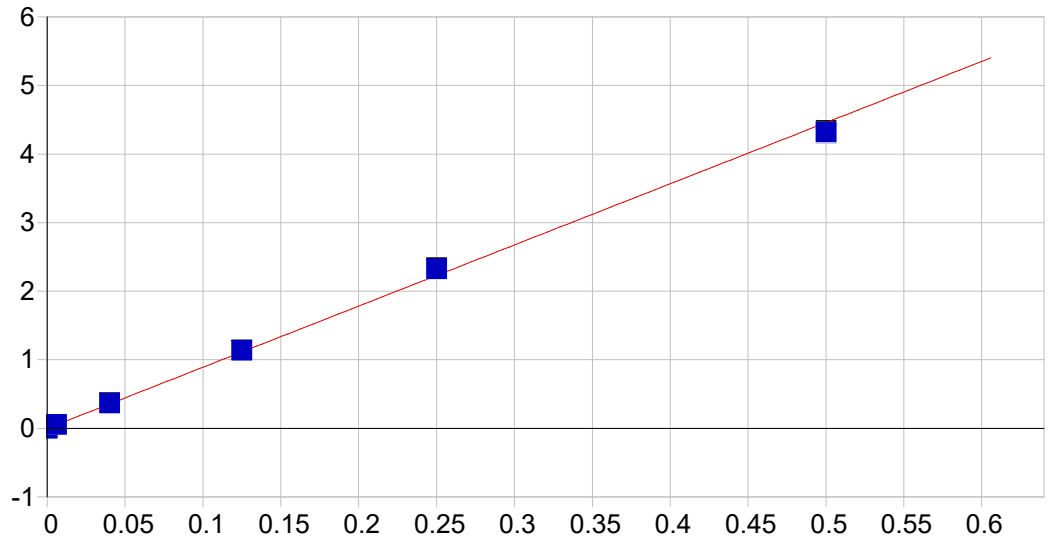


Ba 493.409 { 68}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.071285	Re-Slope:	1.000000
A1 (Gain):	2.846384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.004145		
Predicted MDL:	0.000853		
Predicted MQL:	0.002842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.07128	.002	1
S1	.10000	.10173	.002	1.73	.36084	.003	1
S3	5.0000	4.9705	-.029	-.590	14.219	.002	1
S4	10.000	10.317	.317	3.17	29.437	.270	1
S5	20.000	19.726	-.274	-1.37	56.219	.418	1
S2	1.6000	1.5847	-.015	-.954	4.5821	.006	1

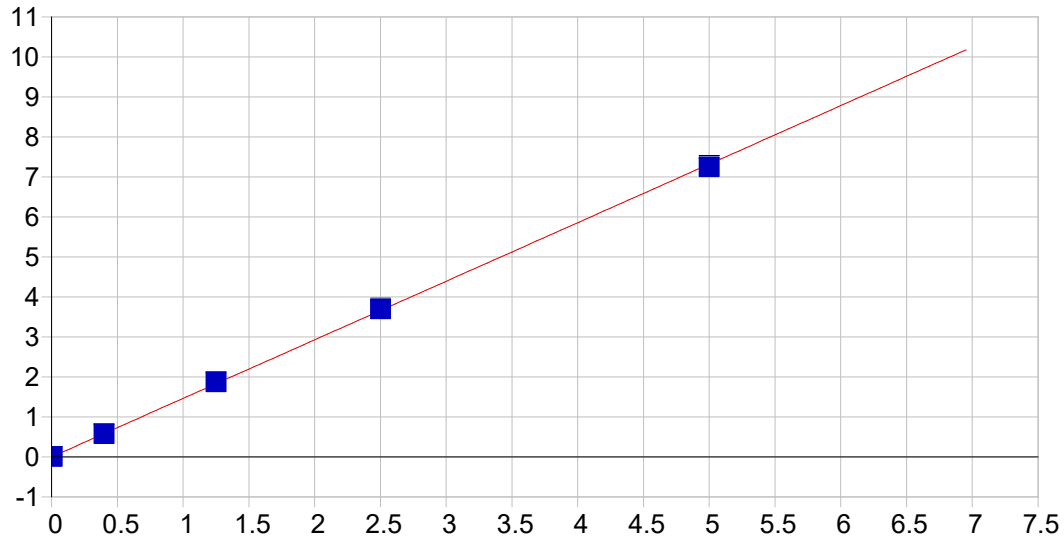


Be 234.861 {144}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001361	Re-Slope:	1.000000
A1 (Gain):	8.919864	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999377	Status:	OK.
Std Error of Est:	0.000902		
Predicted MDL:	0.000067		
Predicted MQL:	0.000224		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00137	.001	1
S1	.00600	.00645	.000	7.56	.05580	.001	1
S3	.12500	.12785	.003	2.28	1.1341	.004	1
S4	.25000	.26110	.011	4.44	2.3177	.015	1
S5	.50000	.48422	-.016	-3.16	4.2978	.025	1
S2	.04000	.04137	.001	3.43	.36608	.004	1

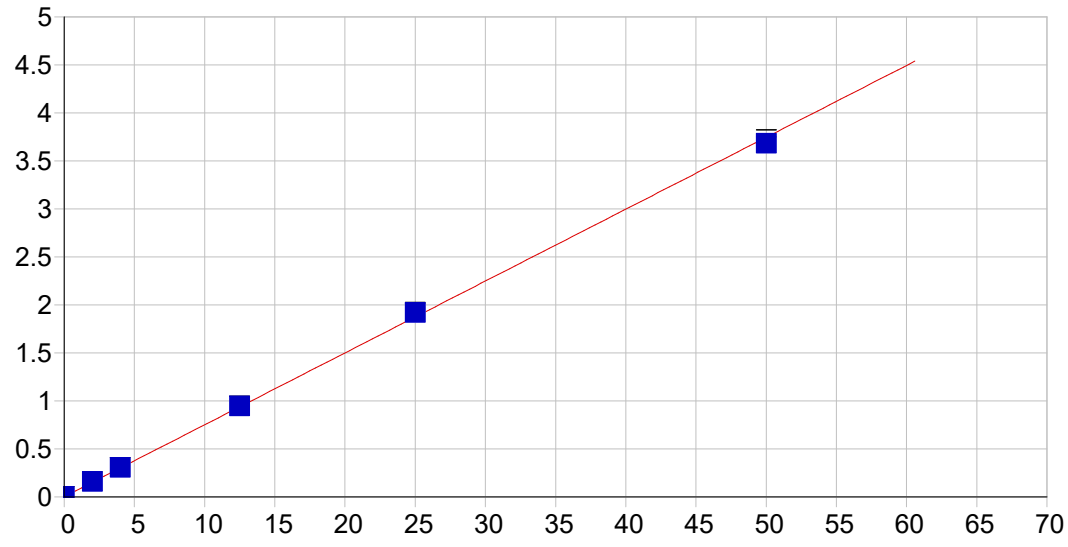


Cd 226.502 {449}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000997	Re-Slope:	1.000000
A1 (Gain):	1.464049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999912	Status:	OK.
Std Error of Est:	0.000176		
Predicted MDL:	0.000178		
Predicted MQL:	0.000592		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00100	.000	1
S1	.00600	.00567	-.000	-5.46	.00734	.000	1
S3	1.2500	1.2789	.029	2.31	1.8727	.003	1
S4	2.5000	2.5277	.028	1.11	3.7023	.016	1
S5	5.0000	4.9512	-.049	-.976	7.2529	.031	1
S2	.40000	.39249	-.008	-1.88	.57403	.002	1

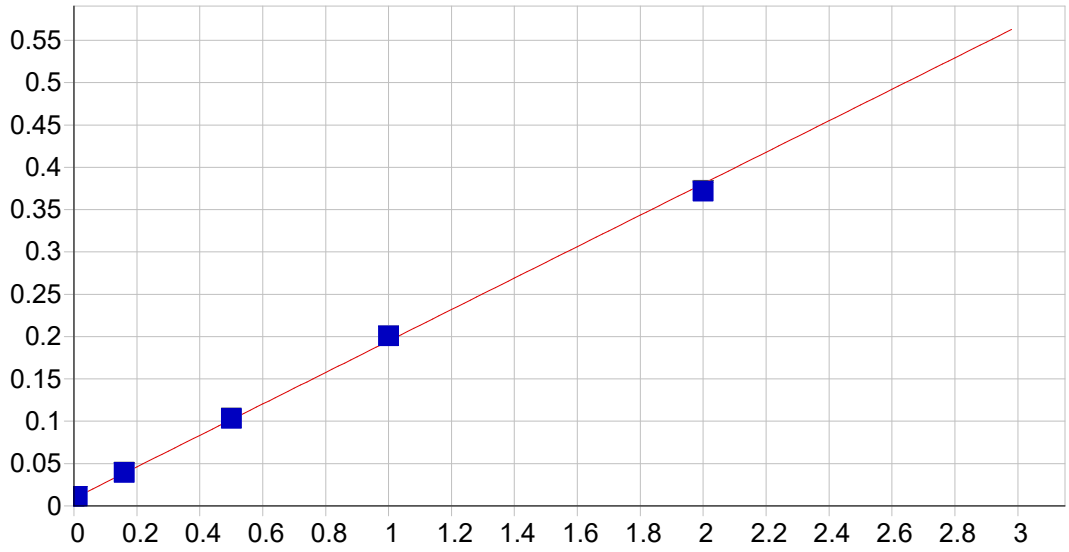


Ca 373.690 { 90}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002635	Re-Slope:	1.000000
A1 (Gain):	0.074861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000749		
Predicted MDL:	0.010712		
Predicted MQL:	0.035706		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00262	.000	1
S2	4.0000	4.0597	.060	1.49	.30655	.001	1
S3	12.500	12.590	.090	.722	.94516	.001	1
S4	25.000	25.594	.594	2.38	1.9186	.005	1
S5	50.000	49.168	-.832	-1.66	3.6834	.037	1
S1	2.0000	2.0887	.089	4.43	.15900	.000	1

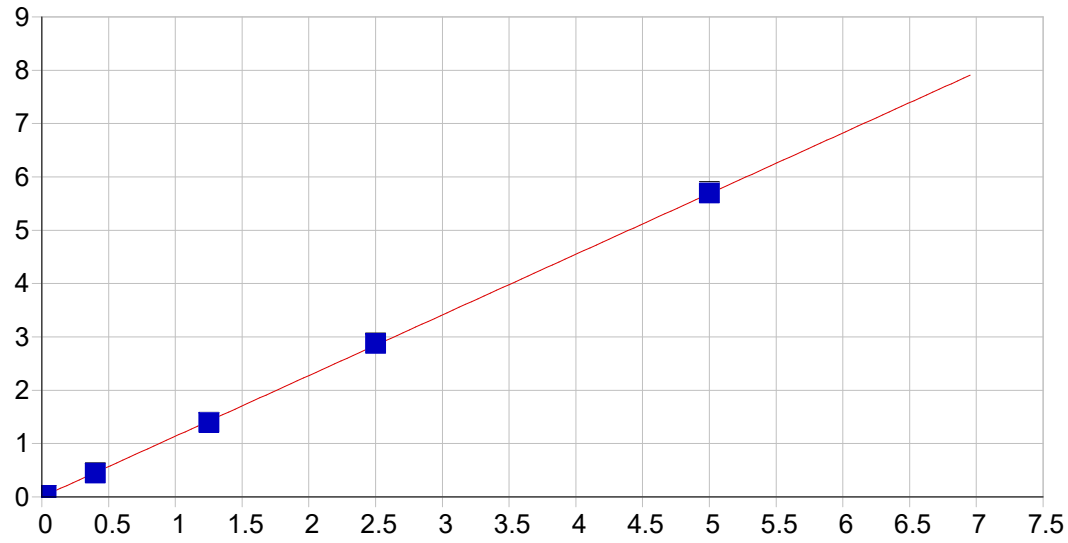


Cr 267.716 {126}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008955	Re-Slope:	1.000000
A1 (Gain):	0.185865	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999487	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00895	.000	1
S1	.01000	.01365	.004	36.5	.01149	.000	1
S3	.50000	.50794	.008	1.59	.10340	.000	1
S4	1.0000	1.0328	.033	3.28	.20099	.000	1
S5	2.0000	1.9520	-.048	-2.40	.37192	.001	1
S2	.16000	.16359	.004	2.25	.03937	.000	1

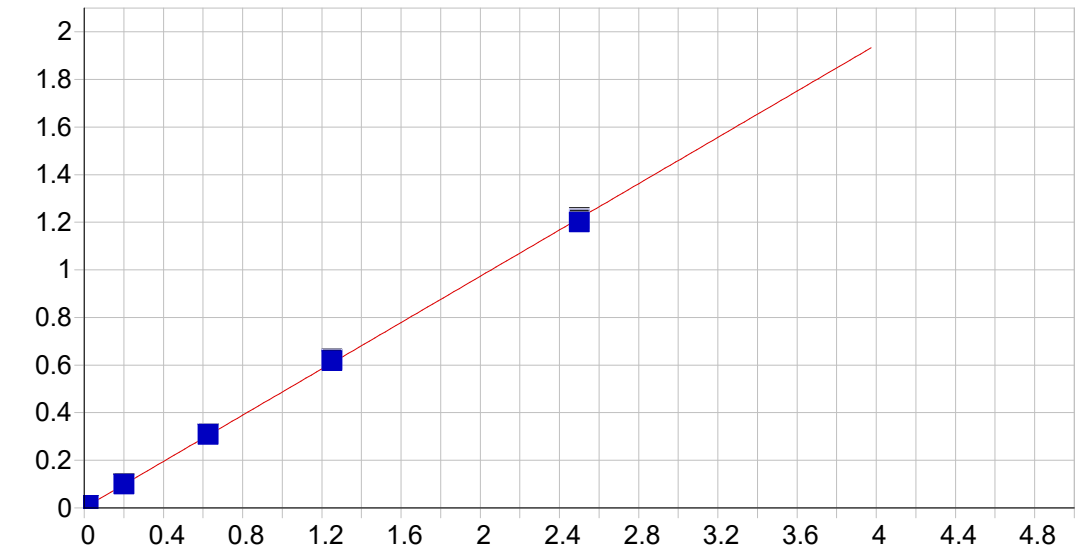


Co 228.616 {448}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000306	Re-Slope:	1.000000
A1 (Gain):	1.137266	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000251		
Predicted MDL:	0.000189		
Predicted MQL:	0.000630		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00031	.000	1
S1	.03000	.02966	-.000	-1.15	.03389	.000	1
S3	1.2500	1.2244	-.026	-2.05	1.3951	.002	1
S4	2.5000	2.5276	.028	1.11	2.8797	.005	1
S5	5.0000	5.0080	.008	.161	5.7054	.017	1
S2	.40000	.39030	-.010	-2.42	.44496	.003	1

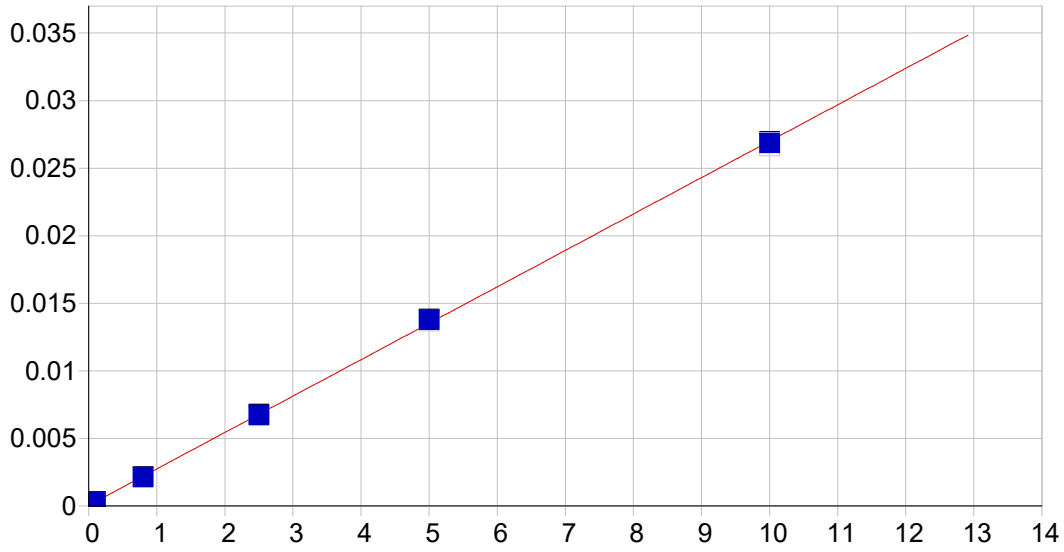


Cu 224.700 {450}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000821	Re-Slope:	1.000000
A1 (Gain):	0.486257	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000555		
Predicted MQL:	0.001850		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00082	.000	1
S1	.02000	.02109	.001	5.45	.01122	.000	1
S3	.62500	.63181	.007	1.09	.31144	.000	1
S4	1.2500	1.2698	.020	1.58	.62506	.000	1
S5	2.5000	2.4684	-.032	-1.27	1.2147	.005	1
S2	.20000	.20395	.004	1.97	.10108	.001	1

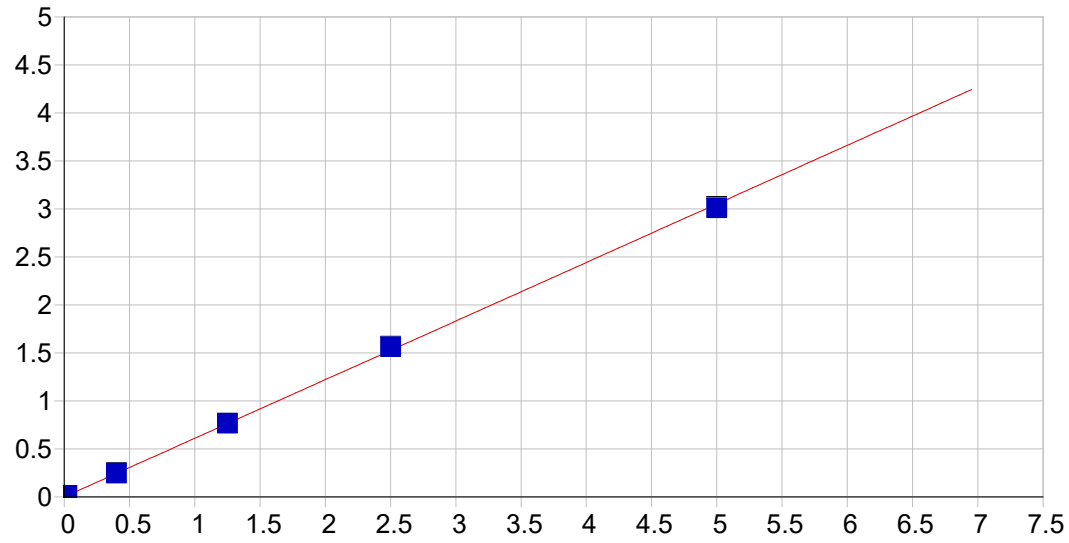


Fe 240.488 {140}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000044	Re-Slope:	1.000000
A1 (Gain):	0.002695	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.008854		
Predicted MQL:	0.029512		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.10000	.10593	.006	5.93	.00033	.000	1
S3	2.5000	2.4759	-.024	-.964	.00666	.000	1
S4	5.0000	5.0951	.095	1.90	.01366	.000	1
S5	10.000	9.9483	-.052	-.517	.02663	.000	1
S2	.80000	.77474	-.025	-3.16	.00211	.000	1

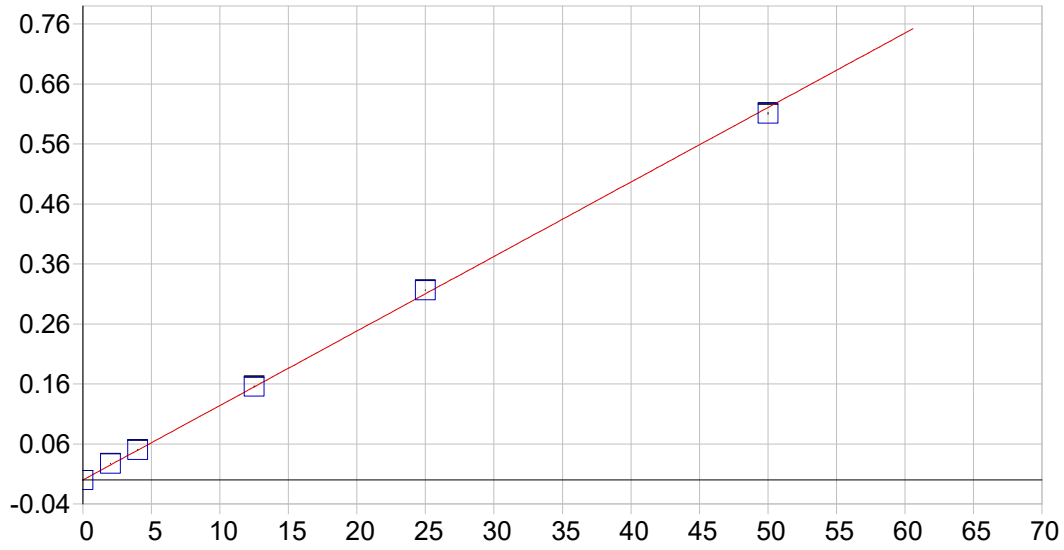


Mn 257.610 {131}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000643	Re-Slope:	1.000000
A1 (Gain):	0.610286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000169		
Predicted MDL:	0.000502		
Predicted MQL:	0.001672		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00064	.000	1
S1	.02000	.02125	.001	6.27	.01362	.000	1
S3	1.2500	1.2533	.003	.266	.76568	.001	1
S4	2.5000	2.5607	.061	2.43	1.5637	.005	1
S5	5.0000	4.9305	-.069	-1.39	3.0103	.014	1
S2	.40000	.40416	.004	1.04	.24734	.001	1

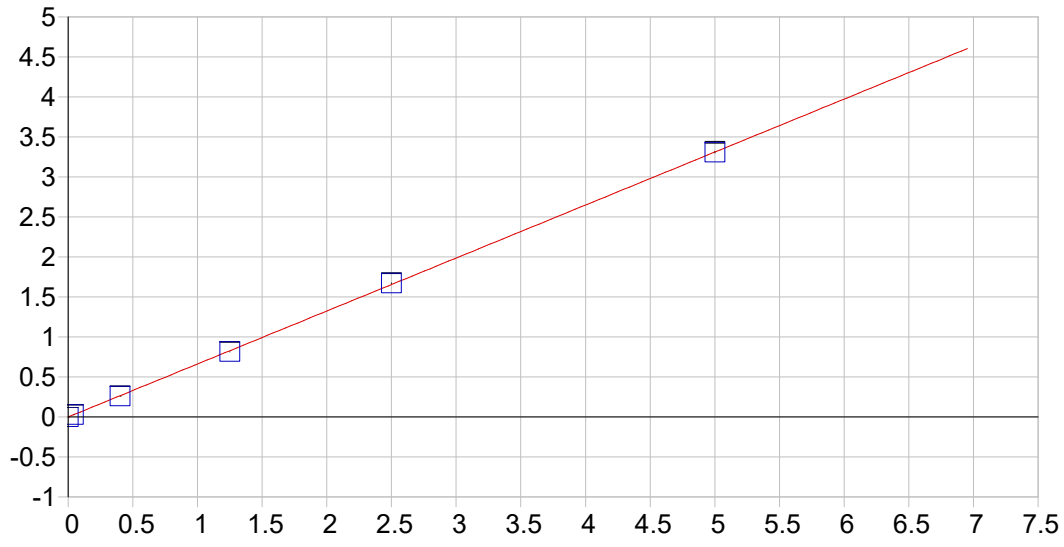


Mg 279.079 {121}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000111	Re-Slope:	1.000000
A1 (Gain):	0.012416	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.028188		
Predicted MQL:	0.093960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00026	-.000	.000	-.00011	.000	1
S2	4.0000	4.0513	.051	1.28	.05019	.000	1
S3	12.500	12.546	.046	.372	.15567	.001	1
S4	25.000	25.473	.473	1.89	.31617	.000	1
S5	50.000	49.210	-.790	-1.58	.61090	.001	1
S1	2.0000	2.2196	.220	11.0	.02745	.000	1

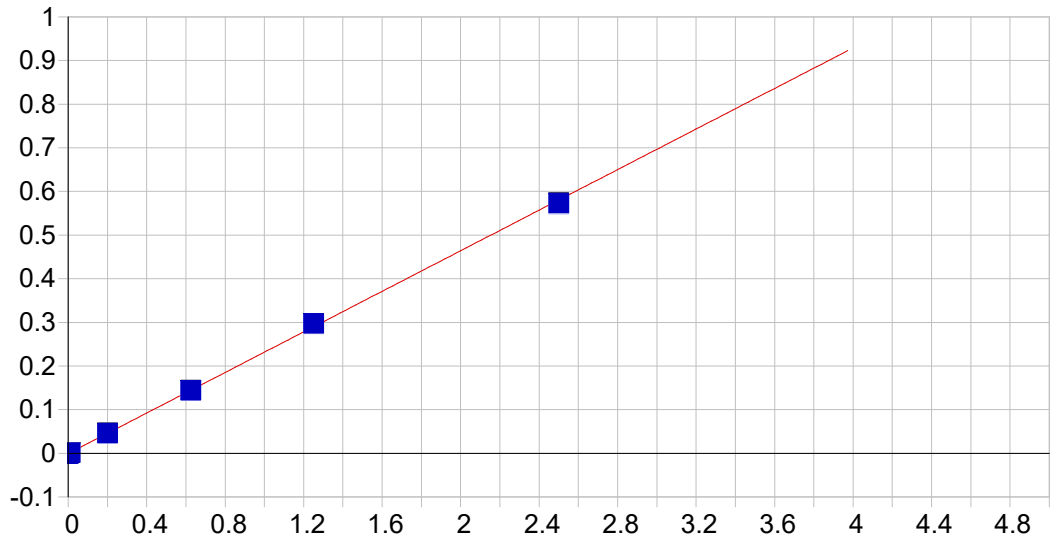


Ni 231.604 {446}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000619	Re-Slope:	1.000000
A1 (Gain):	0.662217	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000134		
Predicted MDL:	0.000345		
Predicted MQL:	0.001149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00062	.000	1
S1	.04000	.04095	.001	2.38	.02650	.000	1
S3	1.2500	1.2306	-.019	-1.55	.81430	.001	1
S4	2.5000	2.5264	.026	1.06	1.6724	.004	1
S5	5.0000	4.9977	-.002	-.045	3.3090	.011	1
S2	.40000	.39429	-.006	-1.43	.26049	.001	1

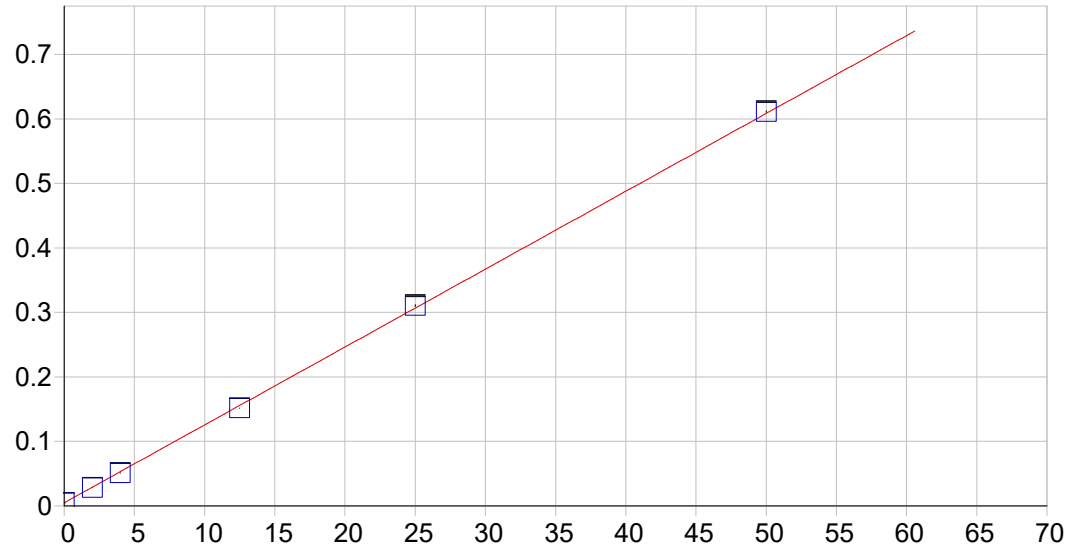


Ag 328.068 {103}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000774	Re-Slope:	1.000000
A1 (Gain):	0.232449	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999863	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000531		
Predicted MQL:	0.001771		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00077	.000	1
S1	.01000	.00936	-.001	-6.38	.00138	.000	1
S3	.62500	.62452	-.000	-.077	.14369	.000	1
S4	1.2500	1.2818	.032	2.55	.29577	.000	1
S5	2.5000	2.4687	-.031	-1.25	.57025	.001	1
S2	.20000	.20064	.001	.318	.04564	.000	1

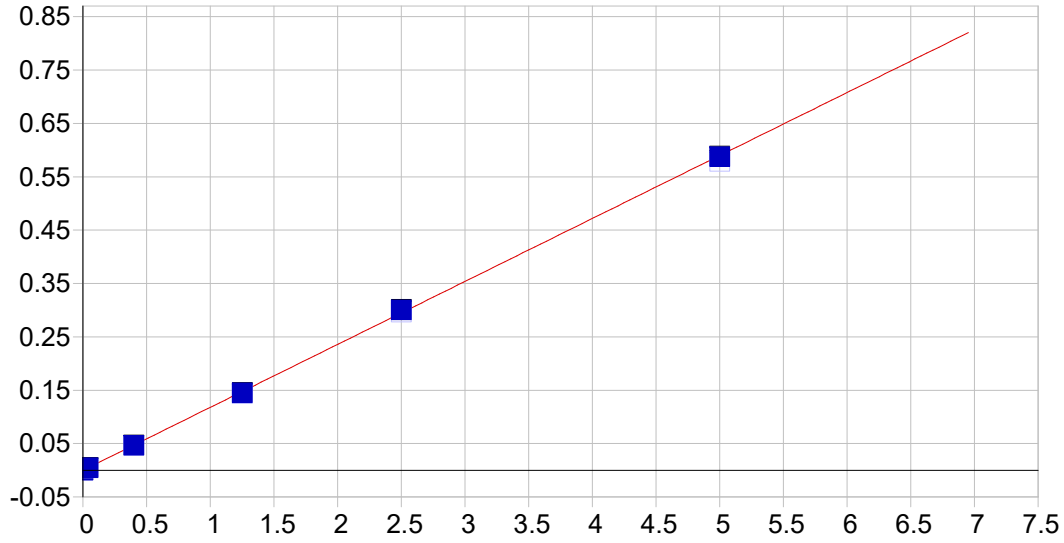


Na 589.592 { 57}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004904	Re-Slope:	1.000000
A1 (Gain):	0.012073	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999874	Status:	OK.
Std Error of Est:	0.000101		
Predicted MDL:	0.014486		
Predicted MQL:	0.048285		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00016	.000	.000	.00491	.000	1
S2	4.0000	3.8369	-.163	-4.08	.05123	.000	1
S3	12.500	12.152	-.348	-2.79	.15161	.000	1
S4	25.000	25.327	.327	1.31	.31067	.001	1
S5	50.000	50.242	.242	.483	.61146	.001	1
S1	2.0000	1.9428	-.057	-2.86	.02836	.000	1

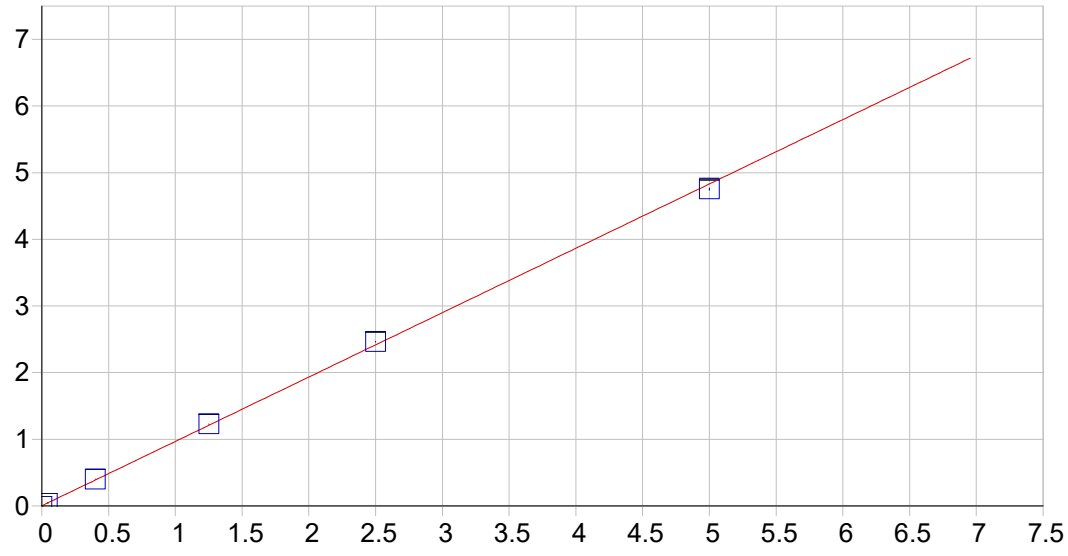


V 292.402 {115}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000181	Re-Slope:	1.000000
A1 (Gain):	0.118006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.003237		
Predicted MQL:	0.010790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.04000	.03875	-.001	-3.13	.00422	.000	1
S3	1.2500	1.2304	-.020	-1.57	.14286	.000	1
S4	2.5000	2.5474	.047	1.90	.29613	.001	1
S5	5.0000	4.9781	-.022	-.437	.57867	.002	1
S2	.40000	.39529	-.005	-1.18	.04578	.000	1

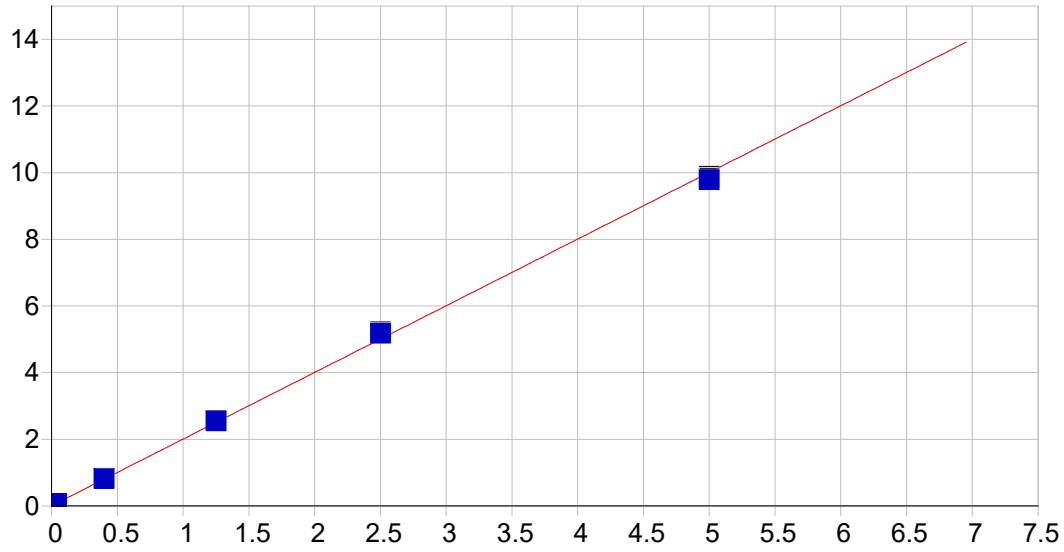


Zn 206.200 {464}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001757	Re-Slope:	1.000000
A1 (Gain):	0.965850	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999838	Status:	OK.
Std Error of Est:	0.000408		
Predicted MDL:	0.000173		
Predicted MQL:	0.000575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00175	.000	1
S1	.04000	.04195	.002	4.86	.04227	.000	1
S3	1.2500	1.2685	.018	1.48	1.2269	.001	1
S4	2.5000	2.5486	.049	1.94	2.4633	.005	1
S5	5.0000	4.9190	-.081	-1.62	4.7528	.013	1
S2	.40000	.41193	.012	2.98	.39962	.002	1

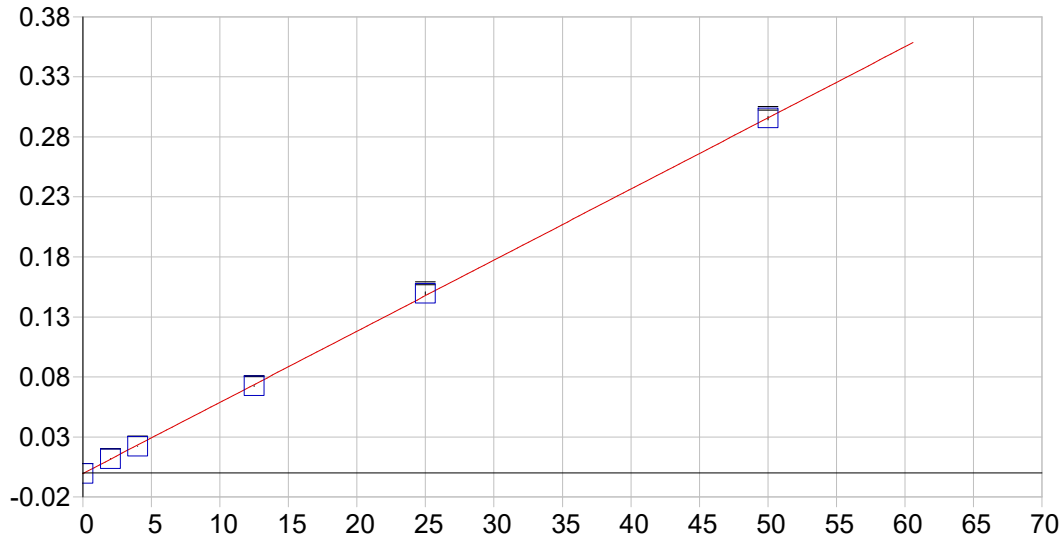


Zn 213.856 {158}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004431	Re-Slope:	1.000000
A1 (Gain):	2.000877	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.001178		
Predicted MDL:	0.000285		
Predicted MQL:	0.000951		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00442	.000	1
S1	.04000	.04180	.002	4.50	.08863	.001	1
S3	1.2500	1.2673	.017	1.38	2.5575	.002	1
S4	2.5000	2.5843	.084	3.37	5.2100	.016	1
S5	5.0000	4.8888	-.111	-2.22	9.8560	.032	1
S2	.40000	.40782	.008	1.95	.82599	.002	1

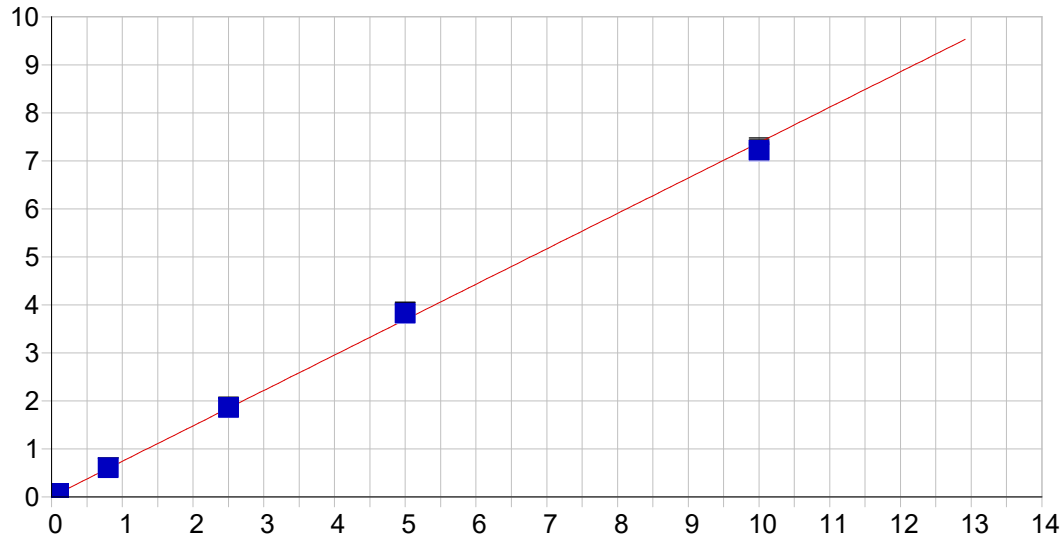


K 766.490 { 44}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000466	Re-Slope:	1.000000
A1 (Gain):	0.005926	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.034549		
Predicted MQL:	0.115164		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00047	.000	1
S2	4.0000	3.8338	-.166	-4.15	.02225	.000	1
S3	12.500	12.303	-.197	-1.58	.07244	.000	1
S4	25.000	25.332	.332	1.33	.14965	.001	1
S5	50.000	49.964	-.036	-.071	.29561	.001	1
S1	2.0000	2.0671	.067	3.35	.01178	.000	1

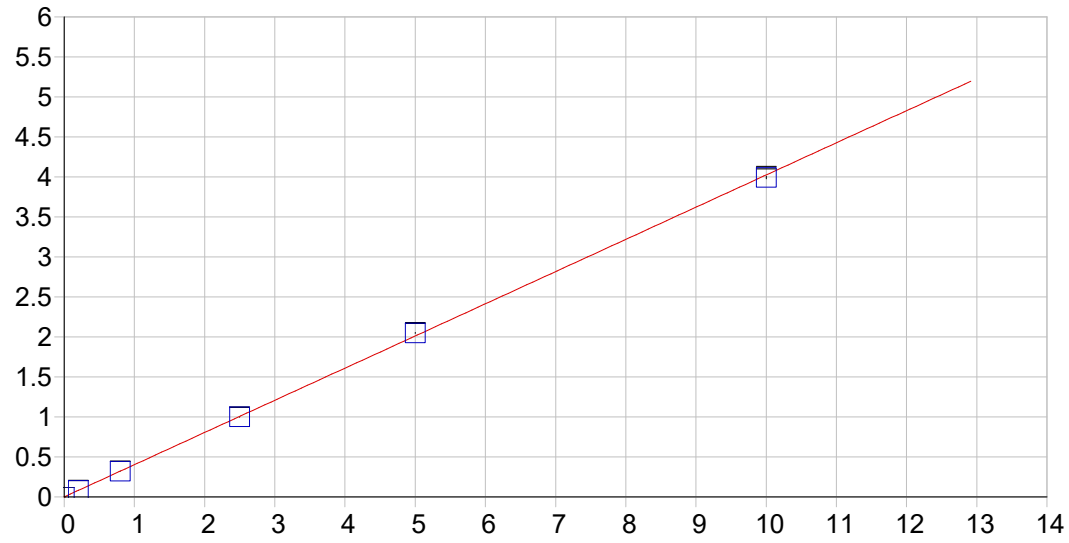


B 249.678 {135}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004501	Re-Slope:	1.000000
A1 (Gain):	0.737552	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999668	Status:	OK.
Std Error of Est:	0.000994		
Predicted MDL:	0.000848		
Predicted MQL:	0.002826		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00450	.000	1
S1	.10000	.10400	.004	4.00	.08077	.000	1
S3	2.5000	2.5189	.019	.757	1.8557	.008	1
S4	5.0000	5.1847	.185	3.69	3.8152	.024	1
S5	10.000	9.7803	-.220	-2.20	7.1914	.051	1
S2	.80000	.81202	.012	1.50	.60128	.004	1

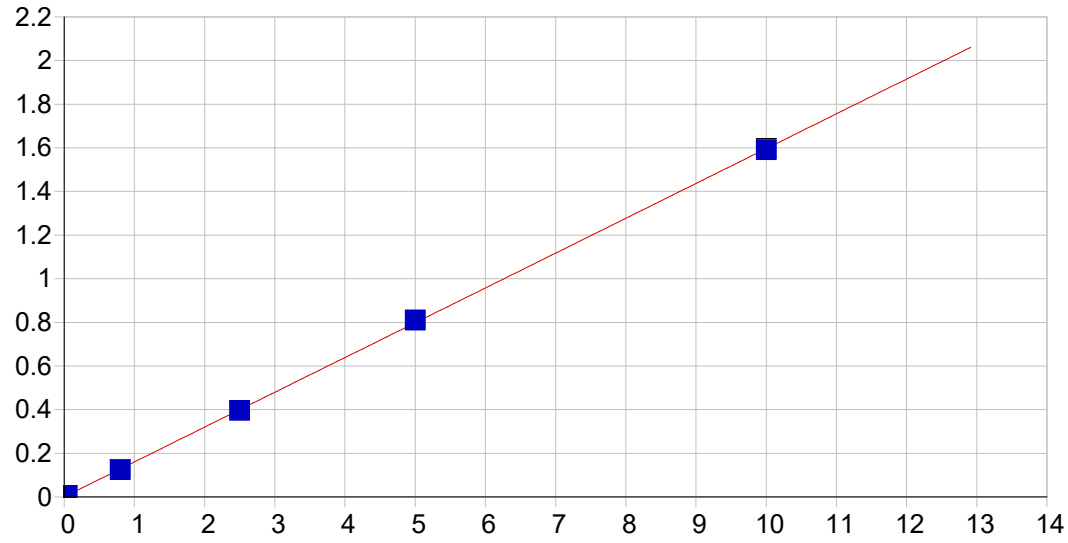


Mo 202.030 {467}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000336	Re-Slope:	1.000000
A1 (Gain):	0.402328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000351		
Predicted MDL:	0.000407		
Predicted MQL:	0.001358		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00033	.000	1
S1	.20000	.20294	.003	1.47	.08198	.000	1
S3	2.5000	2.4810	-.019	-.761	.99851	.001	1
S4	5.0000	5.0940	.094	1.88	2.0498	.004	1
S5	10.000	9.9232	-.077	-.768	3.9927	.015	1
S2	.80000	.79894	-.001	-.133	.32177	.001	1

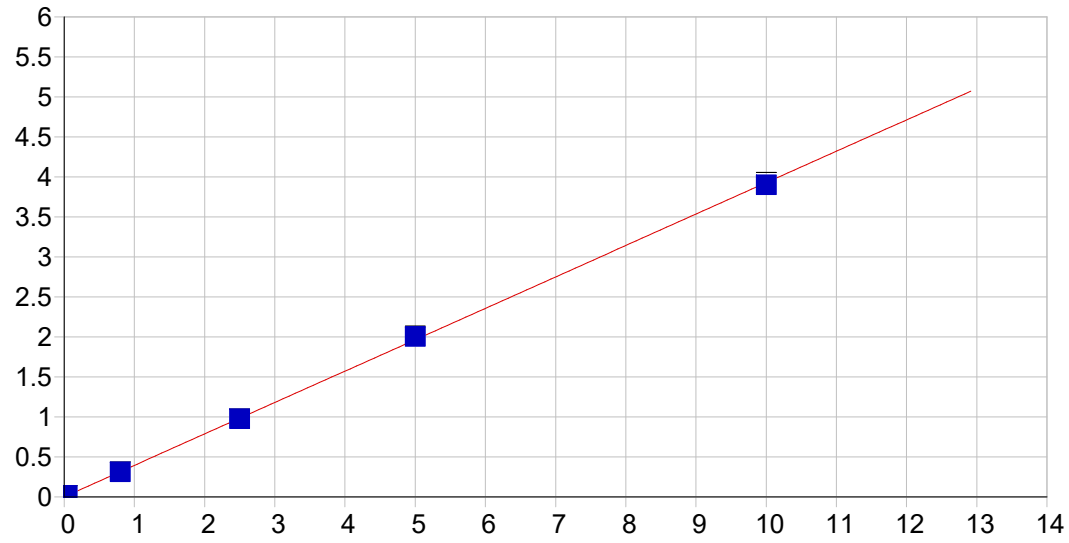


Sn 189.989 {478}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000604	Re-Slope:	1.000000
A1 (Gain):	0.159546	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.000636		
Predicted MQL:	0.002121		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00060	.000	1
S1	.04000	.04140	.001	3.50	.00720	.000	1
S3	2.5000	2.4750	-.025	-.998	.39508	.001	1
S4	5.0000	5.0695	.070	1.39	.80861	.001	1
S5	10.000	9.9723	-.028	-.277	1.5900	.005	1
S2	.80000	.78170	-.018	-2.29	.12519	.001	1

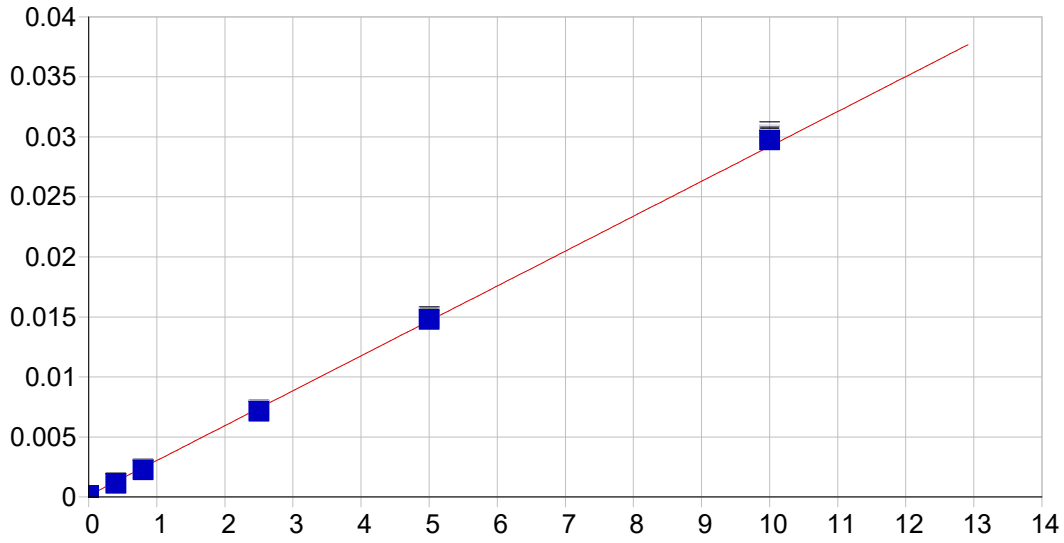


Ti 336.121 {100}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001629	Re-Slope:	1.000000
A1 (Gain):	0.392614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000160		
Predicted MDL:	0.001491		
Predicted MQL:	0.004968		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00163	.000	1
S1	.04000	.03879	-.001	-3.03	.01685	.001	1
S3	2.5000	2.4779	-.022	-.886	.97411	.001	1
S4	5.0000	5.0998	.100	2.00	2.0032	.007	1
S5	10.000	9.9324	-.068	-.676	3.8998	.031	1
S2	.80000	.79121	-.009	-1.10	.31216	.001	1

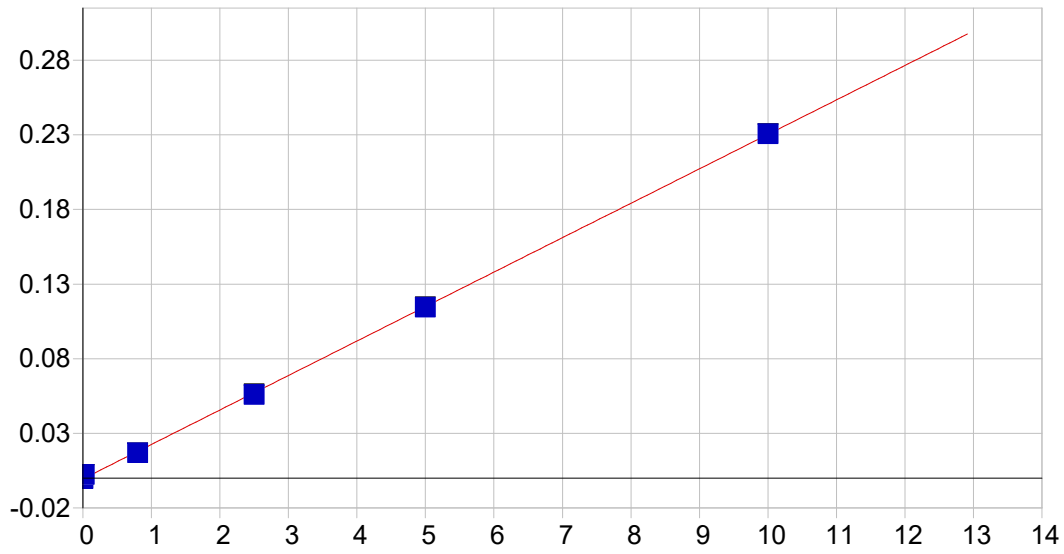


Si 288.158 {117}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000121	Re-Slope:	1.000000
A1 (Gain):	0.002909	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999471	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.013804		
Predicted MQL:	0.046015		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	.00012	.000	1
S1	.40000	.34606	-.054	-13.5	.00113	.000	1
S3	2.5000	2.4068	-.093	-3.73	.00723	.000	1
S4	5.0000	5.0390	.039	.780	.01500	.000	1
S5	10.000	10.178	.178	1.78	.03016	.000	1
S2	.80000	.72982	-.070	-8.77	.00228	.000	1

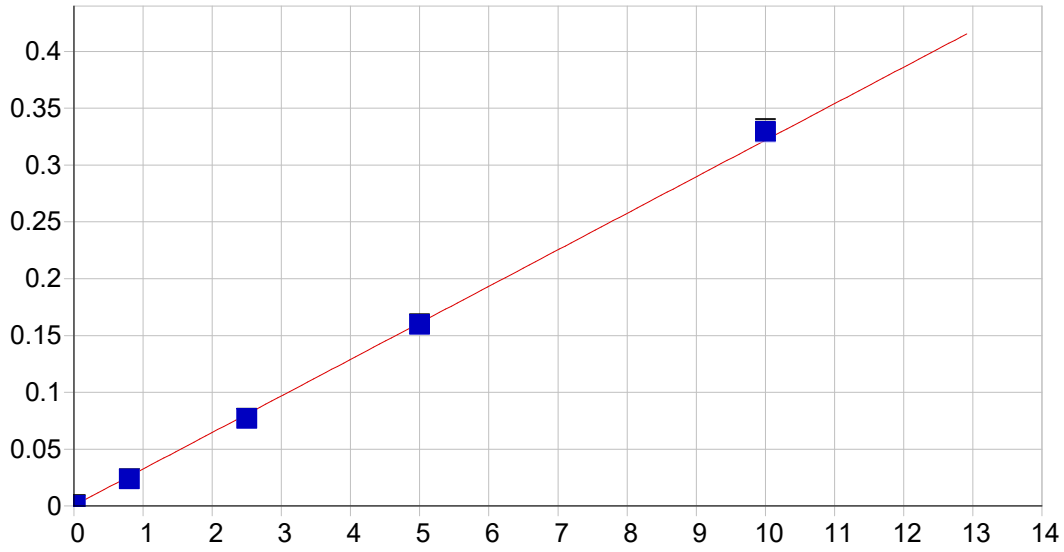


P 177.495 {490}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000555	Re-Slope:	1.000000
A1 (Gain):	0.023092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.986160	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.003039		
Predicted MQL:	0.010131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00010	-.000	.000	-.00056	.000	1
S1	.02000	.12135	.101	507.	.00225	.000	1
S3	2.5000	2.4480	-.052	-2.08	.05597	.000	1
S4	5.0000	4.9828	-.017	-.345	.11449	.000	1
S5	10.000	10.012	.012	.117	.23060	.000	1
S2	.80000	.75600	-.044	-5.50	.01690	.000	1

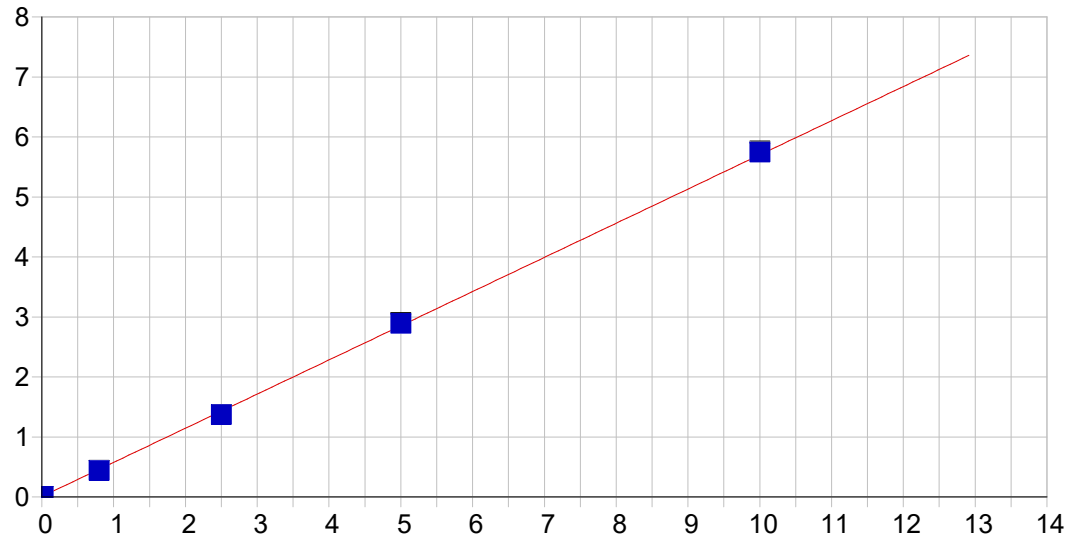


S 182.034 {485}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000321	Re-Slope:	1.000000
A1 (Gain):	0.032157	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999487	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002832		
Predicted MQL:	0.009439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00032	.000	1
S1	.02000	.02030	.000	1.51	.00095	.000	1
S3	2.5000	2.3787	-.121	-4.85	.07660	.000	1
S4	5.0000	4.9590	-.041	-.821	.15937	.000	1
S5	10.000	10.236	.236	2.36	.32865	.003	1
S2	.80000	.72582	-.074	-9.27	.02359	.000	1

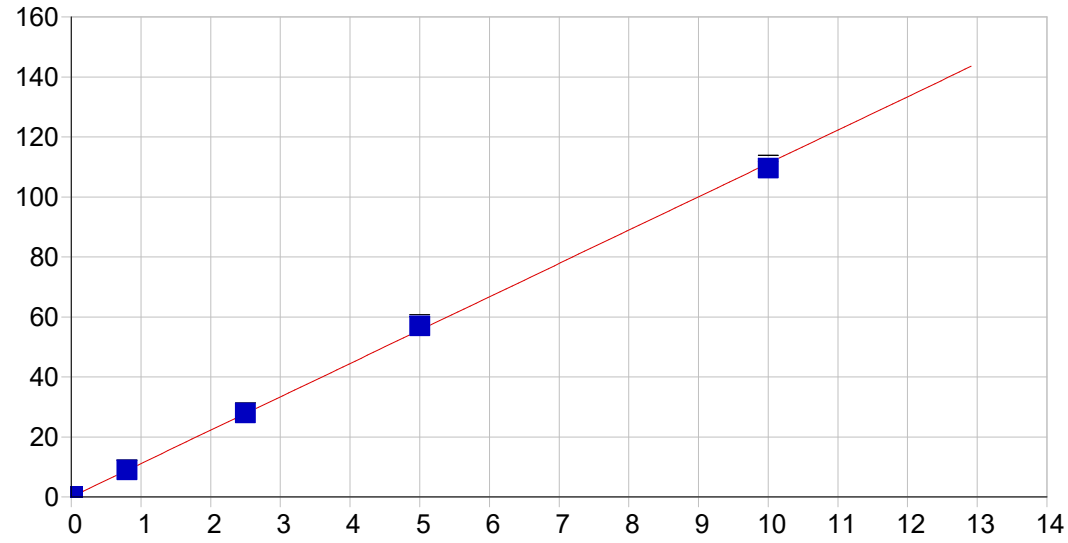


Li 670.784 { 50}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005301	Re-Slope:	1.000000
A1 (Gain):	0.569527	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999772	Status:	OK.
Std Error of Est:	0.000285		
Predicted MDL:	0.003427		
Predicted MQL:	0.011424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00530	.002	1
S5	10.000	10.079	.079	.791	5.7485	.017	1
S4	5.0000	5.0672	.067	1.34	2.8927	.010	1
S3	2.5000	2.3941	-.106	-4.23	1.3695	.002	1
S1	.02000	.01635	-.004	-18.2	.01480	.001	1
S2	.80000	.76325	-.037	-4.59	.44022	.001	1

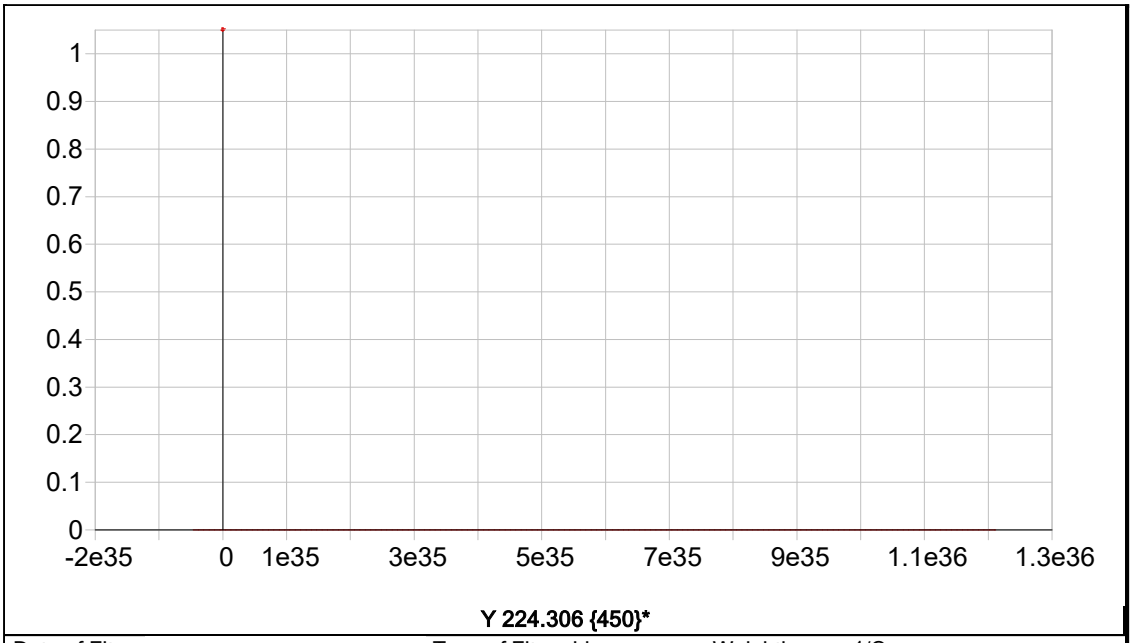


Sr 407.771 { 83}

Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001139	Re-Slope:	1.000000
A1 (Gain):	11.115098	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999848	Status:	OK.
Std Error of Est:	0.004547		
Predicted MDL:	0.000091		
Predicted MQL:	0.000303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00113	.001	1
S1	.02000	.02064	.001	3.22	.23166	.001	1
S3	2.5000	2.5141	.014	.564	27.972	.157	1
S4	5.0000	5.1258	.126	2.52	57.028	.379	1
S5	10.000	9.8508	-.149	-1.49	109.60	.966	1
S2	.80000	.80869	.009	1.09	8.9983	.012	1

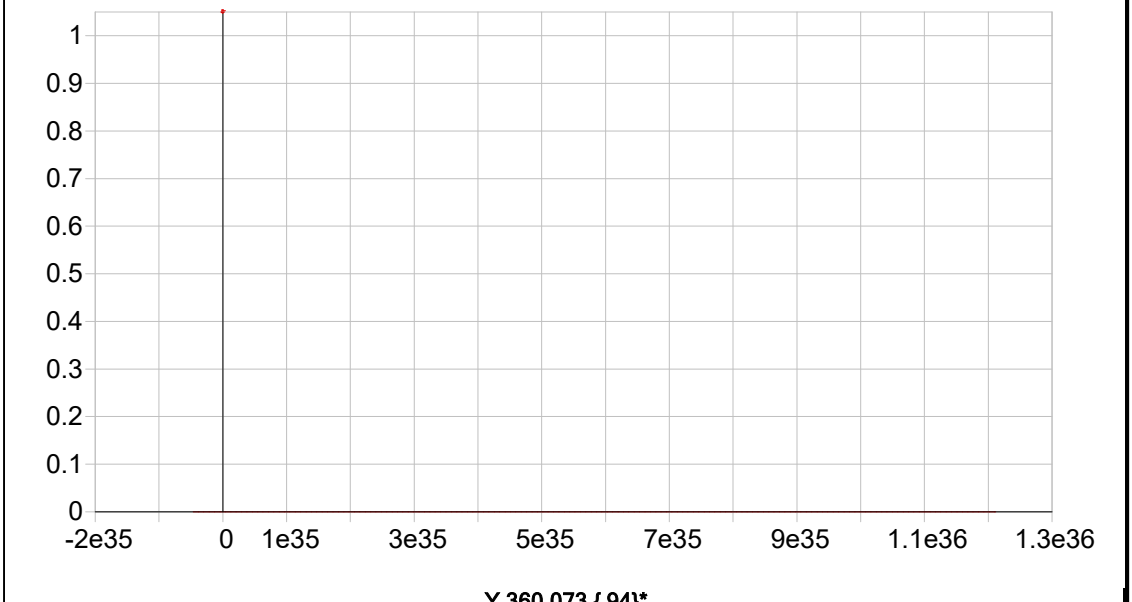


Y 224.306 {450}*

Date of Fit:	7/23/2025 12:15:38	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}*

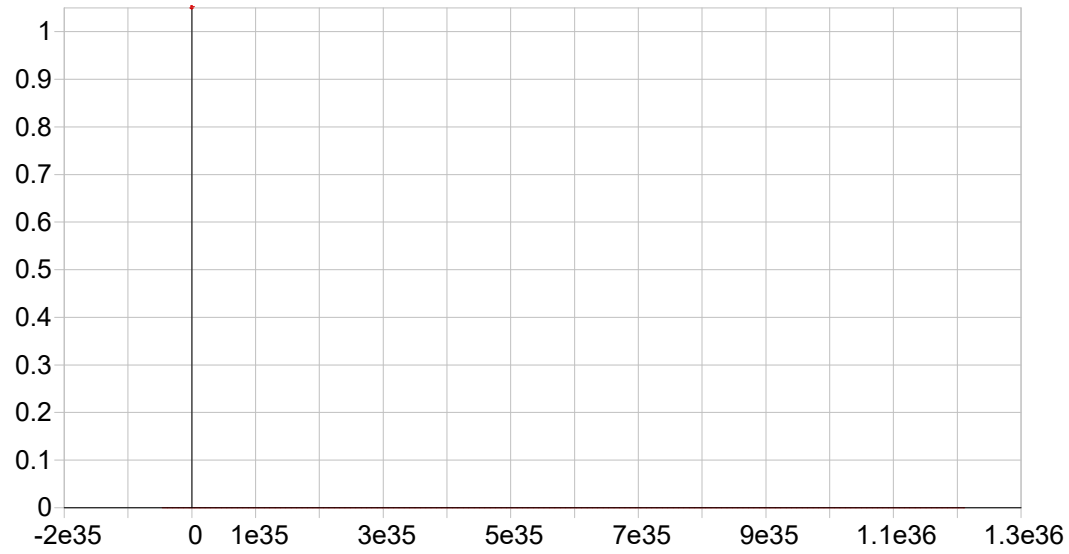
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

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					

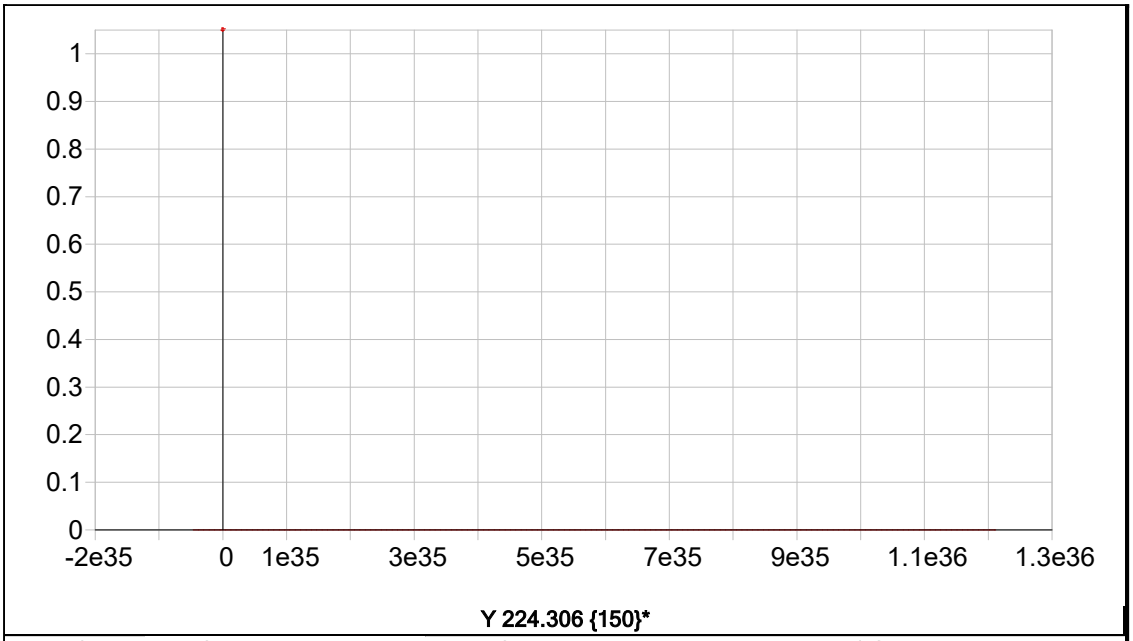
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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

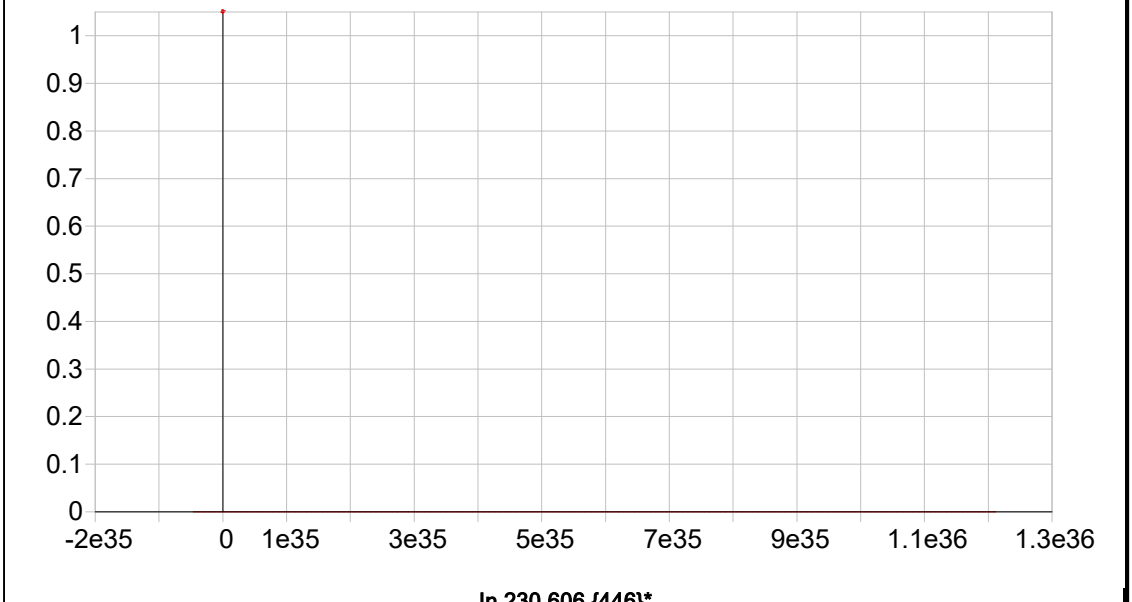


Y 224.306 {150}*

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

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:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S0 Acquired: 7/23/2025 11:28:34 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**-.00003**	**.00012**	**.00020**	**.00063**	**.03591**	**-.00013**	**.07128**	**-.00137**
Stddev	.00005	.00008	.00017	.00000	.00024	.00047	.00162	.00059
%RSD	191.65	66.379	86.771	.21002	.65826	348.32	2.2741	42.890
#1	.00003	.00006	.00001	.00063	.03571	-.00007	.07231	-.00164
#2	-.00004	.00021	.00023	.00063	.03584	-.00063	.06941	-.00177
#3	-.00007	.00009	.00035	.00064	.03617	.00030	.07212	-.00070

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	**-.00100**	**.00262**	**.00895**	**.00031**	**.00082**	**.00004**	**.00064**	**-.00011**
Stddev	.00003	.00028	.00006	.00008	.00012	.00002	.00004	.00022
%RSD	2.9663	10.521	.70109	26.884	14.946	48.034	6.0382	188.64
#1	-.00103	.00231	.00891	.00026	.00068	.00003	.00060	-.00025
#2	-.00099	.00280	.00903	.00026	.00090	.00007	.00066	.00013
#3	-.00097	.00276	.00893	.00040	.00088	.00004	.00067	-.00023

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	**-.00062**	**-.00077**	**.00491**	**-.00018**	**.00442**	**-.00047**	**.00450**	**.00033**
Stddev	.00031	.00008	.00010	.00010	.00037	.00017	.00017	.00009
%RSD	49.710	9.9748	2.0779	57.333	8.3478	36.973	3.8390	27.630
#1	-.00086	-.00075	.00499	-.00026	.00479	-.00049	.00439	.00034
#2	-.00027	-.00071	.00493	-.00021	.00405	-.00028	.00440	.00024
#3	-.00072	-.00086	.00479	-.00006	.00443	-.00063	.00469	.00043

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	**.00060**	**.00163**	**.00012**	**-.00056**	**.00032**	**.00530**	**.00113**
Stddev	.00012	.00014	.00003	.00005	.00010	.00159	.00104
%RSD	20.103	8.8936	24.732	8.4439	30.071	29.944	92.479
#1	.00054	.00164	.00010	-.00050	.00032	.00695	.00009
#2	.00074	.00148	.00011	-.00058	.00022	.00518	.00111
#3	.00053	.00177	.00016	-.00059	.00042	.00378	.00217

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S0 Acquired: 7/23/2025 11:28:34 Type: Cal
Method: 6010-200.7 NEW(v56) 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	5553.6	87073.	8143.7	4686.7	6931.0
Stddev	45.8	401.	6.5	27.8	54.7
%RSD	.82467	.45996	.07995	.59344	.78871
#1	5575.1	87513.	8150.4	4710.3	6961.0
#2	5584.7	86731.	8143.2	4693.8	6964.1
#3	5501.0	86974.	8137.4	4656.1	6867.9

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S1 Acquired: 7/23/2025 11:32:57 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**.00070**	**.00271**	**.00282**	**.00135**	**.04459**	**.01041**	**.36084**	**.05580**
Stddev	.00011	.00016	.00031	.00023	.00012	.00050	.00319	.00065
%RSD	15.552	5.8462	11.036	16.777	.27965	4.8391	.88423	1.1672
#1	.00082	.00287	.00261	.00153	.04456	.01056	.35819	.05514
#2	.00068	.00255	.00268	.00142	.04448	.00985	.35995	.05644
#3	.00061	.00271	.00318	.00110	.04473	.01083	.36438	.05582

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	**.00734**	**.15900**	**.01149**	**.03389**	**.01122**	**.00033**	**.01362**	**.02745**
Stddev	.00026	.00022	.00014	.00021	.00010	.00001	.00027	.00016
%RSD	3.5987	.14049	1.2065	.60582	.87666	2.0107	2.0013	.58370
#1	.00745	.15879	.01150	.03366	.01112	.00033	.01358	.02755
#2	.00704	.15923	.01163	.03394	.01131	.00033	.01391	.02726
#3	.00753	.15897	.01135	.03406	.01123	.00032	.01337	.02753

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	**.02650**	**.00138**	**.02836**	**.00422**	**.08863**	**.01178**	**.08077**	**.08198**
Stddev	.00020	.00003	.00028	.00025	.00065	.00016	.00034	.00028
%RSD	.76082	2.3285	.99770	5.8300	.73371	1.3831	.42694	.34755
#1	.02636	.00140	.02865	.00408	.08792	.01162	.08058	.08197
#2	.02641	.00134	.02809	.00407	.08876	.01194	.08057	.08170
#3	.02673	.00140	.02833	.00450	.08920	.01179	.08117	.08227

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	**.00720**	**.01685**	**.00113**	**.00225**	**.00095**	**.01480**	**.23166**
Stddev	.00009	.00099	.00002	.00003	.00004	.00098	.00073
%RSD	1.1824	5.8937	2.0418	1.3924	3.8484	6.6170	.31675
#1	.00713	.01777	.00116	.00228	.00099	.01469	.23192
#2	.00719	.01580	.00111	.00223	.00092	.01387	.23084
#3	.00730	.01697	.00112	.00223	.00094	.01582	.23224

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S1 Acquired: 7/23/2025 11:32:57 Type: Cal
Method: 6010-200.7 NEW(v56) 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	5387.8	84337.	7679.0	4542.7	6644.7
Stddev	11.3	288.	42.4	12.6	17.4
%RSD	.21057	.34148	.55200	.27675	.26194
#1	5393.9	84151.	7694.6	4528.3	6649.9
#2	5394.8	84191.	7631.1	4548.4	6659.0
#3	5374.7	84669.	7711.5	4551.5	6625.3

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S2 Acquired: 7/23/2025 11:37:19 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**.02897**	**.05317**	**.17680**	**.03866**	**.12024**	**.13542**	**4.5821**	**.36608**
Stddev	.00022	.00046	.00119	.00024	.00078	.00102	.0060	.00369
%RSD	.77252	.86083	.67300	.62930	.64639	.75260	.13191	1.0071
#1	.02881	.05301	.17582	.03841	.11956	.13437	4.5784	.36666
#2	.02889	.05282	.17645	.03868	.12007	.13547	4.5890	.36214
#3	.02923	.05369	.17812	.03890	.12109	.13640	4.5788	.36945

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	**.57403**	**.30655**	**.03937**	**.44496**	**.10108**	**.00211**	**.24734**	**.05019**
Stddev	.00213	.00088	.00030	.00265	.00059	.00001	.00107	.00046
%RSD	.37043	.28555	.75850	.59477	.58670	.70368	.43346	.92614
#1	.57417	.30604	.03943	.44366	.10062	.00211	.24637	.05021
#2	.57184	.30604	.03964	.44320	.10087	.00213	.24717	.04972
#3	.57608	.30756	.03905	.44800	.10175	.00210	.24849	.05065

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	**.26049**	**.04564**	**.05123**	**.04578**	**.82599**	**.02225**	**.60128**	**.32177**
Stddev	.00122	.00004	.00042	.00041	.00232	.00024	.00431	.00136
%RSD	.46852	.07873	.81325	.90651	.28121	1.0685	.71637	.42409
#1	.25963	.04566	.05129	.04597	.82436	.02229	.60049	.32129
#2	.25995	.04560	.05161	.04530	.82496	.02247	.59743	.32071
#3	.26188	.04565	.05078	.04607	.82865	.02200	.60593	.32331

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	**.12519**	**.31216**	**.00228**	**.01690**	**.02359**	**.44022**	**8.9983**
Stddev	.00063	.00128	.00003	.00017	.00024	.00080	.0122
%RSD	.50319	.41027	1.3837	1.0017	1.0131	.18161	.13574
#1	.12478	.31068	.00225	.01677	.02350	.43933	8.9909
#2	.12488	.31283	.00231	.01684	.02341	.44086	9.0124
#3	.12592	.31296	.00228	.01709	.02387	.44048	8.9916

Sample Name: S2 Acquired: 7/23/2025 11:37:19 Type: Cal
Method: 6010-200.7 NEW(v56) 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	5440.9	85664.	7880.6	4574.5	6643.4
Stddev	12.5	253.	45.4	9.3	12.9
%RSD	.23007	.29570	.57605	.20315	.19461
#1	5453.3	85701.	7907.1	4582.8	6651.5
#2	5441.2	85394.	7906.5	4576.2	6650.2
#3	5428.3	85897.	7828.2	4564.5	6628.4

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S3 Acquired: 7/23/2025 11:41:27 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**.09479**	**.18240**	**.57056**	**.12547**	**.30204**	**.41965**	**14.219**	**1.1341**
Stddev	.00026	.00469	.00198	.00032	.00096	.00090	.002	.0035
%RSD	.27631	2.5727	.34775	.25354	.31739	.21419	.01309	.31208
#1	.09449	.18241	.56875	.12511	.30119	.41914	14.218	1.1334
#2	.09496	.18709	.57024	.12572	.30183	.41911	14.219	1.1309
#3	.09492	.17770	.57268	.12559	.30308	.42069	14.221	1.1379

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8727**	**.94516**	**.10340**	**1.3951**	**.31144**	**.00666**	**.76568**	**.15567**
Stddev	.0029	.00058	.00020	.0025	.00045	.00008	.00116	.00114
%RSD	.15576	.06143	.19344	.17684	.14504	1.1971	.15211	.73380
#1	1.8743	.94576	.10344	1.3933	.31114	.00670	.76680	.15488
#2	1.8693	.94512	.10358	1.3942	.31122	.00671	.76576	.15515
#3	1.8745	.94460	.10318	1.3979	.31196	.00657	.76448	.15698

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	**.81430**	**.14369**	**.15161**	**.14286**	**2.5575**	**.07244**	**1.8557**	**.99851**
Stddev	.00109	.00015	.00037	.00039	.0016	.00031	.0076	.00147
%RSD	.13408	.10414	.24285	.27537	.06422	.43103	.40953	.14764
#1	.81306	.14372	.15184	.14250	2.5589	.07225	1.8531	.99683
#2	.81472	.14382	.15180	.14328	2.5580	.07280	1.8497	.99908
#3	.81512	.14353	.15118	.14279	2.5557	.07226	1.8643	.99961

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	**.39508**	**.97411**	**.00723**	**.05597**	**.07660**	**1.3695**	**27.972**
Stddev	.00061	.00132	.00000	.00041	.00036	.0025	.157
%RSD	.15332	.13587	.06085	.73367	.46491	.18248	.56035
#1	.39452	.97456	.00723	.05607	.07638	1.3694	27.795
#2	.39572	.97263	.00724	.05632	.07701	1.3671	28.093
#3	.39501	.97516	.00723	.05551	.07641	1.3721	28.029

Sample Name: S3 Acquired: 7/23/2025 11:41:27 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**5293.8**	**83228.**	**7860.0**	**4453.7**	**6335.5**
Stddev	2.2	291.	10.4	10.6	7.5
%RSD	.04216	.34920	.13221	.23844	.11816
#1	5296.4	83137.	7853.2	4452.2	6343.5
#2	5293.0	82993.	7871.9	4443.9	6328.7
#3	5292.1	83553.	7854.7	4465.0	6334.2

Sample Name: S4 Acquired: 7/23/2025 11:45:36 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**.18718**	**.34924**	**1.1219**	**.24596**	**.58122**	**.85775**	**29.437**	**2.3177**
Stddev	.00026	.00957	.0026	.00066	.00186	.00143	.270	.0146
%RSD	.14096	2.7410	.23225	.26850	.31996	.16726	.91596	.62977
#1	.18708	.33819	1.1248	.24542	.57999	.85699	29.574	2.3196
#2	.18699	.35511	1.1197	.24576	.58031	.85685	29.127	2.3022
#3	.18748	.35441	1.1213	.24670	.58336	.85940	29.612	2.3312

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.7023**	**1.9186**	**.20099**	**2.8797**	**.62506**	**.01366**	**1.5637**	**.31617**
Stddev	.0160	.0051	.00027	.0055	.00032	.00007	.0046	.00044
%RSD	.43221	.26480	.13542	.19051	.05048	.49680	.29539	.13829
#1	3.7208	1.9144	.20127	2.8854	.62512	.01361	1.5584	.31603
#2	3.6931	1.9172	.20073	2.8744	.62471	.01374	1.5658	.31582
#3	3.6930	1.9242	.20096	2.8794	.62534	.01364	1.5670	.31666

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6724**	**.29577**	**.31067**	**.29613**	**5.2100**	**.14965**	**3.8152**	**2.0498**
Stddev	.0035	.00025	.00144	.00118	.0158	.00119	.0238	.0043
%RSD	.21139	.08540	.46368	.39702	.30411	.79240	.62316	.21055
#1	1.6762	.29579	.30957	.29480	5.2257	.14875	3.8276	2.0472
#2	1.6692	.29551	.31230	.29655	5.1940	.15099	3.7878	2.0474
#3	1.6719	.29602	.31015	.29704	5.2103	.14920	3.8302	2.0548

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	**.80861**	**2.0032**	**.01500**	**.11449**	**.15937**	**2.8927**	**57.028**
Stddev	.00052	.0067	.00004	.00021	.00039	.0095	.379
%RSD	.06451	.33676	.28191	.18337	.24738	.32918	.66508
#1	.80892	1.9954	.01495	.11453	.15911	2.8818	57.409
#2	.80801	2.0070	.01504	.11426	.15917	2.8965	56.651
#3	.80891	2.0071	.01500	.11468	.15982	2.8997	57.024

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S4 Acquired: 7/23/2025 11:45:36 Type: Cal
Method: 6010-200.7 NEW(v56) 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	5258.1	82609.	7816.4	4399.6	6197.8
Stddev	15.3	88.	43.5	4.4	17.1
%RSD	.29048	.10614	.55682	.09973	.27612
#1	5248.5	82529.	7786.2	4394.8	6179.6
#2	5275.8	82596.	7866.3	4403.4	6213.5
#3	5250.2	82703.	7796.6	4400.6	6200.4

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S5 Acquired: 7/23/2025 11:49:47 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**.37109**	**.69941**	**2.2303**	**.48707**	**1.1121**	**1.6694**	**56.219**	**4.2978**
Stddev	.00137	.03025	.0064	.00277	.0042	.0027	.418	.0252
%RSD	.36860	4.3253	.28636	.56881	.37763	.16371	.74290	.58678
#1	.37100	.73149	2.2260	.48813	1.1108	1.6725	56.582	4.3239
#2	.36976	.67140	2.2272	.48393	1.1086	1.6682	56.313	4.2961
#3	.37249	.69533	2.2376	.48915	1.1167	1.6674	55.762	4.2735

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.2529**	**3.6834**	**.37192**	**5.7054**	**1.2147**	**.02663**	**3.0103**	**.61090**
Stddev	.0313	.0371	.00102	.0174	.0045	.00012	.0143	.00136
%RSD	.43096	1.0081	.27423	.30507	.37206	.44743	.47617	.22258
#1	7.2608	3.7023	.37248	5.6966	1.2125	.02658	3.0234	.61247
#2	7.2185	3.7073	.37074	5.6942	1.2117	.02677	3.0124	.61000
#3	7.2795	3.6406	.37253	5.7255	1.2199	.02654	2.9950	.61024

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3090**	**.57025**	**.61146**	**.57867**	**9.8560**	**.29561**	**7.1914**	**3.9927**
Stddev	.0106	.00086	.00130	.00169	.0315	.00145	.0509	.0152
%RSD	.32121	.15123	.21203	.29177	.31986	.48971	.70839	.38102
#1	3.3024	.57045	.60997	.58010	9.8572	.29429	7.2474	3.9947
#2	3.3033	.57099	.61216	.57910	9.8868	.29716	7.1792	3.9766
#3	3.3212	.56930	.61226	.57681	9.8238	.29539	7.1477	4.0068

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5900**	**3.8998**	**.03016**	**.23060**	**.32865**	**5.7485**	**109.60**
Stddev	.0051	.0314	.00027	.00031	.00267	.0167	.97
%RSD	.31834	.80614	.89630	.13365	.81310	.28958	.88134
#1	1.5919	3.9162	.02992	.23090	.33042	5.7673	109.86
#2	1.5843	3.9196	.03010	.23029	.32558	5.7424	108.53
#3	1.5938	3.8635	.03045	.23061	.32995	5.7357	110.41

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: S5 Acquired: 7/23/2025 11:49:47 Type: Cal
Method: 6010-200.7 NEW(v56) 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	**5194.5**	**85353.**	**8180.3**	**4442.2**	**5988.7**
Stddev	10.0	185.	54.2	24.0	6.3
%RSD	.19231	.21655	.66276	.54054	.10585
#1	5196.3	85464.	8126.8	4452.0	5986.7
#2	5203.5	85140.	8178.7	4414.8	5995.8
#3	5183.7	85456.	8235.2	4459.7	5983.7

Sample Name: ICV01 Acquired: 7/23/2025 12:57:16 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**3.867301**	**3.781760**	**3.967691**	**3.886790**	**4.087644**	**7.877351**
Stddev	.019203	.084786	.015930	.024440	.015207	.033660
%RSD	.4965501	2.241970	.4015019	.6287902	.3720296	.4272982
#1	3.852661	3.727567	3.950169	3.867161	4.081121	7.888911
#2	3.860198	3.738245	3.971602	3.879045	4.076787	7.903706
#3	3.889043	3.879468	3.981301	3.914164	4.105025	7.839434

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.952657**	**.2000203**	**2.009172**	**20.04284**	**.7830469**	**1.961426**
Stddev	.078189	.0023537	.014358	.13120	.0031391	.003554
%RSD	.9831785	1.176742	.7146056	.6546066	.4008833	.1811862
#1	7.880705	.1990176	1.992640	19.99248	.7857856	1.957647
#2	8.035863	.2027093	2.018514	20.19177	.7837338	1.961928
#3	7.941404	.1983339	2.016361	19.94429	.7796212	1.964702

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.008660**	**3.998323**	**1.999984**	**19.58375**	**1.968053**	**.9721609**
Stddev	.001528	.038798	.008599	.03613	.003071	.0080542
%RSD	.1515191	.9703483	.4299579	.1845036	.1560652	.8284808
#1	1.009551	4.042039	2.001377	19.59006	1.964549	.9668231
#2	1.006895	3.967984	2.007802	19.61631	1.970278	.9682342
#3	1.009533	3.984944	1.990774	19.54488	1.969333	.9814253

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.24612**	**1.967636**	**2.008030**	**19.71928**	**3.907539**	**4.063790**
Stddev	.23730	.006161	.001155	.20970	.045476	.020381
%RSD	1.232953	.3131338	.0575166	1.063404	1.163800	.5015215
#1	19.44407	1.968650	2.009240	19.88334	3.873386	4.049144
#2	18.98307	1.973227	2.006940	19.48303	3.959159	4.055159
#3	19.31122	1.961030	2.007910	19.79148	3.890073	4.087066

Sample Name: ICV01 Acquired: 7/23/2025 12:57:16 Type: Unk
Method: 6010-200.7 NEW(v56) 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	3.972970	4.033227	F 3.488253	F .0054645	F .0230261	F -.003393
Stddev	.019906	.012616	.060018	.0032890	.0018703	.001526
%RSD	.5010294	.3127940	1.720589	60.18839	8.122516	44.96333
#1	3.950738	4.025210	3.514857	.0036319	.0235988	-.001969
#2	3.979029	4.047769	3.419531	.0092615	.0245430	-.005004
#3	3.989142	4.026702	3.530371	.0035000	.0209364	-.003207

Elem	Sr4077
Units	ppm
Avg	F -.003438
Stddev	.000079
%RSD	2.287216
#1	-.003479
#2	-.003347
#3	-.003487

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5379.737	86432.07	8238.627	4523.618	6439.378
Stddev	11.687	298.27	91.508	13.753	7.375
%RSD	.2172361	.3450864	1.110721	.3040206	.1145315
#1	5375.045	86216.15	8281.058	4519.312	6444.210
#2	5393.041	86772.40	8133.606	4539.009	6443.036
#3	5371.126	86307.65	8301.218	4512.534	6430.889

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: LLICV01 Acquired: 7/23/2025 13:02:58 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0197208**	**.0381006**	**.0109598**	**.0168621**	**.0540807**	**.1033415**
Stddev	.0027014	.0019934	.0004409	.0029465	.0005592	.0033946
%RSD	13.69809	5.231811	4.022720	17.47427	1.034096	3.284833
#1	.0166432	.0365276	.0113436	.0196874	.0534937	.1043998
#2	.0208197	.0403423	.0104782	.0170913	.0541411	.0995439
#3	.0216996	.0374318	.0110575	.0138077	.0546073	.1060810

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0997784**	**.0063332**	**.0052722**	**2.112843**	**.0086694**	**.0289765**
Stddev	.0014417	.0000209	.0000692	.016538	.0006315	.0001696
%RSD	1.444862	.3299528	1.312617	.7827177	7.284386	.5853499
#1	.1013551	.0063103	.0053325	2.130303	.0093867	.0287843
#2	.0994525	.0063512	.0051966	2.097415	.0081972	.0291052
#3	.0985275	.0063380	.0052873	2.110812	.0084242	.0290399

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0215047**	**.1125357**	**.0222415**	**2.138991**	**.0408904**	**.0106223**
Stddev	.0008280	.0067596	.0002855	.035046	.0002260	.0004761
%RSD	3.850132	6.006606	1.283746	1.638457	.5526583	4.481615
#1	.0210934	.1200320	.0224512	2.178666	.0410244	.0110086
#2	.0209630	.1069044	.0223571	2.112248	.0406295	.0100905
#3	.0224578	.1106707	.0219163	2.126059	.0410173	.0107679

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.856190**	**.0385153**	**.0429847**	**2.139473**	**.1048106**	**.2020248**
Stddev	.005368	.0027546	.0002572	.039684	.0003832	.0002034
%RSD	.2892063	7.152027	.5984152	1.854833	.3656010	.1006902
#1	1.861233	.0363227	.0426972	2.109694	.1051227	.2018571
#2	1.850547	.0416072	.0430637	2.124201	.1049262	.2019663
#3	1.856790	.0376160	.0431931	2.184524	.1043830	.2022511

Sample Name: LLICV01 Acquired: 7/23/2025 13:02:58 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0402100	.0394757	.3384045	F .1104918	.0217487	F .0148729
Stddev	.0001443	.0009593	.0115602	.0013460	.0005799	.0021223
%RSD	.3589366	2.430084	3.416097	1.218160	2.666200	14.26943
#1	.0401584	.0384102	.3304971	.1094889	.0214259	.0130332
#2	.0403730	.0402708	.3330445	.1099651	.0224181	.0143908
#3	.0400985	.0397459	.3516718	.1120215	.0214020	.0171948

Elem	Sr4077
Units	ppm
Avg	.0205013
Stddev	.0000279
%RSD	.1361612
#1	.0205334
#2	.0204823
#3	.0204882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5522.992	88049.01	8088.651	4595.947	6904.567
Stddev	.293	397.22	45.419	15.006	11.048
%RSD	.0053063	.4511340	.5615139	.3265102	.1600085
#1	5522.653	87621.68	8044.065	4579.912	6896.452
#2	5523.160	88406.98	8087.029	4609.652	6917.149
#3	5523.161	88118.37	8134.859	4598.276	6900.099

Sample Name: ICB01 Acquired: 7/23/2025 13:16:04 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.000735**	**.0006604**	**-.000132**	**-.000935**	**.0001157**	**.0041255**	**-.001521**
Stddev	.001301	.0027505	.000425	.001194	.0003468	.0070373	.000827
%RSD	176.8470	416.5025	321.8256	127.6733	299.6304	170.5789	54.36055
#1	-.001848	-.000807	.000315	-.002278	.0003446	.0057575	-.001344
#2	.000695	-.001045	-.000181	.000010	-.000283	-.003584	-.002421
#3	-.001053	.003833	-.000530	-.000538	.000286	.010203	-.000796

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000022**	**.0000794**	**.0508220**	**-.000141**	**-.000045**	**-.000348**	**.0047795**
Stddev	.000047	.0000469	.0085416	.000474	.000122	.000041	.0045518
%RSD	210.1248	59.07803	16.80687	336.0061	269.7630	11.77305	95.23608
#1	-.000016	.0000330	.0411169	.000312	.000088	-.000343	-.000361
#2	.000021	.0000784	.0571964	-.000633	-.000072	-.000390	.008299
#3	-.000072	.0001267	.0541528	-.000102	-.000152	-.000309	.006400

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000187**	**.0151554**	**.0002807**	**.0002654**	**-.007379**	**-.000581**	**.0007035**
Stddev	.000378	.0129813	.0003471	.0002493	.014393	.004159	.0000557
%RSD	201.9298	85.65470	123.6753	93.93166	195.0647	715.6294	7.911504
#1	-.000234	.0165815	-.000014	.0002470	-.014002	-.003084	.0007617
#2	-.000540	.0273648	.000663	.0005235	.009134	.004220	.0006508
#3	.000212	.0015199	.000192	.0000259	-.017268	-.002880	.0006980

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1111535**	**.0001416**	**.0004854**	**.0026741**	**-.000595**	**-.003397**	**.0047235**
Stddev	.0155146	.0009038	.0002303	.0004611	.001049	.012331	.0008928
%RSD	13.95783	638.1997	47.44360	17.24300	176.2377	363.0051	18.90196
#1	.1014917	.0008611	.0006721	.0024734	-.001794	-.009313	.0037772
#2	.1290492	-.000873	.0002281	.0032015	.000154	.010778	.0055510
#3	.1029195	.000437	.0005560	.0023473	-.000146	-.011656	.0048422

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: ICB01 Acquired: 7/23/2025 13:16:04 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.000039**	**-.002448**	**.0001637**
Stddev	.000563	.002538	.0000590
%RSD	1453.598	103.7079	36.02259
#1	-.000184	.000322	.0002317
#2	-.000516	-.003003	.0001261
#3	.000583	-.004663	.0001333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5532.414**	**88978.53**	**8155.721**	**4622.282**	**6985.026**
Stddev	6.124	254.15	51.200	21.272	13.132
%RSD	.1107002	.2856360	.6277860	.4601989	.1879974
#1	5526.344	88795.51	8165.727	4598.783	6970.608
#2	5538.591	88871.36	8201.180	4627.837	6988.167
#3	5532.306	89268.72	8100.256	4640.224	6996.302

Sample Name: ICSA01 Acquired: 7/23/2025 13:25:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0067289	.0103781	-.003364	-.004017	-.004426	260.4200
Stddev	.0016775	.0040228	.000805	.004069	.001062	4.4453
%RSD	24.92948	38.76233	23.92799	101.3006	23.99598	1.706977
#1	.0082568	.0103893	-.003986	-.007336	-.004411	261.9218
#2	.0069961	.0143953	-.003651	.000523	-.005495	263.9198
#3	.0049339	.0063497	-.002455	-.005238	-.003371	255.4183

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023001	.0016056	-.000761	248.6613	.0569051	.0022779
Stddev	.0002491	.0000332	.000201	1.6928	.0003657	.0001304
%RSD	10.82979	2.069828	26.47430	.6807850	.6427201	5.723423
#1	.0022970	.0016401	-.000865	250.6035	.0564846	.0023006
#2	.0025508	.0015738	-.000889	247.8821	.0570814	.0023954
#3	.0020526	.0016029	-.000529	247.4984	.0571493	.0021377

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202937	101.7784	.0083770	259.2959	.0038437	.0018800
Stddev	.0009023	.4046	.0003822	.6810	.0006974	.0002118
%RSD	4.446415	.3975391	4.563033	.2626488	18.14346	11.26462
#1	.0202668	102.2288	.0088045	260.0804	.0043543	.0020945
#2	.0212092	101.4455	.0082584	258.9510	.0041276	.0016711
#3	.0194051	101.6610	.0080681	258.8562	.0030491	.0018745

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0925162	.0046288	.0020133	.2074800	.0061064	.0003528
Stddev	.0164357	.0003965	.0001655	.0261719	.0042487	.0007257
%RSD	17.76521	8.566023	8.218386	12.61420	69.57742	205.6939
#1	.1103644	.0044511	.0019395	.2367643	.0101539	.0011023
#2	.0891787	.0043521	.0022029	.1993027	.0016817	-.000347
#3	.0780053	.0050830	.0018976	.1863730	.0064838	.000303

Sample Name: ICSA01 Acquired: 7/23/2025 13:25:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.002879	-.006457	.0102718	.0105163	-.003850	F .0524158
Stddev	.000709	.000254	.0124553	.0002001	.000970	.0013367
%RSD	24.62825	3.930656	121.2572	1.902407	25.19582	2.550209
#1	-.003442	-.006750	.0246372	.0105052	-.004224	.0514919
#2	-.002083	-.006311	.0024875	.0107217	-.002749	.0539485
#3	-.003112	-.006309	.0036908	.0103220	-.004577	.0518069

Elem	Sr4077
Units	ppm
Avg	.0089000
Stddev	.0000658
%RSD	.7394262
#1	.0088373
#2	.0089685
#3	.0088943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4926.522	79260.66	7853.228	4110.133	5696.278
Stddev	13.421	114.20	28.391	16.435	10.990
%RSD	.2724153	.1440825	.3615226	.3998612	.1929305
#1	4931.693	79212.41	7835.688	4100.616	5701.427
#2	4936.588	79178.51	7838.012	4100.672	5703.748
#3	4911.286	79391.07	7885.983	4129.110	5683.659

Sample Name: ICSAB01 Acquired: 7/23/2025 13:29:31 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1076909**	**.1032710**	**.0397320**	**.0356096**	**.5825128**	**250.1121**
Stddev	.0018254	.0023871	.0009304	.0028264	.0036812	3.8081
%RSD	1.694988	2.311516	2.341797	7.937051	.6319507	1.522557
#1	.1091125	.1043322	.0407733	.0341110	.5785331	253.0571
#2	.1083278	.1049435	.0389822	.0338482	.5832092	251.4676
#3	.1056325	.1005372	.0394406	.0388697	.5857960	245.8117

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4913144**	**.4838008**	**.9070242**	**241.4878**	**.5278168**	**.4744791**
Stddev	.0025837	.0022601	.0026862	1.1595	.0014517	.0006969
%RSD	.5258723	.4671496	.2961612	.4801342	.2750348	.1468674
#1	.4900667	.4823759	.9079911	240.7698	.5272658	.4745810
#2	.4942851	.4864067	.9039884	242.8254	.5294633	.4737369
#3	.4895914	.4826197	.9090932	240.8682	.5267213	.4751193

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4790141**	**99.57728**	**.4856887**	**251.2626**	**.9523822**	**.2083255**
Stddev	.0019448	.23594	.0002283	1.7580	.0037047	.0002467
%RSD	.4059904	.2369416	.0469985	.6996862	.3889972	.1184417
#1	.4785595	99.84695	.4858300	252.9117	.9539080	.2080676
#2	.4773369	99.40887	.4858107	251.4633	.9481583	.2085594
#3	.4811458	99.47601	.4854253	249.4128	.9550805	.2083493

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0300680**	**.4570042**	**1.007708**	**.0855524**	**.9715145**	**1.007251**
Stddev	.0125276	.0046375	.002617	.0097567	.0036190	.003118
%RSD	41.66418	1.014757	.2596666	11.40437	.3725088	.3095157
#1	.0390812	.4618474	1.009734	.0967973	.9687266	1.005217
#2	.0353599	.4526042	1.004754	.0805291	.9756043	1.005696
#3	.0157628	.4565611	1.008636	.0793309	.9702126	1.010841

Sample Name: ICSAB01 Acquired: 7/23/2025 13:29:31 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.9813293	1.001001	.9407509	F .0112160	F -.004882	F .0506613
Stddev	.0020618	.006901	.0107569	.0005549	.003451	.0018749
%RSD	.2100995	.6894205	1.143432	4.947022	70.67845	3.700832
#1	.9821672	.995897	.9334992	.0107302	-.008752	.0495540
#2	.9789804	1.008853	.9356435	.0118206	-.002126	.0496038
#3	.9828401	.998253	.9531100	.0110971	-.003768	.0528260

Elem	Sr4077
Units	ppm
Avg	F .0066230
Stddev	.0004674
%RSD	7.057233
#1	.0061569
#2	.0070917
#3	.0066205

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4901.525	79696.28	7955.893	4108.734	5673.382
Stddev	11.385	124.90	49.975	2.703	8.632
%RSD	.2322741	.1567158	.6281568	.0657920	.1521508
#1	4910.899	79637.10	7946.659	4108.458	5672.553
#2	4904.820	79611.98	7911.179	4111.564	5682.399
#3	4888.856	79839.77	8009.842	4106.179	5665.195

Sample Name: ICSADLX20 Acquired: 7/23/2025 13:33:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0011782**	**-.000895**	**-.000334**	**-.005520**	**.0006650**	**12.40946**	**-.000170**
Stddev	.0018979	.001383	.001151	.000744	.0011805	.05450	.000352
%RSD	161.0857	154.6110	344.4790	13.48201	177.5293	.4391411	207.7101
#1	-.000312	.000310	.000472	-.005809	-.000694	12.35499	-.000427
#2	.000532	-.000588	-.001652	-.006078	.001247	12.46398	-.000314
#3	.003315	-.002405	.000178	-.004675	.001441	12.40942	.000232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001687**	**.0000360**	**12.60496**	**.0024233**	**.0000533**	**.0024918**	**4.897220**
Stddev	.0000765	.0001094	.07786	.0002355	.0000321	.0001224	.016775
%RSD	45.37689	304.0830	.6177321	9.717579	60.25599	4.913085	.3425507
#1	.0000847	-.000049	12.53167	.0021552	.0000273	.0023525	4.910573
#2	.0002346	-.000002	12.59649	.0025178	.0000434	.0025407	4.902695
#3	.0001867	.000159	12.68671	.0025968	.0000893	.0025823	4.878391

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000052**	**12.77085**	**.0005429**	**.0005777**	**-.069537**	**-.000009**	**.0002215**
Stddev	.000230	.04257	.0001982	.0003774	.001922	.001265	.0000969
%RSD	439.3474	.3333609	36.51581	65.33567	2.763870	14666.56	43.73572
#1	.000138	12.73619	.0005716	.0009866	-.067814	.001451	.0003297
#2	.000013	12.81837	.0003319	.0005039	-.069188	-.000699	.0001921
#3	-.000308	12.75798	.0007253	.0002426	-.071610	-.000778	.0001428

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.027910**	**-.002066**	**.0002120**	**-.001082**	**.0001369**	**-.006014**	**.0027811**
Stddev	.018228	.000786	.0001480	.000377	.0010987	.004380	.0025099
%RSD	65.30884	38.02482	69.80421	34.81807	802.5033	72.82961	90.24609
#1	-.043856	-.001815	.0002669	-.001278	-.001114	-.007407	.0029033
#2	-.008040	-.002947	.0000444	-.000648	.000580	-.009527	.0052277
#3	-.031834	-.001437	.0003246	-.001320	.000945	-.001107	.0002124

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: ICSADLX20 Acquired: 7/23/2025 13:33:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.002342**	**-.006279**	**.0004615**
Stddev	.001205	.000324	.0000948
%RSD	51.43926	5.165748	20.54189
#1	-.003650	-.006550	.0004806
#2	-.001277	-.006369	.0003586
#3	-.002101	-.005920	.0005453

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5377.322**	**87398.60**	**8087.579**	**4534.228**	**6675.689**
Stddev	24.236	332.81	76.159	17.502	23.538
%RSD	.4507005	.3807913	.9416819	.3860019	.3525871
#1	5381.832	87553.26	8174.731	4554.386	6685.141
#2	5398.986	87016.61	8054.183	4522.900	6693.032
#3	5351.148	87625.94	8033.824	4525.398	6648.895

Sample Name: ICSABDLX20 Acquired: 7/23/2025 13:37:59 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0047988	.0046799	.0016333	-.002578	.0273515	12.59184	.0244926
Stddev	.0033642	.0014332	.0005290	.002408	.0007244	.02775	.0009515
%RSD	70.10478	30.62487	32.38811	93.41577	2.648665	.2203643	3.885023
#1	.0080935	.0059166	.0019624	-.004927	.0272416	12.59903	.0245246
#2	.0049337	.0031092	.0019145	-.000116	.0266883	12.61528	.0254277
#3	.0013692	.0050139	.0010231	-.002690	.0281247	12.56120	.0235254

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264238	.0438196	12.86226	.0265659	.0229702	.0249474	4.851644
Stddev	.0002084	.0001904	.00373	.0002240	.0001865	.0002220	.030104
%RSD	.7885134	.4345068	.0289893	.8430321	.8118624	.8896669	.6205006
#1	.0266317	.0438356	12.86083	.0265292	.0230451	.0248066	4.886381
#2	.0264247	.0436216	12.86650	.0268060	.0227579	.0248324	4.835408
#3	.0262150	.0440014	12.85947	.0263626	.0231075	.0252033	4.833143

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254049	12.94554	.0469229	.0102989	-.090876	.0224660	.0502509
Stddev	.0004795	.02601	.0000516	.0007172	.014331	.0019296	.0005320
%RSD	1.887227	.2009355	.1098823	6.963484	15.77004	8.588767	1.058726
#1	.0259140	12.95924	.0469647	.0104002	-.075886	.0246667	.0508310
#2	.0253387	12.91554	.0469386	.0109600	-.092300	.0216673	.0501361
#3	.0249619	12.96184	.0468652	.0095364	-.104442	.0210641	.0497857

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.039030	.0501543	.0507414	.0459547	.0507950	.0335575	.0024553
Stddev	.007899	.0002486	.0001743	.0004890	.0007593	.0048587	.0019203
%RSD	20.23909	.4956236	.3435624	1.064136	1.494790	14.47870	78.21088
#1	-.037502	.0502138	.0508228	.0463193	.0499581	.0314374	.0027283
#2	-.032006	.0498814	.0508601	.0453990	.0514398	.0391160	.0004131
#3	-.047582	.0503678	.0505412	.0461458	.0509872	.0301192	.0042245

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: ICSABDLX20 Acquired: 7/23/2025 13:37:59 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.003171	-.004814	.0006543
Stddev	.000917	.002445	.0000747
%RSD	28.90774	50.79217	11.41816
#1	-.002160	-.002332	.0005710
#2	-.003948	-.007220	.0006766
#3	-.003404	-.004888	.0007154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5437.495	87842.10	7918.884	4520.802	6798.618
Stddev	24.610	154.65	28.926	8.431	30.895
%RSD	.4525957	.1760518	.3652755	.1864957	.4544283
#1	5454.864	87774.71	7887.959	4512.154	6809.988
#2	5448.288	87732.58	7923.419	4528.998	6822.217
#3	5409.333	88019.01	7945.275	4521.253	6763.649

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV01 Acquired: 7/23/2025 13:42:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**5.053004**	**4.996168**	**4.942777**	**5.080826**	**5.102496**	**10.09573**	**10.24423**
Stddev	.018059	.096749	.011352	.031130	.013731	.00847	.04311
%RSD	.3573878	1.936467	.2296759	.6126938	.2691115	.0838836	.4207833
#1	5.035255	4.884475	4.931706	5.054412	5.090027	10.09700	10.21068
#2	5.052400	5.050016	4.942234	5.072920	5.100249	10.08669	10.22915
#3	5.071357	5.054012	4.954391	5.115147	5.117213	10.10349	10.29284

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2653986**	**2.473133**	**26.02513**	**.9766615**	**2.487949**	**1.266881**	**4.931393**
Stddev	.0032708	.006107	.19336	.0034209	.005064	.002961	.051605
%RSD	1.232409	.2469413	.7429663	.3502624	.2035405	.2337280	1.046453
#1	.2617449	2.466880	25.81052	.9793853	2.482732	1.263694	4.982205
#2	.2663972	2.473435	26.07910	.9728221	2.488270	1.267402	4.932944
#3	.2680537	2.479083	26.18577	.9777770	2.492845	1.269547	4.879030

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.572073**	**24.96415**	**2.497112**	**1.270870**	**23.74650**	**2.520494**	**2.552438**
Stddev	.008168	.08696	.005819	.000566	.26813	.009980	.002730
%RSD	.3175466	.3483503	.2330243	.0445381	1.129141	.3959514	.1069392
#1	2.562643	25.06410	2.490530	1.271157	24.05302	2.531444	2.554449
#2	2.576661	24.90584	2.499234	1.270218	23.63105	2.511910	2.549330
#3	2.576916	24.92251	2.501572	1.271235	23.55544	2.518128	2.553533

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.84255**	**5.285227**	**5.099392**	**4.997549**	**5.207054**	**4.755297**	**4.920977**
Stddev	.22871	.062767	.013192	.015883	.028467	.062872	.003762
%RSD	.9206493	1.187590	.2587053	.3178185	.5467049	1.322140	.0764578
#1	25.08859	5.216847	5.085722	4.979936	5.174213	4.826679	4.916969
#2	24.80265	5.298614	5.100406	5.001929	5.222258	4.731067	4.921529
#3	24.63642	5.340221	5.112049	5.010783	5.224691	4.708146	4.924433

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV01 Acquired: 7/23/2025 13:42:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**4.939489**	**5.037546**	**5.266241**
Stddev	.025071	.019930	.051272
%RSD	.5075626	.3956273	.9736027
#1	4.912067	5.059131	5.281751
#2	4.945166	5.033663	5.209005
#3	4.961235	5.019843	5.307968

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5286.424**	**86048.98**	**7875.142**	**4424.107**	**6292.391**
Stddev	6.627	318.82	51.471	13.484	10.792
%RSD	.1253516	.3705098	.6535900	.3047796	.1715143
#1	5285.659	85680.84	7928.959	4412.976	6292.282
#2	5293.399	86234.89	7870.078	4420.244	6303.238
#3	5280.212	86231.21	7826.391	4439.101	6281.654

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB01 Acquired: 7/23/2025 13:46:23 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.001403**	**.0003959**	**.0007216**	**-.003923**	**.0005213**	**.0116132**	**.0000035**
Stddev	.001069	.0002479	.0008046	.002296	.0011534	.0085020	.0003527
%RSD	76.17131	62.61750	111.5048	58.52313	221.2404	73.21006	10017.00
#1	-.002601	.0004062	.0001600	-.005636	.0003148	.0034801	.0001177
#2	-.000548	.0006385	.0003614	-.004819	.0017641	.0109180	-.000392
#3	-.001060	.0001430	.0016434	-.001314	-.000515	.0204415	.000285

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000122**	**.0001785**	**.0644100**	**-.000294**	**.0002452**	**.0006514**	**-.005120**
Stddev	.0000614	.0000520	.0055556	.000226	.0000636	.0002991	.003402
%RSD	501.6129	29.13157	8.625376	76.98851	25.93285	45.91599	66.45122
#1	-.000042	.0002384	.0643222	-.000465	.0001810	.0007984	-.008804
#2	.000079	.0001461	.0588988	-.000037	.0003082	.0008486	-.004458
#3	-.000000	.0001508	.0700089	-.000378	.0002464	.0003073	-.002097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001184**	**.0152486**	**.0007362**	**.0005634**	**-.079109**	**-.000457**	**.0008646**
Stddev	.0007484	.0109036	.0000747	.0004502	.005918	.002726	.0004978
%RSD	632.1840	71.50537	10.15199	79.90244	7.480250	596.7364	57.58187
#1	.0008892	.0032657	.0006569	.0000478	-.072399	-.001946	.0005030
#2	.0000713	.0178941	.0007462	.0007636	-.081350	-.002114	.0014324
#3	-.000605	.0245861	.0008053	.0008787	-.083579	.002689	.0006584

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.013617**	**.0033137**	**.0014704**	**.0033553**	**-.000354**	**-.003340**	**.0009506**
Stddev	.039332	.0007453	.0004673	.0007098	.001826	.008100	.0037850
%RSD	288.8511	22.49097	31.78194	21.15376	515.5194	242.5036	398.1878
#1	.017166	.0041694	.0019007	.0036407	-.001604	-.011633	-.002126
#2	-.057927	.0028072	.0009732	.0025472	-.001200	-.002941	-.000200
#3	-.000089	.0029643	.0015374	.0038778	.001741	.004553	.005177

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB01 Acquired: 7/23/2025 13:46:23 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0000410	-.009875	.0005192
Stddev	.0007481	.000593	.0000327
%RSD	1825.669	6.003370	6.287877
#1	-.000759	-.010533	.0005266
#2	.000723	-.009712	.0004835
#3	.000159	-.009381	.0005475

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5483.385	88269.89	8100.657	4560.879	6959.682
Stddev	6.269	60.78	9.495	11.909	5.966
%RSD	.1143357	.0688526	.1172161	.2611038	.0857157
#1	5482.955	88214.54	8111.270	4549.305	6963.903
#2	5489.859	88334.93	8092.968	4573.096	6962.286
#3	5477.342	88260.20	8097.732	4560.234	6952.858

Sample Name: PB168955BL Acquired: 7/23/2025 13:54:22 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0001264**	**-.000960**	**-.001139**	**-.002876**	**-.000858**	**.0087181**
Stddev	.0033806	.000669	.000403	.002339	.002019	.0064903
%RSD	2675.319	69.65263	35.36129	81.33561	235.2151	74.44563
#1	-.000538	-.001490	-.001216	-.001159	.000332	.0129264
#2	-.002873	-.001182	-.000704	-.005540	.000283	.0012436
#3	.003790	-.000209	-.001499	-.001929	-.003189	.0119845

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006959**	**.0000165**	**.0000207**	**.0104231**	**-.000214**	**-.000178**
Stddev	.0007595	.0001122	.0000167	.0050538	.000141	.000128
%RSD	109.1378	679.1494	80.76055	48.48635	65.82942	71.81148
#1	.0005866	-.000112	.0000257	.0063307	-.000222	-.000059
#2	.0015041	.000092	.0000020	.0160721	-.000069	-.000313
#3	-.000003	.000070	.0000342	.0088665	-.000351	-.000162

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000555**	**-.008536**	**-.000445**	**.0215190**	**.0003141**	**.0002502**
Stddev	.000327	.006039	.000291	.0111368	.0001621	.0004954
%RSD	58.87540	70.74882	65.36973	51.75339	51.60140	198.0051
#1	-.000319	-.001704	-.000680	.0131813	.0004171	-.000273
#2	-.000418	-.013162	-.000535	.0172090	.0003980	.000713
#3	-.000928	-.010742	-.000120	.0341667	.0001273	.000311

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.083338**	**-.001493**	**-.000209**	**-.008262**	**.0005888**	**.0004119**
Stddev	.007835	.003047	.000092	.014149	.0007811	.0002490
%RSD	9.401724	204.1056	44.06807	171.2528	132.6746	60.44887
#1	-.088445	-.004885	-.000179	-.005117	.0011604	.0005397
#2	-.074317	.001013	-.000312	.004050	-.000301	.0005711
#3	-.087253	-.000607	-.000136	-.023718	.000907	.0001250

Sample Name: PB168955BL Acquired: 7/23/2025 13:54:22 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.000640	-.001103	-.003556	.0019793	-.002339	F -.010171
Stddev	.000319	.000520	.008005	.0013353	.002898	.002596
%RSD	49.77313	47.16928	225.0910	67.46044	123.8722	25.52386
#1	-.000751	-.001560	-.007046	.0022745	-.005642	-.013118
#2	-.000281	-.000537	-.009223	.0005212	-.000223	-.008222
#3	-.000889	-.001211	.005601	.0031424	-.001153	-.009172

Elem	Sr4077
Units	ppm
Avg	.0001123
Stddev	.0000607
%RSD	54.06932
#1	.0001808
#2	.0000915
#3	.0000648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5501.310	88162.51	8066.304	4566.415	6996.320
Stddev	11.986	120.19	29.399	7.892	13.757
%RSD	.2178837	.1363244	.3644684	.1728198	.1966265
#1	5508.414	88261.47	8100.217	4560.797	7007.091
#2	5508.044	88028.77	8050.668	4575.437	7001.046
#3	5487.471	88197.28	8048.027	4563.010	6980.824

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168955BS Acquired: 7/23/2025 13:58:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7742422**	**2.026279**	**.9445238**	**1.957819**	**.8188827**	**2.039603**
Stddev	.0068632	.026989	.0032192	.013076	.0038837	.008145
%RSD	.8864444	1.331964	.3408312	.6679080	.4742632	.3993220
#1	.7680466	1.995489	.9427301	1.956050	.8156123	2.048818
#2	.7730604	2.037500	.9426010	1.945717	.8178607	2.033370
#3	.7816196	2.045848	.9482403	1.971690	.8231752	2.036620

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2067385**	**.2139543**	**.1886863**	**1.062221**	**.3979355**	**.1981568**
Stddev	.0007595	.0018408	.0007655	.007950	.0005813	.0006409
%RSD	.3673863	.8603580	.4057104	.7484232	.1460825	.3234270
#1	.2063276	.2158629	.1878648	1.070399	.3976564	.1975304
#2	.2062730	.2121898	.1888144	1.061745	.3986037	.1981288
#3	.2076150	.2138101	.1893796	1.054520	.3975462	.1988113

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3117396**	**3.027954**	**.2094414**	**2.033232**	**.5005913**	**.0772741**
Stddev	.0007074	.014093	.0006217	.015230	.0016464	.0005656
%RSD	.2269224	.4654138	.2968481	.7490430	.3288932	.7319340
#1	.3112448	3.019979	.2101216	2.024072	.4992856	.0766210
#2	.3114242	3.044226	.2089025	2.050813	.5000476	.0775955
#3	.3125499	3.019658	.2093002	2.024811	.5024408	.0776058

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.776166**	**.2999796**	**.2124921**	**9.832509**	**.3126522**	**.4137505**
Stddev	.011348	.0014861	.0006988	.065488	.0022937	.0020673
%RSD	.4087658	.4954113	.3288842	.6660388	.7336316	.4996603
#1	2.766779	.2984672	.2116881	9.756925	.3150203	.4125653
#2	2.772943	.3014380	.2129536	9.868311	.3104409	.4125486
#3	2.788777	.3000337	.2128347	9.872291	.3124953	.4161377

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168955BS Acquired: 7/23/2025 13:58:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.6908365**	**.2053646**	**.8207802**	**5.624787**	F **-.000758**	**.1881757**
Stddev	.0021092	.0009597	.0140371	.039923	.001119	.0002989
%RSD	.3053058	.4673110	1.710208	.7097779	147.6336	.1588150
#1	.6884082	.2056723	.8167264	5.586545	-.001544	.1878449
#2	.6918889	.2061327	.8363981	5.621612	.000523	.1882560
#3	.6922123	.2042888	.8092162	5.666203	-.001254	.1884262

Elem	Sr4077
Units	ppm
Avg	**.2057598**
Stddev	.0007223
%RSD	.3510630
#1	.2063784
#2	.2049660
#3	.2059351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5433.207**	**87283.60**	**8057.567**	**4542.330**	**6734.136**
Stddev	12.195	159.13	54.839	24.390	16.085
%RSD	.2244576	.1823092	.6805918	.5369497	.2388601
#1	5443.750	87415.15	8008.771	4567.534	6751.112
#2	5436.020	87328.92	8116.916	4540.609	6732.176
#3	5419.851	87106.73	8047.013	4518.846	6719.121

Sample Name: Q2669-01 Acquired: 7/23/2025 14:02:43 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0006820**	**-.002952**	**.0895302**	**-.005967**	**.0021949**	**6.198146**
Stddev	.0005883	.001040	.0010702	.003763	.0014634	.013098
%RSD	86.26928	35.23576	1.195390	63.06269	66.67429	.2113201
#1	.0009422	-.001756	.0888122	-.003798	.0023648	6.191890
#2	.0000084	-.003642	.0890180	-.003791	.0035659	6.213199
#3	.0010954	-.003458	.0907603	-.010311	.0006539	6.189349

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1537634**	**.0005516**	**.0002174**	**133.5258**	**.0214240**	**.0064381**
Stddev	.0006689	.0000084	.0000305	.2771	.0004641	.0003548
%RSD	.4350080	1.526811	14.00733	.2075628	2.166107	5.510331
#1	.1535572	.0005474	.0002454	133.2542	.0219409	.0062885
#2	.1545111	.0005613	.0002216	133.8082	.0210431	.0068432
#3	.1532219	.0005460	.0001850	133.5150	.0212880	.0061827

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0993653**	**26.18991**	**.5573887**	**23.80097**	**.0276494**	**.0025487**
Stddev	.0007187	.21533	.0022686	.10798	.0006979	.0001323
%RSD	.7233142	.8221993	.4070087	.4536640	2.524182	5.189417
#1	.0997933	26.17190	.5561677	23.91263	.0272436	.0025971
#2	.0997671	25.98415	.5600063	23.79320	.0272492	.0026499
#3	.0985355	26.41368	.5559920	23.69710	.0284552	.0023990

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.83032**	**.0162342**	**.6761310**	**18.02338**	**.1133343**	**.0063826**
Stddev	.97652	.0009877	.0054217	.19200	.0017517	.0001626
%RSD	1.040728	6.084200	.8018760	1.065293	1.545618	2.547601
#1	93.77243	.0169964	.6706667	17.98617	.1121946	.0065376
#2	92.88403	.0165879	.6762171	17.85270	.1124569	.0062133
#3	94.83449	.0151183	.6815091	18.23126	.1153513	.0063969

Sample Name: Q2669-01 Acquired: 7/23/2025 14:02:43 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.000175	.3239230	F 24.70448	4.409477	7.677146	.0242877
Stddev	.000195	.0028005	.26140	.018756	.029427	.0048035
%RSD	111.6289	.8645566	1.058102	.4253604	.3833019	19.77757
#1	-.000300	.3244207	24.63036	4.391961	7.649280	.0247206
#2	-.000274	.3264413	24.48814	4.407202	7.674239	.0192824
#3	.000050	.3209070	24.99493	4.429266	7.707918	.0288601

Elem	Sr4077
Units	ppm
Avg	.3748565
Stddev	.0003171
%RSD	.0846039
#1	.3746403
#2	.3752206
#3	.3747086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5305.897	85933.23	8388.727	4365.993	6312.764
Stddev	10.283	664.33	53.846	33.319	12.719
%RSD	.1938060	.7730814	.6418841	.7631519	.2014807
#1	5315.720	86342.81	8421.000	4403.981	6325.426
#2	5306.763	86290.16	8326.567	4341.719	6312.876
#3	5295.208	85166.73	8418.615	4352.280	6299.989

Sample Name: Q2669-02 Acquired: 7/23/2025 14:06:52 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.000563**	**-.002845**	**.0822998**	**-.005860**	**.0016076**	**5.411539**
Stddev	.004084	.000875	.0020448	.003339	.0014391	.015116
%RSD	725.2627	30.75938	2.484602	56.96977	89.52095	.2793323
#1	.001983	-.003768	.0810928	-.006791	.0008893	5.414002
#2	-.005274	-.002742	.0846607	-.008635	.0006690	5.395343
#3	.001602	-.002027	.0811458	-.002155	.0032645	5.425273

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1378483**	**.0004069**	**.0000564**	**133.6846**	**.0188671**	**.0057915**
Stddev	.0007251	.0000321	.0000890	.5423	.0000231	.0001105
%RSD	.5260134	7.879051	157.9692	.4056283	.1223853	1.907218
#1	.1378863	.0003787	.0000336	134.2472	.0188838	.0057743
#2	.1371050	.0004003	.0001546	133.6412	.0188408	.0059096
#3	.1385537	.0004418	-.000019	133.1653	.0188768	.0056907

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0872034**	**26.02838**	**.5743290**	**20.70794**	**.0228596**	**.0021956**
Stddev	.0006836	.09247	.0029711	.10453	.0003612	.0003656
%RSD	.7838905	.3552819	.5173174	.5047953	1.579983	16.65060
#1	.0877426	26.07114	.5776628	20.74593	.0227855	.0019584
#2	.0864345	25.92227	.5719607	20.58972	.0232521	.0026166
#3	.0874329	26.09174	.5733636	20.78816	.0225412	.0020117

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**84.90899**	**.0158035**	**.5730485**	**18.76587**	**.1059766**	**.0057876**
Stddev	.23309	.0026437	.0015062	.03689	.0008191	.0001714
%RSD	.2745119	16.72883	.2628436	.1965749	.7728921	2.962457
#1	85.04424	.0158624	.5720371	18.72673	.1062086	.0059271
#2	84.63984	.0131308	.5747796	18.77088	.1050665	.0058394
#3	85.04288	.0184173	.5723288	18.80000	.1066546	.0055962

Sample Name: Q2669-02 Acquired: 7/23/2025 14:06:52 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.000927	.2816247	F 23.47276	4.353637	6.581324	.0244750
Stddev	.000222	.0033597	.12029	.008663	.034050	.0032343
%RSD	23.98907	1.192985	.5124539	.1989779	.5173732	13.21461
#1	-.000971	.2831577	23.48994	4.351730	6.611759	.0240654
#2	-.001124	.2839445	23.34480	4.346087	6.544550	.0214650
#3	-.000686	.2777719	23.58353	4.363095	6.587664	.0278945

Elem	Sr4077
Units	ppm
Avg	.3668137
Stddev	.0013041
%RSD	.3555204
#1	.3683095
#2	.3662158
#3	.3659157

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5317.344	87163.08	8617.468	4448.955	6315.495
Stddev	7.893	259.16	43.760	10.305	7.942
%RSD	.1484340	.2973301	.5078028	.2316204	.1257615
#1	5326.330	86867.03	8571.475	4439.210	6324.598
#2	5314.164	87273.26	8622.344	4447.916	6311.912
#3	5311.537	87348.94	8658.586	4459.740	6309.976

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01 Acquired: 7/23/2025 14:11:01 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0026225**	**-.002410**	**-.018691**	**.0382114**	**.0048493**	**.2716195**
Stddev	.0051076	.001248	.000275	.0029807	.0012143	.0133159
%RSD	194.7629	51.78045	1.472317	7.800421	25.04018	4.902419
#1	-.001751	-.003822	-.018389	.0351696	.0045615	.2864020
#2	.008236	-.001952	-.018754	.0383377	.0061815	.2678921
#3	.001382	-.001456	-.018929	.0411269	.0038047	.2605645

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0563727**	**-.000215**	**-.002074**	**196.7213**	**.2337010**	**.2427332**
Stddev	.0007650	.000039	.000072	.6640	.0007424	.0004492
%RSD	1.356962	18.03555	3.448667	.3375106	.3176830	.1850546
#1	.0569388	-.000196	-.002144	197.4871	.2330997	.2425461
#2	.0566768	-.000260	-.002001	196.3708	.2334726	.2424078
#3	.0555025	-.000189	-.002076	196.3061	.2345308	.2432457

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3571175**	**.0625812**	**.0013255**	**65.54209**	**1.483014**	**.0028762**
Stddev	.0003122	.0055438	.0001877	.20996	.000652	.0003824
%RSD	.0874176	8.858488	14.16269	.3203439	.0439411	13.29355
#1	.3572072	.0563846	.0011248	65.65898	1.483451	.0025706
#2	.3567703	.0670706	.0013548	65.29970	1.482265	.0033050
#3	.3573751	.0642883	.0014968	65.66759	1.483325	.0027531

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**71.20296**	**.0021691**	**.0975706**	**3.584155**	**.0850005**	**.0937913**
Stddev	.25072	.0016326	.0005267	.007214	.0014321	.0002849
%RSD	.3521188	75.26986	.5397684	.2012873	1.684787	.3037377
#1	70.92350	.0003074	.0974366	3.575916	.0866524	.0940686
#2	71.27720	.0028427	.0971240	3.587211	.0842399	.0934994
#3	71.40817	.0033570	.0981514	3.589339	.0841091	.0938060

Sample Name: Q2653-01 Acquired: 7/23/2025 14:11:01 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.004611	.0538401	F 17.81508	.1439690	17.29443	.0050782
Stddev	.000552	.0006323	.11471	.0008167	.07241	.0014765
%RSD	11.96894	1.174332	.6438862	.5672663	.4186855	29.07594
#1	-.004624	.0533275	17.69420	.1449083	17.28778	.0060176
#2	-.004053	.0545466	17.82863	.1434263	17.22558	.0058405
#3	-.005157	.0536461	17.92242	.1435725	17.36994	.0033763

Elem	Sr4077
Units	ppm
Avg	.5619629
Stddev	.0011052
%RSD	.1966581
#1	.5629918
#2	.5607947
#3	.5621023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5152.421	83698.00	7998.710	4316.452	6104.576
Stddev	7.368	174.05	28.676	5.009	5.338
%RSD	.1430091	.2079511	.3585135	.1160506	.0874437
#1	5156.387	83897.46	7970.536	4316.896	6106.739
#2	5156.958	83619.62	8027.864	4321.225	6108.493
#3	5143.919	83576.92	7997.730	4311.236	6098.496

Sample Name: Q2653-01DUP Acquired: 7/23/2025 14:15:09 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0015907**	**-.002409**	**-.020066**	**.0412930**	**.0056474**	**.2481121**
Stddev	.0025660	.000384	.001372	.0009886	.0018699	.0124516
%RSD	161.3141	15.95720	6.839376	2.394172	33.11052	5.018555
#1	-.001082	-.002049	-.021329	.0415632	.0077083	.2574532
#2	.001819	-.002814	-.020265	.0421185	.0040594	.2339757
#3	.004035	-.002363	-.018605	.0401974	.0051745	.2529073

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0573610**	**-.000211**	**-.002096**	**200.6089**	**.2406876**	**.2482301**
Stddev	.0010075	.000068	.000147	.6075	.0018609	.0003478
%RSD	1.756391	32.43238	7.014219	.3028258	.7731491	.1400972
#1	.0563818	-.000137	-.001973	200.0352	.2418603	.2482727
#2	.0583946	-.000272	-.002057	201.2453	.2385420	.2485546
#3	.0573067	-.000223	-.002259	200.5462	.2416605	.2478630

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3639431**	**.0654424**	**.0008152**	**67.01688**	**1.517631**	**.0033515**
Stddev	.0006791	.0036286	.0002201	.06523	.002247	.0000771
%RSD	.1866066	5.544736	27.00552	.0973392	.1480384	2.299601
#1	.3637559	.0635736	.0009827	66.98111	1.519941	.0034399
#2	.3646962	.0631291	.0008969	67.09217	1.517496	.0032988
#3	.3633772	.0696245	.0005659	66.97736	1.515454	.0033157

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**74.44943**	**.0032864**	**.1002371**	**3.750024**	**.0858590**	**.0962360**
Stddev	.72687	.0043538	.0009659	.025361	.0004251	.0004010
%RSD	.9763214	132.4789	.9636143	.6762862	.4951175	.4166856
#1	75.21752	.0070624	.1013405	3.771094	.0853992	.0958014
#2	73.77236	.0042727	.0998263	3.721876	.0862377	.0963149
#3	74.35840	-.001476	.0995445	3.757102	.0859402	.0965917

Sample Name: Q2653-01DUP Acquired: 7/23/2025 14:15:09 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.004987	.0567108	F 18.65821	.1454837	17.66016	.0030627
Stddev	.000470	.0006630	.19332	.0032343	.07065	.0005632
%RSD	9.426431	1.169115	1.036112	2.223154	.4000291	18.39018
#1	-.005405	.0560330	18.86627	.1451978	17.72525	.0037121
#2	-.005077	.0573579	18.48414	.1424017	17.67020	.0027690
#3	-.004478	.0567416	18.62423	.1488514	17.58503	.0027071

Elem	Sr4077
Units	ppm
Avg	.5779589
Stddev	.0010548
%RSD	.1825016
#1	.5769405
#2	.5790466
#3	.5778896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5229.400	83484.05	8113.485	4307.596	6190.390
Stddev	6.212	551.06	35.149	34.793	7.974
%RSD	.1187939	.6600832	.4332179	.8077081	.1288174
#1	5222.463	82910.58	8144.635	4268.007	6183.077
#2	5234.451	84009.58	8075.377	4321.474	6189.201
#3	5231.285	83531.98	8120.442	4333.309	6198.892

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01LX5 Acquired: 7/23/2025 14:19:18 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0021074**	**.0003750**	**-.004374**	**.0040821**	**.0004463**	**.0703413**	**.0114010**
Stddev	.0010639	.0003955	.000325	.0035391	.0025378	.0108906	.0012760
%RSD	50.48582	105.4685	7.437872	86.69689	568.5583	15.48256	11.19249
#1	.0008790	.0006121	-.004380	.0030135	-.000820	.0784153	.0114910
#2	.0027080	-.000082	-.004697	.0012005	.003368	.0579548	.0126296
#3	.0027352	.000594	-.004046	.0080324	-.001209	.0746538	.0100823

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000001**	**-.000430**	**42.10677**	**.0495423**	**.0509904**	**.0780057**	**.0135213**
Stddev	.000053	.000062	.25100	.0003520	.0003244	.0005523	.0141913
%RSD	4888.100	14.49634	.5960951	.7104574	.6361016	.7080844	104.9553
#1	.000029	-.000501	41.97159	.0493958	.0513351	.0784806	.0101507
#2	-.000063	-.000407	42.39638	.0499439	.0509449	.0781369	.0013187
#3	.000031	-.000383	41.95234	.0492873	.0506911	.0773996	.0290944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000125**	**14.08295**	**.3187716**	**.0007732**	**13.61128**	**.0009163**	**.0203894**
Stddev	.000411	.09547	.0026247	.0002131	.07867	.0004557	.0003017
%RSD	328.0489	.6779061	.8233968	27.56037	.5779849	49.73938	1.479625
#1	-.000087	13.98440	.3212124	.0008430	13.66089	.0014337	.0200561
#2	.000265	14.17501	.3191071	.0009427	13.52057	.0005746	.0204683
#3	-.000553	14.08943	.3159952	.0005340	13.65238	.0007405	.0206437

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8403342**	**.0179826**	**.0196542**	**-.002237**	**.0120749**	**3.667293**	**.0278090**
Stddev	.0079552	.0005045	.0005013	.000692	.0008927	.032030	.0021213
%RSD	.9466703	2.805573	2.550519	30.92010	7.392568	.8733945	7.628069
#1	.8493208	.0176163	.0193949	-.002079	.0130569	3.679321	.0300621
#2	.8341930	.0177734	.0202320	-.001639	.0118553	3.630990	.0258503
#3	.8374888	.0185581	.0193357	-.002995	.0113126	3.691567	.0275144

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01LX5 Acquired: 7/23/2025 14:19:18 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**3.635662**	**-.003145**	**.1204073**
Stddev	.041029	.003794	.0003968
%RSD	1.128513	120.6197	.3295284
#1	3.674624	.000282	.1203897
#2	3.639523	-.002496	.1208126
#3	3.592839	-.007222	.1200196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5368.591**	**87650.82**	**8168.926**	**4502.535**	**6570.720**
Stddev	4.128	87.89	63.917	19.862	3.642
%RSD	.0768907	.1002750	.7824353	.4411209	.0554213
#1	5364.820	87636.91	8194.791	4517.024	6567.893
#2	5373.001	87744.84	8096.130	4510.687	6569.437
#3	5367.952	87570.71	8215.856	4479.895	6574.829

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01MS Acquired: 7/23/2025 14:23:30 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7401666**	**1.707654**	**.8325934**	**1.837323**	**.7678905**	**2.164436**
Stddev	.0037279	.024981	.0013709	.011357	.0040460	.018019
%RSD	.5036509	1.462908	.1646531	.6181400	.5268937	.8325123
#1	.7373032	1.686765	.8311672	1.827422	.7649102	2.163844
#2	.7388149	1.700870	.8327116	1.834825	.7662648	2.182744
#3	.7443817	1.735326	.8339013	1.849721	.7724964	2.146720

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499803**	**.1950231**	**.1733756**	**194.3904**	**.5911307**	**.4227024**
Stddev	.0003280	.0006126	.0006957	.5578	.0020341	.0011903
%RSD	.1312047	.3141097	.4012931	.2869598	.3441035	.2815970
#1	.2497521	.1955293	.1728803	194.9353	.5903036	.4223627
#2	.2503562	.1943421	.1730755	193.8205	.5934481	.4217189
#3	.2498326	.1951979	.1741711	194.4153	.5896405	.4240257

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6242570**	**2.867561**	**.2007986**	**66.26818**	**1.915812**	**.0710501**
Stddev	.0016508	.035112	.0003497	.09343	.005359	.0005080
%RSD	.2644412	1.224442	.1741582	.1409951	.2797059	.7149808
#1	.6234447	2.832175	.2011813	66.30877	1.911905	.0715031
#2	.6231697	2.902392	.2004957	66.33445	1.913609	.0705009
#3	.6261565	2.868116	.2007187	66.16131	1.921921	.0711462

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**72.10936**	**.2833164**	**.2964047**	**13.32865**	**.3529642**	**.4917663**
Stddev	.36117	.0026585	.0005394	.03677	.0009729	.0017937
%RSD	.5008686	.9383458	.1819898	.2758741	.2756247	.3647499
#1	71.74805	.2850368	.2969982	13.29122	.3531806	.4908297
#2	72.47039	.2802544	.2959442	13.33002	.3538106	.4906348
#3	72.10965	.2846579	.2962716	13.36472	.3519014	.4938345

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01MS Acquired: 7/23/2025 14:23:30 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.6416320	.2447722	F 18.06101	5.598053	17.11072	.1948406
Stddev	.0028127	.0009096	.09437	.012388	.06376	.0023263
%RSD	.4383652	.3716170	.5225175	.2212966	.3726581	1.193949
#1	.6396559	.2440516	17.96320	5.587004	17.08556	.1974266
#2	.6403878	.2444708	18.15152	5.595709	17.06338	.1941768
#3	.6448522	.2457943	18.06832	5.611446	17.18323	.1929183

Elem	Sr4077
Units	ppm
Avg	.7557797
Stddev	.0009913
%RSD	.1311574
#1	.7569051
#2	.7553977
#3	.7550362

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5188.472	83813.88	7832.957	4294.974	6132.697
Stddev	6.278	281.75	10.726	13.437	9.579
%RSD	.1209981	.3361584	.1369335	.3128509	.1561905
#1	5193.723	84138.46	7826.881	4295.913	6141.380
#2	5190.175	83670.72	7845.341	4307.917	6134.289
#3	5181.518	83632.46	7826.648	4281.092	6122.422

Sample Name: Q2653-01MSD Acquired: 7/23/2025 14:27:28 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7003554**	**1.649693**	**.7870087**	**1.754681**	**.7279978**	**2.070450**
Stddev	.0045046	.044547	.0041187	.008329	.0016314	.009952
%RSD	.6431869	2.700330	.5233386	.4746604	.2240970	.4806589
#1	.6965452	1.599306	.7846248	1.747042	.7276738	2.080767
#2	.7053269	1.665921	.7846367	1.753441	.7265526	2.060909
#3	.6991940	1.683850	.7917646	1.763561	.7297669	2.069675

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2376967**	**.1789369**	**.1638570**	**189.8806**	**.5626061**	**.4069134**
Stddev	.0010667	.0005935	.0006061	1.1349	.0014390	.0008702
%RSD	.4487528	.3316982	.3699185	.5976791	.2557727	.2138611
#1	.2368734	.1789783	.1634753	189.1887	.5624992	.4063114
#2	.2373151	.1783238	.1635398	189.2628	.5612235	.4065176
#3	.2389017	.1795086	.1645559	191.1903	.5640955	.4079112

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6018539**	**2.726780**	**.1805022**	**64.62122**	**1.859380**	**.0692788**
Stddev	.0013020	.015122	.0009576	.37614	.006310	.0034438
%RSD	.2163375	.5545737	.5305431	.5820622	.3393377	4.970952
#1	.6012974	2.737360	.1811494	64.65593	1.859163	.0673857
#2	.6009227	2.709460	.1794021	64.22893	1.853183	.0732539
#3	.6033418	2.733520	.1809551	64.97880	1.865796	.0671969

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**71.17589**	**.2682119**	**.2854161**	**12.74667**	**.3278333**	**.4677817**
Stddev	.14602	.0023587	.0009254	.02747	.0013633	.0020705
%RSD	.2051497	.8794323	.3242447	.2155280	.4158512	.4426259
#1	71.29743	.2699221	.2861407	12.71591	.3269309	.4663185
#2	71.01392	.2655210	.2843736	12.76876	.3271674	.4668759
#3	71.21631	.2691927	.2857341	12.75535	.3294016	.4701508

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01MSD Acquired: 7/23/2025 14:27:28 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.6073886	.2339337	F 17.89513	5.280451	16.80626	.1802977
Stddev	.0015172	.0003410	.10643	.016568	.08466	.0015220
%RSD	.2497854	.1457682	.5947226	.3137648	.5037701	.8441343
#1	.6057154	.2340599	17.95474	5.273490	16.70882	.1800780
#2	.6077759	.2341937	17.77225	5.268498	16.86192	.1819176
#3	.6086746	.2335476	17.95838	5.299363	16.84802	.1788976

Elem	Sr4077
Units	ppm
Avg	.7252364
Stddev	.0037837
%RSD	.5217246
#1	.7228018
#2	.7233119
#3	.7295955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5186.012	84471.67	8042.876	4309.787	6126.255
Stddev	17.324	199.01	34.037	14.707	25.354
%RSD	.3340586	.2355933	.4231896	.3412474	.4138512
#1	5193.894	84436.89	8054.141	4293.128	6129.631
#2	5197.995	84685.78	8069.852	4320.970	6149.751
#3	5166.148	84292.34	8004.635	4315.263	6099.382

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01A Acquired: 7/23/2025 14:31:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7183229**	**1.658761**	**.8025186**	**1.805032**	**.7862714**	**2.180369**
Stddev	.0009422	.022578	.0031954	.013023	.0025193	.024624
%RSD	.1311691	1.361147	.3981665	.7215076	.3204100	1.129369
#1	.7187927	1.643293	.7998189	1.800335	.7865450	2.171286
#2	.7172381	1.648319	.8016904	1.795008	.7836265	2.208245
#3	.7189378	1.684670	.8060465	1.819752	.7886427	2.161577

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2453067**	**.1821100**	**.1679502**	**197.2570**	**.5942584**	**.4214101**
Stddev	.0012503	.0015948	.0004023	1.1718	.0018510	.0011603
%RSD	.5097100	.8757336	.2395087	.5940293	.3114789	.2753453
#1	.2455537	.1831247	.1677787	197.9161	.5962719	.4204771
#2	.2464151	.1829335	.1676622	197.9508	.5926306	.4210439
#3	.2439513	.1802718	.1684098	195.9041	.5938729	.4227094

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6222218**	**2.903550**	**.1853092**	**67.68775**	**1.929992**	**.0577319**
Stddev	.0025585	.022311	.0008016	.15215	.003710	.0005861
%RSD	.4111874	.7684164	.4325490	.2247818	.1922084	1.015179
#1	.6221046	2.912313	.1855725	67.75577	1.927283	.0579293
#2	.6197240	2.878187	.1859460	67.79402	1.928473	.0581937
#3	.6248369	2.920149	.1844091	67.51346	1.934220	.0570725

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.69172**	**.2748842**	**.2940870**	**13.43362**	**.3363142**	**.5010047**
Stddev	.42151	.0007279	.0008742	.08929	.0028113	.0018160
%RSD	.5568836	.2647933	.2972538	.6646992	.8359282	.3624747
#1	75.71950	.2740651	.2943176	13.50369	.3386265	.4994049
#2	75.25701	.2754569	.2931206	13.33308	.3371315	.5006304
#3	76.09866	.2751306	.2948228	13.46410	.3331848	.5029786

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2653-01A Acquired: 7/23/2025 14:31:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.6564343	.2480621	F 19.09056	5.484240	17.46136	.1848807
Stddev	.0011877	.0016381	.09137	.011481	.04106	.0027053
%RSD	.1809378	.6603708	.4786332	.2093472	.2351579	1.463241
#1	.6556666	.2494608	19.07550	5.490720	17.44407	.1846489
#2	.6558339	.2484655	19.00765	5.470984	17.43177	.1876944
#3	.6578024	.2462599	19.18853	5.491017	17.50824	.1822988

Elem	Sr4077
Units	ppm
Avg	.7556388
Stddev	.0021529
%RSD	.2849063
#1	.7571759
#2	.7565621
#3	.7531782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5189.788	83455.36	8070.680	4315.795	6127.770
Stddev	20.368	450.55	39.162	17.978	11.668
%RSD	.3924558	.5398639	.4852374	.4165661	.1904181
#1	5191.011	83129.55	8032.100	4316.968	6131.684
#2	5209.516	83969.52	8069.540	4333.158	6136.978
#3	5168.836	83267.03	8110.399	4297.259	6114.648

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV02 Acquired: 7/23/2025 14:35:23 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.129025**	**4.977250**	**4.944680**	**5.143004**	**5.130837**	**10.11304**	**10.23440**
Stddev	.024819	.044695	.004907	.013559	.021316	.08907	.12213
%RSD	.4838947	.8979910	.0992340	.2636314	.4154556	.8807653	1.193310
#1	5.116605	4.969419	4.939018	5.130682	5.123634	10.12014	10.34574
#2	5.112868	5.025343	4.947680	5.140801	5.114055	10.19836	10.10378
#3	5.157602	4.936987	4.947344	5.157529	5.154822	10.02064	10.25369

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2556987**	**2.481202**	**25.84913**	**.9733915**	**2.488922**	**1.277338**	**5.057143**
Stddev	.0011541	.004375	.05459	.0065595	.005196	.004256	.023830
%RSD	.4513554	.1763277	.2111963	.6738858	.2087702	.3331576	.4712106
#1	.2569740	2.476486	25.85487	.9690805	2.484459	1.273250	5.043243
#2	.2547261	2.481994	25.90063	.9809404	2.487680	1.277021	5.084659
#3	.2553960	2.485128	25.79189	.9701535	2.494626	1.281744	5.043528

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.558347**	**24.82302**	**2.504994**	**1.268859**	**24.30332**	**2.511577**	**2.566480**
Stddev	.014703	.28410	.003823	.001750	.23465	.021627	.006079
%RSD	.5747118	1.144499	.1525991	.1379550	.9654861	.8610915	.2368463
#1	2.551388	24.87060	2.501611	1.268444	24.11193	2.509251	2.559812
#2	2.575238	25.08032	2.504229	1.267354	24.56510	2.534272	2.571712
#3	2.548416	24.51813	2.509141	1.270780	24.23293	2.491206	2.567917

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.42230**	**5.121735**	**5.094133**	**5.002654**	**5.196056**	**4.921771**	**4.946027**
Stddev	.24928	.031161	.013122	.003619	.026866	.068130	.006322
%RSD	.9805551	.6084094	.2575944	.0723391	.5170400	1.384251	.1278246
#1	25.21518	5.156166	5.081985	4.998485	5.184507	4.862215	4.946578
#2	25.69897	5.095470	5.092364	5.004986	5.226766	4.996062	4.952056
#3	25.35274	5.113567	5.108050	5.004490	5.176897	4.907035	4.939447

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV02 Acquired: 7/23/2025 14:35:23 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.038560**	**5.025785**	**5.248013**
Stddev	.010780	.054851	.037890
%RSD	.2139433	1.091397	.7219811
#1	5.026461	5.006569	5.291714
#2	5.042073	5.087659	5.224348
#3	5.047144	4.983128	5.227978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5195.218**	**86232.63**	**8137.159**	**4411.543**	**6173.337**
Stddev	10.124	348.43	18.792	17.204	8.470
%RSD	.1948697	.4040582	.2309398	.3899665	.1371978
#1	5201.453	86621.96	8119.499	4426.494	6177.413
#2	5200.665	86125.84	8156.908	4415.394	6178.998
#3	5183.537	85950.10	8135.070	4392.740	6163.600

Sample Name: CCB02 Acquired: 7/23/2025 14:44:04 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**-.000808**	**.0002901**	**.0002387**	**-.001648**	**-.001502**	**.0049631**	**-.000845**
Stddev	.001746	.0014919	.0004396	.002528	.001161	.0029301	.000424
%RSD	216.1633	514.3169	184.1435	153.3732	77.31520	59.03818	50.12901
#1	.000694	.0018636	.0005790	.000992	-.001509	.0015797	-.001328
#2	-.000394	.0001105	.0003948	-.001891	-.000337	.0066611	-.000538
#3	-.002724	-.001104	-.000258	-.004046	-.002660	.0066486	-.000670

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000412**	**.0000774**	**.0545150**	**-.000221**	**-.000089**	**-.000504**	**-.005584**
Stddev	.0000052	.0000546	.0096241	.000164	.000139	.000277	.004523
%RSD	12.62886	70.55216	17.65401	74.24646	156.1255	54.99987	81.00025
#1	.0000440	.0000690	.0508229	-.000248	.000072	-.000286	-.002094
#2	.0000444	.0000275	.0472837	-.000371	-.000168	-.000410	-.010694
#3	.0000352	.0001357	.0654384	-.000045	-.000171	-.000817	-.003965

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000402**	**.0184751**	**.0002488**	**.0000805**	**-.005311**	**-.001800**	**.0002070**
Stddev	.000142	.0226393	.0002388	.0003579	.013693	.002022	.0002379
%RSD	35.35107	122.5397	95.95201	444.5775	257.7925	112.3621	114.9369
#1	-.000278	-.006841	.0001175	.0004806	-.018721	-.003989	.0003680
#2	-.000557	.036777	.0001046	-.000030	.008648	-.000002	.0003192
#3	-.000372	.025490	.0005244	-.000209	-.005861	-.001408	-.000066

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1057138**	**.0008966**	**.0003550**	**.0029414**	**-.000432**	**.0049585**	**.0050228**
Stddev	.0427768	.0005561	.0004335	.0001899	.000649	.0033877	.0004249
%RSD	40.46472	62.02540	122.1310	6.455634	150.1117	68.32207	8.458773
#1	.0641809	.0013955	.0002492	.0028199	.000280	.0085794	.0054680
#2	.1033259	.0002970	.0008316	.0031602	-.000587	.0044299	.0049787
#3	.1496344	.0009973	-.000016	.0028440	-.000991	.0018661	.0046216

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB02 Acquired: 7/23/2025 14:44:04 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0048160	-.007565	.0001842
Stddev	.0028276	.001003	.0000681
%RSD	58.71179	13.25145	36.96004
#1	.0020022	-.007346	.0002339
#2	.0076571	-.008659	.0001066
#3	.0047887	-.006691	.0002122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5481.111	89751.44	8280.884	4590.172	6956.372
Stddev	17.194	264.74	22.077	12.435	18.644
%RSD	.3137005	.2949712	.2666019	.2709112	.2680162
#1	5494.820	89720.61	8259.830	4577.457	6968.886
#2	5486.694	89503.47	8303.859	4590.752	6965.286
#3	5461.819	90030.26	8278.964	4602.307	6934.944

Sample Name: CRI01 Acquired: 7/23/2025 14:53:15 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0230967	.0356663	.0113134	.0158485	.0487264	.1106567	.1035175
Stddev	.0005582	.0023845	.0005353	.0027237	.0010138	.0031352	.0006041
%RSD	2.416791	6.685447	4.731191	17.18581	2.080594	2.833279	.5835297
#1	.0225293	.0382552	.0118491	.0135331	.0496755	.1141614	.1038340
#2	.0236453	.0351837	.0113125	.0151629	.0488455	.1096899	.1028209
#3	.0231155	.0335601	.0107786	.0188495	.0476584	.1081187	.1038975

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063181	.0056688	2.113026	.0094597	.0294772	.0215616	.1012281
Stddev	.0000786	.0000475	.008889	.0001620	.0001847	.0003196	.0040317
%RSD	1.243475	.8372671	.4206981	1.712930	.6266208	1.482200	3.982828
#1	.0062690	.0057235	2.122861	.0095730	.0296342	.0219080	.1058820
#2	.0062766	.0056432	2.105564	.0092741	.0295236	.0212781	.0987999
#3	.0064087	.0056396	2.110652	.0095320	.0292737	.0214987	.0990022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211429	2.085728	.0399425	.0109124	1.966418	.0384455	.0421365
Stddev	.0001072	.024675	.0005771	.0003640	.002913	.0010822	.0001796
%RSD	.5072325	1.183052	1.444752	3.335375	.1481229	2.814918	.4262585
#1	.0211100	2.078117	.0397957	.0107700	1.964110	.0377607	.0421401
#2	.0210560	2.065754	.0405788	.0113260	1.969691	.0396931	.0419551
#3	.0212628	2.113312	.0394531	.0106411	1.965452	.0378826	.0423143

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.174548	.1016281	.1966602	.0368691	.0393329	.3270192	.0212793
Stddev	.022773	.0011194	.0016481	.0003935	.0003958	.0031805	.0022392
%RSD	1.047259	1.101457	.8380722	1.067182	1.006216	.9725575	10.52307
#1	2.152430	.1027924	.1981922	.0372775	.0395350	.3240458	.0196585
#2	2.197924	.1005599	.1968719	.0368371	.0395868	.3266394	.0203451
#3	2.173290	.1015321	.1949163	.0364925	.0388769	.3303725	.0238344

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CRI01 Acquired: 7/23/2025 14:53:15 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0193250	.0158004	.0224441
Stddev	.0017804	.0019650	.0000436
%RSD	9.212841	12.43631	.1943879
#1	.0193417	.0163930	.0224391
#2	.0210969	.0136073	.0224900
#3	.0175363	.0174009	.0224031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5481.084	91449.82	8523.208	4598.484	6830.802
Stddev	35.431	245.03	19.704	10.924	48.134
%RSD	.6464284	.2679362	.2311858	.2375616	.7046663
#1	5459.031	91460.49	8500.604	4588.546	6794.968
#2	5462.267	91199.63	8536.762	4596.724	6811.925
#3	5521.954	91689.33	8532.257	4610.181	6885.514

Sample Name: Q2639-09 Acquired: 7/23/2025 15:01:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.2358068**	**.0080663**	**.3578990**	**-.036204**	**-.006599**	**178.7979**	**1.352876**
Stddev	.0017464	.0032443	.0006103	.004033	.000107	.2354	.002560
%RSD	.7406107	40.21996	.1705152	11.13822	1.628729	.1316681	.1891946
#1	.2376051	.0051655	.3585206	-.031633	-.006702	178.9629	1.355452
#2	.2356979	.0074640	.3573007	-.037723	-.006487	178.9025	1.350333
#3	.2341174	.0115696	.3578756	-.039257	-.006607	178.5283	1.352843

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0116860**	**.0069033**	**85.33341**	**.2736446**	**.1766200**	**.7112557**	**291.1062**
Stddev	.0000760	.0001347	.26984	.0014922	.0002802	.0022636	1.8084
%RSD	.6499700	1.951572	.3162149	.5453142	.1586661	.3182514	.6212022
#1	.0117421	.0067601	85.64370	.2727829	.1768101	.7086878	291.9215
#2	.0115996	.0070275	85.20281	.2727832	.1762982	.7129615	289.0337
#3	.0117165	.0069224	85.15372	.2753676	.1767518	.7121180	292.3632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.966521**	**67.72864**	**.3257088**	**.0133816**	**4.592659**	**.4402880**	**1.131872**
Stddev	.013005	.19531	.0006595	.0007688	.023926	.0034217	.003873
%RSD	.2179673	.2883654	.2024717	5.745493	.5209574	.7771596	.3421902
#1	5.981379	67.90160	.3254383	.0137903	4.585656	.4428364	1.133247
#2	5.957204	67.76749	.3252276	.0124947	4.573017	.4363990	1.127499
#3	5.960980	67.51683	.3264605	.0138597	4.619306	.4416288	1.134870

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**62.84875**	**.1099795**	**.0135511**	**.0249935**	**11.64241**	**2.101903**	**14.10218**
Stddev	.33231	.0048624	.0004285	.0002783	.03284	.018144	.06430
%RSD	.5287472	4.421149	3.162393	1.113444	.2820315	.8632397	.4559675
#1	62.89331	.1135499	.0138247	.0252873	11.67951	2.109027	14.12841
#2	62.49640	.1044417	.0130572	.0247338	11.61711	2.081278	14.02891
#3	63.15653	.1119468	.0137713	.0249595	11.63060	2.115404	14.14921

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2639-09 Acquired: 7/23/2025 15:01:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	12.26401	.4074002	.0915284
Stddev	.07312	.0014865	.0014648
%RSD	.5962090	.3648682	1.600422
#1	12.25352	.4057439	.0916232
#2	12.19670	.4078384	.0929436
#3	12.34180	.4086183	.0900185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6089.969	104289.5	10706.57	5152.944	5859.528
Stddev	17.120	191.6	57.39	32.163	12.752
%RSD	.2811261	.1837586	.5360377	.6241628	.2176224
#1	6106.868	104136.0	10685.08	5124.754	5869.925
#2	6090.404	104504.3	10663.02	5187.978	5863.358
#3	6072.635	104228.2	10771.60	5146.100	5845.300

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-21DLX5 Acquired: 7/23/2025 15:06:02 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0292460**	**.0105202**	**.0731071**	**-.024722**	**-.008321**	**49.43363**	**.1238620**
Stddev	.0021209	.0013177	.0006077	.001662	.001348	.01462	.0008923
%RSD	7.252040	12.52518	.8311940	6.724348	16.20225	.0295757	.7204350
#1	.0287315	.0108180	.0731924	-.022956	-.007821	49.41864	.1229098
#2	.0315769	.0090791	.0724613	-.024953	-.007294	49.43442	.1239972
#3	.0274297	.0116635	.0736676	-.026256	-.009848	49.44784	.1246790

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084717**	**-.004108**	**3.418862**	**.0690563**	**.0266207**	**.0635659**	**183.5461**
Stddev	.0000559	.000204	.018214	.0003574	.0002546	.0009062	.1978
%RSD	.6604483	4.967968	.5327521	.5175554	.9564771	1.425574	.1077521
#1	.0084076	-.004005	3.400015	.0686910	.0268083	.0645200	183.3277
#2	.0084970	-.004343	3.420201	.0690726	.0263308	.0627169	183.7130
#3	.0085106	-.003977	3.436369	.0694053	.0267229	.0634608	183.5976

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5673729**	**6.292962**	**.0336599**	**.0059002**	**1.507189**	**.1508513**	**.1368390**
Stddev	.0018505	.032184	.0004783	.0003075	.003283	.0005143	.0006115
%RSD	.3261516	.5114278	1.420818	5.211384	.2178071	.3409063	.4468970
#1	.5662027	6.325871	.0341826	.0061888	1.509079	.1514150	.1375328
#2	.5664097	6.291459	.0335528	.0059351	1.509090	.1507313	.1366057
#3	.5695063	6.261556	.0332442	.0055768	1.503399	.1504077	.1363784

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.762905**	**.0019932**	**-.000761**	**.0033177**	**.9120591**	**.5416043**	**1.116447**
Stddev	.035360	.0031970	.000050	.0004983	.0055309	.0039305	.001974
%RSD	.7424117	160.3940	6.546011	15.01838	.6064229	.7257199	.1768358
#1	4.763150	.0010941	-.000709	.0032573	.9145501	.5456090	1.118715
#2	4.798143	.0055435	-.000765	.0028524	.9057207	.5414515	1.115111
#3	4.727423	-.000658	-.000808	.0038434	.9159065	.5377524	1.115516

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-21DLX5 Acquired: 7/23/2025 15:06:02 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.3773404	.0992001	-.138209
Stddev	.0045655	.0018061	.000170
%RSD	1.209904	1.820611	.1232155
#1	.3735079	.1004425	-.138041
#2	.3761219	.0971283	-.138381
#3	.3823915	.1000295	-.138206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5583.532	93527.00	9119.196	4789.255	6527.001
Stddev	6.819	40.21	30.787	11.623	5.280
%RSD	.1221281	.0429980	.3376076	.2426910	.0808874
#1	5583.296	93481.68	9118.121	4779.848	6531.628
#2	5590.465	93540.88	9150.506	4802.248	6528.125
#3	5576.833	93558.44	9088.960	4785.668	6521.250

Sample Name: Q2649-17 Acquired: 7/23/2025 15:10:09 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.2130088**	**.0199723**	**.4273062**	**-.072787**	**-.018333**	**84.40602**	**.3891668**
Stddev	.0020648	.0032284	.0013852	.003118	.000816	.44307	.0011862
%RSD	.9693434	16.16470	.3241712	4.284302	4.453458	.5249286	.3047915
#1	.2133750	.0185453	.4257690	-.076325	-.018862	83.90212	.3877988
#2	.2107854	.0236683	.4276918	-.071599	-.017393	84.73462	.3899086
#3	.2148659	.0177032	.4284577	-.070438	-.018744	84.58132	.3897930

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204210**	**-.007187**	**16.64407**	**.5234367**	**.0667533**	**.6817125**	**526.2188**
Stddev	.0001880	.000405	.03864	.0039346	.0005195	.0091463	5.5347
%RSD	.9208868	5.640188	.2321330	.7516849	.7782301	1.341661	1.051794
#1	.0202061	-.006800	16.61383	.5259951	.0662945	.6888524	519.8546
#2	.0205552	-.007608	16.63079	.5254089	.0666482	.6714031	529.9076
#3	.0205019	-.007154	16.68760	.5189060	.0673173	.6848821	528.8941

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9972805**	**5.817182**	**.0957268**	**.0159219**	**1.795987**	**.6478521**	**4.405750**
Stddev	.0035939	.050617	.0004181	.0019844	.005047	.0053248	.018383
%RSD	.3603700	.8701214	.4367496	12.46317	.2810153	.8219188	.4172508
#1	.9931505	5.795998	.0953903	.0136513	1.790544	.6429461	4.409651
#2	.9989940	5.874949	.0955953	.0173238	1.800512	.6535148	4.385729
#3	.9996970	5.780600	.0961948	.0167907	1.796906	.6470956	4.421869

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.92240**	**^ *****	**.0080573**	**.1281976**	**1.153083**	**3.294952**	**9.873977**
Stddev	.04415	-----	.0003130	.0003263	.005051	.051297	.014920
%RSD	.3703113	-----	3.884468	.2545103	.4380606	1.556844	.1511020
#1	11.91993	^ -----	.0080952	.1281943	1.148004	3.295568	9.873421
#2	11.87953	^ -----	.0077270	.1278730	1.158106	3.243349	9.859344
#3	11.96773	^ -----	.0083495	.1285255	1.153137	3.345938	9.889168

Sample Name: Q2649-17 Acquired: 7/23/2025 15:10:09 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.4825526	.2228756	-.389958
Stddev	.0022046	.0032573	.004669
%RSD	.4568545	1.461473	1.197357
#1	.4836225	.2207018	-.384586
#2	.4800173	.2266206	-.393042
#3	.4840181	.2213043	-.392246

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5849.376	96794.71	9566.478	4884.820	6407.867
Stddev	16.575	224.24	48.266	17.095	24.133
%RSD	.2833721	.2316630	.5045330	.3499669	.3766127
#1	5849.100	96733.24	9605.885	4887.238	6415.387
#2	5866.087	96607.62	9512.643	4900.578	6427.345
#3	5832.940	97043.28	9580.904	4866.645	6380.870

Sample Name: Q2649-17DUP Acquired: 7/23/2025 15:14:21 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.2118902**	**.0181870**	**.4331474**	**-.072500**	**-.015883**	**84.49324**	**.3896693**
Stddev	.0024987	.0005715	.0019456	.005352	.000417	.37650	.0014788
%RSD	1.179233	3.142519	.4491865	7.381425	2.628120	.4456021	.3794972
#1	.2143451	.0183748	.4323273	-.074209	-.015526	84.74383	.3902516
#2	.2119756	.0175451	.4353689	-.076788	-.016342	84.67561	.3907683
#3	.2093500	.0186409	.4317462	-.066502	-.015780	84.06028	.3879880

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0209821**	**-.006688**	**16.71191**	**.5304006**	**.0674206**	**.7052525**	**515.0219**
Stddev	.0002193	.000836	.08919	.0023266	.0000509	.0075926	5.1378
%RSD	1.045408	12.50632	.5336743	.4386516	.0754952	1.076584	.9975962
#1	.0210417	-.005974	16.64639	.5277247	.0673811	.7125438	510.2456
#2	.0211655	-.006481	16.81348	.5319453	.0674780	.7058230	514.3625
#3	.0207391	-.007608	16.67587	.5315318	.0674026	.6973907	520.4576

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.000681**	**5.773796**	**.0968253**	**.0108056**	**1.747038**	**.6502587**	**4.430678**
Stddev	.004089	.036210	.0003270	.0020225	.009327	.0022938	.021893
%RSD	.4086340	.6271434	.3377445	18.71703	.5338560	.3527450	.4941307
#1	1.001836	5.809282	.0968418	.0092571	1.740949	.6524265	4.409114
#2	1.004069	5.775205	.0971438	.0100659	1.757775	.6504927	4.452887
#3	.996139	5.736903	.0964904	.0130938	1.742389	.6478569	4.430034

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.80440**	**^ *****	**.0078245**	**.1297643**	**1.157073**	**3.232881**	**9.950118**
Stddev	.06641	-----	.0002083	.0010976	.003365	.006610	.024042
%RSD	.5625632	-----	2.662363	.8458516	.2907784	.2044638	.2416247
#1	11.75829	^ -----	.0080187	.1285783	1.154646	3.230383	9.945181
#2	11.77441	^ -----	.0078504	.1307444	1.160914	3.240376	9.976246
#3	11.88052	^ -----	.0076044	.1299701	1.155660	3.227884	9.928928

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-17DUP Acquired: 7/23/2025 15:14:21 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5015404	.2208855	-.378352
Stddev	.0094250	.0012365	.005512
%RSD	1.879214	.5597713	1.456803
#1	.5024697	.2194606	-.373430
#2	.5104664	.2216747	-.377318
#3	.4916852	.2215214	-.384308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5810.880	96057.56	9264.240	4891.066	6337.037
Stddev	3.753	494.83	79.233	35.241	6.807
%RSD	.0645805	.5151425	.8552604	.7205087	.1074167
#1	5809.438	96603.37	9271.484	4918.680	6343.643
#2	5808.062	95638.27	9181.634	4851.375	6330.046
#3	5815.140	95931.03	9339.603	4903.145	6337.422

Sample Name: Q2649-17LX5 Acquired: 7/23/2025 15:18:33 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0401655**	**.0034525**	**.0116404**	**-.018146**	**-.007071**	**17.01438**	**.0522237**
Stddev	.0014417	.0007956	.0003917	.002888	.001757	.01990	.0009396
%RSD	3.589464	23.04448	3.365261	15.91557	24.84942	.1169715	1.799199
#1	.0397942	.0033760	.0118577	-.019773	-.008598	17.03606	.0526651
#2	.0389457	.0026979	.0118753	-.019852	-.005150	17.01012	.0511446
#3	.0417565	.0042835	.0111882	-.014811	-.007465	16.99695	.0528613

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040780**	**-.001593**	**3.070604**	**.1197743**	**.0086875**	**.0485759**	**103.3073**
Stddev	.0000678	.000048	.018305	.0006681	.0000221	.0007102	.2981
%RSD	1.662966	2.999204	.5961387	.5577823	.2548103	1.461983	.2885678
#1	.0040956	-.001616	3.078013	.1193838	.0086828	.0485674	103.4284
#2	.0041352	-.001624	3.084043	.1193934	.0087117	.0492903	102.9676
#3	.0040031	-.001538	3.049756	.1205457	.0086681	.0478700	103.5257

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1382540**	**1.018757**	**.0116987**	**.0017539**	**.1468565**	**.1340882**	**.0703272**
Stddev	.0006947	.021408	.0003862	.0001969	.0105826	.0017947	.0006125
%RSD	.5024527	2.101338	3.301441	11.22546	7.206070	1.338419	.8709732
#1	.1383505	1.011761	.0112604	.0018779	.1494812	.1356661	.0696809
#2	.1388955	1.001723	.0118466	.0015269	.1352086	.1344628	.0708992
#3	.1375162	1.042787	.0119891	.0018568	.1558798	.1321358	.0704016

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.478847**	**-.020849**	**.0008568**	**.0013395**	**.2128488**	**.4620410**	**1.882151**
Stddev	.020536	.004578	.0001662	.0003275	.0014703	.0097713	.012119
%RSD	.8284498	21.96013	19.39623	24.45244	.6907899	2.114813	.6438785
#1	2.457924	-.019288	.0010333	.0015233	.2145023	.4691650	1.896098
#2	2.479645	-.026004	.0008339	.0009613	.2116883	.4660563	1.876164
#3	2.498973	-.017255	.0007033	.0015338	.2123558	.4509018	1.874191

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-17LX5 Acquired: 7/23/2025 15:18:33 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0603321	.0438694	-.077353
Stddev	.0014107	.0046071	.000281
%RSD	2.338208	10.50181	.3637989
#1	.0619383	.0477403	-.077478
#2	.0592944	.0450942	-.077031
#3	.0597635	.0387737	-.077551

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5638.554	91697.43	8441.787	4724.658	6892.870
Stddev	29.049	376.60	26.203	1.893	37.930
%RSD	.5151940	.4107006	.3103982	.0400580	.5502839
#1	5605.128	92017.80	8451.472	4726.804	6850.358
#2	5657.694	91791.89	8412.121	4723.229	6923.251
#3	5652.841	91282.59	8461.770	4723.940	6905.001

Sample Name: Q2649-17MS Acquired: 7/23/2025 15:22:45 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.9231550**	**1.451502**	**1.156114**	**1.433259**	**.4313685**	**104.8266**	**.5322914**
Stddev	.0057243	.025078	.001972	.007081	.0012980	.2395	.0027523
%RSD	.6200749	1.727715	.1705701	.4940297	.3008933	.2284920	.5170657
#1	.9291730	1.466233	1.155588	1.432396	.4303858	104.7744	.5302115
#2	.9177786	1.465727	1.154458	1.426648	.4308799	105.0880	.5354124
#3	.9225134	1.422546	1.158295	1.440731	.4328399	104.6176	.5312503

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1929025**	**.1691120**	**18.94752**	**.9306909**	**.2587603**	**.6175192**	**614.9204**
Stddev	.0004644	.0013077	.04412	.0025166	.0008737	.0079544	6.3670
%RSD	.2407388	.7732560	.2328619	.2703968	.3376515	1.288121	1.035419
#1	.1934362	.1679065	18.95176	.9324491	.2584692	.6087259	622.2430
#2	.1926808	.1689273	18.98937	.9318156	.2580693	.6196178	610.6905
#3	.1925905	.1705022	18.90144	.9278082	.2597424	.6242139	611.8277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.036014**	**10.72498**	**.5660599**	**.0700734**	**3.412424**	**1.007748**	**1.344221**
Stddev	.004320	.01589	.0025237	.0017089	.017460	.002282	.005311
%RSD	.4169872	.1481129	.4458435	2.438746	.5116457	.2263978	.3950621
#1	1.034678	10.74146	.5649711	.0720248	3.424967	1.005126	1.349698
#2	1.040844	10.70977	.5642633	.0693517	3.392483	1.008833	1.343870
#3	1.032519	10.72370	.5689453	.0688438	3.419821	1.009284	1.339094

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.16368**	**^ *****	**.3699376**	**.7079102**	**1.458080**	**3.628665**	**17.16578**
Stddev	.10720	-----	.0015080	.0011961	.003466	.030966	.04527
%RSD	.4436256	-----	.4076497	.1689561	.2377230	.8533708	.2637136
#1	24.28375	^ -----	.3707538	.7077282	1.454082	3.662991	17.12120
#2	24.12969	^ -----	.3681973	.7068156	1.460232	3.620173	17.16444
#3	24.07760	^ -----	.3708615	.7091868	1.459928	3.602831	17.21170

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-17MS Acquired: 7/23/2025 15:22:45 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5798726	.4446541	-.286545
Stddev	.0080147	.0033223	.006756
%RSD	1.382151	.7471614	2.357653
#1	.5732795	.4473371	-.294232
#2	.5887935	.4409380	-.281553
#3	.5775449	.4456871	-.283849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5780.555	97929.65	9224.000	4941.174	6175.284
Stddev	11.422	342.03	24.658	28.129	11.363
%RSD	.1975901	.3492569	.2673230	.5692748	.1840139
#1	5786.907	97589.85	9212.940	4908.703	6185.561
#2	5787.389	97925.22	9206.808	4956.737	6177.211
#3	5767.369	98273.86	9252.251	4958.082	6163.080

Sample Name: Q2649-17MSD Acquired: 7/23/2025 15:26:50 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.9091771**	**1.418121**	**1.153825**	**1.417645**	**.4261533**	**104.7607**	**.5341799**
Stddev	.0052603	.078664	.002178	.003238	.0018394	.1051	.0007312
%RSD	.5785797	5.547086	.1887648	.2283904	.4316238	.1002881	.1368780
#1	.9035569	1.329564	1.151327	1.414991	.4255449	104.7603	.5333675
#2	.9099921	1.479902	1.154825	1.421252	.4282198	104.6558	.5347852
#3	.9139824	1.444896	1.155324	1.416692	.4246953	104.8659	.5343870

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1938527**	**.1674359**	**18.89570**	**.9461711**	**.2578969**	**.6186143**	**613.3074**
Stddev	.0009004	.0010078	.11555	.0005507	.0006478	.0061858	3.0061
%RSD	.4644767	.6019147	.6114988	.0581983	.2511981	.9999488	.4901539
#1	.1932680	.1663865	18.81672	.9457008	.2571762	.6124787	616.0683
#2	.1934006	.1683963	18.84206	.9460356	.2580837	.6248492	610.1048
#3	.1948896	.1675248	19.02831	.9467768	.2584308	.6185148	613.7490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.035330**	**10.63403**	**.5639280**	**.0690233**	**3.446371**	**1.014923**	**1.346242**
Stddev	.005261	.02064	.0011757	.0004026	.034473	.003911	.001670
%RSD	.5081585	.1941329	.2084897	.5833129	1.000264	.3853513	.1240393
#1	1.032290	10.61891	.5633009	.0694764	3.453021	1.010919	1.346565
#2	1.032295	10.62563	.5631988	.0687063	3.477034	1.015116	1.347727
#3	1.041405	10.65755	.5652843	.0688874	3.409058	1.018734	1.344434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.32640**	**^ *****	**.3679375**	**.7030205**	**1.457713**	**3.537159**	**16.99713**
Stddev	.14758	-----	.0002100	.0029069	.008200	.068499	.03859
%RSD	.6066815	-----	.0570633	.4134898	.5624937	1.936560	.2270429
#1	24.36768	^ -----	.3678771	.6997382	1.451645	3.582548	16.95306
#2	24.44895	^ -----	.3677643	.7052699	1.454452	3.570563	17.02488
#3	24.16257	^ -----	.3681710	.7040534	1.467041	3.458366	17.01345

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-17MSD Acquired: 7/23/2025 15:26:50 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5709696	.4480885	-.284605
Stddev	.0083929	.0032295	.003003
%RSD	1.469944	.7207218	1.055260
#1	.5618958	.4493271	-.287439
#2	.5784545	.4444231	-.281457
#3	.5725584	.4505153	-.284920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5869.663	97193.67	9183.350	4945.631	6277.494
Stddev	6.015	202.51	61.612	9.199	12.419
%RSD	.1024753	.2083540	.6709066	.1859926	.1978339
#1	5875.105	97110.44	9217.976	4937.712	6291.642
#2	5870.679	97046.04	9219.859	4943.460	6268.395
#3	5863.205	97424.53	9112.215	4955.721	6272.444

Sample Name: Q2649-17A Acquired: 7/23/2025 15:30:54 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.8874247**	**1.576151**	**.9641525**	**1.634032**	**.7225705**	**83.16237**	**.4391731**
Stddev	.0037680	.024516	.0013508	.003167	.0020356	.30949	.0020073
%RSD	.4246005	1.555461	.1401016	.1937856	.2817219	.3721464	.4570602
#1	.8842738	1.576088	.9626765	1.634907	.7240051	82.80658	.4368795
#2	.8915985	1.600698	.9644538	1.636669	.7202406	83.36930	.4400310
#3	.8864016	1.551666	.9653272	1.630520	.7234656	83.31121	.4406090

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1928824**	**.1785431**	**15.18586**	**.8940860**	**.2430856**	**.4638162**	**496.7740**
Stddev	.0011694	.0002739	.11000	.0065861	.0006704	.0039997	4.9768
%RSD	.6062969	.1533881	.7243744	.7366344	.2757850	.8623395	1.001818
#1	.1915330	.1783881	15.06596	.8871825	.2424495	.4661764	494.5008
#2	.1935120	.1788594	15.20949	.9003007	.2430216	.4660741	493.3397
#3	.1936021	.1783820	15.28212	.8947749	.2437857	.4591982	502.4815

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8250365**	**6.283880**	**.5548461**	**.0814614**	**3.487722**	**.9082018**	**.5142303**
Stddev	.0045007	.050385	.0017083	.0016849	.023777	.0050756	.0045085
%RSD	.5455164	.8018195	.3078854	2.068331	.6817211	.5588656	.8767533
#1	.8198684	6.225757	.5532480	.0810532	3.461291	.9023453	.5090607
#2	.8271469	6.315166	.5546436	.0800181	3.494502	.9109343	.5173472
#3	.8280943	6.310717	.5566466	.0833129	3.507372	.9113258	.5162830

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.94600**	**^ *****	**.3874073**	**.6942881**	**1.187516**	**3.084081**	**15.23652**
Stddev	.13721	-----	.0000996	.0025940	.008261	.027879	.02689
%RSD	.6550761	-----	.0257082	.3736250	.6956140	.9039580	.1764835
#1	20.80403	^ -----	.3875162	.6916364	1.177979	3.053673	15.22009
#2	20.95608	^ -----	.3873848	.6968204	1.192415	3.090133	15.26756
#3	21.07790	^ -----	.3873209	.6944075	1.192155	3.108437	15.22192

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2649-17A Acquired: 7/23/2025 15:30:54 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.3347001	.3798499	-.190481
Stddev	.0022949	.0017449	.004341
%RSD	.6856560	.4593602	2.278888
#1	.3320502	.3778604	-.189900
#2	.3360098	.3811201	-.186460
#3	.3360402	.3805693	-.195083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5739.907	97733.71	9477.729	4937.126	6237.357
Stddev	16.631	375.22	53.130	36.267	28.587
%RSD	.2897443	.3839228	.5605795	.7345746	.4583224
#1	5759.110	98162.64	9538.766	4975.433	6270.362
#2	5730.454	97466.24	9441.856	4932.624	6221.373
#3	5730.157	97572.27	9452.565	4903.320	6220.338

Sample Name: PB168974BL Acquired: 7/23/2025 15:34:59 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0000458**	**.0002255**	**-.000646**	**-.004729**	**-.002264**	**.0075668**	**-.001785**
Stddev	.0015757	.0014895	.000884	.002426	.002399	.0119490	.001264
%RSD	3443.116	660.5394	136.7443	51.31161	105.9612	157.9134	70.80743
#1	.0002071	-.000909	-.000328	-.005313	-.000412	-.003683	-.003234
#2	-.001604	.001912	.000034	-.006809	-.004974	.006273	-.000912
#3	.001535	-.000327	-.001645	-.002063	-.001406	.020110	-.001209

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000001**	**-.000034**	**-.018980**	**.0003510**	**-.000039**	**-.000134**	**.0355386**
Stddev	.000089	.000047	.006290	.0003139	.000250	.000083	.0074610
%RSD	16206.73	138.0872	33.14005	89.42868	639.3652	61.44904	20.99407
#1	-.000101	-.000085	-.022397	.0007126	.000151	-.000062	.0282422
#2	.000069	.000007	-.022822	.0001922	-.000322	-.000224	.0431539
#3	.000030	-.000023	-.011721	.0001483	.000054	-.000118	.0352196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000298**	**.0134006**	**.0002376**	**.0007997**	**-.021295**	**-.000877**	**.0000422**
Stddev	.000282	.0162978	.0003368	.0006815	.018008	.000813	.0002285
%RSD	94.58605	121.6201	141.7411	85.21614	84.56176	92.68126	541.1037
#1	.000024	.0065278	.0001485	.0006549	-.027429	.000058	-.000185
#2	-.000500	.0016649	-.000046	.0015419	-.035435	-.001269	.000272
#3	-.000418	.0320090	.000610	.0002022	-.001022	-.001420	.000040

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0971525**	**-.002181**	**.0001176**	**-.000969**	**-.001918**	**-.006353**	**.0039068**
Stddev	.0125215	.000507	.0003789	.000104	.000379	.003755	.0012365
%RSD	12.88849	23.23958	322.2387	10.76465	19.74628	59.10235	31.65028
#1	.0978389	-.002251	-.000104	-.000991	-.002160	-.009505	.0053066
#2	.0843019	-.002649	.000555	-.000856	-.001481	-.002199	.0029631
#3	.1093167	-.001643	-.000099	-.001061	-.002112	-.007357	.0034508

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168974BL Acquired: 7/23/2025 15:34:59 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.000148**	**-.001746**	**-.000042**
Stddev	.002228	.001266	.000041
%RSD	1505.694	72.53859	98.47622
#1	-.002721	-.003022	.000005
#2	.001143	-.001726	-.000057
#3	.001134	-.000489	-.000074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5499.703**	**88218.72**	**8271.540**	**4527.137**	**6908.815**
Stddev	14.025	2940.31	20.449	134.659	23.382
%RSD	.2550201	3.332978	.2472200	2.974485	.3384303
#1	5496.322	89909.81	8258.259	4595.554	6893.441
#2	5487.678	89922.80	8261.273	4613.851	6897.282
#3	5515.110	84823.55	8295.088	4372.005	6935.723

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV03 Acquired: 7/23/2025 15:57:44 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.963758**	**4.651891**	**4.799919**	**4.973496**	**5.055231**	**9.865334**	**10.26534**
Stddev	.010908	.012948	.015188	.020401	.026698	.012760	.08980
%RSD	.2197555	.2783298	.3164226	.4101950	.5281179	.1293402	.8747826
#1	4.957623	4.654901	4.789908	4.962790	5.035604	9.871924	10.33063
#2	4.957299	4.637704	4.792454	4.960677	5.044458	9.873453	10.30246
#3	4.976353	4.663069	4.817395	4.997022	5.085632	9.850627	10.16293

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2515076**	**2.396153**	**25.38614**	**.9463145**	**2.424424**	**1.243995**	**4.991748**
Stddev	.0015171	.006325	.12826	.0108446	.007042	.005304	.023616
%RSD	.6032070	.2639682	.5052472	1.145986	.2904718	.4263918	.4731066
#1	.2529434	2.393158	25.41783	.9517060	2.420158	1.240264	4.998596
#2	.2499205	2.391881	25.24501	.9534067	2.420563	1.241655	5.011183
#3	.2516589	2.403419	25.49559	.9338307	2.432553	1.250067	4.965464

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.511765**	**24.19735**	**2.436592**	**1.242269**	**23.71378**	**2.470931**	**2.523509**
Stddev	.007245	.05803	.006860	.012681	.22295	.006963	.032560
%RSD	.2884338	.2398181	.2815302	1.020778	.9401665	.2818007	1.290253
#1	2.518346	24.15274	2.433863	1.251625	23.75250	2.463632	2.540105
#2	2.504002	24.17635	2.431516	1.247347	23.91483	2.471659	2.544428
#3	2.512947	24.26295	2.444396	1.227837	23.47400	2.477501	2.485996

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14127**	**4.990262**	**5.020994**	**4.818937**	**5.116832**	**4.837651**	**4.721484**
Stddev	.23749	.032366	.016544	.012783	.021730	.043830	.025372
%RSD	.9446214	.6485879	.3294958	.2652644	.4246768	.9060240	.5373835
#1	25.23620	5.024353	5.013700	4.812105	5.129865	4.868574	4.707800
#2	25.31661	4.959953	5.009351	4.811021	5.091747	4.856888	4.705892
#3	24.87100	4.986480	5.039932	4.833684	5.128886	4.787492	4.750761

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV03 Acquired: 7/23/2025 15:57:44 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.735558**	**4.958313**	**5.208780**
Stddev	.011945	.006196	.006276
%RSD	.2522432	.1249598	.1204892
#1	4.726846	4.952210	5.201593
#2	4.730654	4.964598	5.213182
#3	4.749175	4.958131	5.211564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5365.788**	**87775.15**	**8304.869**	**4448.250**	**6441.983**
Stddev	17.593	662.81	45.291	45.353	15.454
%RSD	.3278817	.7551196	.5453521	1.019559	.2398960
#1	5372.171	87316.21	8268.748	4421.882	6443.264
#2	5379.299	87474.19	8355.682	4422.249	6456.757
#3	5345.894	88535.03	8290.177	4500.618	6425.929

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB03 Acquired: 7/23/2025 16:01:56 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0015785**	**.0018316**	**-.000771**	**-.003066**	**-.001300**	**.0110005**	**-.001478**
Stddev	.0005650	.0006687	.000390	.001822	.001315	.0056493	.000830
%RSD	35.79538	36.50923	50.56677	59.41751	101.1816	51.35477	56.13931
#1	.0010538	.0010837	-.001197	-.002377	-.000074	.0091290	-.001813
#2	.0015051	.0023719	-.000684	-.001689	-.001137	.0065244	-.000533
#3	.0021767	.0020392	-.000432	-.005132	-.002689	.0173481	-.002088

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000023**	**.0001787**	**-.024200**	**-.000394**	**-.000056**	**-.000144**	**-.004043**
Stddev	.000057	.0000334	.003598	.000226	.000165	.000348	.006245
%RSD	254.2138	18.70940	14.86603	57.32967	292.7530	241.0309	154.4736
#1	.000032	.0002156	-.023011	-.000627	.000077	.000076	-.003117
#2	-.000082	.0001504	-.021347	-.000175	-.000240	.000036	-.010699
#3	-.000017	.0001700	-.028241	-.000381	-.000006	-.000546	.001688

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000088**	**.0241204**	**.0005535**	**.0004795**	**-.042626**	**-.000514**	**.0003871**
Stddev	.000426	.0179924	.0001628	.0002781	.004239	.003556	.0001888
%RSD	481.9022	74.59413	29.41172	58.00723	9.945051	692.5067	48.76079
#1	.000394	.0262793	.0003666	.0006817	-.042536	-.002756	.0006045
#2	-.000414	.0051459	.0006644	.0001623	-.038433	.003587	.0002924
#3	-.000245	.0409359	.0006294	.0005943	-.046910	-.002372	.0002645

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1049419**	**.0057628**	**.0016292**	**-.000340**	**-.000454**	**-.011471**	**.0048459**
Stddev	.0221412	.0002855	.0001981	.000621	.000806	.007775	.0032716
%RSD	21.09850	4.954831	12.16081	182.5760	177.5299	67.77692	67.51199
#1	.1105769	.0054338	.0014004	-.000821	-.001215	-.019683	.0056954
#2	.1237211	.0059086	.0017470	-.000561	-.000537	-.010506	.0012334
#3	.0805277	.0059460	.0017400	.000361	.000390	-.004224	.0076089

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB03 Acquired: 7/23/2025 16:01:56 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0002698	-.003591	.0003813
Stddev	.0023348	.003128	.0000364
%RSD	865.2897	87.10071	9.553365
#1	-.001054	.000015	.0003640
#2	-.001103	-.005562	.0003566
#3	.002966	-.005228	.0004231

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5535.627	88243.41	8468.174	4525.265	7107.673
Stddev	17.842	351.76	19.964	14.437	24.901
%RSD	.3223047	.3986214	.2357580	.3190274	.3503448
#1	5546.179	88477.85	8479.344	4538.370	7123.480
#2	5545.674	87838.94	8445.125	4527.636	7120.569
#3	5515.027	88413.44	8480.054	4509.790	7078.968

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05DLX10 Acquired: 7/23/2025 16:10:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1334703**	**.2034717**	**.0201588**	**.0076008**	**.0703349**	**.2413684**
Stddev	.0030688	.0007927	.0006928	.0020101	.0018679	.0055201
%RSD	2.299246	.3896018	3.436605	26.44572	2.655720	2.286986
#1	.1330058	.2030549	.0196263	.0071848	.0720495	.2394188
#2	.1367449	.2043859	.0209421	.0097863	.0706109	.2475987
#3	.1306602	.2029743	.0199081	.0058312	.0683444	.2370877

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0145921**	**-.001494**	**-.002345**	**.5593465**	**-.001284**	**-.013840**
Stddev	.0007677	.000087	.000017	.0081123	.000301	.000208
%RSD	5.261226	5.834131	.7425672	1.450312	23.43846	1.501774
#1	.0149846	-.001412	-.002364	.5513248	-.001148	-.013604
#2	.0150842	-.001586	-.002330	.5675463	-.001630	-.013995
#3	.0137075	-.001483	-.002340	.5591685	-.001076	-.013920

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0361986**	**.1077362**	**.1540026**	**-.090526**	**.0020833**	**.0027693**
Stddev	.0011415	.0090666	.0009437	.027374	.0001887	.0001645
%RSD	3.153408	8.415570	.6127801	30.23908	9.055548	5.941427
#1	.0348823	.1020154	.1533219	-.081761	.0022460	.0027160
#2	.0367976	.1030033	.1550798	-.068609	.0021275	.0029538
#3	.0369160	.1181899	.1536060	-.121210	.0018765	.0026380

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**232.4589**	**-.143477**	**.1009368**	**474.7148**	**.6357160**	F **22.56252**
Stddev	1.3059	.001789	.0003480	6.0300	.0050958	.07129
%RSD	.5617692	1.247229	.3447559	1.270245	.8015788	.3159875
#1	233.6092	-.145450	.1011140	474.0595	.6299640	22.54512
#2	232.7282	-.141958	.1011605	481.0457	.6375184	22.50154
#3	231.0394	-.143023	.1005359	469.0391	.6396656	22.64091

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05DLX10 Acquired: 7/23/2025 16:10:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0327399	.0038714	3.441836	1.104057	2.688629	.0128763
Stddev	.0009484	.0012470	.016767	.002273	.010032	.0016201
%RSD	2.896930	32.21043	.4871450	.2058714	.3731295	12.58231
#1	.0326121	.0033495	3.454592	1.106421	2.681956	.0127861
#2	.0318618	.0052946	3.422845	1.101888	2.683765	.0113031
#3	.0337458	.0029702	3.448071	1.103860	2.700166	.0145396

Elem	Sr4077
Units	ppm
Avg	.0082166
Stddev	.0000664
%RSD	.8078317
#1	.0081685
#2	.0082923
#3	.0081890

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4717.700	78536.04	8023.198	3917.538	5965.948
Stddev	16.879	260.23	30.824	12.930	15.707
%RSD	.3577746	.3313527	.3841911	.3300481	.2632775
#1	4724.287	78388.66	8053.264	3904.383	5968.270
#2	4730.292	78382.96	7991.667	3930.230	5980.365
#3	4698.521	78836.52	8024.663	3918.001	5949.210

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05DUPDLX10 Acquired: 7/23/2025 16:14:46 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1268659**	**.1990800**	**.0207160**	**.0065311**	**.0651067**	**.2359272**	**.0138126**
Stddev	.0031813	.0006488	.0018575	.0021959	.0007193	.0097940	.0003095
%RSD	2.507623	.3258931	8.966748	33.62191	1.104747	4.151290	2.240683
#1	.1303210	.1998268	.0197088	.0090307	.0643329	.2289830	.0134861
#2	.1262189	.1987578	.0195795	.0056501	.0652324	.2471296	.0141017
#3	.1240578	.1986554	.0228596	.0049125	.0657549	.2316691	.0138501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001379**	**-.002300**	**.5412041**	**-.001858**	**-.013444**	**.0352762**	**.1080412**
Stddev	.000109	.000075	.0027579	.000343	.000191	.0007620	.0083732
%RSD	7.905580	3.254901	.5095943	18.46111	1.421199	2.159970	7.750031
#1	-.001425	-.002373	.5422832	-.002238	-.013630	.0360958	.1129667
#2	-.001457	-.002303	.5432595	-.001572	-.013454	.0351433	.1127837
#3	-.001254	-.002223	.5380698	-.001763	-.013249	.0345894	.0983732

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1496079**	**-.105123**	**.0022771**	**.0029927**	**216.2398**	**-.141792**	**.0970020**
Stddev	.0000876	.027919	.0000369	.0004202	2.7454	.003109	.0010669
%RSD	.0585328	26.55869	1.621803	14.04102	1.269596	2.192998	1.099918
#1	.1497086	-.100754	.0022803	.0028083	218.5243	-.144213	.0980914
#2	.1495488	-.079646	.0023123	.0026962	217.0010	-.142878	.0959591
#3	.1495665	-.134970	.0022387	.0034736	213.1942	-.138285	.0969556

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**451.9908**	**.6150574**	**21.88487**	**.0300478**	**.0030690**	**3.285671**	**1.076231**
Stddev	4.7497	.0015200	.08841	.0007577	.0009980	.019598	.012068
%RSD	1.050848	.2471285	.4039967	2.521487	32.51893	.5964683	1.121338
#1	456.5054	.6162582	21.94216	.0304436	.0033382	3.293120	1.077104
#2	452.4305	.6155657	21.78305	.0305256	.0039048	3.263440	1.063750
#3	447.0365	.6133484	21.92942	.0291742	.0019640	3.300451	1.087839

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05DUPDLX10 Acquired: 7/23/2025 16:14:46 Type: Unk
Method: 6010-200.7 NEW(v56) 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	2.607666	.0168333	.0079045
Stddev	.011888	.0014002	.0000551
%RSD	.4558673	8.317908	.6971222
#1	2.617259	.0169631	.0079430
#2	2.594367	.0153727	.0079291
#3	2.611372	.0181640	.0078414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4721.251	79184.03	8051.423	3956.866	5962.846
Stddev	12.233	176.19	37.491	12.638	16.034
%RSD	.2591031	.2225065	.4656440	.3194035	.2689025
#1	4710.511	78999.96	8034.944	3950.814	5951.038
#2	4734.567	79351.11	8024.995	3948.392	5981.101
#3	4718.673	79201.03	8094.331	3971.393	5956.400

Sample Name: Q2660-05LDLX50 Acquired: 7/23/2025 16:19:15 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0247377**	**.0438949**	**.0049353**	**-.002683**	**.0168618**	**.0505177**	**-.000703**
Stddev	.0019096	.0014623	.0009055	.003093	.0005437	.0134974	.000881
%RSD	7.719537	3.331329	18.34677	115.3124	3.224518	26.71813	125.2828
#1	.0226066	.0444614	.0059650	-.000325	.0163900	.0522390	-.001391
#2	.0253128	.0422341	.0042631	-.001538	.0167390	.0362423	-.001010
#3	.0262937	.0449892	.0045780	-.006185	.0174564	.0630719	.000290

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000393**	**-.000470**	**.1085613**	**-.000422**	**-.002535**	**.0072403**	**.0162652**
Stddev	.000060	.000050	.0099893	.000272	.000130	.0006034	.0069387
%RSD	15.37961	10.64936	9.201519	64.35632	5.124405	8.334291	42.65987
#1	-.000327	-.000446	.0987194	-.000502	-.002386	.0069174	.0082645
#2	-.000446	-.000527	.1082728	-.000120	-.002598	.0068671	.0198949
#3	-.000407	-.000436	.1186918	-.000646	-.002622	.0079365	.0206364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0313609**	**-.013303**	**.0009431**	**.0012090**	**44.49530**	**-.028609**	**.0203309**
Stddev	.0008437	.016906	.0002093	.0000481	.22752	.001615	.0001533
%RSD	2.690334	127.0914	22.19331	3.974712	.5113404	5.645434	.7540995
#1	.0307758	-.022810	.0011848	.0011536	44.35956	-.027144	.0202875
#2	.0309789	-.023315	.0008261	.0012388	44.36836	-.028342	.0205012
#3	.0323281	.006217	.0008184	.0012347	44.75797	-.030341	.0202039

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.07120**	**.1418184**	**4.519359**	**.0054298**	**.0003049**	**.6607744**	**.1933445**
Stddev	.34397	.0014977	.014237	.0002569	.0009673	.0207880	.0024952
%RSD	.3695777	1.056103	.3150199	4.732257	317.3048	3.146003	1.290544
#1	92.92010	.1414452	4.534939	.0057265	.0011403	.6476999	.1959149
#2	92.82864	.1405425	4.507027	.0052829	-.000755	.6847454	.1909320
#3	93.46485	.1434674	4.516112	.0052800	.000529	.6498780	.1931866

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05LDLX50 Acquired: 7/23/2025 16:19:15 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5661807	.0045423	.0016786
Stddev	.0024031	.0010962	.0000746
%RSD	.4244373	24.13241	4.446736
#1	.5687747	.0054950	.0016468
#2	.5640303	.0033442	.0016251
#3	.5657371	.0047878	.0017639

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5165.308	86518.48	8238.252	4322.042	6476.420
Stddev	5.152	302.17	161.677	11.265	8.790
%RSD	.0997406	.3492538	1.962520	.2606444	.1357189
#1	5167.823	86770.08	8365.845	4309.882	6486.554
#2	5168.719	86183.32	8292.479	4324.120	6470.873
#3	5159.381	86602.04	8056.432	4332.123	6471.833

Sample Name: Q2660-05MSDLX10 Acquired: 7/23/2025 16:23:33 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1744148**	**.2631056**	**.0569168**	**.1424620**	**.0990349**	**.3317288**	**.0231226**
Stddev	.0023507	.0026772	.0009242	.0061058	.0021678	.0160405	.0006435
%RSD	1.347749	1.017523	1.623794	4.285882	2.188938	4.835436	2.783164
#1	.1755811	.2601664	.0573215	.1372449	.1003488	.3345113	.0237848
#2	.1759543	.2637456	.0558592	.1409636	.1002231	.3461960	.0230835
#3	.1717091	.2654048	.0575696	.1491774	.0965328	.3144790	.0224995

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071420**	**.0062573**	**.5751504**	**.0169702**	**-.004430**	**.0481325**	**.2628437**
Stddev	.0000427	.0000762	.0034715	.0003070	.000325	.0006330	.0066087
%RSD	.5980923	1.217620	.6035859	1.808882	7.339233	1.315150	2.514294
#1	.0070927	.0062660	.5720457	.0169846	-.004776	.0483323	.2554789
#2	.0071661	.0063288	.5745068	.0172697	-.004131	.0486414	.2682564
#3	.0071672	.0061772	.5788987	.0166562	-.004384	.0474236	.2647959

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1489309**	**.0060989**	**.0239953**	**.0060170**	**218.5718**	**-.125885**	**.1079097**
Stddev	.0002914	.0142615	.0003299	.0009318	1.2171	.002971	.0003209
%RSD	.1956391	233.8355	1.374962	15.48589	.5568600	2.359977	.2973523
#1	.1486159	-.009197	.0241417	.0064994	219.9107	-.128892	.1077269
#2	.1489860	.019030	.0236175	.0066087	218.2726	-.122952	.1077221
#3	.1491907	.008463	.0242266	.0049429	217.5322	-.125811	.1082802

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**450.3480**	**.6248925**	**21.91757**	**.0582789**	**.0130566**	**3.243190**	**1.364624**
Stddev	.7189	.0035712	.13289	.0010949	.0014053	.041789	.008502
%RSD	.1596417	.5714946	.6063394	1.878772	10.76347	1.288509	.6229944
#1	450.2694	.6272946	21.81809	.0571368	.0114615	3.212206	1.355480
#2	451.1030	.6207886	21.86613	.0583801	.0135960	3.290718	1.366101
#3	449.6716	.6265941	22.06850	.0593196	.0141123	3.226647	1.372290

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05MSDLX10 Acquired: 7/23/2025 16:23:33 Type: Unk
Method: 6010-200.7 NEW(v56) 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	2.595336	.0270097	.0173840
Stddev	.034632	.0021484	.0001431
%RSD	1.334381	7.954036	.8232062
#1	2.563844	.0246188	.0172623
#2	2.589737	.0276325	.0175417
#3	2.632425	.0287779	.0173481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4733.717	79323.51	8118.936	3931.630	6011.819
Stddev	12.427	114.16	45.077	8.654	15.109
%RSD	.2625277	.1439163	.5552047	.2201014	.2513255
#1	4737.667	79417.26	8087.388	3941.615	6021.270
#2	4743.688	79196.38	8170.563	3926.302	6019.794
#3	4719.794	79356.90	8098.856	3926.974	5994.393

Sample Name: Q2660-05MSDDLX10 Acquired: 7/23/2025 16:27:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1720813**	**.2648982**	**.0579616**	**.1466857**	**.0977668**	**.3146213**	**.0234805**
Stddev	.0022167	.0016448	.0010677	.0028338	.0010376	.0169410	.0008479
%RSD	1.288192	.6209195	1.842155	1.931898	1.061344	5.384564	3.611193
#1	.1739849	.2666100	.0567288	.1485598	.0981205	.3001643	.0228149
#2	.1696476	.2647549	.0585924	.1434257	.0965986	.3332622	.0244352
#3	.1726115	.2633297	.0585635	.1480717	.0985814	.3104373	.0231915

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0073204**	**.0065628**	**.5913866**	**.0174590**	**-.004128**	**.0481156**	**.2564454**
Stddev	.0000884	.0001164	.0158006	.0000715	.000231	.0002349	.0069187
%RSD	1.207764	1.773671	2.671789	.4096238	5.586497	.4881522	2.697907
#1	.0073797	.0065676	.5838599	.0174795	-.004378	.0479486	.2644009
#2	.0072188	.0066768	.6095434	.0175181	-.004081	.0480140	.2530999
#3	.0073628	.0064441	.5807566	.0173795	-.003924	.0483842	.2518353

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1483628**	**-.010925**	**.0245453**	**.0055767**	**208.0959**	**-.121535**	**.1068073**
Stddev	.0023812	.021248	.0001190	.0003486	1.8788	.005028	.0004099
%RSD	1.605010	194.4918	.4848031	6.250898	.9028461	4.136714	.3837549
#1	.1468323	.013610	.0246802	.0059663	210.1781	-.121793	.1069370
#2	.1511063	-.023091	.0245002	.0054694	206.5273	-.126428	.1063483
#3	.1471498	-.023293	.0244554	.0052944	207.5825	-.116383	.1071367

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**437.1735**	**.6461489**	**21.74297**	**.0596377**	**.0130513**	**3.122376**	**1.373715**
Stddev	1.2064	.0057815	.05425	.0014473	.0011468	.013069	.010314
%RSD	.2759482	.8947607	.2494874	2.426813	8.786978	.4185434	.7508436
#1	436.7472	.6429552	21.72387	.0580893	.0128532	3.108795	1.379517
#2	438.5351	.6528227	21.70086	.0598673	.0142843	3.134864	1.361806
#3	436.2382	.6426688	21.80419	.0609565	.0120165	3.123469	1.379822

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05MSDDLX10 Acquired: 7/23/2025 16:27:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	2.577454	.0346637	.0177555
Stddev	.008069	.0030523	.0002885
%RSD	.3130467	8.805460	1.625005
#1	2.573008	.0316572	.0175262
#2	2.572587	.0377598	.0180795
#3	2.586768	.0345742	.0176608

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4732.119	78715.76	7735.443	3920.539	6003.981
Stddev	8.335	93.75	81.578	12.384	13.481
%RSD	.1761424	.1191018	1.054606	.3158635	.2245295
#1	4730.328	78676.06	7784.833	3906.392	5998.547
#2	4741.204	78648.38	7641.282	3929.414	6019.331
#3	4724.825	78822.82	7780.214	3925.811	5994.066

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-05ADLX10 Acquired: 7/23/2025 16:32:19 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.2304946**	**.3424222**	**.1017633**	**.2989148**	**.1411919**	**.4376306**
Stddev	.0041970	.0015537	.0013025	.0062828	.0013994	.0158424
%RSD	1.820865	.4537262	1.279904	2.101878	.9911525	3.620034
#1	.2295201	.3406486	.1019761	.2927580	.1399500	.4545589
#2	.2350932	.3430754	.1003676	.3053165	.1427082	.4351710
#3	.2268707	.3435427	.1029463	.2986699	.1409173	.4231619

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0345384**	**.0170262**	**.0162669**	**.6637041**	**.0380873**	**.0046511**
Stddev	.0011959	.0001049	.0002097	.0132647	.0008149	.0002911
%RSD	3.462464	.6162843	1.289046	1.998585	2.139594	6.257605
#1	.0355784	.0171474	.0160305	.6647139	.0374775	.0045890
#2	.0348051	.0169666	.0163395	.6499634	.0377717	.0049682
#3	.0332317	.0169647	.0164306	.6764351	.0390129	.0043961

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0646531**	**.4212647**	**.1766185**	**.0743194**	**.0500261**	**.0100956**
Stddev	.0003484	.0126394	.0012383	.0201201	.0002510	.0002072
%RSD	.5388645	3.000343	.7010909	27.07248	.5016348	2.052815
#1	.0646379	.4234071	.1779424	.0945719	.0497945	.0103289
#2	.0650088	.4326960	.1754888	.0740518	.0502927	.0099329
#3	.0643126	.4076910	.1764242	.0543344	.0499909	.0100250

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**212.5933**	**-.110864**	**.1239581**	**452.2585**	**.6911625**	F **22.83760**
Stddev	1.8649	.003573	.0015374	2.3373	.0042055	.14540
%RSD	.8772036	3.223258	1.240232	.5168057	.6084690	.6366763
#1	213.3918	-.114555	.1229917	452.1518	.6958012	22.67053
#2	210.4621	-.110617	.1231516	449.9764	.6900876	22.90668
#3	213.9259	-.107421	.1257309	454.6473	.6875988	22.93558

Sample Name: Q2660-05ADLX10 Acquired: 7/23/2025 16:32:19 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0932137	.0232037	3.400587	1.776870	2.707493	.0479166
Stddev	.0003550	.0009228	.030580	.016492	.026078	.0011483
%RSD	.3808973	3.976790	.8992456	.9281377	.9631791	2.396476
#1	.0928047	.0222590	3.368178	1.759068	2.677999	.0474120
#2	.0933942	.0241029	3.404652	1.791627	2.716985	.0492308
#3	.0934422	.0232491	3.428930	1.779914	2.727496	.0471070

Elem	Sr4077
Units	ppm
Avg	.0289711
Stddev	.0000744
%RSD	.2566765
#1	.0290180
#2	.0288853
#3	.0290098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4751.399	79945.21	7825.124	3964.409	6011.313
Stddev	28.276	547.76	64.627	27.317	30.441
%RSD	.5951028	.6851652	.8258855	.6890500	.5063898
#1	4783.123	80233.25	7751.668	3983.580	6043.874
#2	4742.221	80288.85	7850.462	3976.515	6006.500
#3	4728.852	79313.53	7873.242	3933.131	5983.566

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168974BS Acquired: 7/23/2025 16:36:41 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.6762582**	**1.667740**	**.8175843**	**1.701119**	**.7175366**	**1.756037**
Stddev	.0075200	.047836	.0086088	.018585	.0105290	.008366
%RSD	1.111994	2.868339	1.052958	1.092538	1.467375	.4764209
#1	.6706471	1.722717	.8133141	1.685793	.7096854	1.749004
#2	.6733248	1.635618	.8119454	1.695771	.7134230	1.753817
#3	.6848028	1.644884	.8274935	1.721792	.7295013	1.765289

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1772900**	**.1786524**	**.1638232**	**.9976567**	**.3421787**	**.1729251**
Stddev	.0009707	.0003955	.0017112	.0125873	.0005179	.0021951
%RSD	.5475227	.2214029	1.044519	1.261687	.1513605	1.269407
#1	.1768712	.1788268	.1631663	.9924416	.3421724	.1714873
#2	.1783998	.1781996	.1625379	1.012013	.3416639	.1718361
#3	.1765989	.1789307	.1657655	.988515	.3426997	.1754517

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2733858**	**2.642659**	**.1808035**	**1.705138**	**.4376025**	**.0666903**
Stddev	.0030232	.009467	.0009954	.006481	.0053755	.0000819
%RSD	1.105842	.3582322	.5505146	.3800932	1.228390	.1227932
#1	.2719579	2.638329	.1797692	1.710961	.4351918	.0667367
#2	.2713411	2.653516	.1817547	1.698156	.4338544	.0665958
#3	.2768585	2.636131	.1808866	1.706299	.4437614	.0667385

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.701192**	**.2630460**	**.1962662**	**9.585825**	**.2599740**	**.3670153**
Stddev	.022962	.0013140	.0006612	.071588	.0003432	.0035252
%RSD	.8500616	.4995441	.3368677	.7468062	.1320123	.9605086
#1	2.695195	.2626027	.1968538	9.595724	.2596289	.3649367
#2	2.726557	.2645244	.1963945	9.651949	.2603153	.3650237
#3	2.681823	.2620110	.1955503	9.509804	.2599779	.3710856

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168974BS Acquired: 7/23/2025 16:36:41 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5909790	.1767999	F .7422344	4.890358	F .0017570	.1723715
Stddev	.0058118	.0010194	.0071964	.046731	.0028965	.0035542
%RSD	.9834250	.5765955	.9695555	.9555707	164.8569	2.061919
#1	.5883804	.1758629	.7390430	4.871065	-.000830	.1699691
#2	.5869198	.1778854	.7504746	4.856362	.004886	.1764543
#3	.5976367	.1766514	.7371857	4.943646	.001215	.1706911

Elem	Sr4077
Units	ppm
Avg	.1799511
Stddev	.0003163
%RSD	.1757398
#1	.1798644
#2	.1803016
#3	.1796872

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5459.264	90765.37	8503.108	4638.823	6766.560
Stddev	54.488	104.43	24.159	26.687	60.584
%RSD	.9980881	.1150594	.2841230	.5752920	.8953489
#1	5499.890	90689.46	8479.431	4627.638	6800.508
#2	5480.558	90722.17	8527.722	4619.548	6802.559
#3	5397.345	90884.47	8502.170	4669.282	6696.613

Sample Name: FE 500PPM Acquired: 7/23/2025 16:40:44 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0269167	.0280897	-.014787	-.074171	-.034064	.0114550	-.000211
Stddev	.0033172	.0026201	.000829	.002165	.001366	.0041833	.001086
%RSD	12.32408	9.327592	5.605050	2.918507	4.011475	36.51953	515.5581
#1	.0245800	.0293435	-.014187	-.071694	-.035147	.0126438	-.000219
#2	.0307135	.0298472	-.015732	-.075118	-.034515	.0149153	-.001293
#3	.0254566	.0250783	-.014440	-.075700	-.032529	.0068060	.000880

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082837	-.015868	1.843076	-.009463	.0108060	.1313701	487.4108
Stddev	.0001544	.000042	.012116	.000099	.0002209	.0015403	.7783
%RSD	1.863288	.2659437	.6573758	1.044278	2.043849	1.172466	.1596778
#1	.0081201	-.015820	1.829151	-.009349	.0105573	.1310209	486.6646
#2	.0083044	-.015892	1.851208	-.009512	.0108816	.1300345	488.2176
#3	.0084267	-.015893	1.848869	-.009527	.0109792	.1330550	487.3502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030938	.0525101	.0119726	.0142806	.6509283	.0058506	.0101625
Stddev	.000581	.0325584	.0002601	.0009111	.0112557	.0047055	.0002788
%RSD	1.877354	62.00404	2.172837	6.379776	1.729181	80.42793	2.743482
#1	-.030409	.0543601	.0122250	.0139991	.6498391	.0004199	.0104745
#2	-.031560	.0190661	.0119874	.0135435	.6626890	.0084164	.0099375
#3	-.030846	.0841040	.0117054	.0152992	.6402567	.0087156	.0100756

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.801110	-.074898	.0862442	-.001500	-.000153	.0977148	.0217390
Stddev	.024975	.013385	.0006669	.000939	.000204	.0007629	.0010933
%RSD	1.386634	17.87142	.7732551	62.62385	133.6966	.7807698	5.029020
#1	1.827516	-.063278	.0861678	-.001435	-.000244	.0985767	.0210337
#2	1.777867	-.071883	.0856188	-.000595	.000081	.0974420	.0229983
#3	1.797947	-.089534	.0869460	-.002470	-.000295	.0971258	.0211848

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: FE 500PPM Acquired: 7/23/2025 16:40:44 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.103879**	**.1860445**	**-.467571**
Stddev	.000798	.0014278	.000740
%RSD	.7683191	.7674405	.1583613
#1	-.104756	.1875730	-.466822
#2	-.103194	.1847451	-.468302
#3	-.103687	.1858154	-.467588

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5307.318**	**87973.06**	**8347.214**	**4481.893**	**6610.167**
Stddev	6.532	470.47	109.388	12.674	12.449
%RSD	.1230723	.5347936	1.310473	.2827715	.1883291
#1	5306.565	88307.48	8448.519	4480.323	6614.545
#2	5314.194	87435.08	8361.898	4470.078	6619.836
#3	5301.195	88176.62	8231.226	4495.279	6596.121

Sample Name: Q2660-02 Acquired: 7/23/2025 16:45:04 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0182916**	**-.000566**	**-.000797**	**-.001109**	**.0010560**	**.0769275**	**.2937688**
Stddev	.0015267	.002260	.001458	.001496	.0020508	.0055492	.0011725
%RSD	8.346532	399.4103	182.8256	134.8625	194.1970	7.213545	.3991368
#1	.0195966	-.001004	-.002086	.000609	.0034129	.0823021	.2938253
#2	.0166126	.001881	.000785	-.002126	-.000322	.0772618	.2949120
#3	.0186655	-.002574	-.001091	-.001811	.000077	.0712188	.2925690

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001077**	**-.000011**	**28.19308**	**.0007129**	**.0031753**	**.0032122**	**.0211941**
Stddev	.0000151	.000045	.16559	.0004848	.0001823	.0001902	.0022796
%RSD	14.01334	409.8482	.5873584	68.00646	5.742537	5.920284	10.75587
#1	.0001149	.000041	28.18510	.0002909	.0032487	.0031063	.0228297
#2	.0001178	-.000036	28.36251	.0006054	.0029677	.0030985	.0221625
#3	.0000903	-.000038	28.03161	.0012425	.0033096	.0034317	.0185902

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0957173**	**3.736258**	**.0076459**	**.0007361**	**464.7014**	**-.003180**	**.4013808**
Stddev	.0006184	.024456	.0001799	.0003999	2.8253	.002100	.0004716
%RSD	.6460694	.6545624	2.353455	54.32350	.6079745	66.01605	.1175029
#1	.0955228	3.708049	.0077048	.0002755	467.7552	-.004968	.4016180
#2	.0964095	3.751506	.0077890	.0009946	464.1684	-.000868	.4016867
#3	.0952195	3.749218	.0074439	.0009383	462.1806	-.003705	.4008376

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.631794**	**.3356513**	**.0103337**	**-.002818**	**-.001394**	**6.031368**	**.0827072**
Stddev	.059554	.0043807	.0001972	.000091	.001365	.060309	.0008375
%RSD	.6183108	1.305148	1.908492	3.213465	97.88759	.9999271	1.012568
#1	9.597160	.3388894	.0105597	-.002765	-.000394	6.000471	.0822078
#2	9.597662	.3373977	.0102455	-.002766	-.002950	5.992768	.0822397
#3	9.700561	.3306667	.0101960	-.002922	-.000840	6.100865	.0836741

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-02 Acquired: 7/23/2025 16:45:04 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**4.571115**	**.0077674**	**.3115709**		
Stddev	.020133	.0024498	.0011344		
%RSD	.4404386	31.53951	.3640905		
#1	4.558619	.0073820	.3119201		
#2	4.560385	.0103870	.3124897		
#3	4.594340	.0055331	.3103030		

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5064.133**	**81288.00**	**7545.599**	**4230.124**	**5849.635**
Stddev	10.856	111.48	89.047	9.084	9.462
%RSD	.2143682	.1371408	1.180123	.2147493	.1617457
#1	5067.419	81164.77	7497.548	4224.982	5855.216
#2	5072.967	81317.40	7490.899	4224.776	5854.979
#3	5052.014	81381.84	7648.351	4240.613	5838.711

Sample Name: Q2660-04 Acquired: 7/23/2025 16:49:27 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.005846**	**-.001790**	**.0463193**	**.0001146**	**.0005833**	**.0781512**	**.0354988**
Stddev	.000750	.001265	.0003805	.0009087	.0003280	.0076105	.0013296
%RSD	12.82934	70.66372	.8214621	792.6923	56.23547	9.738179	3.745413
#1	-.006674	-.002764	.0463938	.0004290	.0005508	.0694094	.0364497
#2	-.005211	-.002247	.0459071	-.000910	.0009264	.0833004	.0339795
#3	-.005655	-.000360	.0466571	.000824	.0002728	.0817437	.0360671

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000207**	**.0015151**	**1.840117**	**.0017698**	**.0015468**	**.1236535**	**.6058647**
Stddev	.000060	.0000837	.021568	.0003545	.0001223	.0007532	.0021606
%RSD	28.78445	5.527070	1.172107	20.03217	7.908538	.6091142	.3566199
#1	-.000174	.0014581	1.849376	.0018434	.0016873	.1227840	.6082167
#2	-.000172	.0014760	1.815465	.0013842	.0014638	.1241045	.6054095
#3	-.000276	.0016112	1.855509	.0020817	.0014894	.1240720	.6039680

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0149021**	**.1800407**	**.0026809**	**.0005483**	**291.3874**	**.0014823**	**2.296903**
Stddev	.0002353	.0222909	.0000965	.0001372	1.7189	.0021893	.003923
%RSD	1.578770	12.38104	3.600922	25.02250	.5898918	147.6977	.1708096
#1	.0151704	.1715502	.0027267	.0006816	293.2313	.0039789	2.300047
#2	.0148048	.2053292	.0025700	.0004075	289.8295	-.000109	2.292507
#3	.0147310	.1632427	.0027460	.0005556	291.1013	.000577	2.298157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7312354**	**.0278150**	**.0019385**	**-.000346**	**.0010966**	**.1189310**	**2.195813**
Stddev	.0297461	.0005485	.0002079	.000407	.0001554	.0046864	.005372
%RSD	4.067921	1.972065	10.72525	117.7152	14.17089	3.940437	.2446541
#1	.7049628	.0279432	.0016985	-.000686	.0009667	.1135981	2.190081
#2	.7252107	.0272138	.0020556	-.000457	.0010544	.1223929	2.196627
#3	.7635326	.0282882	.0020615	.000105	.0012688	.1208019	2.200732

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2660-04 Acquired: 7/23/2025 16:49:27 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.6985844	-.008063	.0078142
Stddev	.0010321	.001586	.0000244
%RSD	.1477340	19.67370	.3124025
#1	.6997751	-.006241	.0077883
#2	.6979455	-.008812	.0078367
#3	.6980327	-.009137	.0078176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5203.025	86437.95	8467.148	4392.946	6185.835
Stddev	8.661	228.89	44.783	8.074	9.256
%RSD	.1664539	.2648007	.5289074	.1837908	.1496254
#1	5212.458	86224.41	8441.629	4391.557	6189.412
#2	5201.183	86679.59	8518.858	4401.624	6192.768
#3	5195.433	86409.85	8440.958	4385.656	6175.325

Sample Name: CCV04 Acquired: 7/23/2025 17:00:06 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.861716**	**4.617350**	**4.858541**	**4.795689**	**4.853622**	**9.888687**	**10.16057**
Stddev	.025199	.256509	.013204	.038255	.022910	.020139	.09418
%RSD	.5183184	5.555331	.2717661	.7976975	.4720121	.2036545	.9269057
#1	4.847896	4.612098	4.853207	4.778119	4.838042	9.869127	10.25158
#2	4.846450	4.363508	4.848839	4.769374	4.842898	9.909358	10.16661
#3	4.890802	4.876445	4.873577	4.839573	4.879927	9.887575	10.06351

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2634535**	**2.449433**	**25.68295**	**.9749326**	**2.445685**	**1.237963**	**4.891543**
Stddev	.0020774	.007331	.10470	.0035982	.005827	.003093	.023027
%RSD	.7885277	.2992813	.4076573	.3690767	.2382484	.2498061	.4707591
#1	.2615935	2.446623	25.64419	.9736984	2.442766	1.235866	4.895404
#2	.2656953	2.443923	25.80151	.9789855	2.441896	1.236508	4.866830
#3	.2630717	2.457753	25.60316	.9721139	2.452395	1.241514	4.912397

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.535053**	**24.68703**	**2.467105**	**1.235942**	**22.64649**	**2.468003**	**2.520647**
Stddev	.006739	.04796	.005517	.000939	.12115	.002075	.003492
%RSD	.2658419	.1942902	.2236192	.0759991	.5349401	.0840906	.1385423
#1	2.534808	24.73137	2.465128	1.237017	22.70624	2.467718	2.518891
#2	2.541912	24.63612	2.462848	1.235282	22.50707	2.466084	2.518383
#3	2.528440	24.69361	2.473338	1.235525	22.72615	2.470206	2.524669

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.92682**	**5.102950**	**4.939237**	**4.880059**	**5.095643**	**4.695025**	**4.991631**
Stddev	.11493	.038311	.023670	.030287	.014295	.028837	.036771
%RSD	.4610594	.7507543	.4792313	.6206220	.2805271	.6142075	.7366467
#1	25.01338	5.071297	4.924824	4.863177	5.104580	4.716510	4.963645
#2	24.79643	5.145540	4.926331	4.861977	5.103193	4.662251	4.977971
#3	24.97066	5.092014	4.966555	4.915025	5.079157	4.706313	5.033277

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV04 Acquired: 7/23/2025 17:00:06 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.736226**	**4.859579**	**5.177143**
Stddev	.065726	.009035	.038785
%RSD	1.387719	.1859289	.7491559
#1	4.694120	4.868442	5.135989
#2	4.702598	4.850380	5.182421
#3	4.811962	4.859916	5.213018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5272.959**	**82506.31**	**7581.452**	**4325.164**	**6207.893**
Stddev	13.336	286.27	82.020	6.145	17.873
%RSD	.2529164	.3469679	1.081844	.1420844	.2879013
#1	5279.727	82724.13	7645.881	4331.385	6211.046
#2	5281.554	82182.07	7489.122	4325.012	6223.979
#3	5257.596	82612.73	7609.353	4319.097	6188.653

Sample Name: CCB04 Acquired: 7/23/2025 17:04:18 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007156**	**.0044381**	**.0006693**	**-.001468**	**.0006337**	**.0060244**
Stddev	.0019722	.0020666	.0009045	.002752	.0007189	.0116561
%RSD	275.5811	46.56424	135.1488	187.4420	113.4469	193.4801
#1	.0021734	.0050817	.0008039	-.001199	.0009480	-.006505
#2	-.001528	.0021263	-.000295	-.004344	-.000189	.016546
#3	.001502	.0061064	.001499	.001139	.001142	.008033

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010312**	**.0000299**	**.0000488**	**.0213154**	**.0020292**	**.0000688**
Stddev	.0012249	.0000382	.0000441	.0064211	.0005702	.0000814
%RSD	118.7832	127.6474	90.30452	30.12409	28.09816	118.2297
#1	.0023753	.0000740	.0000127	.0256421	.0024103	.0001440
#2	.0007408	.0000073	.0000979	.0139377	.0013737	-.000018
#3	-.000022	.0000085	.0000358	.0243664	.0023036	.000080

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000407**	**.0265376**	**.0035267**	**.0330344**	**.0006678**	**.0006107**
Stddev	.0001083	.0049484	.0003361	.0141988	.0000627	.0004137
%RSD	266.1850	18.64689	9.528912	42.98168	9.388548	67.73614
#1	-.000063	.0208807	.0035394	.0337030	.0006969	.0002146
#2	.000032	.0286687	.0031845	.0468871	.0005959	.0010400
#3	.000153	.0300635	.0038562	.0185132	.0007107	.0005775

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1409155**	**-.001878**	**.0165557**	**.5680115**	**.0046018**	**.0011969**
Stddev	.0063174	.000744	.0004112	.0444347	.0010161	.0001183
%RSD	4.483076	39.61789	2.484000	7.822855	22.08009	9.884219
#1	.1336408	-.001068	.0161044	.5620928	.0040523	.0011895
#2	.1450190	-.002530	.0166536	.5268328	.0057743	.0010824
#3	.1440868	-.002035	.0169092	.6151089	.0039788	.0013186

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB04 Acquired: 7/23/2025 17:04:18 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000496	-.000090	-.003291	.0007575	F .0104061	.0004197
Stddev	.000119	.000552	.006401	.0012057	.0023389	.0024200
%RSD	23.95188	615.7630	194.4902	159.1683	22.47613	576.6164
#1	-.000629	-.000170	.002282	.0021442	.0110083	.0026690
#2	-.000461	.000498	-.010283	.0001723	.0078250	.0007310
#3	-.000399	-.000597	-.001874	-.000044	.0123851	-.002141

Elem	Sr4077
Units	ppm
Avg	.0003913
Stddev	.0001120
%RSD	28.62291
#1	.0005207
#2	.0003265
#3	.0003268

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5419.147	86927.21	7877.482	4516.362	6695.867
Stddev	35.264	693.44	101.700	23.230	53.430
%RSD	.6507338	.7977197	1.291017	.5143467	.7979493
#1	5452.211	87725.45	7789.846	4542.716	6744.466
#2	5423.200	86473.68	7853.604	4507.515	6704.481
#3	5382.032	86582.50	7988.996	4498.856	6638.654

Sample Name: Q2666-01 Acquired: 7/23/2025 17:16:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0465797**	**.0053579**	**.4019150**	**-.006873**	**.0032157**	**35.03856**	**.6233384**
Stddev	.0053544	.0025089	.0012290	.004918	.0008577	.16668	.0026388
%RSD	11.49505	46.82690	.3057776	71.56457	26.67132	.4756947	.4233265
#1	.0490847	.0030489	.4005552	-.008349	.0030148	34.85646	.6205506
#2	.0404320	.0080277	.4022435	-.001385	.0024764	35.07566	.6236674
#3	.0502224	.0049972	.4029464	-.010884	.0041560	35.18357	.6257973

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024251**	**.0043432**	**181.5101**	**.1281857**	**.0284144**	**.3045872**	**56.36880**
Stddev	.0000756	.0001688	1.1811	.0009723	.0002513	.0010364	.18225
%RSD	3.115694	3.885796	.6506955	.7584663	.8843615	.3402601	.3233109
#1	.0023379	.0042827	180.5295	.1293079	.0283902	.3041816	56.57921
#2	.0024704	.0042130	181.1795	.1276533	.0286769	.3038149	56.26639
#3	.0024670	.0045338	182.8212	.1275961	.0281760	.3057650	56.26079

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.445192**	**33.23885**	**.0843639**	**.0025929**	**.8287616**	**.1033643**	**1.007238**
Stddev	.012254	.23155	.0006613	.0002378	.0130246	.0027892	.001071
%RSD	.5011328	.6966393	.7839122	9.171310	1.571574	2.698405	.1063281
#1	2.434604	32.97305	.0850885	.0023263	.8335290	.1036533	1.007102
#2	2.442356	33.39685	.0837928	.0027832	.8140250	.1059977	1.006241
#3	2.458614	33.34665	.0842105	.0026690	.8387307	.1004418	1.008370

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.517251**	**.1399016**	**.0072090**	**.0188841**	**1.439250**	**5.664843**	**13.69845**
Stddev	.014009	.0012153	.0004737	.0008571	.012442	.139058	.02218
%RSD	.1471912	.8686813	6.571241	4.538511	.8645046	2.454757	.1619372
#1	9.522740	.1389338	.0069231	.0179098	1.440850	5.605207	13.70764
#2	9.501329	.1395054	.0069481	.0192212	1.426085	5.823772	13.67316
#3	9.527683	.1412655	.0077558	.0195214	1.450815	5.565549	13.71457

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2666-01 Acquired: 7/23/2025 17:16:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	11.34547	.0563435	.5672230
Stddev	.02005	.0044472	.0027726
%RSD	.1766864	7.893062	.4888092
#1	11.33736	.0576165	.5645868
#2	11.33075	.0600155	.5669678
#3	11.36830	.0513986	.5701144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5228.003	80597.47	7375.154	4267.038	5973.784
Stddev	12.943	563.13	8.208	9.761	14.556
%RSD	.2475731	.6986916	.1112868	.2287550	.2436726
#1	5216.786	79983.71	7381.206	4277.437	5958.026
#2	5242.165	80718.35	7365.812	4265.602	5986.727
#3	5225.058	81090.34	7378.446	4258.074	5976.600

Sample Name: Q2668-01 Acquired: 7/23/2025 17:21:01 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1270872**	**.0093798**	**11.38600**	**-.024884**	**-.010396**	**77.41505**	**2.662437**
Stddev	.0018059	.0004609	.03452	.003618	.000613	.20404	.003703
%RSD	1.421008	4.913552	.3031541	14.54075	5.891941	.2635640	.1390980
#1	.1256160	.0096809	11.37015	-.025283	-.009746	77.65064	2.666711
#2	.1291026	.0088492	11.36226	-.021083	-.010482	77.29470	2.660184
#3	.1265428	.0096092	11.42560	-.028286	-.010962	77.29982	2.660415

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109187**	**.0041770**	**120.2883**	**.1718194**	**.1097995**	**2.846194**	**204.3200**
Stddev	.0001765	.0004538	.4703	.0018526	.0002067	.004312	.1391
%RSD	1.616446	10.86389	.3910055	1.078209	.1882793	.1515016	.0680703
#1	.0110326	.0038206	120.4225	.1721588	.1099005	2.849124	204.4226
#2	.0107154	.0040226	119.7654	.1698206	.1095617	2.841243	204.1617
#3	.0110081	.0046879	120.6769	.1734787	.1099364	2.848215	204.3756

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.422998**	**28.43385**	**.2681995**	**.0165310**	**9.704219**	**.2775172**	**3.621812**
Stddev	.003334	.06564	.0009128	.0002725	.048536	.0014310	.019816
%RSD	.1376133	.2308477	.3403294	1.648390	.5001542	.5156544	.5471248
#1	2.422865	28.35836	.2680605	.0164748	9.747427	.2772041	3.624738
#2	2.419732	28.47747	.2673642	.0168272	9.713528	.2762686	3.600696
#3	2.426397	28.46572	.2691738	.0162910	9.651703	.2790788	3.640002

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.26118**	**-.038361**	**.0151639**	**2.011847**	**3.860563**	**8.753131**	**13.93814**
Stddev	.03054	.001850	.0005237	.004582	.025928	.143049	.03017
%RSD	.2975960	4.822170	3.453627	.2277743	.6716219	1.634260	.2164259
#1	10.29561	-.039645	.0155490	2.009734	3.867904	8.907598	13.94142
#2	10.23738	-.036240	.0153752	2.008701	3.831756	8.625223	13.90647
#3	10.25054	-.039196	.0145676	2.017104	3.882030	8.726572	13.96653

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2668-01 Acquired: 7/23/2025 17:21:01 Type: Unk
Method: 6010-200.7 NEW(v56) 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	12.15233	.2054689	.8825096
Stddev	.05097	.0014548	.0024726
%RSD	.4193918	.7080259	.2801792
#1	12.10651	.2064384	.8853617
#2	12.14325	.2037961	.8811965
#3	12.20722	.2061722	.8809705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5552.137	87785.26	7945.777	4640.067	5936.520
Stddev	.929	525.23	64.603	38.507	7.496
%RSD	.0167291	.5983121	.8130475	.8298893	.1262726
#1	5553.148	87820.05	7952.545	4648.684	5944.427
#2	5551.941	88292.24	8006.730	4673.536	5935.615
#3	5551.322	87243.51	7878.057	4597.981	5929.517

Sample Name: Q2668-05 Acquired: 7/23/2025 17:25:03 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0368850**	**.0023759**	**.3620090**	**-.044738**	**-.015780**	**87.41415**	**.2518394**
Stddev	.0015434	.0013784	.0005705	.003002	.000794	.08367	.0005998
%RSD	4.184474	58.01645	.1576009	6.710011	5.034337	.0957162	.2381667
#1	.0384671	.0034705	.3619528	-.047993	-.016681	87.51076	.2522992
#2	.0368045	.0028293	.3626055	-.042078	-.015475	87.36640	.2520580
#3	.0353834	.0008279	.3614686	-.044143	-.015182	87.36529	.2511609

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067193**	**.0084374**	**98.16781**	**.0741118**	**.2308011**	**.6422404**	**271.8850**
Stddev	.0000471	.0000226	.19135	.0001599	.0006197	.0015740	1.0864
%RSD	.7004527	.2682233	.1949254	.2156931	.2685022	.2450717	.3995927
#1	.0067442	.0084502	98.25172	.0740915	.2302495	.6405059	271.6615
#2	.0067486	.0084506	98.30288	.0739631	.2306821	.6426375	270.9278
#3	.0066650	.0084112	97.94884	.0742809	.2314717	.6435777	273.0659

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.405253**	**67.67751**	**.2276766**	**.0032741**	**15.76039**	**.5601723**	**.4269052**
Stddev	.001742	.15240	.0007667	.0009890	.07463	.0049308	.0007638
%RSD	.0724090	.2251861	.3367456	30.20758	.4735199	.8802371	.1789082
#1	2.406979	67.80938	.2271339	.0026344	15.77143	.5658281	.4272305
#2	2.403496	67.71248	.2273422	.0027746	15.68085	.5579123	.4260326
#3	2.405285	67.51066	.2285537	.0044132	15.82888	.5567766	.4274523

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.51117**	**.1308058**	**.0057441**	**.0435120**	**4.832311**	**11.93053**	**17.73826**
Stddev	.01558	.0053103	.0005956	.0012204	.006232	.02428	.05702
%RSD	.1482283	4.059705	10.36793	2.804635	.1289727	.2035141	.3214795
#1	10.51345	.1282920	.0064156	.0448744	4.835648	11.92750	17.70404
#2	10.49458	.1272191	.0055369	.0425190	4.836164	11.90792	17.70664
#3	10.52549	.1369062	.0052799	.0431426	4.825121	11.95619	17.80409

Sample Name: Q2668-05 Acquired: 7/23/2025 17:25:03 Type: Unk
Method: 6010-200.7 NEW(v56) 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	5.925069	.1765571	-.009337
Stddev	.024761	.0014825	.001065
%RSD	.4179005	.8396964	11.40762
#1	5.936524	.1752637	-.008781
#2	5.896654	.1762326	-.008666
#3	5.942027	.1781750	-.010565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7166.791	116189.4	10870.81	6010.597	5757.219
Stddev	14.961	107.3	34.80	5.676	11.567
%RSD	.2087514	.0923791	.3201506	.0944277	.2009054
#1	7167.183	116096.9	10854.63	6004.059	5756.315
#2	7181.552	116307.1	10847.05	6014.259	5769.211
#3	7151.638	116164.3	10910.76	6013.473	5746.131

Sample Name: Q2668-09 Acquired: 7/23/2025 17:29:05 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.1180243**	**.0052745**	**5.564749**	**-.046991**	**-.026501**	**117.7778**	**1.493713**
Stddev	.0016542	.0005943	.017322	.004996	.000758	.2031	.002600
%RSD	1.401622	11.26821	.3112741	10.63258	2.861804	.1724010	.1740772
#1	.1198154	.0049895	5.553356	-.046073	-.025687	117.7810	1.492342
#2	.1177035	.0048763	5.556208	-.052383	-.027188	117.9792	1.496712
#3	.1165539	.0059577	5.584682	-.042518	-.026628	117.5732	1.492085

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0092539**	**.0033768**	**122.9934**	**.2119271**	**.2357770**	**1.893092**	**364.0410**
Stddev	.0000830	.0001918	.8217	.0011882	.0005068	.005040	1.4438
%RSD	.8965656	5.679540	.6680467	.5606629	.2149305	.2662501	.3966170
#1	.0091935	.0031555	122.1362	.2105589	.2355761	1.890519	363.3740
#2	.0092197	.0034826	123.0699	.2126995	.2354016	1.889857	363.0513
#3	.0093485	.0034925	123.7741	.2125230	.2363535	1.898899	365.6978

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.029727**	**77.84130**	**.2657712**	**.0156332**	**16.54648**	**.6980683**	**1.926524**
Stddev	.007635	.26074	.0005597	.0006518	.05960	.0022231	.007417
%RSD	.2520087	.3349600	.2105946	4.169604	.3602040	.3184616	.3849745
#1	3.021008	77.55852	.2654566	.0154734	16.61060	.6955445	1.928550
#2	3.035219	77.89321	.2654395	.0150762	16.53605	.6989241	1.932718
#3	3.032953	78.07218	.2664174	.0163501	16.49277	.6997364	1.918305

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.39316**	**.5658195**	**.0240781**	**1.808789**	**6.034365**	**8.377291**	**16.47799**
Stddev	.06511	.0092478	.0004102	.003117	.017156	.093069	.01535
%RSD	.5714824	1.634408	1.703796	.1723200	.2843020	1.110974	.0931789
#1	11.36308	.5646377	.0241412	1.806311	6.014766	8.431139	16.47590
#2	11.34852	.5572194	.0236399	1.807767	6.041669	8.430911	16.49428
#3	11.46787	.5756014	.0244531	1.812289	6.046660	8.269824	16.46378

Sample Name: Q2668-09 Acquired: 7/23/2025 17:29:05 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**20.04536**	**.2423687**	**.5804458**
Stddev	.05186	.0026000	.0023227
%RSD	.2587250	1.072735	.4001525
#1	19.99504	.2439488	.5796000
#2	20.09864	.2393679	.5830728
#3	20.04240	.2437894	.5786645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6205.475**	**100751.0**	**9879.117**	**5193.197**	**5911.057**
Stddev	7.675	438.6	68.945	13.919	5.774
%RSD	.1236813	.4353738	.6978814	.2680145	.0976751
#1	6212.276	101257.3	9957.049	5196.540	5915.961
#2	6206.995	100510.7	9826.070	5177.911	5912.516
#3	6197.153	100485.1	9854.231	5205.139	5904.694

Sample Name: Q2674-01 Acquired: 7/23/2025 17:33:05 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0310071**	**.0007132**	**.0402137**	**-.009343**	**-.003705**	**30.74478**	**.0937370**
Stddev	.0020368	.0016992	.0023496	.003069	.000986	.11481	.0008479
%RSD	6.568734	238.2453	5.842720	32.85114	26.62351	.3734285	.9045360
#1	.0295042	-.000385	.0375058	-.008684	-.004052	30.86060	.0944829
#2	.0301919	-.000146	.0414232	-.012688	-.004471	30.63101	.0928149
#3	.0333252	.002670	.0417122	-.006656	-.002592	30.74274	.0939132

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022761**	**-.001187**	**25.71578**	**.0930543**	**.0223955**	**.0828870**	**68.77431**
Stddev	.0000787	.000053	.07077	.0007620	.0000615	.0009155	.39164
%RSD	3.459564	4.451735	.2752112	.8188399	.2747988	1.104501	.5694570
#1	.0023507	-.001126	25.77660	.0939342	.0224213	.0828656	68.46408
#2	.0022838	-.001219	25.63810	.0926173	.0224399	.0819825	69.21438
#3	.0021938	-.001217	25.73265	.0926116	.0223252	.0838131	68.64447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6506142**	**17.96614**	**.0442821**	**.0027993**	**.9187569**	**.1321036**	**.1094312**
Stddev	.0033064	.07285	.0002613	.0002577	.0049692	.0036817	.0003965
%RSD	.5081912	.4054816	.5900160	9.204800	.5408622	2.786965	.3623185
#1	.6535714	18.04537	.0443901	.0030968	.9139425	.1291320	.1089758
#2	.6470444	17.90206	.0444721	.0026532	.9238677	.1309565	.1096996
#3	.6512269	17.95098	.0439842	.0026479	.9184607	.1362223	.1096184

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.646963**	**.0246397**	**.0035780**	**.0089608**	**1.108742**	**4.567190**	**.6968617**
Stddev	.024538	.0026037	.0002907	.0002579	.001271	.035998	.0013156
%RSD	.9270083	10.56715	8.124191	2.877894	.1146001	.7881915	.1887866
#1	2.667324	.0242035	.0036230	.0089361	1.109708	4.597627	.6982947
#2	2.653845	.0274339	.0032674	.0092301	1.109216	4.576486	.6965820
#3	2.619719	.0222816	.0038435	.0087161	1.107303	4.527455	.6957085

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01 Acquired: 7/23/2025 17:33:05 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.7264151	.0701649	.0223927
Stddev	.0031249	.0002235	.0005125
%RSD	.4301820	.3185539	2.288841
#1	.7268305	.0703553	.0229187
#2	.7293116	.0702205	.0218948
#3	.7231033	.0699188	.0223645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5401.648	86857.99	8076.135	4530.554	6446.630
Stddev	5.117	224.48	72.751	7.236	7.430
%RSD	.0947327	.2584463	.9008189	.1597185	.1152512
#1	5407.063	86631.83	8010.306	4532.947	6454.566
#2	5400.987	86861.38	8154.246	4522.425	6439.840
#3	5396.893	87080.76	8063.854	4536.291	6445.484

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01DUP Acquired: 7/23/2025 17:37:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0285036**	**-.000608**	**.0346586**	**-.005492**	**-.004562**	**23.20259**	**.0783658**
Stddev	.0010164	.002469	.0006546	.001661	.000540	.05468	.0004831
%RSD	3.565911	406.3986	1.888688	30.24346	11.84162	.2356775	.6165100
#1	.0279937	-.003271	.0339207	-.003929	-.004625	23.19850	.0779009
#2	.0278432	-.000158	.0348856	-.007236	-.005068	23.15007	.0783311
#3	.0296741	.001606	.0351694	-.005310	-.003993	23.25920	.0788653

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017738**	**-.001212**	**19.81621**	**.0758003**	**.0167920**	**.0684019**	**59.63071**
Stddev	.0000861	.000173	.12938	.0014951	.0001393	.0015389	1.01653
%RSD	4.856609	14.27876	.6529008	1.972398	.8292869	2.249824	1.704707
#1	.0017082	-.001022	19.73211	.0746389	.0166442	.0694104	58.72433
#2	.0017418	-.001361	19.75133	.0774872	.0169208	.0666306	60.72980
#3	.0018714	-.001252	19.96520	.0752747	.0168111	.0691647	59.43801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4447786**	**12.71846**	**.0319111**	**.0028982**	**.7381930**	**.1081178**	**.0940896**
Stddev	.0011644	.04851	.0002117	.0005105	.0184102	.0031212	.0017286
%RSD	.2617859	.3814204	.6635293	17.61521	2.493958	2.886883	1.837155
#1	.4440325	12.72200	.0317949	.0023616	.7189641	.1111251	.0929662
#2	.4441831	12.66828	.0317829	.0029552	.7556575	.1048939	.0960801
#3	.4461203	12.76510	.0321555	.0033779	.7399575	.1083346	.0932226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.303044**	**.0293295**	**.0038314**	**.0083455**	**.9747186**	**4.733008**	**.5397807**
Stddev	.046499	.0039810	.0002653	.0007745	.0085723	.101813	.0045158
%RSD	2.019038	13.57321	6.925395	9.280099	.8794616	2.151137	.8365950
#1	2.250748	.0251942	.0040552	.0088812	.9775517	4.651121	.5349944
#2	2.339730	.0331357	.0035383	.0086978	.9650884	4.847005	.5439657
#3	2.318655	.0296587	.0039008	.0074575	.9815157	4.700898	.5403821

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01DUP Acquired: 7/23/2025 17:37:11 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.6687447	.0434833	.0083316
Stddev	.0036875	.0015995	.0008703
%RSD	.5514092	3.678421	10.44633
#1	.6726824	.0430302	.0088504
#2	.6653727	.0452604	.0073268
#3	.6681789	.0421591	.0088175

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5507.981	86182.59	8289.451	4501.206	6691.815
Stddev	22.973	1485.11	17.562	71.572	20.945
%RSD	.4170818	1.723208	.2118640	1.590054	.3129871
#1	5531.846	87328.99	8296.126	4559.866	6714.768
#2	5506.080	84504.91	8302.698	4421.460	6686.936
#3	5486.018	86713.85	8269.530	4522.292	6673.741

Sample Name: Q2674-01LX5 Acquired: 7/23/2025 17:41:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0026865**	**-.000675**	**.0075154**	**-.001460**	**-.001986**	**7.215756**	**.0200793**
Stddev	.0009727	.000220	.0009313	.001733	.001066	.033614	.0001556
%RSD	36.20589	32.57305	12.39245	118.7296	53.68934	.4658378	.7749831
#1	.0030315	-.000716	.0072199	.000069	-.000824	7.180877	.0199231
#2	.0034396	-.000438	.0067677	-.001107	-.002919	7.247942	.0202343
#3	.0015883	-.000872	.0085586	-.003343	-.002214	7.218449	.0200806

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003917**	**-.000379**	**5.996075**	**.0207127**	**.0047698**	**.0186226**	**15.32596**
Stddev	.0000100	.000073	.069100	.0002711	.0001456	.0002957	.12211
%RSD	2.546702	19.20098	1.152415	1.308842	3.052542	1.587801	.7967713
#1	.0003833	-.000400	5.916862	.0209650	.0048362	.0188563	15.44737
#2	.0003890	-.000298	6.027391	.0207471	.0046028	.0182901	15.32734
#3	.0004027	-.000438	6.043972	.0204261	.0048703	.0187213	15.20316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1581463**	**4.343775**	**.0102320**	**.0011098**	**-.064073**	**.0299043**	**.0238970**
Stddev	.0015015	.037041	.0001395	.0005688	.008703	.0003745	.0002415
%RSD	.9494682	.8527455	1.363619	51.25229	13.58229	1.252346	1.010589
#1	.1564309	4.303232	.0100992	.0005786	-.066606	.0295927	.0236193
#2	.1592223	4.375848	.0102196	.0017099	-.054384	.0298005	.0240141
#3	.1587858	4.352245	.0103774	.0010410	-.071227	.0303198	.0240576

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4483160**	**.0040342**	**.0012132**	**-.001233**	**.2437120**	**.8986688**	**.1465153**
Stddev	.0229405	.0010723	.0000723	.000553	.0052650	.0314471	.0010523
%RSD	5.117027	26.58031	5.956913	44.86915	2.160319	3.499300	.7181912
#1	.4594251	.0052687	.0012634	-.001247	.2380757	.8624036	.1471136
#2	.4219358	.0035001	.0011304	-.001778	.2445571	.9183981	.1453003
#3	.4635870	.0033339	.0012458	-.000672	.2485034	.9152046	.1471320

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01LX5 Acquired: 7/23/2025 17:41:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.1328159	.0087690	.0059712
Stddev	.0018292	.0023721	.0002958
%RSD	1.377240	27.05131	4.953425
#1	.1343678	.0060595	.0056333
#2	.1307992	.0097762	.0061829
#3	.1332808	.0104713	.0060975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5519.034	89496.16	8221.578	4648.984	6883.983
Stddev	5.483	367.47	87.593	6.035	7.308
%RSD	.0993513	.4105978	1.065401	.1298232	.1061659
#1	5522.938	89378.17	8322.516	4655.673	6882.165
#2	5521.398	89202.19	8176.684	4643.945	6892.029
#3	5512.765	89908.14	8165.534	4647.332	6877.755

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01MS Acquired: 7/23/2025 17:45:37 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7944099**	**1.767660**	**1.004293**	**1.821867**	**.5798832**	**31.64800**	**.3028349**
Stddev	.0007146	.010943	.001397	.004143	.0029018	.01557	.0011310
%RSD	.0899525	.6190797	.1390750	.2274175	.5004143	.0492004	.3734736
#1	.7936745	1.779070	1.002990	1.818539	.5765475	31.65675	.3041324
#2	.7951017	1.757252	1.004123	1.820554	.5812764	31.63003	.3023146
#3	.7944534	1.766659	1.005767	1.826507	.5818257	31.65723	.3020577

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2080178**	**.1936893**	**26.26993**	**.4893286**	**.2251891**	**.4005900**	**64.65614**
Stddev	.0017299	.0002735	.08683	.0026399	.0003135	.0007513	.54184
%RSD	.8315935	.1411850	.3305344	.5394866	.1391941	.1875546	.8380304
#1	.2097115	.1935483	26.30293	.4893246	.2250568	.3998349	64.15299
#2	.2080878	.1935150	26.17143	.4866908	.2249635	.4005976	64.58566
#3	.2062539	.1940044	26.33542	.4919705	.2255470	.4013375	65.22977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6194136**	**13.36485**	**.5555656**	**.0778558**	**3.835385**	**.4290531**	**.3084251**
Stddev	.0018268	.07489	.0018639	.0001704	.020911	.0036521	.0019081
%RSD	.2949201	.5603762	.3354888	.2188477	.5452047	.8511907	.6186724
#1	.6186441	13.44117	.5534228	.0779604	3.813131	.4289684	.3085338
#2	.6180974	13.36189	.5564632	.0776592	3.838399	.4327468	.3102766
#3	.6214992	13.29147	.5568108	.0779478	3.854626	.4254441	.3064649

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.34910**	**.2919850**	**.4197733**	**.7012640**	**1.157695**	**5.386763**	**6.644364**
Stddev	.08962	.0019590	.0002741	.0016957	.002009	.050868	.017939
%RSD	.7257527	.6709226	.0652908	.2418106	.1735532	.9443197	.2699899
#1	12.26610	.2900188	.4195631	.7008748	1.155418	5.328097	6.623676
#2	12.33706	.2919994	.4196736	.6997967	1.158445	5.413575	6.655608
#3	12.44413	.2939367	.4200833	.7031205	1.159221	5.418616	6.653808

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01MS Acquired: 7/23/2025 17:45:37 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.9875755	.2335870	.2571760
Stddev	.0037779	.0018229	.0006486
%RSD	.3825430	.7803720	.2521969
#1	.9863221	.2317450	.2575651
#2	.9845835	.2336260	.2564273
#3	.9918208	.2353901	.2575357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5412.229	88680.57	8214.071	4621.640	6404.395
Stddev	9.918	190.81	50.092	20.944	11.888
%RSD	.1832526	.2151646	.6098295	.4531650	.1856238
#1	5417.751	88824.73	8173.208	4626.844	6411.075
#2	5418.157	88464.19	8199.051	4598.585	6411.439
#3	5400.779	88752.79	8269.955	4639.490	6390.669

Sample Name: CCV05 Acquired: 7/23/2025 17:49:35 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.042300**	**4.926825**	**4.925911**	**5.048707**	**5.071250**	**10.06855**	**10.27284**
Stddev	.006859	.185208	.015856	.002884	.013176	.01897	.10072
%RSD	.1360238	3.759178	.3218928	.0571198	.2598272	.1884274	.9804811
#1	5.044563	5.018774	4.916281	5.051469	5.066494	10.08699	10.17904
#2	5.034596	5.048065	4.917239	5.048935	5.061112	10.06958	10.37929
#3	5.047741	4.713634	4.944211	5.045715	5.086144	10.04909	10.26020

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2666432**	**2.475647**	**25.72183**	**.9878410**	**2.485800**	**1.264373**	**4.943375**
Stddev	.0016701	.004664	.25258	.0034903	.006843	.004559	.022135
%RSD	.6263359	.1883817	.9819839	.3533301	.2752974	.3605934	.4477642
#1	.2652055	2.471526	25.44338	.9850789	2.481457	1.261887	4.968199
#2	.2684751	2.474705	25.93622	.9866801	2.482255	1.261598	4.925694
#3	.2662489	2.480710	25.78589	.9917638	2.493689	1.269635	4.936232

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.565148**	**24.85391**	**2.498762**	**1.272076**	**23.37183**	**2.522791**	**2.571793**
Stddev	.010207	.03911	.005930	.002830	.08243	.004775	.014945
%RSD	.3979095	.1573690	.2373252	.2224608	.3526741	.1892802	.5811172
#1	2.553622	24.82389	2.494494	1.272147	23.46591	2.524179	2.575871
#2	2.573044	24.83970	2.496258	1.274869	23.33731	2.526718	2.584276
#3	2.568777	24.89814	2.505533	1.269211	23.31229	2.517475	2.555233

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.11702**	**5.290550**	**5.101632**	**4.994346**	**5.165368**	**4.777722**	**4.957515**
Stddev	.06420	.027916	.008161	.006543	.046201	.023837	.004497
%RSD	.2556214	.5276654	.1599596	.1310080	.8944410	.4989246	.0907008
#1	25.05877	5.266521	5.097266	4.987294	5.113510	4.795807	4.956817
#2	25.18586	5.321173	5.096583	4.995522	5.202143	4.786649	4.962320
#3	25.10644	5.283957	5.111047	5.000221	5.180449	4.750710	4.953409

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV05 Acquired: 7/23/2025 17:49:35 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.930299**	**5.042777**	**5.234434**
Stddev	.021667	.008877	.026156
%RSD	.4394593	.1760413	.4996958
#1	4.943908	5.051871	5.204467
#2	4.941675	5.042325	5.246152
#3	4.905314	5.034134	5.252682

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5240.709**	**84217.72**	**7725.739**	**4363.144**	**6213.926**
Stddev	11.798	21.01	33.584	27.199	11.867
%RSD	.2251150	.0249428	.4347067	.6233865	.1909664
#1	5244.868	84241.92	7760.698	4348.769	6220.300
#2	5249.863	84204.12	7693.723	4346.149	6221.242
#3	5227.395	84207.13	7722.797	4394.515	6200.234

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB05 Acquired: 7/23/2025 17:57:57 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0010204**	**.0013097**	**.0001592**	**-.000562**	**-.000405**	**.0003465**	**-.001653**
Stddev	.0039184	.0016795	.0005734	.003589	.000835	.0071237	.001296
%RSD	384.0129	128.2414	360.1892	638.2375	205.8933	2056.020	78.43394
#1	.0040338	-.000151	.0007306	.001633	.000300	-.005275	-.000161
#2	-.003409	.003145	.0001630	-.004704	-.001327	-.002043	-.002505
#3	.002437	.000936	-.000416	.001384	-.000189	.008358	-.002291

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000124**	**.0001696**	**-.009372**	**-.000038**	**.0000640**	**.0003022**	**-.003777**
Stddev	.0000655	.0000186	.005512	.000171	.0000479	.0001355	.005227
%RSD	529.0713	10.96033	58.81924	448.6180	74.77074	44.83652	138.3679
#1	-.000001	.0001496	-.004425	-.000146	.0000116	.0002935	.000468
#2	.000083	.0001864	-.015314	-.000128	.0001055	.0004418	-.009615
#3	-.000046	.0001727	-.008377	.000159	.0000749	.0001712	-.002185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000616**	**.0096539**	**.0003032**	**.0007751**	**-.032995**	**-.000550**	**.0000309**
Stddev	.0001820	.0187115	.0000740	.0002565	.008066	.001458	.0002168
%RSD	295.6265	193.8240	24.40457	33.09126	24.44500	264.8429	701.4998
#1	-.000096	.0236606	.0003086	.0004962	-.031964	.000417	-.000113
#2	.000020	.0168975	.0002267	.0010010	-.041527	.000159	-.000075
#3	.000261	-.011597	.0003744	.0008280	-.025495	-.002227	.000280

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2608674**	**.0052483**	**.0015966**	**-.000799**	**-.000665**	**-.007324**	**.0007876**
Stddev	.0326229	.0008814	.0002902	.000591	.000823	.005891	.0001294
%RSD	12.50556	16.79420	18.17546	74.03338	123.6291	80.43724	16.42761
#1	.2508557	.0060019	.0018866	-.001265	.000280	-.012734	.0007326
#2	.2344237	.0054639	.0013062	-.000997	-.001215	-.001048	.0006949
#3	.2973229	.0042791	.0015969	-.000134	-.001062	-.008189	.0009355

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB05 Acquired: 7/23/2025 17:57:57 Type: Unk
Method: 6010-200.7 NEW(v56) 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	-.002437	-.004561	.0004338
Stddev	.001709	.002080	.0000523
%RSD	70.14111	45.61518	12.06422
#1	-.004398	-.006602	.0004089
#2	-.001647	-.002443	.0003986
#3	-.001265	-.004637	.0004940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5528.263	89938.15	8088.384	4618.741	7014.696
Stddev	11.132	376.37	27.370	25.758	14.488
%RSD	.2013582	.4184804	.3383887	.5576816	.2065429
#1	5539.297	90182.51	8057.778	4617.140	7025.678
#2	5528.456	89504.73	8096.864	4593.821	7020.135
#3	5517.036	90127.22	8110.511	4645.262	6998.275

Sample Name: Q2674-01MSD Acquired: 7/23/2025 18:02:18 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7814775**	**1.806303**	**.9933272**	**1.814783**	**.6175190**	**28.52965**	**.3118873**
Stddev	.0053150	.027826	.0053598	.006419	.0025633	.03196	.0010588
%RSD	.6801180	1.540518	.5395772	.3537011	.4150937	.1120075	.3394855
#1	.7836002	1.780271	.9873058	1.814241	.6152062	28.50167	.3120376
#2	.7754292	1.803009	.9950994	1.808652	.6170758	28.56448	.3107613
#3	.7854031	1.835630	.9975765	1.821455	.6202749	28.52282	.3128629

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2030534**	**.1903536**	**28.49342**	**.4694496**	**.2207911**	**.3942485**	**58.08979**
Stddev	.0011905	.0008043	.15564	.0008764	.0007544	.0024151	.37082
%RSD	.5863088	.4225324	.5462371	.1866772	.3416933	.6125839	.6383604
#1	.2020436	.1898617	28.43779	.4704445	.2201626	.3916118	58.46419
#2	.2027506	.1899172	28.37323	.4691120	.2205829	.3947805	58.08254
#3	.2043661	.1912818	28.66923	.4687922	.2216278	.3963533	57.72265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6733364**	**15.99568**	**.5448871**	**.0780625**	**3.871183**	**.4133692**	**.3079870**
Stddev	.0006366	.10080	.0028082	.0002829	.034219	.0025792	.0012778
%RSD	.0945361	.6301529	.5153751	.3623807	.8839445	.6239390	.4149012
#1	.6726024	15.88158	.5417190	.0783102	3.886634	.4103910	.3092372
#2	.6737376	16.07263	.5458728	.0781231	3.894953	.4148694	.3066832
#3	.6736691	16.03283	.5470697	.0777542	3.831964	.4148471	.3080408

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.34469**	**.2974304**	**.4179437**	**.6915567**	**1.095943**	**5.748520**	**6.421865**
Stddev	.10950	.0019445	.0012992	.0030609	.005726	.046384	.039844
%RSD	.8870584	.6537664	.3108518	.4426153	.5224431	.8068851	.6204438
#1	12.45801	.2976179	.4168519	.6901630	1.092984	5.710583	6.383869
#2	12.33660	.2953990	.4175987	.6894407	1.092302	5.800231	6.418397
#3	12.23945	.2992744	.4193806	.6950665	1.102542	5.734748	6.463330

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01MSD Acquired: 7/23/2025 18:02:18 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.9332830	.2299536	.3085791
Stddev	.0056257	.0015488	.0011943
%RSD	.6027855	.6735273	.3870202
#1	.9311205	.2300541	.3080891
#2	.9290594	.2314497	.3077079
#3	.9396691	.2283570	.3099405

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5408.603	89119.17	8361.377	4562.993	6455.417
Stddev	17.339	410.62	37.835	20.118	22.582
%RSD	.3205766	.4607537	.4524965	.4408991	.3498110
#1	5427.275	88905.79	8401.480	4554.418	6476.677
#2	5405.524	88859.17	8356.334	4548.582	6457.861
#3	5393.010	89592.54	8326.316	4585.977	6431.713

Sample Name: Q2674-01A Acquired: 7/23/2025 18:06:16 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7467007**	**1.710957**	**.9142847**	**1.742750**	**.7759714**	**36.83044**	**.2922471**
Stddev	.0037686	.022245	.0005496	.002607	.0032672	.07296	.0009894
%RSD	.5047015	1.300152	.0601156	.1495651	.4210499	.1980913	.3385433
#1	.7423509	1.736570	.9138056	1.745631	.7726401	36.91072	.2932246
#2	.7487669	1.699841	.9141639	1.742063	.7761037	36.81242	.2922703
#3	.7489843	1.696462	.9148847	1.740556	.7791705	36.76818	.2912463

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1903191**	**.1742518**	**30.18093**	**.4676025**	**.2116390**	**.3690239**	**77.81165**
Stddev	.0012408	.0003267	.05691	.0022796	.0004678	.0017757	.44903
%RSD	.6519779	.1874667	.1885678	.4874973	.2210470	.4811906	.5770780
#1	.1890882	.1746288	30.17166	.4696342	.2117599	.3676814	78.32124
#2	.1915696	.1740746	30.24190	.4680360	.2120345	.3683529	77.63974
#3	.1902994	.1740520	30.12921	.4651373	.2111226	.3710373	77.47397

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9645579**	**22.70804**	**.5185936**	**.0736498**	**3.752722**	**.4245727**	**.3145213**
Stddev	.0015910	.02830	.0011314	.0007474	.015203	.0016434	.0006505
%RSD	.1649411	.1246445	.2181665	1.014820	.4051297	.3870588	.2068115
#1	.9653462	22.67623	.5192048	.0741985	3.766020	.4241839	.3138246
#2	.9656007	22.71747	.5172881	.0739524	3.755997	.4231586	.3151126
#3	.9627267	22.73043	.5192879	.0727985	3.736148	.4263755	.3146269

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.28181**	**.3052099**	**.4053107**	**.6757390**	**1.396358**	**5.458069**	**6.048920**
Stddev	.07626	.0023540	.0012239	.0012824	.006885	.072630	.016673
%RSD	.6209191	.7712581	.3019612	.1897751	.4930555	1.330698	.2756280
#1	12.36985	.3072552	.4039971	.6746334	1.404170	5.541560	6.067811
#2	12.23631	.3057375	.4055160	.6754385	1.391173	5.409455	6.036260
#3	12.23927	.3026369	.4064189	.6771449	1.393732	5.423194	6.042690

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2674-01A Acquired: 7/23/2025 18:06:16 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.7281682	.2612346	.2195500
Stddev	.0037145	.0026707	.0000723
%RSD	.5101194	1.022345	.0329404
#1	.7316984	.2641992	.2195134
#2	.7242934	.2590167	.2196334
#3	.7285127	.2604879	.2195034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5466.874	89147.76	8336.920	4558.376	6536.895
Stddev	10.182	448.46	34.812	15.800	7.865
%RSD	.1862430	.5030485	.4175688	.3466168	.1203247
#1	5475.736	88742.67	8352.539	4540.712	6529.080
#2	5469.134	89070.96	8297.033	4563.252	6544.810
#3	5455.752	89629.66	8361.187	4571.163	6536.795

Sample Name: Q2675-01 Acquired: 7/23/2025 18:10:12 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0463182**	**.0038564**	**.3473746**	**-.018711**	**-.007011**	**57.42397**	**.4254489**
Stddev	.0021791	.0027464	.0020831	.003803	.000484	.16717	.0026808
%RSD	4.704552	71.21608	.5996695	20.32393	6.909214	.2911155	.6301187
#1	.0479829	.0015825	.3457394	-.016384	-.007248	57.28485	.4231720
#2	.0471199	.0069077	.3466645	-.023099	-.007332	57.60942	.4284036
#3	.0438519	.0030791	.3497199	-.016649	-.006454	57.37764	.4247711

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054253**	**-.001083**	**25.39229**	**.1461512**	**.0569067**	**.2009799**	**152.4208**
Stddev	.0000872	.000117	.10991	.0014483	.0003190	.0004140	.7645
%RSD	1.607967	10.81919	.4328373	.9909433	.5606250	.2059979	.5015782
#1	.0054115	-.001049	25.26604	.1469150	.0568665	.2005472	152.5147
#2	.0053457	-.000986	25.44427	.1444809	.0566096	.2010204	151.6136
#3	.0055186	-.001213	25.46657	.1470577	.0572439	.2013722	153.1339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.449304**	**22.97531**	**.1042553**	**.0048702**	**2.647145**	**.2449780**	**.4171826**
Stddev	.003372	.04785	.0007623	.0000124	.016407	.0009118	.0013648
%RSD	.1376745	.2082586	.7311989	.2538617	.6197948	.3721917	.3271600
#1	2.446044	22.94632	.1044135	.0048845	2.636658	.2443032	.4160657
#2	2.452778	23.03054	.1034263	.0048637	2.638725	.2446154	.4187040
#3	2.449091	22.94907	.1049262	.0048625	2.666053	.2460153	.4167783

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.053412**	**.0406461**	**.0092197**	**.0160138**	**2.199385**	**6.842998**	**2.196233**
Stddev	.052459	.0067110	.0002510	.0003799	.018274	.124677	.005323
%RSD	1.038093	16.51090	2.722503	2.372272	.8308695	1.821963	.2423523
#1	5.017074	.0451024	.0094222	.0156074	2.178800	6.822547	2.194049
#2	5.029609	.0329276	.0089388	.0160740	2.205661	6.729810	2.202300
#3	5.113552	.0439084	.0092979	.0163600	2.213694	6.976635	2.192350

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2675-01 Acquired: 7/23/2025 18:10:12 Type: Unk
Method: 6010-200.7 NEW(v56) 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	1.056913	.1385232	-.054313
Stddev	.005133	.0015950	.000895
%RSD	.4856979	1.151435	1.647561
#1	1.056615	.1367596	-.054508
#2	1.051936	.1398647	-.053337
#3	1.062189	.1389453	-.055095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5675.203	93153.08	8764.848	4805.415	6488.282
Stddev	1.439	244.91	58.410	18.750	4.602
%RSD	.0253486	.2629067	.6664158	.3901942	.0709339
#1	5674.007	93258.07	8815.238	4812.787	6485.727
#2	5674.803	93327.98	8700.828	4784.099	6493.595
#3	5676.799	92873.18	8778.479	4819.360	6485.524

Sample Name: Q2676-01 Acquired: 7/23/2025 18:14:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0697121**	**-.002563**	**.1064411**	**-.050355**	**-.020121**	**91.36478**	**.4084709**
Stddev	.0034427	.003301	.0007509	.004895	.002386	.18320	.0025966
%RSD	4.938426	128.7717	.7054299	9.721246	11.85598	.2005131	.6356968
#1	.0722474	.000658	.1063149	-.056007	-.020714	91.19441	.4064345
#2	.0657928	-.002410	.1072471	-.047613	-.017495	91.34137	.4075833
#3	.0710960	-.005938	.1057614	-.047446	-.022155	91.55856	.4113950

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0116598**	**.0033105**	**176.4803**	**.1829491**	**.2025166**	**.2526396**	**351.3716**
Stddev	.0001689	.0003278	1.9456	.0006153	.0005891	.0028443	.5586
%RSD	1.449014	9.901303	1.102425	.3363172	.2909088	1.125841	.1589750
#1	.0115509	.0033111	175.3622	.1830541	.2021493	.2497319	351.8564
#2	.0115741	.0029824	175.3518	.1822880	.2022044	.2527708	351.4976
#3	.0118545	.0036380	178.7268	.1835051	.2031962	.2554160	350.7608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.377226**	**120.1180**	**.1144158**	**.0092991**	**5.492667**	**.9125345**	**.3581926**
Stddev	.025471	.3591	.0003655	.0005300	.042420	.0041724	.0023211
%RSD	.5819088	.2989532	.3194578	5.699750	.7722963	.4572314	.6480009
#1	4.361191	119.7362	.1139985	.0097059	5.517300	.9095145	.3601152
#2	4.363891	120.1688	.1145697	.0094918	5.517016	.9172954	.3588486
#3	4.406597	120.4490	.1146791	.0086997	5.443685	.9107935	.3556142

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.787986**	**-.000324**	**.0074760**	**.0153222**	**5.591206**	**4.271702**	**3.708617**
Stddev	.019949	.009297	.0006570	.0006599	.053185	.067056	.022543
%RSD	.5266429	2872.815	8.788728	4.306527	.9512290	1.569766	.6078498
#1	3.765510	.008240	.0067551	.0156476	5.551153	4.195996	3.708695
#2	3.803592	.001000	.0080412	.0145629	5.570915	4.295489	3.686035
#3	3.794856	-.010211	.0076317	.0157562	5.651550	4.323622	3.731120

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2676-01 Acquired: 7/23/2025 18:14:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.7739667	.1949666	-.191012
Stddev	.0121064	.0014415	.001054
%RSD	1.564197	.7393791	.5516458
#1	.7612066	.1952483	-.191552
#2	.7754022	.1934051	-.191687
#3	.7852914	.1962466	-.189798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6095.776	101096.8	9922.225	5123.425	5885.898
Stddev	15.905	201.2	109.042	19.452	21.263
%RSD	.2609253	.1990518	1.098969	.3796639	.3612483
#1	6100.660	101263.0	10000.52	5100.967	5893.229
#2	6108.667	101154.3	9968.48	5134.371	5902.525
#3	6078.002	100873.0	9797.68	5134.938	5861.940

Sample Name: Q2676-03 Acquired: 7/23/2025 18:18:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0357165**	**.0010631**	**.0726370**	**-.016737**	**-.008144**	**45.45388**	**.1859804**
Stddev	.0025533	.0015134	.0005364	.003166	.000948	.05831	.0007692
%RSD	7.148679	142.3580	.7385252	18.91395	11.63659	.1282740	.4135802
#1	.0378472	.0012457	.0720751	-.014072	-.009179	45.48160	.1864694
#2	.0364159	.0024769	.0731437	-.020236	-.007318	45.38688	.1850938
#3	.0328864	-.000533	.0726924	-.015904	-.007935	45.49315	.1863782

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040284**	**-.000227**	**59.93020**	**.1168714**	**.0563622**	**.1981294**	**131.3703**
Stddev	.0000596	.000137	.23088	.0007944	.0003726	.0010040	.7068
%RSD	1.478822	60.44484	.3852497	.6797199	.6610874	.5067223	.5380215
#1	.0040796	-.000186	59.91504	.1159587	.0559380	.1987800	130.6535
#2	.0040425	-.000379	59.70727	.1172480	.0566367	.1969731	132.0666
#3	.0039630	-.000115	60.16828	.1174074	.0565119	.1986350	131.3908

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.613137**	**29.42753**	**.0943778**	**.0040866**	**3.111872**	**.2464219**	**.1965340**
Stddev	.003712	.05437	.0005808	.0002191	.041369	.0031477	.0006677
%RSD	.2301050	.1847649	.6153774	5.362314	1.329403	1.277362	.3397539
#1	1.614167	29.38288	.0940713	.0038336	3.073530	.2442869	.1957701
#2	1.609019	29.41164	.0940145	.0042160	3.155718	.2500368	.1968251
#3	1.616225	29.48808	.0950476	.0042103	3.106367	.2449420	.1970067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.124290**	**.1846040**	**.0098753**	**.0115528**	**2.816737**	**3.960856**	**2.801453**
Stddev	.064393	.0018937	.0003206	.0002290	.012657	.064862	.017098
%RSD	1.256621	1.025816	3.246191	1.982247	.4493465	1.637577	.6103191
#1	5.076761	.1841037	.0102087	.0112958	2.818039	3.966528	2.788277
#2	5.197574	.1866976	.0098478	.0116274	2.803479	3.893344	2.795308
#3	5.098535	.1830107	.0095694	.0117352	2.828692	4.022696	2.820774

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2676-03 Acquired: 7/23/2025 18:18:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	3.511225	.0891941	.0176002
Stddev	.026454	.0027820	.0006487
%RSD	.7534123	3.119044	3.685522
#1	3.487908	.0910389	.0181169
#2	3.505793	.0905492	.0168722
#3	3.539973	.0859942	.0178114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5982.770	98539.76	9340.072	5047.158	6412.922
Stddev	11.856	547.50	44.442	23.722	6.579
%RSD	.1981618	.5556097	.4758209	.4700053	.1025965
#1	5973.258	99169.63	9349.136	5073.760	6418.314
#2	5979.001	98177.89	9379.284	5028.202	6405.591
#3	5996.052	98271.77	9291.797	5039.512	6414.860

Sample Name: Q2677-01 Acquired: 7/23/2025 18:22:23 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0422186**	**-.000605**	**.0506902**	**-.034094**	**-.014420**	**134.9751**	**.4714098**
Stddev	.0024771	.002012	.0020701	.004485	.002898	.2140	.0012437
%RSD	5.867227	332.3207	4.083843	13.15528	20.09974	.1585400	.2638259
#1	.0393684	.000697	.0511147	-.028944	-.017659	134.8252	.4709868
#2	.0434368	.000409	.0525152	-.037143	-.013529	135.2201	.4728098
#3	.0438507	-.002922	.0484408	-.036195	-.012071	134.8798	.4704328

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089854**	**.0018870**	**38.16737**	**.1966855**	**.1403954**	**.3637540**	**256.7242**
Stddev	.0000452	.0001550	.20063	.0016346	.0002884	.0020302	.2941
%RSD	.5033236	8.216166	.5256504	.8310761	.2053992	.5581242	.1145703
#1	.0089339	.0017160	38.21536	.1963855	.1404077	.3630333	256.4793
#2	.0090189	.0019265	38.33965	.1984494	.1401010	.3621824	257.0504
#3	.0090033	.0020184	37.94710	.1952217	.1406774	.3660462	256.6428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.883808**	**49.48449**	**.2233027**	**.0070194**	**4.119280**	**.4346833**	**.3805732**
Stddev	.004946	.13719	.0005215	.0005105	.025189	.0038994	.0006840
%RSD	.1715252	.2772445	.2335350	7.272113	.6114942	.8970553	.1797175
#1	2.884251	49.39145	.2238129	.0066226	4.090278	.4335564	.3809368
#2	2.888518	49.64205	.2227706	.0068402	4.131878	.4314715	.3809986
#3	2.878655	49.41997	.2233246	.0075952	4.135685	.4390220	.3797843

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.77267**	**-.017859**	**.0046575**	**.0137104**	**6.215584**	**12.62357**	**9.353707**
Stddev	.06180	.004019	.0006915	.0005965	.032069	.06699	.030463
%RSD	.4487448	22.50367	14.84612	4.350905	.5159490	.5306790	.3256807
#1	13.78184	-.017583	.0044799	.0135040	6.210508	12.54647	9.320110
#2	13.82938	-.022008	.0054205	.0132445	6.249888	12.66752	9.361481
#3	13.70679	-.013984	.0040722	.0143827	6.186355	12.65673	9.379530

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2677-01 Acquired: 7/23/2025 18:22:23 Type: Unk
Method: 6010-200.7 NEW(v56) 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	3.090651	.2049933	-.146289
Stddev	.020218	.0009127	.000156
%RSD	.6541653	.4452161	.1067009
#1	3.069107	.2039943	-.146354
#2	3.093633	.2052022	-.146111
#3	3.109211	.2057834	-.146402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6309.128	103750.3	9960.864	5289.614	6195.409
Stddev	4.844	354.6	51.902	6.931	3.893
%RSD	.0767807	.3417786	.5210625	.1310346	.0628349
#1	6307.572	103748.5	9968.190	5283.036	6199.509
#2	6314.559	103396.6	9905.688	5296.852	6194.954
#3	6305.253	104105.8	10008.71	5288.954	6191.763

Sample Name: Q2677-03 Acquired: 7/23/2025 18:26:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0468130**	**-.005207**	**.0796178**	**-.040820**	**-.015971**	**135.9788**	**.5477061**
Stddev	.0035925	.001830	.0005531	.002030	.001268	.1745	.0009899
%RSD	7.674221	35.13384	.6947444	4.973702	7.936896	.1283557	.1807401
#1	.0474215	-.006247	.0791964	-.042728	-.017379	136.1797	.5482141
#2	.0429550	-.006280	.0802442	-.038686	-.014919	135.8925	.5483389
#3	.0500623	-.003095	.0794128	-.041047	-.015615	135.8643	.5465653

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099960**	**.0052272**	**56.00314**	**.2474756**	**.1900651**	**.5049383**	**310.2145**
Stddev	.0002319	.0003013	.14098	.0009276	.0001943	.0022063	1.4667
%RSD	2.320004	5.764796	.2517284	.3748402	.1022332	.4369402	.4728079
#1	.0100152	.0053010	56.07181	.2480962	.1899188	.5024333	310.6870
#2	.0102177	.0054848	56.09663	.2464092	.1899909	.5065927	308.5698
#3	.0097550	.0048959	55.84099	.2479215	.1902856	.5057889	311.3868

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.420304**	**65.48365**	**.2874713**	**.0093604**	**6.351040**	**.5441253**	**.5754188**
Stddev	.004356	.05575	.0010618	.0006628	.039461	.0019256	.0007463
%RSD	.1273653	.0851340	.3693727	7.081311	.6213370	.3538940	.1297045
#1	3.420316	65.53456	.2881780	.0094612	6.374755	.5445896	.5746042
#2	3.424654	65.42408	.2862502	.0086530	6.305487	.5420099	.5760698
#3	3.415942	65.49232	.2879856	.0099671	6.372878	.5457762	.5755822

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.51121**	**.0551994**	**.0117642**	**.0185117**	**7.054630**	**5.287411**	**11.65412**
Stddev	.08582	.0118812	.0002737	.0005389	.012353	.063195	.03622
%RSD	.4636273	21.52409	2.326773	2.910994	.1751109	1.195194	.3108261
#1	18.56584	.0662187	.0117748	.0178930	7.059433	5.331643	11.64385
#2	18.41229	.0426121	.0120325	.0187631	7.063861	5.215034	11.62414
#3	18.55550	.0567675	.0114854	.0188788	7.040597	5.315558	11.69437

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2677-03 Acquired: 7/23/2025 18:26:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	16.15267	.2479412	-.179595
Stddev	.05523	.0015191	.001200
%RSD	.3419269	.6126957	.6680310
#1	16.11048	.2495264	-.180095
#2	16.21518	.2477991	-.178226
#3	16.13234	.2464981	-.180463

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6708.461	108830.1	10844.25	5568.449	6066.952
Stddev	15.215	184.2	59.52	20.586	12.825
%RSD	.2268075	.1692284	.5488480	.3696814	.2113914
#1	6698.795	108617.5	10837.61	5545.279	6060.877
#2	6726.000	108933.1	10788.34	5575.434	6081.686
#3	6700.589	108939.6	10906.82	5584.632	6058.293

Sample Name: PB168953TB Acquired: 7/23/2025 18:30:28 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.006537**	**-.002458**	**.0012311**	**-.000756**	**.0014911**	**.0172996**	**-.003328**
Stddev	.001994	.000738	.0007849	.000872	.0009078	.0052470	.001158
%RSD	30.50717	30.01008	63.76042	115.3627	60.87955	30.33032	34.79491
#1	-.008630	-.003067	.0008143	-.001537	.0005896	.0155167	-.003405
#2	-.004659	-.001638	.0021365	.000185	.0014786	.0232058	-.004446
#3	-.006323	-.002670	.0007424	-.000915	.0024050	.0131764	-.002134

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000163**	**-.000088**	**.0883657**	**.0006524**	**-.000345**	**.0006199**	**.0591649**
Stddev	.000071	.000095	.0103037	.0001637	.000178	.0001433	.0085419
%RSD	43.38779	107.6713	11.66026	25.08684	51.64312	23.11805	14.43741
#1	-.000152	.000013	.0997522	.0005270	-.000481	.0004974	.0633567
#2	-.000099	-.000177	.0856602	.0008375	-.000143	.0005848	.0648010
#3	-.000239	-.000101	.0796847	.0005926	-.000411	.0007775	.0493369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069357**	**.0266736**	**.0010778**	**.0000183**	**373.1283**	**-.003083**	**.0018646**
Stddev	.0001861	.0014509	.0003932	.0001845	5.2300	.000722	.0001773
%RSD	2.683854	5.439291	36.47951	1008.581	1.401661	23.42304	9.508288
#1	.0068860	.0279078	.0006380	.0000149	373.9479	-.002633	.0018421
#2	.0071416	.0270376	.0012001	-.000164	367.5369	-.003916	.0020521
#3	.0067794	.0250754	.0013953	.000205	377.9001	-.002700	.0016997

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4867835**	**-.001498**	**.0179748**	**-.000959**	**-.000949**	**.0230746**	**.0082581**
Stddev	.0450511	.000816	.0002474	.000149	.000228	.0044087	.0017228
%RSD	9.254851	54.45028	1.376077	15.48542	24.07338	19.10648	20.86130
#1	.4969221	-.001955	.0178099	-.000850	-.001210	.0232655	.0093488
#2	.5259013	-.001984	.0178553	-.000899	-.000783	.0185734	.0062720
#3	.4375270	-.000556	.0182592	-.001128	-.000854	.0273847	.0091535

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168953TB Acquired: 7/23/2025 18:30:28 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.1798780	-.010304	.0003697
Stddev	.0050179	.001917	.0000216
%RSD	2.789628	18.60087	5.848483
#1	.1807109	-.009811	.0003471
#2	.1744957	-.012419	.0003718
#3	.1844274	-.008682	.0003902

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5258.821	84403.29	8167.774	4415.749	6212.987
Stddev	13.422	188.79	68.710	16.972	13.951
%RSD	.2552260	.2236757	.8412366	.3843577	.2245514
#1	5245.933	84615.04	8173.672	4433.607	6197.675
#2	5272.720	84252.55	8233.345	4413.809	6224.980
#3	5257.810	84342.27	8096.305	4399.829	6216.305

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168976BL Acquired: 7/23/2025 18:34:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.001728**	**-.001961**	**.0001838**	**.0002974**	**-.000076**	**.0025445**	**-.001624**
Stddev	.002386	.000565	.0002505	.0018583	.000521	.0150307	.000480
%RSD	138.0632	28.81783	136.2470	624.8559	687.8904	590.7108	29.52100
#1	.000844	-.001596	.0002074	-.000226	.000051	-.014524	-.001670
#2	-.003870	-.002611	.0004217	-.001243	-.000648	.008357	-.002079
#3	-.002159	-.001675	-.000078	.002361	.000370	.013801	-.001124

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000154**	**-.000034**	**-.033404**	**.0000353**	**-.000207**	**.0002046**	**-.000568**
Stddev	.000009	.000087	.002376	.0001664	.000089	.0003800	.006239
%RSD	6.122574	252.7842	7.113960	471.6438	43.04653	185.6975	1098.108
#1	-.000150	-.000031	-.030718	.0001299	-.000117	.0006058	.004258
#2	-.000165	.000051	-.035232	-.000157	-.000210	-.000150	.001650
#3	-.000148	-.000123	-.034261	.000133	-.000295	.000158	-.007613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000441**	**.0111437**	**.0002980**	**.0005016**	**-.332574**	**-.000190**	**.0004449**
Stddev	.000369	.0190170	.0001861	.0001665	.009211	.000645	.0002650
%RSD	83.79968	170.6518	62.45179	33.19458	2.769701	338.7471	59.56394
#1	-.000274	-.009495	.0002890	.0006937	-.329759	-.000171	.0001402
#2	-.000864	.014969	.0004885	.0004111	-.325098	.000444	.0005726
#3	-.000184	.027957	.0001166	.0003999	-.342864	-.000845	.0006218

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.137571**	**-.002423**	**.0006271**	**-.003142**	**-.000470**	**-.013293**	**.0011431**
Stddev	.007403	.000481	.0002218	.000394	.000976	.002680	.0012480
%RSD	5.380914	19.86458	35.37554	12.53012	207.4720	20.15971	109.1779
#1	-.141350	-.002683	.0004754	-.002926	.000491	-.012306	.0003380
#2	-.142322	-.002719	.0005242	-.002904	-.001461	-.016326	.0005106
#3	-.129042	-.001868	.0008817	-.003597	-.000442	-.011246	.0025808

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168976BL Acquired: 7/23/2025 18:34:58 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.002861**	**-.009401**	**-.000031**
Stddev	.003810	.001776	.000040
%RSD	133.1643	18.89611	126.2748
#1	.000772	-.011420	-.000030
#2	-.006827	-.008080	.000008
#3	-.002530	-.008701	-.000072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5614.433**	**90387.91**	**8373.532**	**4685.948**	**7084.355**
Stddev	9.990	53.04	3.631	10.968	24.611
%RSD	.1779414	.0586787	.0433598	.2340566	.3474063
#1	5604.700	90437.09	8377.661	4674.608	7062.169
#2	5624.662	90394.93	8372.097	4686.736	7080.069
#3	5613.936	90331.71	8370.838	4696.501	7110.829

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: PB168976BS Acquired: 7/23/2025 18:39:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.7514468**	**1.999533**	**.9104751**	**1.899782**	**.8139133**	**1.994060**
Stddev	.0003774	.045784	.0031306	.001360	.0019873	.010931
%RSD	.0502224	2.289734	.3438404	.0715730	.2441701	.5481880
#1	.7514612	1.948747	.9136682	1.900553	.8151440	2.005241
#2	.7510624	2.037645	.9074110	1.898212	.8116205	1.993543
#3	.7518168	2.012207	.9103460	1.900581	.8149752	1.983397

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2002897**	**.2047801**	**.1819382**	**1.024299**	**.3958252**	**.1918727**
Stddev	.0004588	.0004081	.0001277	.004038	.0008805	.0006987
%RSD	.2290593	.1992826	.0701628	.3942482	.2224574	.3641685
#1	.1998521	.2048176	.1820798	1.021714	.3957262	.1926135
#2	.2002500	.2051681	.1819029	1.022231	.3967511	.1917789
#3	.2007670	.2043545	.1818319	1.028953	.3949984	.1912255

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3022035**	**2.981292**	**.2055223**	**1.989483**	**.4841201**	**.0746342**
Stddev	.0006385	.012933	.0007349	.022268	.0010492	.0005813
%RSD	.2112811	.4337886	.3575519	1.119293	.2167251	.7788358
#1	.3029165	2.966440	.2050127	1.964142	.4851048	.0741832
#2	.3020095	2.987373	.2051895	1.998380	.4842390	.0752902
#3	.3016845	2.990063	.2063647	2.005927	.4830165	.0744293

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.901276**	**.2975810**	**.2079460**	**9.995297**	**.2967904**	**.4103754**
Stddev	.027017	.0042167	.0003420	.013916	.0008137	.0003614
%RSD	.9312266	1.416985	.1644914	.1392287	.2741804	.0880647
#1	2.920287	.2952837	.2078888	9.979246	.2976211	.4105418
#2	2.913193	.2950120	.2083130	10.00266	.2959947	.4099608
#3	2.870349	.3024475	.2076361	10.00398	.2967554	.4106237

Sample Name: PB168976BS Acquired: 7/23/2025 18:39:17 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.6802720**	**.2024614**	**.8370744**	**5.403849**	F **-.000759**	**.1929490**
Stddev	.0009648	.0020768	.0138908	.021260	.000947	.0017635
%RSD	.1418249	1.025775	1.659451	.3934223	124.7715	.9139920
#1	.6797860	.2020783	.8267856	5.394023	-.000590	.1925629
#2	.6796468	.2006028	.8528753	5.428244	.000092	.1948737
#3	.6813831	.2047030	.8315622	5.389279	-.001779	.1914106

Elem	Sr4077
Units	ppm
Avg	**.2020889**
Stddev	.0004926
%RSD	.2437344
#1	.2017650
#2	.2018459
#3	.2026558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5526.075**	**88797.74**	**8257.522**	**4633.108**	**6877.905**
Stddev	11.202	299.45	8.216	14.871	6.515
%RSD	.2027200	.3372313	.0994925	.3209731	.0947247
#1	5514.636	88934.63	8267.005	4639.967	6870.784
#2	5537.024	88454.31	8252.554	4616.046	6879.365
#3	5526.565	89004.29	8253.008	4643.312	6883.567

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV06 Acquired: 7/23/2025 18:43:17 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.038787**	**4.642944**	**4.880645**	**5.050229**	**5.080794**	**9.983730**	**10.18190**
Stddev	.016900	.254125	.005666	.024660	.018851	.054335	.10716
%RSD	.3354010	5.473368	.1160862	.4882952	.3710228	.5442357	1.052428
#1	5.043500	4.478626	4.878451	5.051571	5.094804	9.938728	10.09545
#2	5.020031	4.514557	4.876403	5.024926	5.059361	10.04409	10.30179
#3	5.052830	4.935649	4.887079	5.074191	5.088216	9.96837	10.14846

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2544777**	**2.456684**	**25.31342**	**.9786586**	**2.470752**	**1.260584**	**5.070645**
Stddev	.0018693	.001585	.11549	.0006551	.002207	.002042	.022917
%RSD	.7345419	.0645185	.4562479	.0669335	.0893159	.1620223	.4519615
#1	.2523603	2.455125	25.19371	.9784366	2.471013	1.262782	5.087304
#2	.2551735	2.456634	25.42417	.9781434	2.468427	1.260225	5.080123
#3	.2558992	2.458294	25.32239	.9793958	2.472818	1.258745	5.044509

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.536796**	**24.73599**	**2.482125**	**1.258660**	**23.85507**	**2.508543**	**2.542031**
Stddev	.005047	.13580	.001092	.001403	.14936	.004922	.006632
%RSD	.1989565	.5489919	.0440008	.1114985	.6261270	.1962250	.2608896
#1	2.531132	24.62501	2.481168	1.257056	24.02681	2.505917	2.548715
#2	2.540818	24.69555	2.481892	1.259662	23.78290	2.514222	2.535452
#3	2.538436	24.88742	2.483315	1.259262	23.75549	2.505491	2.541927

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.23249**	**5.054428**	**5.071855**	**4.942835**	**5.089260**	**4.874847**	**4.867144**
Stddev	.11644	.057897	.012904	.014004	.014088	.020211	.021853
%RSD	.4614601	1.145474	.2544155	.2833254	.2768152	.4146006	.4489812
#1	25.34517	4.987857	5.074591	4.932311	5.079652	4.896399	4.854606
#2	25.23968	5.082387	5.057803	4.937462	5.105432	4.856317	4.854448
#3	25.11262	5.093039	5.083172	4.958729	5.082696	4.871824	4.892377

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV06 Acquired: 7/23/2025 18:43:17 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.896565**	**4.947318**	**5.164956**
Stddev	.058430	.005911	.019074
%RSD	1.193292	.1194844	.3692911
#1	4.854245	4.943055	5.153664
#2	4.872220	4.954066	5.186979
#3	4.963232	4.944833	5.154227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5290.064**	**86133.67**	**8154.460**	**4458.200**	**6286.701**
Stddev	8.554	191.89	47.117	18.696	5.409
%RSD	.1617049	.2227804	.5778113	.4193679	.0860339
#1	5281.035	85912.16	8208.864	4437.905	6281.290
#2	5298.047	86239.57	8127.719	4474.722	6292.107
#3	5291.109	86249.28	8126.798	4461.973	6286.707

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB06 Acquired: 7/23/2025 18:51:38 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0004868**	**.0013399**	**-.000601**	**-.001772**	**-.000432**	**.0041656**	**-.002245**
Stddev	.0023999	.0012755	.000831	.001028	.001389	.0078156	.000702
%RSD	492.9884	95.19740	138.2029	58.01696	321.5596	187.6214	31.28424
#1	-.001221	.0014837	.000124	-.002474	-.001525	-.000435	-.002613
#2	.003231	.0025375	-.001507	-.000592	-.000903	.013190	-.002687
#3	-.000550	-.000001	-.000420	-.002250	.001131	-.000258	-.001435

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**.0000911**	**-.006017**	**.0003023**	**.0000582**	**-.000312**	**-.009979**
Stddev	.000016	.0000597	.002504	.0002121	.0000587	.000285	.005893
%RSD	35.57915	65.48320	41.61538	70.15783	100.8958	91.50331	59.05788
#1	-.000061	.0001010	-.004833	.0001791	.0000777	-.000587	-.016437
#2	-.000035	.0001453	-.008894	.0005472	.0001047	-.000331	-.008610
#3	-.000034	.0000271	-.004325	.0001806	-.000008	-.000018	-.004891

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000210**	**.0207302**	**.0003467**	**.0004781**	**-.007489**	**-.002167**	**.0001773**
Stddev	.000055	.0231977	.0001671	.0003413	.007279	.000486	.0000885
%RSD	26.05137	111.9029	48.19951	71.37510	97.19355	22.43105	49.92252
#1	-.000246	-.001452	.0004011	.0001078	-.003107	-.001647	.0001400
#2	-.000237	.018818	.0004798	.0005466	-.015891	-.002245	.0001134
#3	-.000147	.044825	.0001592	.0007800	-.003469	-.002609	.0002783

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2260266**	**.0050353**	**.0017477**	**-.000376**	**-.000655**	**-.012088**	**.0022942**
Stddev	.0217278	.0003765	.0000947	.000127	.000817	.006727	.0037584
%RSD	9.612914	7.477592	5.420580	33.77200	124.7789	55.65027	163.8236
#1	.2298617	.0054700	.0018527	-.000231	-.001421	-.019362	-.000570
#2	.2026367	.0048251	.0017217	-.000466	.000205	-.010810	.000902
#3	.2455815	.0048108	.0016687	-.000431	-.000747	-.006092	.006550

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB06 Acquired: 7/23/2025 18:51:38 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0015614	-.005475	.0002860
Stddev	.0006947	.002688	.0000538
%RSD	44.49068	49.09972	18.81349
#1	.0010241	-.007751	.0002466
#2	.0023459	-.002509	.0003473
#3	.0013143	-.006164	.0002641

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5599.198	88892.19	8322.401	4664.242	7140.112
Stddev	13.182	156.59	42.067	19.549	11.767
%RSD	.2354251	.1761573	.5054656	.4191344	.1647985
#1	5589.724	88821.57	8308.983	4657.992	7141.411
#2	5593.617	89071.66	8369.540	4686.152	7127.750
#3	5614.252	88783.35	8288.680	4648.582	7151.175

Sample Name: Q2655-02 Acquired: 7/23/2025 18:55:57 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0065841**	**-.000374**	**.0370129**	**.0008064**	**-.000249**	**.6179853**	**.1330482**
Stddev	.0011136	.000845	.0011471	.0020475	.001659	.0134073	.0006547
%RSD	16.91283	226.2410	3.099286	253.8949	664.9167	2.169521	.4920402
#1	.0078643	-.000076	.0359661	.0017569	-.000160	.6162143	.1337868
#2	.0060480	-.001327	.0368334	-.001544	-.001951	.6321902	.1325396
#3	.0058399	.000282	.0382392	.002206	.001363	.6055516	.1328180

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000993**	**-.000521**	**29.67416**	**.0026216**	**.0021301**	**.0048414**	**15.47656**
Stddev	.0000722	.000018	.28896	.0002024	.0001109	.0003689	.10096
%RSD	72.69909	3.549582	.9737773	7.718885	5.205529	7.620366	.6523488
#1	.0000161	-.000536	30.00761	.0028445	.0022470	.0052384	15.37520
#2	.0001447	-.000500	29.49715	.0025710	.0021170	.0047769	15.57712
#3	.0001373	-.000525	29.51771	.0024493	.0020264	.0045090	15.47734

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2942907**	**1.180085**	**.0089104**	**.0011259**	**304.1793**	**-.000849**	**.3351675**
Stddev	.0012434	.003745	.0000975	.0001152	2.2781	.002671	.0008503
%RSD	.4225233	.3173143	1.094387	10.23164	.7489299	314.4006	.2536961
#1	.2931178	1.182047	.0088457	.0010916	305.5770	-.001416	.3351865
#2	.2941600	1.182440	.0088629	.0010317	301.5505	.002059	.3343079
#3	.2955943	1.175767	.0090225	.0012543	305.4103	-.003191	.3360082

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.675430**	**.0561791**	**.0155366**	**-.002712**	**.0000860**	**1.273190**	**.0141990**
Stddev	.009016	.0010082	.0000924	.000737	.0006233	.023566	.0026315
%RSD	.2453050	1.794540	.5949068	27.19334	725.1008	1.850927	18.53323
#1	3.671319	.0552921	.0156247	-.003523	-.000630	1.250018	.0153152
#2	3.685769	.0559696	.0155446	-.002530	.000384	1.297131	.0111934
#3	3.669202	.0572755	.0154404	-.002082	.000504	1.272422	.0160886

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2655-02 Acquired: 7/23/2025 18:55:57 Type: Unk
Method: 6010-200.7 NEW(v56) 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	7.947650	.0006378	.0980936
Stddev	.035134	.0006386	.0003868
%RSD	.4420709	100.1298	.3943011
#1	7.987673	.0002991	.0984547
#2	7.933390	.0013745	.0976854
#3	7.921889	.0002399	.0981407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5234.591	84082.55	8326.757	4389.340	6199.260
Stddev	4.938	426.72	112.552	8.865	9.346
%RSD	.0943306	.5075010	1.351695	.2019726	.1507535
#1	5240.293	83632.32	8197.911	4379.880	6207.402
#2	5231.677	84134.31	8405.913	4390.681	6201.322
#3	5231.804	84481.03	8376.446	4397.458	6189.055

Sample Name: Q2668-04 Acquired: 7/23/2025 19:00:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0023072**	**-.003293**	**.3196309**	**-.004001**	**.0018402**	**.1573113**	**.3361705**
Stddev	.0018135	.000676	.0000712	.000989	.0007917	.0179899	.0018998
%RSD	78.60478	20.52803	.0222630	24.72284	43.02064	11.43588	.5651378
#1	.0020497	-.002544	.3197095	-.005056	.0026065	.1738197	.3365024
#2	.0006361	-.003476	.3196124	-.003852	.0018887	.1381373	.3341266
#3	.0042357	-.003859	.3195709	-.003095	.0010254	.1599770	.3378825

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001185**	**-.000475**	**125.1783**	**.0001673**	**.0153354**	**.0097112**	**19.43294**
Stddev	.0000325	.000073	.7309	.0004255	.0001477	.0001006	.04650
%RSD	27.45493	15.29383	.5839184	254.3010	.9632459	1.035849	.2393024
#1	.0000817	-.000557	124.9339	-.000021	.0154806	.0097789	19.48556
#2	.0001436	-.000419	124.6008	-.000131	.0153403	.0095957	19.39736
#3	.0001302	-.000449	126.0001	.000654	.0151853	.0097592	19.41589

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.037578**	**2.508196**	**.0224405**	**.0013901**	**378.9235**	**-.001270**	**.6499116**
Stddev	.003923	.013447	.0003489	.0002023	2.6721	.000750	.0034014
%RSD	.3780712	.5361186	1.554860	14.55332	.7051745	59.02511	.5233596
#1	1.037042	2.499161	.0228268	.0013637	382.0021	-.001026	.6538156
#2	1.033952	2.501776	.0223464	.0012022	377.2055	-.000673	.6483317
#3	1.041742	2.523649	.0221483	.0016042	377.5630	-.002111	.6475875

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.230335**	**.0302436**	**.0020279**	**-.003545**	**-.005876**	**1.317898**	**.0374964**
Stddev	.006211	.0011518	.0002725	.000076	.000303	.015198	.0000716
%RSD	.2784705	3.808431	13.43836	2.155332	5.163823	1.153193	.1908643
#1	2.227775	.0315513	.0017135	-.003605	-.005553	1.335168	.0375512
#2	2.225814	.0293801	.0021732	-.003570	-.006155	1.306566	.0374155
#3	2.237417	.0297992	.0021970	-.003459	-.005921	1.311959	.0375225

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2668-04 Acquired: 7/23/2025 19:00:20 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**1.944193**	**.0154255**	**.4118285**
Stddev	.007311	.0004840	.0016976
%RSD	.3760462	3.137928	.4122073
#1	1.942796	.0151302	.4115196
#2	1.937681	.0151622	.4103066
#3	1.952102	.0159841	.4136594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5149.687**	**82967.55**	**8268.436**	**4287.489**	**6022.194**
Stddev	8.021	296.74	27.273	29.669	5.622
%RSD	.1557571	.3576619	.3298413	.6919927	.0933519
#1	5158.308	82624.97	8279.004	4255.994	6026.141
#2	5148.310	83132.79	8288.843	4314.911	6024.684
#3	5142.444	83144.88	8237.460	4291.562	6015.757

Sample Name: Q2668-08 Acquired: 7/23/2025 19:04:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.002464**	**-.003682**	**.0167641**	**-.000736**	**.0000527**	**.1875598**	**.1385016**
Stddev	.003341	.000986	.0017338	.003103	.0007847	.0095209	.0005772
%RSD	135.6389	26.77658	10.34206	421.7121	1489.913	5.076175	.4167792
#1	-.001962	-.002808	.0172848	.002013	-.000572	.1951796	.1387866
#2	.000599	-.004751	.0148297	-.000119	-.000203	.1768869	.1388809
#3	-.006027	-.003487	.0181779	-.004101	.000933	.1906129	.1378373

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000159**	**.0000689**	**29.97701**	**.0012248**	**.0279945**	**.0206119**	**.1188695**
Stddev	.000005	.0000458	.12971	.0001726	.0002762	.0003272	.0051280
%RSD	3.155631	66.46375	.4327139	14.09097	.9864443	1.587304	4.313948
#1	-.000158	.0000488	30.12020	.0010974	.0277119	.0203546	.1220876
#2	-.000164	.0001214	29.94347	.0011558	.0280078	.0205010	.1129559
#3	-.000154	.0000366	29.86736	.0014213	.0282637	.0209801	.1215649

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5995395**	**1.486050**	**.0118043**	**.0002433**	**303.6532**	**.0020362**	**.0826726**
Stddev	.0013408	.015917	.0009581	.0005892	3.4947	.0004932	.0004643
%RSD	.2236323	1.071069	8.116276	242.2083	1.150892	24.22038	.5615948
#1	.6001494	1.468246	.0109431	.0005328	300.0747	.0015455	.0823941
#2	.5980022	1.498901	.0116334	-.000435	303.8271	.0020313	.0832086
#3	.6004669	1.491003	.0128363	.000632	307.0577	.0025319	.0824152

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.396783**	**.0206141**	**.0016059**	**-.003119**	**-.001870**	**.9611089**	**.0169484**
Stddev	.022359	.0002807	.0003310	.000764	.000631	.0116233	.0034432
%RSD	1.600781	1.361540	20.61257	24.50212	33.72853	1.209358	20.31589
#1	1.371052	.0203147	.0018818	-.003876	-.001150	.9526337	.0204392
#2	1.407811	.0206561	.0012389	-.002348	-.002326	.9743592	.0168513
#3	1.411487	.0208714	.0016970	-.003134	-.002133	.9563339	.0135548

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2668-08 Acquired: 7/23/2025 19:04:42 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.5361740	-.007795	.0840142
Stddev	.0023662	.001408	.0003258
%RSD	.4413205	18.06053	.3878138
#1	.5334502	-.006596	.0838736
#2	.5373499	-.009345	.0843867
#3	.5377220	-.007443	.0837823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5311.726	84322.57	8371.123	4422.909	6245.655
Stddev	29.541	233.46	69.920	13.446	42.103
%RSD	.5561495	.2768704	.8352500	.3040096	.6741245
#1	5328.128	84588.57	8296.142	4426.270	6266.586
#2	5329.427	84227.45	8434.539	4434.356	6273.191
#3	5277.623	84151.67	8382.688	4408.102	6197.188

Sample Name: Q2668-12 Acquired: 7/23/2025 19:09:06 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**-.002118**	**-.002983**	**.3670215**	**-.001800**	**.0009389**	**.3053188**	**.1718802**
Stddev	.001234	.001264	.0026077	.001909	.0005105	.0066296	.0008294
%RSD	58.29222	42.38355	.7104925	106.0354	54.37287	2.171360	.4825199
#1	-.000806	-.004416	.3640317	-.001255	.0013289	.3122237	.1724271
#2	-.003256	-.002504	.3682070	-.000223	.0003611	.3047289	.1709259
#3	-.002292	-.002027	.3688258	-.003922	.0011267	.2990040	.1722875

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000060**	**.0003233**	**60.73496**	**.0013008**	**.0333340**	**.0082083**	**4.966287**
Stddev	.000038	.0001344	.14173	.0004221	.0001806	.0001231	.040719
%RSD	64.19708	41.54979	.2333530	32.45206	.5418826	1.499220	.8199057
#1	-.000021	.0003961	60.65793	.0015755	.0332047	.0082916	4.920703
#2	-.000097	.0004056	60.64843	.0008147	.0332568	.0080670	4.979102
#3	-.000061	.0001683	60.89852	.0015122	.0335404	.0082664	4.999057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.692614**	**2.779205**	**.0249698**	**.0004106**	**350.2842**	**-.001407**	**.6092955**
Stddev	.000322	.023863	.0003913	.0002509	2.1215	.001920	.0007865
%RSD	.0190002	.8586246	1.567172	61.10066	.6056512	136.4008	.1290829
#1	1.692752	2.761820	.0254034	.0005226	348.2763	-.003022	.6091436
#2	1.692247	2.769384	.0246428	.0005859	350.0728	-.001916	.6085960
#3	1.692844	2.806412	.0248632	.0001232	352.5034	.000715	.6101468

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.051711**	**.0295819**	**.0021463**	**-.003170**	**-.000821**	**1.562202**	**.0213451**
Stddev	.030205	.0003732	.0003029	.000304	.001236	.014283	.0014971
%RSD	.9897803	1.261434	14.11352	9.580659	150.5787	.9143133	7.013976
#1	3.025706	.0297365	.0018334	-.003315	.000259	1.555338	.0196170
#2	3.044584	.0298529	.0021673	-.003374	-.000553	1.552646	.0222485
#3	3.084842	.0291563	.0024382	-.002821	-.002169	1.578622	.0221699

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2668-12 Acquired: 7/23/2025 19:09:06 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**4.725487**	**.0045076**	**.2785699**
Stddev	.011624	.0007365	.0004626
%RSD	.2459770	16.33893	.1660581
#1	4.713488	.0052121	.2782887
#2	4.736695	.0037428	.2783171
#3	4.726278	.0045679	.2791038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5210.895**	**87687.98**	**8861.202**	**4464.268**	**6132.204**
Stddev	17.128	78.14	23.868	4.981	21.575
%RSD	.3286993	.0891084	.2693565	.1115704	.3518374
#1	5225.907	87774.55	8833.896	4468.305	6151.198
#2	5214.541	87622.68	8878.090	4465.797	6136.670
#3	5192.238	87666.71	8871.621	4458.702	6108.746

Sample Name: Q2672-02 Acquired: 7/23/2025 19:13:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0195044**	**-.000580**	**.0371117**	**-.000774**	**.0176268**	**1.465617**	**.1646228**
Stddev	.0022590	.001116	.0007750	.002494	.0013920	.009959	.0009430
%RSD	11.58211	192.2949	2.088220	322.1525	7.896886	.6795337	.5728000
#1	.0190018	-.000198	.0362281	.002080	.0171669	1.474815	.1655426
#2	.0219724	.000294	.0374306	-.002531	.0165231	1.466995	.1646676
#3	.0175390	-.001837	.0376763	-.001871	.0191906	1.455040	.1636583

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001515**	**.0105038**	**87.10773**	**.0037742**	**.0087516**	**.0471122**	**15.75888**
Stddev	.0000481	.0000906	.09145	.0002463	.0001563	.0002636	.11210
%RSD	31.74598	.8623198	.1049905	6.526758	1.786404	.5595223	.7113508
#1	.0001523	.0105828	87.20433	.0037125	.0087908	.0468244	15.63779
#2	.0001030	.0105237	87.02248	.0040456	.0088847	.0471702	15.77980
#3	.0001991	.0104050	87.09638	.0035646	.0085795	.0473420	15.85904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4337672**	**5.831404**	**.0675389**	**.0013703**	**413.1755**	**-.000389**	**1.667986**
Stddev	.0002432	.043569	.0003631	.0000198	2.9017	.001397	.004596
%RSD	.0560594	.7471456	.5376242	1.443233	.7022899	359.4722	.2755316
#1	.4338470	5.821858	.0672904	.0013849	413.1744	.001170	1.672847
#2	.4339605	5.878954	.0673707	.0013478	410.2744	-.001528	1.663712
#3	.4334942	5.793399	.0679556	.0013781	416.0777	-.000808	1.667399

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.705919**	**7.150500**	**.0036642**	**-.002861**	**-.002570**	**1.982803**	**.0157866**
Stddev	.033671	.057559	.0001333	.000183	.000505	.011593	.0004152
%RSD	.9085611	.8049604	3.638594	6.404629	19.64145	.5846700	2.630127
#1	3.667937	7.211616	.0035226	-.003006	-.003066	1.972066	.0159815
#2	3.732104	7.142561	.0037873	-.002655	-.002057	1.981247	.0160686
#3	3.717715	7.097323	.0036827	-.002921	-.002587	1.995095	.0153098

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-02 Acquired: 7/23/2025 19:13:26 Type: Unk
Method: 6010-200.7 NEW(v56) 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	12.09563	.0123550	.1737532
Stddev	.08629	.0028563	.0001289
%RSD	.7133854	23.11828	.0742045
#1	12.12501	.0150698	.1738509
#2	11.99848	.0126194	.1738017
#3	12.16338	.0093757	.1736071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5140.560	85424.37	8509.937	4380.532	6021.659
Stddev	9.608	192.35	60.513	14.410	10.506
%RSD	.1869041	.2251693	.7110867	.3289642	.1744679
#1	5151.613	85564.56	8453.177	4377.818	6028.955
#2	5135.864	85205.09	8503.024	4396.106	6026.405
#3	5134.204	85503.47	8573.610	4367.671	6009.618

Sample Name: Q2672-04 Acquired: 7/23/2025 19:17:44 Type: Unk
Method: 6010-200.7 NEW(v56) 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	.0297919	-.002197	.0224275	-.002826	.0156902	1.441714	.1605394
Stddev	.0043467	.000481	.0008085	.001364	.0011360	.008389	.0031537
%RSD	14.59021	21.91129	3.605136	48.26948	7.240127	.5818612	1.964449
#1	.0332061	-.001983	.0217399	-.004011	.0148429	1.443848	.1606507
#2	.0248987	-.002748	.0222243	-.003132	.0169811	1.432464	.1636361
#3	.0312709	-.001860	.0233182	-.001335	.0152467	1.448829	.1573316

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002285	.0008381	83.70396	.0035306	.0111317	.0182961	22.74402
Stddev	.0000517	.0001137	.42811	.0002064	.0002116	.0005963	.06465
%RSD	22.65341	13.56613	.5114536	5.845941	1.900499	3.259029	.2842615
#1	.0002882	.0007722	84.16287	.0034433	.0110263	.0179328	22.71850
#2	.0001983	.0009694	83.63366	.0037663	.0109935	.0189843	22.69603
#3	.0001989	.0007728	83.31536	.0033823	.0113752	.0179712	22.81754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5259020	4.959929	.0786037	.0017330	367.3670	.0011554	1.618078
Stddev	.0004179	.025428	.0000993	.0002602	2.9900	.0018088	.004113
%RSD	.0794708	.5126776	.1263452	15.01248	.8139031	156.5469	.2542047
#1	.5257267	4.978974	.0787023	.0019795	369.5372	-.000816	1.613388
#2	.5256002	4.931052	.0785037	.0014610	363.9564	.001544	1.621073
#3	.5263790	4.969760	.0786051	.0017584	368.6074	.002738	1.619773

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.776539	5.160620	.0028727	-.004100	-.003235	2.257673	.0196014
Stddev	.023941	.021643	.0002568	.000298	.000426	.010819	.0031910
%RSD	.6339383	.4193885	8.937988	7.268407	13.16506	.4791900	16.27920
#1	3.768908	5.176168	.0029582	-.003764	-.002963	2.246233	.0174562
#2	3.757343	5.169789	.0030757	-.004334	-.003725	2.259048	.0180797
#3	3.803365	5.135901	.0025841	-.004201	-.003016	2.267739	.0232684

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04 Acquired: 7/23/2025 19:17:44 Type: Unk
Method: 6010-200.7 NEW(v56) 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	12.28332	.0136715	.1636599
Stddev	.03125	.0008289	.0005537
%RSD	.2544441	6.062768	.3382997
#1	12.30929	.0140805	.1639966
#2	12.29204	.0127176	.1639621
#3	12.24863	.0142164	.1630208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5176.773	84140.00	8451.835	4372.647	6048.213
Stddev	8.131	193.61	33.188	12.775	6.227
%RSD	.1570706	.2301096	.3926720	.2921493	.1029482
#1	5182.399	84133.33	8422.566	4369.536	6054.135
#2	5180.470	84336.86	8445.047	4386.690	6048.782
#3	5167.450	83949.80	8487.893	4361.716	6041.721

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04DUP Acquired: 7/23/2025 19:22:03 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0320317**	**-.000196**	**.0239279**	**-.002158**	**.0173212**	**1.641920**	**.1816791**
Stddev	.0012760	.002377	.0006863	.003256	.0005016	.022162	.0011916
%RSD	3.983400	1212.599	2.868014	150.8437	2.895733	1.349751	.6558664
#1	.0309047	-.000554	.0233261	.001368	.0173131	1.636684	.1822251
#2	.0334171	-.002374	.0246753	-.002794	.0178268	1.666231	.1824999
#3	.0317734	.002339	.0237825	-.005049	.0168238	1.622845	.1803124

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003222**	**.0009592**	**94.75969**	**.0038508**	**.0129142**	**.0205305**	**25.45395**
Stddev	.0000344	.0001055	.22358	.0003702	.0002152	.0003830	.14420
%RSD	10.68189	11.00059	.2359422	9.613378	1.666419	1.865397	.5665062
#1	.0003385	.0010285	94.87839	.0035933	.0126673	.0201421	25.33249
#2	.0003454	.0008378	94.50179	.0042750	.0130140	.0205417	25.61331
#3	.0002827	.0010114	94.89887	.0036840	.0130615	.0209078	25.41605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5794200**	**5.579669**	**.0886199**	**.0011437**	**410.8672**	**-.002812**	**1.820276**
Stddev	.0009398	.022372	.0003276	.0001634	3.1781	.003697	.003866
%RSD	.1621934	.4009520	.3696632	14.28335	.7735015	131.4650	.2124121
#1	.5802815	5.554319	.0883182	.0010967	407.5270	.001441	1.819589
#2	.5784178	5.596650	.0885732	.0013254	413.8536	-.005256	1.824439
#3	.5795606	5.588038	.0889684	.0010090	411.2210	-.004622	1.816798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.267400**	**5.810247**	**.0019957**	**-.003266**	**-.003724**	**2.530195**	**.0167078**
Stddev	.015042	.017405	.0003050	.000652	.000677	.025721	.0036128
%RSD	.3524803	.2995603	15.28212	19.97546	18.18037	1.016581	21.62325
#1	4.259818	5.827738	.0016436	-.003463	-.003621	2.507028	.0144787
#2	4.284724	5.792929	.0021744	-.003798	-.003104	2.557874	.0208761
#3	4.257658	5.810073	.0021693	-.002538	-.004446	2.525684	.0147686

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04DUP Acquired: 7/23/2025 19:22:03 Type: Unk
Method: 6010-200.7 NEW(v56) 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	13.99459	.0135073	.1856435
Stddev	.07213	.0030838	.0004485
%RSD	.5153952	22.83077	.2416097
#1	13.94377	.0153005	.1859900
#2	13.96284	.0099464	.1851369
#3	14.07714	.0152749	.1858037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5108.888	84376.18	8390.805	4324.984	5960.482
Stddev	11.088	252.29	13.722	9.720	5.961
%RSD	.2170380	.2990106	.1635419	.2247437	.1000126
#1	5121.688	84666.40	8385.317	4317.774	5967.136
#2	5102.258	84253.03	8406.422	4321.141	5955.630
#3	5102.716	84209.12	8380.675	4336.039	5958.679

Sample Name: Q2672-04LX5 Acquired: 7/23/2025 19:26:22 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.0058321**	**-.001149**	**.0044329**	**-.003293**	**.0012767**	**.3017335**	**.0302835**
Stddev	.0023505	.000255	.0000895	.001264	.0006533	.0113475	.0005332
%RSD	40.30384	22.20330	2.018835	38.39203	51.17329	3.760764	1.760872
#1	.0071292	-.001245	.0045081	-.001943	.0005261	.3109632	.0302006
#2	.0072482	-.001342	.0044567	-.003485	.0017172	.3051732	.0308533
#3	.0031188	-.000860	.0043339	-.004450	.0015869	.2890642	.0297965

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000234**	**.0001904**	**17.71148**	**.0006510**	**.0020628**	**.0042550**	**4.418064**
Stddev	.0000389	.0000846	.05958	.0004523	.0000514	.0001731	.018644
%RSD	166.1097	44.43847	.3363874	69.46777	2.491458	4.068186	.4219992
#1	.0000420	.0001167	17.66129	.0011698	.0021216	.0042527	4.412805
#2	-.000021	.0001718	17.69582	.0004430	.0020264	.0044292	4.438773
#3	.000049	.0002828	17.77732	.0003402	.0020403	.0040830	4.402615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1102781**	**1.069597**	**.0162901**	**.0003106**	**63.14494**	**-.002310**	**.3317153**
Stddev	.0005376	.002282	.0001349	.0001540	.08650	.002187	.0003260
%RSD	.4874952	.2133841	.8279610	49.56752	.1369916	94.65106	.0982819
#1	.1097838	1.067204	.0163750	.0004795	63.10701	-.000138	.3318705
#2	.1108505	1.071750	.0161345	.0002743	63.24393	-.004511	.3313407
#3	.1101999	1.069837	.0163607	.0001780	63.08388	-.002282	.3319348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.879361**	**1.238118**	**.0007035**	**-.001642**	**-.002266**	**.4325977**	**.0041497**
Stddev	.030840	.004590	.0001763	.000505	.001512	.0044684	.0013520
%RSD	1.071064	.3706894	25.06186	30.73308	66.73834	1.032932	32.57996
#1	2.913716	1.233006	.0008973	-.001060	-.003434	.4304578	.0029589
#2	2.870301	1.241886	.0006607	-.001944	-.002804	.4377337	.0038709
#3	2.854066	1.239462	.0005526	-.001923	-.000558	.4296016	.0056194

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04LX5 Acquired: 7/23/2025 19:26:22 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**2.508912**	**.0213084**	**.0349770**
Stddev	.013902	.0045525	.0002406
%RSD	.5541147	21.36464	.6877522
#1	2.493708	.0219693	.0346995
#2	2.520976	.0254943	.0351056
#3	2.512051	.0164616	.0351259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5422.128**	**87649.06**	**8119.134**	**4540.329**	**6544.960**
Stddev	13.967	282.27	24.100	11.517	21.123
%RSD	.2575899	.3220437	.2968291	.2536617	.3227436
#1	5432.227	87354.24	8121.545	4527.248	6563.949
#2	5427.969	87916.83	8141.938	4544.793	6548.723
#3	5406.190	87676.11	8093.920	4548.945	6522.208

Sample Name: Q2672-04MS Acquired: 7/23/2025 19:30:37 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.8069859**	**1.649433**	**.9055422**	**1.925569**	**.8208368**	**3.393737**	**.3585735**
Stddev	.0034776	.026644	.0022598	.007872	.0022021	.017805	.0000802
%RSD	.4309338	1.615365	.2495511	.4088355	.2682808	.5246366	.0223579
#1	.8030175	1.650515	.9035029	1.917867	.8191511	3.374067	.3584872
#2	.8095016	1.675519	.9079717	1.925240	.8200309	3.408753	.3585878
#3	.8084385	1.622263	.9051519	1.933602	.8233284	3.398390	.3586456

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1914810**	**.1864695**	**86.72393**	**.3829501**	**.2054083**	**.3042897**	**25.34511**
Stddev	.0005916	.0005807	.31072	.0018569	.0003859	.0006958	.03005
%RSD	.3089684	.3114047	.3582871	.4848875	.1878914	.2286706	.1185491
#1	.1912294	.1858030	86.65941	.3820350	.2049724	.3036484	25.35282
#2	.1910569	.1867394	86.45053	.3850869	.2057066	.3050295	25.37055
#3	.1921569	.1868662	87.06184	.3817284	.2055458	.3041912	25.31196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7193340**	**6.894970**	**.5649338**	**.0739314**	**368.6083**	**.2934577**	**1.813128**
Stddev	.0015554	.045611	.0014388	.0001277	3.5141	.0031459	.005705
%RSD	.2162242	.6615109	.2546833	.1726887	.9533511	1.072022	.3146735
#1	.7211264	6.930185	.5632816	.0738155	372.1125	.2915612	1.810108
#2	.7183395	6.911280	.5656091	.0740683	368.6281	.2970891	1.809568
#3	.7185361	6.843447	.5659108	.0739104	365.0843	.2917228	1.819709

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.84963**	**5.586124**	**.4212748**	**.6879392**	**.1945461**	**3.088210**	**6.032417**
Stddev	.03719	.009727	.0018663	.0033694	.0008872	.017449	.021049
%RSD	.2685232	.1741320	.4430227	.4897818	.4560454	.5650063	.3489326
#1	13.87545	5.583043	.4191209	.6844700	.1950160	3.108249	6.008404
#2	13.86644	5.578311	.4222905	.6911990	.1935227	3.076382	6.041172
#3	13.80701	5.597019	.4224130	.6881485	.1950995	3.079998	6.047676

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04MS Acquired: 7/23/2025 19:30:37 Type: Unk
Method: 6010-200.7 NEW(v56) 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	12.58056	.2013988	.3600893
Stddev	.00486	.0007590	.0005073
%RSD	.0386331	.3768717	.1408895
#1	12.57885	.2006646	.3602870
#2	12.58605	.2021804	.3595129
#3	12.57679	.2013513	.3604681

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5081.345	83760.08	8129.272	4329.484	5910.030
Stddev	2.556	227.36	8.389	17.740	1.612
%RSD	.0503001	.2714461	.1031915	.4097579	.0272827
#1	5083.531	83582.98	8129.999	4320.280	5908.190
#2	5081.970	83680.79	8137.273	4349.935	5910.708
#3	5078.535	84016.47	8120.543	4318.236	5911.193

Sample Name: Q2672-04MSD Acquired: 7/23/2025 19:34:43 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.8295247**	**1.749238**	**.9242826**	**1.986630**	**.8371736**	**3.523772**	**.3701367**
Stddev	.0020363	.032507	.0011565	.004726	.0038714	.008480	.0006619
%RSD	.2454728	1.858368	.1251292	.2378750	.4624341	.2406443	.1788151
#1	.8275585	1.711825	.9240730	1.981176	.8401551	3.522609	.3707380
#2	.8293913	1.765310	.9232453	1.989208	.8327983	3.515934	.3702445
#3	.8316244	1.770578	.9255297	1.989505	.8385673	3.532774	.3694275

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1935253**	**.1909611**	**90.66994**	**.3992539**	**.2107594**	**.3111240**	**26.81053**
Stddev	.0009351	.0004143	.69646	.0023217	.0004749	.0010226	.07884
%RSD	.4831720	.2169434	.7681266	.5814964	.2253410	.3286908	.2940812
#1	.1941063	.1913873	91.47334	.3984192	.2111080	.3111488	26.85837
#2	.1924467	.1905598	90.29935	.4018775	.2102185	.3100892	26.71953
#3	.1940230	.1909361	90.23714	.3974650	.2109518	.3121340	26.85370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7486314**	**7.203171**	**.5793474**	**.0760635**	**387.9437**	**.3016206**	**1.921391**
Stddev	.0031522	.035121	.0009742	.0002148	3.3099	.0013607	.004100
%RSD	.4210562	.4875789	.1681614	.2824210	.8531952	.4511383	.2134080
#1	.7522659	7.233809	.5802346	.0760053	384.1413	.3030274	1.916682
#2	.7469836	7.164842	.5795028	.0758838	389.5107	.3003112	1.924173
#3	.7466447	7.210863	.5783048	.0763015	390.1792	.3015233	1.923317

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.32728**	**5.827405**	**.4302617**	**.7071184**	**.1959657**	**3.256296**	**6.110879**
Stddev	.09901	.024500	.0012445	.0013307	.0011193	.012508	.017148
%RSD	.6910596	.4204343	.2892458	.1881794	.5711606	.3841054	.2806118
#1	14.23451	5.842877	.4303769	.7086396	.1957721	3.242612	6.124339
#2	14.43153	5.799157	.4289635	.7061708	.1949560	3.267137	6.091572
#3	14.31581	5.840181	.4314445	.7065447	.1971692	3.259140	6.116725

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04MSD Acquired: 7/23/2025 19:34:43 Type: Unk
Method: 6010-200.7 NEW(v56) 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	13.32373	.2046015	.3726374
Stddev	.03729	.0050136	.0012439
%RSD	.2799012	2.450412	.3338110
#1	13.29199	.2087327	.3740698
#2	13.31440	.1990237	.3718293
#3	13.36480	.2060480	.3720132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5156.447	84393.02	8276.193	4355.883	5993.645
Stddev	17.291	178.27	36.475	4.298	13.950
%RSD	.3353240	.2112421	.4407169	.0986664	.2327472
#1	5152.921	84594.14	8236.256	4358.964	5984.262
#2	5175.228	84330.48	8307.744	4357.711	6009.676
#3	5141.190	84254.44	8284.579	4350.973	5986.998

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV07 Acquired: 7/23/2025 19:38:49 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.939891**	**4.870234**	**4.818314**	**4.968836**	**4.998521**	**9.875446**	**9.927261**
Stddev	.004022	.197290	.003221	.015308	.007830	.014651	.091634
%RSD	.0814112	4.050925	.0668560	.3080811	.1566482	.1483612	.9230545
#1	4.943723	5.093095	4.816812	4.986438	5.002191	9.865209	9.991625
#2	4.940247	4.799702	4.816118	4.958632	4.989530	9.892230	9.967809
#3	4.935704	4.717904	4.822012	4.961439	5.003841	9.868900	9.822348

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2524984**	**2.417813**	**25.08773**	**.9689408**	**2.439152**	**1.238620**	**4.898446**
Stddev	.0007413	.002374	.06637	.0029325	.002875	.002465	.009991
%RSD	.2935670	.0981708	.2645629	.3026490	.1178696	.1990292	.2039680
#1	.2516580	2.416850	25.06266	.9714364	2.438868	1.236708	4.909943
#2	.2530592	2.416072	25.16298	.9696750	2.436429	1.237749	4.893532
#3	.2527780	2.420516	25.03754	.9657109	2.442158	1.241402	4.891863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.508340**	**24.46369**	**2.442361**	**1.240579**	**22.59206**	**2.475876**	**2.505699**
Stddev	.003519	.07241	.003989	.000600	.11431	.010295	.005171
%RSD	.1403099	.2959792	.1633277	.0483781	.5059832	.4158015	.2063807
#1	2.508999	24.52505	2.440892	1.240512	22.71967	2.487217	2.508456
#2	2.511483	24.38383	2.439314	1.240016	22.49903	2.467122	2.499733
#3	2.504537	24.48220	2.446876	1.241210	22.55748	2.473288	2.508907

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.23886**	**5.050634**	**5.025954**	**4.879896**	**5.053886**	**4.762665**	**4.978057**
Stddev	.12306	.021606	.009896	.004822	.012397	.015301	.019255
%RSD	.4875810	.4277903	.1969048	.0988114	.2452951	.3212717	.3867998
#1	25.38096	5.030470	5.031737	4.885101	5.051016	4.757956	4.996138
#2	25.16680	5.073439	5.014527	4.879007	5.067467	4.750272	4.957811
#3	25.16883	5.047994	5.031598	4.875581	5.043176	4.779768	4.980224

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV07 Acquired: 7/23/2025 19:38:49 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.857486**	**4.913007**	**5.098620**
Stddev	.038782	.010562	.030175
%RSD	.7983906	.2149853	.5918232
#1	4.902237	4.923779	5.081128
#2	4.836538	4.902668	5.133463
#3	4.833684	4.912573	5.081269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5306.237**	**86200.97**	**8024.755**	**4447.263**	**6306.546**
Stddev	14.705	344.18	13.785	20.560	14.442
%RSD	.2771173	.3992776	.1717774	.4623147	.2290043
#1	5305.466	85805.40	8014.794	4429.175	6301.118
#2	5321.312	86365.55	8018.984	4469.624	6322.916
#3	5291.934	86431.96	8040.488	4442.991	6295.604

Sample Name: CCB07 Acquired: 7/23/2025 19:47:11 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011763**	**.0012941**	**.0002663**	**-.001549**	**-.000917**	**.0093343**	**-.001633**
Stddev	.0016736	.0009003	.0005464	.003217	.000204	.0024956	.000613
%RSD	142.2714	69.57032	205.1989	207.6318	22.25773	26.73532	37.54508
#1	-.000752	.0023335	.0006366	-.000428	-.000983	.0108659	-.001060
#2	.002248	.0007915	-.000361	.000957	-.000688	.0106823	-.001560
#3	.002033	.0007573	.000524	-.005177	-.001080	.0064546	-.002279

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000002**	**.0001652**	**.0365693**	**-.000327**	**.0001511**	**.0008058**	**-.002237**
Stddev	.000034	.0000867	.0069479	.000398	.0000635	.0005162	.003641
%RSD	1418.807	52.48124	18.99929	121.7502	42.03172	64.06301	162.7522
#1	.000026	.0000665	.0436619	-.000181	.0002149	.0002292	-.001830
#2	.000007	.0002002	.0297758	-.000022	.0001504	.0012250	-.006064
#3	-.000040	.0002290	.0362701	-.000777	.0000879	.0009632	.001183

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000527**	**.0074599**	**.0007015**	**.0003396**	**.4841757**	**-.001257**	**.0012831**
Stddev	.0001942	.0293552	.0000555	.0003500	.0099871	.002731	.0001106
%RSD	368.6054	393.5069	7.913776	103.0580	2.062703	217.1976	8.615908
#1	.0001975	-.025066	.0007219	.0005599	.4880464	-.002603	.0014105
#2	.0001286	.031985	.0007439	-.000064	.4728326	.001885	.0012257
#3	-.000168	.015461	.0006387	.000523	.4916480	-.003054	.0012130

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8971772**	**.0114991**	**.0017014**	**.0017006**	**.0008087**	**.0027154**	**.0041527**
Stddev	.0458640	.0002689	.0002432	.0002653	.0007637	.0072324	.0026298
%RSD	5.112034	2.338502	14.29668	15.60184	94.43898	266.3448	63.32841
#1	.8688178	.0113601	.0019762	.0016674	-.000021	-.003491	.0013380
#2	.8726230	.0118091	.0015139	.0019809	.000965	.000980	.0045730
#3	.9500908	.0113282	.0016139	.0014534	.001482	.010658	.0065471

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB07 Acquired: 7/23/2025 19:47:11 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0055172	.0041103	.0008512
Stddev	.0017084	.0027270	.0000509
%RSD	30.96543	66.34533	5.983525
#1	.0054829	.0058131	.0008532
#2	.0072425	.0055527	.0009011
#3	.0038262	.0009650	.0007993

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5588.370	91296.20	8316.189	4746.834	7029.912
Stddev	11.782	495.66	27.147	15.661	12.723
%RSD	.2108284	.5429156	.3264331	.3299183	.1809804
#1	5600.112	91740.40	8320.376	4763.535	7041.997
#2	5588.448	91386.66	8287.193	4744.487	7031.103
#3	5576.549	90761.54	8341.000	4732.479	7016.635

Sample Name: Q2672-04A Acquired: 7/23/2025 19:51:30 Type: Unk
Method: 6010-200.7 NEW(v56) 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	**.4619985**	**1.017215**	**.5159664**	**1.082207**	**.2867341**	**2.134128**	**.2330916**
Stddev	.0846191	.134221	.0925208	.204294	.0896827	.019531	.0022032
%RSD	18.31588	13.19499	17.93156	18.87754	31.27730	.9151822	.9452070
#1	.3791853	.880739	.4255167	.880511	.1980379	2.117330	.2311487
#2	.4584956	1.021846	.5119549	1.077106	.2847925	2.129496	.2326409
#3	.5483146	1.149062	.6104278	1.289004	.3773718	2.155559	.2354853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0698023**	**.1046382**	**88.83569**	**.1442667**	**.1190142**	**.1772750**	**24.66677**
Stddev	.0035612	.0197987	.28456	.0063983	.0208040	.0303996	.03324
%RSD	5.101804	18.92106	.3203249	4.435025	17.48024	17.14829	.1347592
#1	.0663667	.0851772	88.54729	.1379364	.0984268	.1475115	24.64706
#2	.0695633	.1039794	89.11625	.1441328	.1185877	.1760404	24.70515
#3	.0734770	.1247581	88.84354	.1507308	.1400282	.2082732	24.64811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6104958**	**5.891267**	**.3511803**	**.0308563**	**384.8589**	**.0948719**	**1.756985**
Stddev	.0034344	.042902	.0515202	.0015510	1.6268	.0063116	.002776
%RSD	.5625628	.7282349	14.67058	5.026504	.4227021	6.652727	.1579856
#1	.6065831	5.861854	.3006407	.0294875	383.5930	.0877805	1.756185
#2	.6118926	5.871452	.3492723	.0305405	386.6938	.0969615	1.760073
#3	.6130119	5.940496	.4036280	.0325409	384.2900	.0998736	1.754697

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.553171**	**5.578142**	**.1414862**	**.2227621**	**.0146130**	**2.451541**	**3.388660**
Stddev	.105302	.032709	.0451217	.0751044	.0016671	.007863	.618059
%RSD	1.394141	.5863869	31.89126	33.71507	11.40844	.3207272	18.23905
#1	7.459581	5.540414	.0973198	.1492225	.0129138	2.445321	2.774660
#2	7.532740	5.595470	.1396326	.2197248	.0146792	2.448923	3.380621
#3	7.667190	5.598542	.1875062	.2993392	.0162461	2.460379	4.010700

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: Q2672-04A Acquired: 7/23/2025 19:51:30 Type: Unk
Method: 6010-200.7 NEW(v56) 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	13.13972	.0757837	.2349115
Stddev	.09740	.0013553	.0019299
%RSD	.7412820	1.788396	.8215312
#1	13.24430	.0751900	.2329530
#2	13.12327	.0748267	.2349700
#3	13.05158	.0773346	.2368114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5165.000	83423.88	8232.821	4375.747	5982.697
Stddev	12.854	244.20	65.047	9.197	24.285
%RSD	.2488684	.2927184	.7900889	.2101840	.4059208
#1	5153.055	83705.58	8307.893	4365.843	5961.148
#2	5163.343	83272.36	8197.323	4377.378	5977.932
#3	5178.602	83293.69	8193.246	4384.019	6009.012

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV08 Acquired: 7/23/2025 19:55:42 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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	**4.935447**	**4.555572**	**4.805654**	**4.960779**	**5.001238**	**9.781115**	**9.996050**
Stddev	.020122	.058293	.011392	.030844	.016074	.022292	.211677
%RSD	.4077002	1.279606	.2370548	.6217514	.3213936	.2279061	2.117609
#1	4.921063	4.505337	4.796472	4.938529	4.990599	9.793232	9.966288
#2	4.926837	4.541889	4.802087	4.947820	4.993388	9.755389	9.800828
#3	4.958441	4.619490	4.818402	4.995988	5.019729	9.794725	10.22103

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2494389**	**2.403999**	**24.71959**	**.9627726**	**2.427864**	**1.230471**	**4.887250**
Stddev	.0011504	.005925	.11744	.0057498	.006430	.005541	.029631
%RSD	.4611976	.2464471	.4750693	.5972095	.2648532	.4503536	.6062817
#1	.2502925	2.397848	24.74046	.9667287	2.421759	1.224947	4.862602
#2	.2481307	2.404480	24.59313	.9561770	2.427256	1.230437	4.920124
#3	.2498935	2.409668	24.82520	.9654121	2.434577	1.236030	4.879022

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.481428**	**24.25399**	**2.428844**	**1.239835**	**22.82736**	**2.466084**	**2.494720**
Stddev	.010314	.09415	.006555	.001989	.11800	.003626	.013632
%RSD	.4156672	.3881906	.2698940	.1604137	.5169336	.1470514	.5464460
#1	2.476385	24.16578	2.422368	1.238250	22.71713	2.466241	2.484952
#2	2.474607	24.24306	2.428687	1.242067	22.95184	2.462382	2.510294
#3	2.493294	24.35313	2.435475	1.239188	22.81312	2.469630	2.488914

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.71153**	**5.017770**	**4.979770**	**4.846241**	**4.988907**	**4.795196**	**4.907125**
Stddev	.12082	.024954	.019583	.011343	.028576	.035902	.005255
%RSD	.4889138	.4973128	.3932539	.2340568	.5727826	.7487002	.1070806
#1	24.57407	5.040447	4.961537	4.834106	4.996404	4.757670	4.901652
#2	24.75963	4.991036	4.977304	4.848039	4.957330	4.798704	4.907592
#3	24.80089	5.021827	5.000470	4.856577	5.012987	4.829215	4.912130

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCV08 Acquired: 7/23/2025 19:55:42 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.819457**	**4.873937**	**4.994304**
Stddev	.015224	.005519	.047496
%RSD	.3158759	.1132436	.9510133
#1	4.806586	4.876588	4.992304
#2	4.815525	4.867593	4.947839
#3	4.836261	4.877631	5.042768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5336.908**	**87067.12**	**8174.392**	**4495.249**	**6345.994**
Stddev	18.647	146.96	45.992	35.126	16.824
%RSD	.3494025	.1687915	.5626390	.7814039	.2651142
#1	5348.164	87216.09	8145.290	4527.174	6353.549
#2	5347.176	87063.02	8227.415	4457.620	6357.717
#3	5315.383	86922.25	8150.471	4500.952	6326.717

Sample Name: CCB08 Acquired: 7/23/2025 20:04:04 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011727**	**.0003302**	**.0004065**	**-.001860**	**-.001368**	**.0083450**	**-.000858**
Stddev	.0007600	.0002590	.0006147	.001923	.001820	.0099339	.000974
%RSD	64.81157	78.41358	151.2072	103.3397	133.0331	119.0396	113.4397
#1	.0003135	.0005334	.0004457	-.003829	.000686	.0020867	-.001702
#2	.0017572	.0000387	.0010007	-.001766	-.002009	.0197993	.000207
#3	.0014474	.0004186	-.000227	.000013	-.002780	.0031491	-.001079

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000643**	**.0001618**	**.0572680**	**.0002697**	**.0001590**	**-.000213**	**-.001540**
Stddev	.0000169	.0000481	.0076633	.0001856	.0002036	.000366	.001750
%RSD	26.18685	29.75090	13.38142	68.81732	128.0275	171.7143	113.6359
#1	.0000802	.0001395	.0509710	.0000555	.0001268	-.000242	-.002195
#2	.0000662	.0001289	.0658004	.0003716	-.000027	.000166	-.002869
#3	.0000467	.0002170	.0550325	.0003821	.000377	-.000564	.000443

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000234**	**.0099685**	**.0006602**	**.0004291**	**.3277933**	**-.001796**	**.0016980**
Stddev	.000072	.0096911	.0001921	.0001997	.0082604	.002718	.0002175
%RSD	30.61957	97.21719	29.09195	46.52869	2.520008	151.3118	12.80893
#1	-.000152	.0210042	.0007933	.0002739	.3358889	-.003984	.0015655
#2	-.000287	.0060567	.0004400	.0003591	.3193774	-.002651	.0019490
#3	-.000263	.0028448	.0007472	.0006544	.3281136	.001246	.0015795

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6455374**	**.0119360**	**.0016929**	**.0035628**	**.0002977**	**.0070090**	**.0049561**
Stddev	.0240190	.0007111	.0005192	.0000768	.0015746	.0068585	.0036049
%RSD	3.720778	5.957966	30.66773	2.155229	529.0065	97.85327	72.73686
#1	.6181157	.0125366	.0021065	.0034863	.0009051	.0148917	.0089078
#2	.6556497	.0111507	.0018620	.0036398	-.001490	.0037276	.0041134
#3	.6628468	.0121206	.0011103	.0035623	.001478	.0024076	.0018472

Reviewed By:jaswal
On:7/28/2025 7:26:16 AM
Inst Id :P4
LB :LB136588

Sample Name: CCB08 Acquired: 7/23/2025 20:04:04 Type: Unk
Method: 6010-200.7 NEW(v56) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0042605	.0034689	.0005657
Stddev	.0027509	.0031631	.0000853
%RSD	64.56679	91.18543	15.07687
#1	.0049652	.0065294	.0005605
#2	.0065905	.0002123	.0006535
#3	.0012259	.0036650	.0004832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5586.785	90189.89	8289.638	4728.507	7033.919
Stddev	9.013	251.34	70.465	29.286	7.975
%RSD	.1613192	.2786785	.8500323	.6193517	.1133837
#1	5584.521	90352.62	8351.286	4746.157	7031.807
#2	5596.714	90316.63	8304.802	4744.662	7042.738
#3	5579.120	89900.41	8212.826	4694.701	7027.212

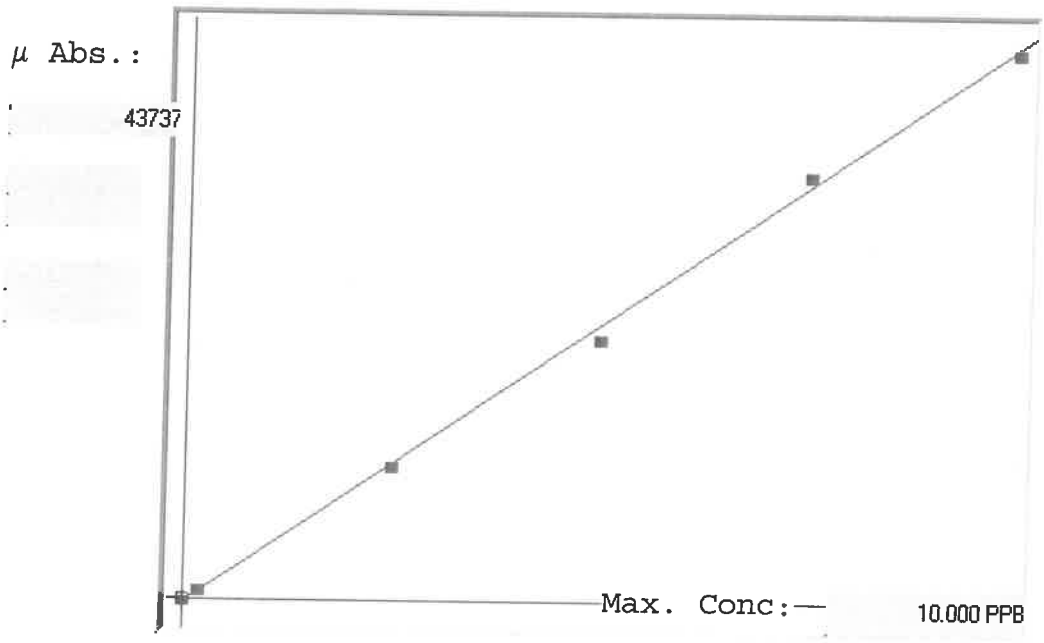
Reviewed By:MOHAN
On:7/28/2025 9:27:46 AM
Inst Id :CV1
LB :LB136613

LB136613

7471B

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.2602e-004

C= 5.8168e-002

Rho= 0.9993848

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Δ(01)
0.0	0.000	0.042	0.042	-70	0.000	-70					—
0.2	0.200	0.238	0.038	795	0.0 %	795					19
2.5	2.500	2.483	-0.017	10729	0.0 %	10729					-1
5.0	5.000	4.780	-0.220	20891	0.0 %	20891					-4
7.5	7.500	7.713	0.213	33868	0.0 %	33868					-3
10.0	10.000	9.944	-0.056	43737	0.0 %	43737					-1

Reviewed By:MOHAN
On:7/28/2025 9:27:46 AM
Inst Id :CV1
LB :LB136613

LB136613 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 25 Jul 2025 10:38:47

Type	Sample ID	Extended ID	Conc.	µ Abs.	Units	Type	Stnd Conc	Method	Date
S	0.0 - 1	50	-	-70	PPB	Std	0.00000	7471B	25 Jul 2025 10:55:35
S	0.2 - 1	102	-	795	PPB	Std	0.20000	7471B	25 Jul 2025 11:00:43
S	2.5 - 1	521	-	10729	PPB	Std	2.50000	7471B	25 Jul 2025 11:03:00
S	5.0 - 1	55	-	20891	PPB	Std	5.00000	7471B	25 Jul 2025 11:05:17
S	7.5 - 1	531	-	33868	PPB	Std	7.50000	7471B	25 Jul 2025 11:07:35
S	10.0 - 1	511	-	43737	PPB	Std	10.00000	7471B	25 Jul 2025 11:09:56
U	ICV39 - 1	ICV39	4.0775	17783	PPB	SMPL		7471B	25 Jul 2025 11:13:01
U	ICB39 - 1	ICB39	-0.0072	-289	PPB	SMPL		7471B	25 Jul 2025 11:15:17
U	CCV47 - 1	CCV47	4.9827	21788	PPB	SMPL		7471B	25 Jul 2025 11:17:35
U	CCB47 - 1	CCB47	-0.0804	-613	PPB	SMPL		7471B	25 Jul 2025 11:19:51
U	CRA - 1	CRA	0.2327	772	PPB	SMPL		7471B	25 Jul 2025 11:46:11
U	HighStd - 1	HighStd	10.0960	44411	PPB	SMPL		7471B	25 Jul 2025 11:48:26
U	ChkStd - 1	ChkStd	7.3713	32356	PPB	SMPL		7471B	25 Jul 2025 11:50:42
U	PB169010BL - 1	PBS	-0.0476	-468	PPB	SMPL		7471B	25 Jul 2025 11:53:10
U	PB169010BS - 1	LCSS	4.1523	18114	PPB	SMPL		7471B	25 Jul 2025 11:58:08
U	Q2580-02 - 1	WC-URBAN-FILL-B2	6.7072	29418	PPB	SMPL		7471B	25 Jul 2025 12:00:26
U	Q2639-01 - 1	OU4-TS-38-071725	1.3368	5657	PPB	SMPL		7471B	25 Jul 2025 12:02:48
U	Q2639-03 - 1	OU4-TS-39-071725	0.1307	321	PPB	SMPL		7471B	25 Jul 2025 12:05:10
U	Q2639-05 - 1	OU4-TS-40-071725	0.4514	1740	PPB	SMPL		7471B	25 Jul 2025 12:07:31
U	Q2639-07 - 1	OU4-TS-41-071725	1.0475	4377	PPB	SMPL		7471B	25 Jul 2025 12:09:50
U	CCV48 - 1	CCV48	4.8570	21232	PPB	SMPL		7471B	25 Jul 2025 12:12:07
U	CCB48 - 1	CCB48	-0.0234	-361	PPB	SMPL		7471B	25 Jul 2025 12:14:26
U	Q2639-09 - 1	OU4-TS-42-071725	0.9977	4157	PPB	SMPL		7471B	25 Jul 2025 12:16:44
U	Q2639-11 - 1	OU4-TS-43-071725	0.7362	3000	PPB	SMPL		7471B	25 Jul 2025 12:19:00
U	Q2639-13 - 1	OU4-TS-44-071725	0.7118	2892	PPB	SMPL		7471B	25 Jul 2025 12:21:18
U	Q2684-01 - 1	PL-02-07232025	0.4085	1550	PPB	SMPL		7471B	25 Jul 2025 12:23:36
U	Q2687-01 - 1	VNJ-251	12.7214	56027	PPB	SMPL		7471B	25 Jul 2025 12:25:55
U	Q2689-01 - 1	OR-03-07232025	0.4471	1721	PPB	SMPL		7471B	25 Jul 2025 12:28:12
U	Q2689-01DUP - 1	OR-03-07232025DUP	0.5606	2223	PPB	SMPL		7471B	25 Jul 2025 12:30:43
U	Q2689-01MS - 1	OR-03-07232025MS	5.1843	22680	PPB	SMPL		7471B	25 Jul 2025 12:33:01
U	Q2689-01MSD - 1	OR-03-07232025MSD	5.4311	23772	PPB	SMPL		7471B	25 Jul 2025 12:35:21
U	Q2691-01 - 1	295	0.2006	630	PPB	SMPL		7471B	25 Jul 2025 12:37:40
U	CCV49 - 1	CCV49	5.1163	22379	PPB	SMPL		7471B	25 Jul 2025 12:39:59
U	CCB49 - 1	CCB49	-0.0040	-275	PPB	SMPL		7471B	25 Jul 2025 12:42:15
U	Q2691-07 - 1	299	0.1594	448	PPB	SMPL		7471B	25 Jul 2025 12:44:34
U	Q2689-01LX5 - 1		0.1450	384	PPB	SMPL		7471B	25 Jul 2025 12:46:50
U	Q2689-01A - 1		4.7239	20643	PPB	SMPL		7471B	25 Jul 2025 12:49:06
U	Q2687-01DLX2 - 1		6.3142	27679	PPB	SMPL		7471B	25 Jul 2025 12:51:23
U	CCV50 - 1	CCV50	4.9967	21850	PPB	SMPL		7471B	25 Jul 2025 12:53:42
U	CCB50 - 1	CCB50	-0.0209	-350	PPB	SMPL		7471B	25 Jul 2025 12:56:10

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168933

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 #5 2. N/A

Start Digest Date: 07/21/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 07/21/2025 **Time :** 12:12 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: SKB

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	MP86404
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#5 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/21/25 13:13	SKB.met.dig	Deleted
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168933

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168933BL	PBS933	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168933BS	LCS933	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6015	2
Q2639-01	OU4-TS-38-071725	N/A	2.35	100	Brown	Yellow	Medium	N/A	N/A	3
Q2639-03	OU4-TS-39-071725	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	4
Q2639-05	OU4-TS-40-071725	N/A	2.31	100	Brown	Yellow	Medium	N/A	N/A	5
Q2639-07	OU4-TS-41-071725	N/A	2.08	100	Brown	Yellow	Medium	N/A	N/A	6
Q2639-09	OU4-TS-42-071725	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	7
Q2639-11	OU4-TS-43-071725	N/A	2.31	100	Brown	Yellow	Medium	N/A	N/A	8
Q2639-13	OU4-TS-44-071725	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	9
Q2651-01	MH 2-1	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	10
Q2651-01MS	MH 2-1MS	N/A	2.18	100	Brown	Yellow	Medium	N/A	M6007,M6015	12
Q2651-01MSD	MH 2-1MSD	N/A	2.22	100	Brown	Yellow	Medium	N/A	M6007,M6015	13
Q2651-01DUP	MH 2-1DUP	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	11
Q2651-02	MH 6-5	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	14
Q2651-03	MH 7-6	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	15
Q2651-04	MH 8-7	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	16
Q2651-05	MH 9-8	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	17

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB168933 **WorkList ID :** 190847 **Department :** Digestion **Date :** 07-21-2025 09:31:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2639-01	OU4-TS-38-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-03	OU4-TS-39-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-05	OU4-TS-40-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-07	OU4-TS-41-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-09	OU4-TS-42-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-11	OU4-TS-43-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2639-13	OU4-TS-44-071725	Solid	Metals ICP-TAL	Cool 4 deg C	NOBI03	O13	07/17/2025	6010D
Q2651-01	MH 2-1	Solid	Metals ICP-TAL	Cool 4 deg C	EARTH03	O22	07/17/2025	6010D
Q2651-02	MH 6-5	Solid	Metals ICP-TAL	Cool 4 deg C	EARTH03	O22	07/17/2025	6010D
Q2651-03	MH 7-6	Solid	Metals ICP-TAL	Cool 4 deg C	EARTH03	O22	07/17/2025	6010D
Q2651-04	MH 8-7	Solid	Metals ICP-TAL	Cool 4 deg C	EARTH03	O22	07/17/2025	6010D
Q2651-05	MH 9-8	Solid	Metals ICP-TAL	Cool 4 deg C	EARTH03	O22	07/17/2025	6010D

Date/Time 07/21/25 9:50
Raw Sample Received by: SLS mc dlo
Raw Sample Relinquished by: CRC

Date/Time 07/21/25 10:50
Raw Sample Received by: CRC
Raw Sample Relinquished by: SLS. mc dlo

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB169010

SOP ID : M7471B-Mercury-19

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: 07/24/2025 **Time :** 15:10 **Temp :** 95 °C

End Digest Date: 07/24/2025 **Time :** 15:40 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP86484
CCV	30mL	MP86485
CRA	30mL	MP86488
Blank Spike	0.48mL	MP86476
Matrix Spike	0.48mL	MP86476

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP86490
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	MP86477
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP86478
2.5 ppb	S2.5	30mL	MP86479
5.0 ppb	S5.0	30mL	MP86480
7.5 ppb	S7.5	30mL	MP86481
10.0 ppb	S10.0	30mL	MP86482
ICV	ICV	30mL	MP86484
ICB	ICB	30mL	MP86483
CCV	CCV	30mL	MP86485
CCB	CCB	30mL	MP86487
CRI	CRI	30mL	MP86488
CHK STD	CHK STD	30mL	MP86489

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/24/25 @ 16:20	[signature]	[signature]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB169010

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB169010BL	PBS010	0.57	35	NA	N/A	3-1
PB169010BS	LCS010	0.55	35	NA	MP86476	2
Q2580-02	WC-URBAN-FILL-B2	0.55	35	NA	N/A	3
Q2639-01	OU4-TS-38-071725	0.56	35	NA	N/A	4
Q2639-03	OU4-TS-39-071725	0.53	35	NA	N/A	5
Q2639-05	OU4-TS-40-071725	0.53	35	NA	N/A	6
Q2639-07	OU4-TS-41-071725	0.52	35	NA	N/A	7
Q2639-09	OU4-TS-42-071725	0.58	35	NA	N/A	8
Q2639-11	OU4-TS-43-071725	0.56	35	NA	N/A	9
Q2639-13	OU4-TS-44-071725	0.53	35	NA	N/A	10
Q2684-01	PL-02-07232025	0.54	35	NA	N/A	11
Q2687-01	VNJ-251	0.50	35	NA	N/A	12
Q2689-01	OR-03-07232025	0.52	35	NA	N/A	13
Q2689-01DUP	OR-03-07232025DUP	0.55	35	NA	N/A	14
Q2689-01MS	OR-03-07232025MS	0.59	35	NA	MP86476	15
Q2689-01MSD	OR-03-07232025MSD	0.55	35	NA	MP86476	16
Q2691-01	295	0.56	35	NA	N/A	17
Q2691-07	299	0.51	35	NA	N/A	18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 072425_7471 **WorkList ID :** 190935 **Department :** Digestion **Date :** 07-24-2025 12:42:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2580-02	WC-URBAN-FILL-B2	Solid	Mercury	Cool 4 deg C	ENTA05	D41	07/10/2025	7471B
Q2639-01	OU4-TS-38-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-03	OU4-TS-39-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-05	OU4-TS-40-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-07	OU4-TS-41-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-09	OU4-TS-42-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-11	OU4-TS-43-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2639-13	OU4-TS-44-071725	Solid	Mercury	Cool 4 deg C	NOBI03	O13	07/17/2025	7471B
Q2684-01	PL-02-07232025	Solid	Mercury	Cool 4 deg C	PSEG05	D21	07/23/2025	7471B
Q2687-01	VNJ-251	Solid	Mercury	Cool 4 deg C	PSEG03	D21	07/23/2025	7471B
Q2689-01	OR-03-07232025	Solid	Mercury	Cool 4 deg C	PSEG05	D31	07/23/2025	7471B
Q2691-01	295	Solid	Mercury	Cool 4 deg C	PSEG03	D21	07/24/2025	7471B
Q2691-07	299	Solid	Mercury	Cool 4 deg C	PSEG03	D21	07/24/2025	7471B

Date/Time 7/24/25 @ 14:46

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 7/24/25 @ 15:50

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136542

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
Q2637-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2637-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2637-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2637-10	SVOC-GPC2-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2637-11	PEST-GPC2-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q2637-12	PEST-GPC2-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q2638-01	OU4-TS-31-071725	7	1.15	10.44	11.59	8.29	68.4	
Q2638-03	OU4-TS-32-071725	8	1.14	10.41	11.55	7.92	65.1	
Q2638-05	OU4-TS-33-071725	9	1.12	10.69	11.81	8.04	64.7	
Q2638-07	OU4-TS-34-071725	10	1.18	10.81	11.99	8.58	68.5	
Q2638-09	OU4-TS-35-071725	11	1.18	10.24	11.42	9.62	82.4	
Q2638-11	OU4-TS-36-071725	12	1.16	10.22	11.38	9.53	81.9	
Q2638-13	OU4-TS-37-071725	13	1.14	10.27	11.41	9.48	81.2	
Q2639-01	OU4-TS-38-071725	14	1.16	10.58	11.74	9.69	80.6	
Q2639-03	OU4-TS-39-071725	15	1.12	10.64	11.76	9.74	81.0	
Q2639-05	OU4-TS-40-071725	16	1.16	10.23	11.39	9.42	80.7	
Q2639-07	OU4-TS-41-071725	17	1.18	10.20	11.38	9.54	82.0	
Q2639-09	OU4-TS-42-071725	18	1.19	10.34	11.53	7.42	60.3	
Q2639-11	OU4-TS-43-071725	19	1.19	10.67	11.86	7.38	58.0	
Q2639-13	OU4-TS-44-071725	20	1.12	10.87	11.99	8.18	64.9	
Q2641-01	P001-CONCRETE001-01	21	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2645-02	RW5B-CARBON-20250716	22	1.17	10.52	11.69	8.39	68.6	
Q2648-01	A3	23	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-02	A4	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-03	B2	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-04	B3	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-05	B4	27	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2651-01	MH 2-1	28	1.18	10.67	11.85	11.26	94.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136542

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
Q2651-02	MH 6-5	29	1.15	10.40	11.55	10.9	93.8	
Q2651-03	MH 7-6	30	1.12	10.20	11.32	10.7	93.9	
Q2651-04	MH 8-7	31	1.13	10.44	11.57	11.01	94.6	
Q2651-05	MH 9-8	32	1.13	10.27	11.4	10.67	92.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WM 136542

WorkList Name : %1-071825 **WorkList ID :** 190813 **Department :** Wet-Chemistry **Date :** 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2637-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-01	OU4-TS-31-071725	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-03	OU4-TS-32-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-05	OU4-TS-33-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-07	OU4-TS-34-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-09	OU4-TS-35-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-11	OU4-TS-36-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-13	OU4-TS-37-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-01	OU4-TS-38-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-03	OU4-TS-39-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-05	OU4-TS-40-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-07	OU4-TS-41-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-09	OU4-TS-42-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-11	OU4-TS-43-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-13	OU4-TS-44-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2641-01	P001-CONCRETE001-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	O22	07/16/2025	Chemtech -SO

Date/Time 07/18/25 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 07/18/25 17:35

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 136542

WorkList Name : %1-071825 **WorkList ID :** 190813 **Department :** Wet-Chemistry **Date :** 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2645-02	RW5B-CARBON-20250716	Solid	Percent Solids	Cool 4 deg C	TETR06	O41	07/16/2025	Chemtech -SO
Q2648-01	A3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-02	A4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-03	B2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-04	B3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-05	B4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2651-01	MH 2-1	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-02	MH 6-5	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-03	MH 7-6	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-04	MH 8-7	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-05	MH 9-8	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO

Date/Time 07/18/25 15:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 07/18/25 17:35

Raw Sample Received by:

Raw Sample Relinquished by:

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 # LB136571

Review By	Janvi	Review On	7/23/2025 3:54:08 PM
Supervise By	jaswal	Supervise On	7/23/2025 3:53:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/22/25 11:11		Jaswal	OK
2	S1	S1	CAL2	07/22/25 11:16		Jaswal	OK
3	S2	S2	CAL3	07/22/25 11:20		Jaswal	OK
4	S3	S3	CAL4	07/22/25 11:24		Jaswal	OK
5	S4	S4	CAL5	07/22/25 11:28		Jaswal	OK
6	S5	S5	CAL6	07/22/25 11:33		Jaswal	OK
7	ICV01	ICV01	ICV	07/22/25 12:03		Jaswal	OK
8	LLICV01	LLICV01	LLICV	07/22/25 12:10		Jaswal	OK
9	ICB01	ICB01	ICB	07/22/25 12:27		Jaswal	OK
10	CRI01	CRI01	CRDL	07/22/25 12:32		Jaswal	OK
11	ICSA01	ICSA01	ICSA	07/22/25 12:37		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	07/22/25 12:48		Jaswal	OK
13	ICSADL	ICSADL	ICSA	07/22/25 12:52		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	07/22/25 12:56		Jaswal	OK
15	CCV01	CCV01	CCV	07/22/25 13:00		Jaswal	OK
16	CCB01	CCB01	CCB	07/22/25 13:05		Jaswal	OK
17	Q2640-01	ELMORA-WATER	SAM	07/22/25 13:11		Jaswal	OK
18	Q2641-02	P001-CONCRETE001	SAM	07/22/25 13:15		Jaswal	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 # LB136571

Review By	Janvi	Review On	7/23/2025 3:54:08 PM
Supervise By	jaswal	Supervise On	7/23/2025 3:53:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

19	Q2645-03	RW5B-CARBON-2025	SAM	07/22/25 13:20		Jaswal	OK
20	Q2649-04	WC-1	SAM	07/22/25 13:24		Jaswal	OK
21	Q2649-08	WC-2	SAM	07/22/25 13:29		Jaswal	OK
22	Q2649-12	WC-3	SAM	07/22/25 13:33		Jaswal	OK
23	Q2649-16	WC-4	SAM	07/22/25 13:38		Jaswal	OK
24	Q2649-20	WC-5	SAM	07/22/25 13:42	NOT USE	Jaswal	Not Ok
25	Q2646-03	FRAC TANK	SAM	07/22/25 13:46		Jaswal	OK
26	Q2649-24	WC-6	SAM	07/22/25 13:51		Jaswal	OK
27	CCV02	CCV02	CCV	07/22/25 14:05		Jaswal	OK
28	CCB02	CCB02	CCB	07/22/25 14:09		Jaswal	OK
29	Q2649-24DUP	WC-6DUP	DUP	07/22/25 14:25		Jaswal	OK
30	Q2649-24L	WC-6L	SD	07/22/25 14:30		Jaswal	OK
31	Q2649-24MS	WC-6MS	MS	07/22/25 14:34		Jaswal	OK
32	Q2649-24MSD	WC-6MSD	MSD	07/22/25 14:38		Jaswal	OK
33	Q2649-24A	WC-6A	PS	07/22/25 14:42	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
34	PB168919TB	PB168919TB	MB	07/22/25 14:47		Jaswal	OK
35	PB168941BL	PB168941BL	MB	07/22/25 14:56		Jaswal	OK
36	PB168941BS	PB168941BS	LCS	07/22/25 15:01		Jaswal	OK
37	PB168932BL	PB168932BL	MB	07/22/25 15:05		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136571

Review By	Janvi	Review On	7/23/2025 3:54:08 PM
Supervise By	jaswal	Supervise On	7/23/2025 3:53:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

38	PB168932BS	PB168932BS	LCS	07/22/25 15:15		Jaswal	OK
39	CCV03	CCV03	CCV	07/22/25 15:20		Jaswal	OK
40	CCB03	CCB03	CCB	07/22/25 15:26		Jaswal	OK
41	Q2633-02	FIBER-GLASS-TANK	SAM	07/22/25 15:31		Jaswal	OK
42	Q2644-01	RW8-SP100-2025071	SAM	07/22/25 15:36		Jaswal	OK
43	Q2644-02	RW8-SP303-2025071	SAM	07/22/25 15:40		Jaswal	OK
44	Q2644-02DUP	RW8-SP303-2025071	DUP	07/22/25 15:44		Jaswal	OK
45	Q2644-02L	RW8-SP303-2025071	SD	07/22/25 15:48		Jaswal	OK
46	Q2644-02MS	RW8-SP303-2025071	MS	07/22/25 15:53		Jaswal	OK
47	Q2644-02MSD	RW8-SP303-2025071	MSD	07/22/25 15:57		Jaswal	OK
48	Q2644-02A	RW8-SP303-2025071	PS	07/22/25 16:01	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
49	Q2646-01	FRAC TANK	SAM	07/22/25 16:05		Jaswal	OK
50	PB168926TB	PB168926TB	MB	07/22/25 16:09		Jaswal	OK
51	CCV04	CCV04	CCV	07/22/25 16:13		Jaswal	OK
52	CCB04	CCB04	CCB	07/22/25 16:17		Jaswal	OK
53	PB168933BL	PB168933BL	MB	07/22/25 16:22		Jaswal	OK
54	Q2649-01	WC-1	SAM	07/22/25 16:36		Jaswal	OK
55	Q2649-05	WC-2	SAM	07/22/25 16:40		Jaswal	OK
56	Q2649-09	WC-3	SAM	07/22/25 16:45		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136571

Review By	Janvi	Review On	7/23/2025 3:54:08 PM
Supervise By	jaswal	Supervise On	7/23/2025 3:53:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

57	PB168933BS	PB168933BS	LCS	07/22/25 16:49		Jaswal	OK
58	Q2649-13	WC-4	SAM	07/22/25 16:53		Jaswal	OK
59	Q2649-17	WC-5	SAM	07/22/25 16:57	NOT USE	Jaswal	Not Ok
60	Q2649-17DUP	WC-5DUP	DUP	07/22/25 17:01	NOT USE	Jaswal	Not Ok
61	Q2649-17L	WC-5L	SD	07/22/25 17:06	NOT USE	Jaswal	Not Ok
62	Q2649-17MS	WC-5MS	MS	07/22/25 17:10	NOT USE	Jaswal	Not Ok
63	CCV05	CCV05	CCV	07/22/25 17:14		Jaswal	OK
64	CCB05	CCB05	CCB	07/22/25 17:18		Jaswal	OK
65	Q2649-17MSD	WC-5MSD	MSD	07/22/25 17:22	NOT USE	Jaswal	Not Ok
66	Q2649-17A	WC-5A	PS	07/22/25 17:26	NOT USE	Jaswal	Not Ok
67	Q2649-21	WC-6	SAM	07/22/25 17:30	Ag oversaturated	Jaswal	Dilution
68	Q2658-01	PAD-072125-1	SAM	07/22/25 17:35		Jaswal	OK
69	Q2658-02	PAD-072125-2	SAM	07/22/25 17:39		Jaswal	OK
70	PB168951BL	PB168951BL	MB	07/22/25 17:43		Jaswal	OK
71	PB168951BS	PB168951BS	LCS	07/22/25 17:48		Jaswal	OK
72	Q2639-01	OU4-TS-38-071725	SAM	07/22/25 17:52		Jaswal	OK
73	Q2639-03	OU4-TS-39-071725	SAM	07/22/25 17:56		Jaswal	OK
74	Q2639-05	OU4-TS-40-071725	SAM	07/22/25 18:00		Jaswal	OK
75	CCV06	CCV06	CCV	07/22/25 18:05		Jaswal	OK
76	CCB06	CCB06	CCB	07/22/25 18:09		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136571

Review By	Janvi	Review On	7/23/2025 3:54:08 PM
Supervise By	jaswal	Supervise On	7/23/2025 3:53:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

77	Q2639-07	OU4-TS-41-071725	SAM	07/22/25 18:13		Jaswal	OK
78	Q2639-09	OU4-TS-42-071725	SAM	07/22/25 18:17	NOT USE	Jaswal	Not Ok
79	Q2639-11	OU4-TS-43-071725	SAM	07/22/25 18:22		Jaswal	OK
80	Q2639-13	OU4-TS-44-071725	SAM	07/22/25 18:26		Jaswal	OK
81	Q2651-01	MH 2-1	SAM	07/22/25 18:30		Jaswal	OK
82	Q2651-01DUP	MH 2-1DUP	DUP	07/22/25 18:34		Jaswal	OK
83	Q2651-01L	MH 2-1L	SD	07/22/25 18:38		Jaswal	OK
84	Q2651-01MS	MH 2-1MS	MS	07/22/25 18:42		Jaswal	OK
85	Q2651-01MSD	MH 2-1MSD	MSD	07/22/25 18:46		Jaswal	OK
86	Q2651-01A	MH 2-1A	PS	07/22/25 18:50	0.1ml of M0.1ml of M6004,M6013 in 10ml sample.	Jaswal	OK
87	CCV07	CCV07	CCV	07/22/25 18:54		Jaswal	OK
88	CCB07	CCB07	CCB	07/22/25 18:58		Jaswal	OK
89	Q2651-02	MH 6-5	SAM	07/22/25 19:03		Jaswal	OK
90	Q2651-03	MH 7-6	SAM	07/22/25 19:07		Jaswal	OK
91	Q2651-04	MH 8-7	SAM	07/22/25 19:11		Jaswal	OK
92	Q2651-05	MH 9-8	SAM	07/22/25 19:15		Jaswal	OK
93	CCV08	CCV08	CCV	07/22/25 19:19		Jaswal	OK
94	CCB08	CCB08	CCB	07/22/25 19:23		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136588

Review By	Janvi	Review On	7/24/2025 9:47:08 AM
Supervise By	jaswal	Supervise On	7/28/2025 7:26:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/23/25 11:28		Jaswal	OK
2	S1	S1	CAL2	07/23/25 11:32		Jaswal	OK
3	S2	S2	CAL3	07/23/25 11:37		Jaswal	OK
4	S3	S3	CAL4	07/23/25 11:41		Jaswal	OK
5	S4	S4	CAL5	07/23/25 11:45		Jaswal	OK
6	S5	S5	CAL6	07/23/25 11:49		Jaswal	OK
7	ICV01	ICV01	ICV	07/23/25 12:57		Jaswal	OK
8	LLICV01	LLICV01	LLICV	07/23/25 13:02		Jaswal	OK
9	ICB01	ICB01	ICB	07/23/25 13:16		Jaswal	OK
10	ICSA01	ICSA01	ICSA	07/23/25 13:25		Jaswal	OK
11	ICSAB01	ICSAB01	ICSAB	07/23/25 13:29		Jaswal	OK
12	ICSADL	ICSADL	ICSA	07/23/25 13:33		Jaswal	OK
13	ICSABDL	ICSABDL	ICSAB	07/23/25 13:37		Jaswal	OK
14	CCV01	CCV01	CCV	07/23/25 13:42		Jaswal	OK
15	CCB01	CCB01	CCB	07/23/25 13:46		Jaswal	OK
16	PB168955BL	PB168955BL	MB	07/23/25 13:54		Jaswal	OK
17	PB168955BS	PB168955BS	LCS	07/23/25 13:58		Jaswal	OK
18	Q2669-01	001 WILLETS PT BLV	SAM	07/23/25 14:02		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136588

Review By	Janvi	Review On	7/24/2025 9:47:08 AM
Supervise By	jaswal	Supervise On	7/28/2025 7:26:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

19	Q2669-02	002 35th Ave (JUNE)	SAM	07/23/25 14:06		Jaswal	OK
20	Q2653-01	WASTEWATER Q3	SAM	07/23/25 14:11		Jaswal	OK
21	Q2653-01DUP	WASTEWATER Q3DU	DUP	07/23/25 14:15		Jaswal	OK
22	Q2653-01L	WASTEWATER Q3L	SD	07/23/25 14:19		Jaswal	OK
23	Q2653-01MS	WASTEWATER Q3MS	MS	07/23/25 14:23		Jaswal	OK
24	Q2653-01MSD	WASTEWATER Q3MS	MSD	07/23/25 14:27		Jaswal	OK
25	Q2653-01A	WASTEWATER Q3A	PS	07/23/25 14:31	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
26	CCV02	CCV02	CCV	07/23/25 14:35		Jaswal	OK
27	CCB02	CCB02	CCB	07/23/25 14:44		Jaswal	OK
28	CRI01	CRI01	CRDL	07/23/25 14:53		Jaswal	OK
29	Q2639-09	OU4-TS-42-071725	SAM	07/23/25 15:01		Jaswal	OK
30	Q2649-21DL	WC-6DL	SAM	07/23/25 15:06	5X for Ag	Jaswal	Confirms
31	Q2649-17	WC-5	SAM	07/23/25 15:10		Jaswal	OK
32	Q2649-17DUP	WC-5DUP	DUP	07/23/25 15:14		Jaswal	OK
33	Q2649-17L	WC-5L	SD	07/23/25 15:18		Jaswal	OK
34	Q2649-17MS	WC-5MS	MS	07/23/25 15:22		Jaswal	OK
35	Q2649-17MSD	WC-5MSD	MSD	07/23/25 15:26		Jaswal	OK
36	Q2649-17A	WC-5A	PS	07/23/25 15:30	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
37	PB168974BL	PB168974BL	MB	07/23/25 15:34		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136588

Review By	Janvi	Review On	7/24/2025 9:47:08 AM
Supervise By	jaswal	Supervise On	7/28/2025 7:26:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

38	CCV03	CCV03	CCV	07/23/25 15:57		Jaswal	OK
39	CCB03	CCB03	CCB	07/23/25 16:01		Jaswal	OK
40	Q2660-05DL	MOO-25-0220DL	SAM	07/23/25 16:10	NOT USE	Jaswal	Not Ok
41	Q2660-05DUPDL	MOO-25-0220DUPDL	DUP	07/23/25 16:14	NOT USE	Jaswal	Not Ok
42	Q2660-05LDL	MOO-25-0220LDL	SD	07/23/25 16:19	NOT USE	Jaswal	Not Ok
43	Q2660-05MSDL	MOO-25-0220MSDL	MS	07/23/25 16:23	NOT USE	Jaswal	Not Ok
44	Q2660-05MSDDL	MOO-25-0220MSDDL	MSD	07/23/25 16:27	NOT USE	Jaswal	Not Ok
45	Q2660-05ADL	MOO-25-0220ADL	PS	07/23/25 16:32	NOT USE	Jaswal	Not Ok
46	PB168974BS	PB168974BS	LCS	07/23/25 16:36		Jaswal	OK
47	FE 500PPM	FE 500PPM	SAM	07/23/25 16:40		Jaswal	OK
48	Q2660-02	MOO-25-0205	SAM	07/23/25 16:45		Jaswal	OK
49	Q2660-04	MOO-25-0218	SAM	07/23/25 16:49		Jaswal	OK
50	CCV04	CCV04	CCV	07/23/25 17:00		Jaswal	OK
51	CCB04	CCB04	CCB	07/23/25 17:04		Jaswal	OK
52	Q2666-01	SBT-GARDEN-SOIL	SAM	07/23/25 17:16		Jaswal	OK
53	Q2668-01	TP-2	SAM	07/23/25 17:21		Jaswal	OK
54	Q2668-05	TP-3	SAM	07/23/25 17:25		Jaswal	OK
55	Q2668-09	TP-1	SAM	07/23/25 17:29		Jaswal	OK
56	Q2674-01	TR-04-072225	SAM	07/23/25 17:33		Jaswal	OK
57	Q2674-01DUP	TR-04-072225DUP	DUP	07/23/25 17:37		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136588

Review By	Janvi	Review On	7/24/2025 9:47:08 AM
Supervise By	jaswal	Supervise On	7/28/2025 7:26:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

58	Q2674-01L	TR-04-072225L	SD	07/23/25 17:41		Jaswal	OK
59	Q2674-01MS	TR-04-072225MS	MS	07/23/25 17:45		Jaswal	OK
60	CCV05	CCV05	CCV	07/23/25 17:49		Jaswal	OK
61	CCB05	CCB05	CCB	07/23/25 17:57		Jaswal	OK
62	Q2674-01MSD	TR-04-072225MSD	MSD	07/23/25 18:02		Jaswal	OK
63	Q2674-01A	TR-04-072225A	PS	07/23/25 18:06	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
64	Q2675-01	SU-03-07222025	SAM	07/23/25 18:10		Jaswal	OK
65	Q2676-01	HD-01-07222025	SAM	07/23/25 18:14		Jaswal	OK
66	Q2676-03	HD-02-07222025	SAM	07/23/25 18:18		Jaswal	OK
67	Q2677-01	OK-02-07222025	SAM	07/23/25 18:22		Jaswal	OK
68	Q2677-03	OK-03-07222025	SAM	07/23/25 18:26		Jaswal	OK
69	PB168953TB	PB168953TB	MB	07/23/25 18:30		Jaswal	OK
70	PB168976BL	PB168976BL	MB	07/23/25 18:34		Jaswal	OK
71	PB168976BS	PB168976BS	LCS	07/23/25 18:39		Jaswal	OK
72	CCV06	CCV06	CCV	07/23/25 18:43		Jaswal	OK
73	CCB06	CCB06	CCB	07/23/25 18:51		Jaswal	OK
74	Q2655-02	SOIL	SAM	07/23/25 18:55		Jaswal	OK
75	Q2668-04	TP-2	SAM	07/23/25 19:00		Jaswal	OK
76	Q2668-08	TP-3	SAM	07/23/25 19:04		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136588

Review By	Janvi	Review On	7/24/2025 9:47:08 AM
Supervise By	jaswal	Supervise On	7/28/2025 7:26:16 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86494
CCV Standard	MP86462
ICSA Standard	MP86460,MP86495
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

77	Q2668-12	TP-1	SAM	07/23/25 19:09		Jaswal	OK
78	Q2672-02	AUD-25-0123-0127	SAM	07/23/25 19:13		Jaswal	OK
79	Q2672-04	AUD-25-0128-0132	SAM	07/23/25 19:17		Jaswal	OK
80	Q2672-04DUP	AUD-25-0128-0132DU	DUP	07/23/25 19:22		Jaswal	OK
81	Q2672-04L	AUD-25-0128-0132L	SD	07/23/25 19:26		Jaswal	OK
82	Q2672-04MS	AUD-25-0128-0132MS	MS	07/23/25 19:30		Jaswal	OK
83	Q2672-04MSD	AUD-25-0128-0132MS	MSD	07/23/25 19:34		Jaswal	OK
84	CCV07	CCV07	CCV	07/23/25 19:38		Jaswal	OK
85	CCB07	CCB07	CCB	07/23/25 19:47		Jaswal	OK
86	Q2672-04A	AUD-25-0128-0132A	PS	07/23/25 19:51	0.1ml of M6004,M6013 in 10ml sample	Jaswal	OK
87	CCV08	CCV08	CCV	07/23/25 19:55		Jaswal	OK
88	CCB08	CCB08	CCB	07/23/25 20:04		Jaswal	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136613

Review By	jaswal	Review On	7/28/2025 7:14:52 AM
Supervise By	mohan	Supervise On	7/28/2025 8:15:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP86477,MP86478,MP86479,MP86480,MP86481,MP86482
ICV Standard	MP86484
CCV Standard	MP86485
ICSA Standard	
CRI Standard	MP86488
LCS Standard	
Chk Standard	MP86483,MP86487,MP86489,MP86501

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/25/25 10:55		MOHAN	OK
2	S0.2	S0.2	CAL2	07/25/25 11:00		MOHAN	OK
3	S2.5	S2.5	CAL3	07/25/25 11:03		MOHAN	OK
4	S5	S5	CAL4	07/25/25 11:05		MOHAN	OK
5	S7.5	S7.5	CAL5	07/25/25 11:07		MOHAN	OK
6	S10	S10	CAL6	07/25/25 11:09		MOHAN	OK
7	ICV39	ICV39	ICV	07/25/25 11:13		MOHAN	OK
8	ICB39	ICB39	ICB	07/25/25 11:15		MOHAN	OK
9	CCV47	CCV47	CCV	07/25/25 11:17		MOHAN	OK
10	CCB47	CCB47	CCB	07/25/25 11:19		MOHAN	OK
11	CRA	CRA	CRDL	07/25/25 11:46		MOHAN	OK
12	HighStd	HighStd	HIGH STD	07/25/25 11:48		MOHAN	OK
13	ChkStd	ChkStd	SAM	07/25/25 11:50		MOHAN	OK
14	PB169010BL	PB169010BL	MB	07/25/25 11:53		MOHAN	OK
15	PB169010BS	PB169010BS	LCS	07/25/25 11:58		MOHAN	OK
16	Q2580-02	WC-URBAN-FILL-B2	SAM	07/25/25 12:00		MOHAN	OK
17	Q2639-01	OU4-TS-38-071725	SAM	07/25/25 12:02		MOHAN	OK
18	Q2639-03	OU4-TS-39-071725	SAM	07/25/25 12:05		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136613

Review By	jaswal	Review On	7/28/2025 7:14:52 AM
Supervise By	mohan	Supervise On	7/28/2025 8:15:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP86477,MP86478,MP86479,MP86480,MP86481,MP86482
ICV Standard	MP86484
CCV Standard	MP86485
ICSA Standard	
CRI Standard	MP86488
LCS Standard	
Chk Standard	MP86483,MP86487,MP86489,MP86501

19	Q2639-05	OU4-TS-40-071725	SAM	07/25/25 12:07		MOHAN	OK
20	Q2639-07	OU4-TS-41-071725	SAM	07/25/25 12:09		MOHAN	OK
21	CCV48	CCV48	CCV	07/25/25 12:12		MOHAN	OK
22	CCB48	CCB48	CCB	07/25/25 12:14		MOHAN	OK
23	Q2639-09	OU4-TS-42-071725	SAM	07/25/25 12:16		MOHAN	OK
24	Q2639-11	OU4-TS-43-071725	SAM	07/25/25 12:19		MOHAN	OK
25	Q2639-13	OU4-TS-44-071725	SAM	07/25/25 12:21		MOHAN	OK
26	Q2684-01	PL-02-07232025	SAM	07/25/25 12:23		MOHAN	OK
27	Q2687-01	VNJ-251	SAM	07/25/25 12:25	Hg High	MOHAN	Dilution
28	Q2689-01	OR-03-07232025	SAM	07/25/25 12:28		MOHAN	OK
29	Q2689-01DUP	OR-03-07232025DUP	DUP	07/25/25 12:30		MOHAN	OK
30	Q2689-01MS	OR-03-07232025MS	MS	07/25/25 12:33		MOHAN	OK
31	Q2689-01MSD	OR-03-07232025MSD	MSD	07/25/25 12:35		MOHAN	OK
32	Q2691-01	295	SAM	07/25/25 12:37		MOHAN	OK
33	CCV49	CCV49	CCV	07/25/25 12:39		MOHAN	OK
34	CCB49	CCB49	CCB	07/25/25 12:42		MOHAN	OK
35	Q2691-07	299	SAM	07/25/25 12:44		MOHAN	OK
36	Q2689-01L	OR-03-07232025L	SD	07/25/25 12:46		MOHAN	OK
37	Q2689-01A	OR-03-07232025A	PS	07/25/25 12:49		MOHAN	OK
38	Q2687-01DL	VNJ-251DL	SAM	07/25/25 12:51	2X for Hg	MOHAN	Confirms

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136613

Review By	jaswal	Review On	7/28/2025 7:14:52 AM
Supervise By	mohan	Supervise On	7/28/2025 8:15:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP86477,MP86478,MP86479,MP86480,MP86481,MP86482
ICV Standard	MP86484
CCV Standard	MP86485
ICSA Standard	
CRI Standard	MP86488
LCS Standard	
Chk Standard	MP86483,MP86487,MP86489,MP86501

39	CCV50	CCV50	CCV	07/25/25 12:53		MOHAN	OK
40	CCB50	CCB50	CCB	07/25/25 12:56		MOHAN	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2639

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB168933,PB169010,

Sequence ID/Qc Batch ID: LB136571,LB136588,LB136613,

Standard ID :
MP85893,MP85895,MP86404,MP86452,MP86453,MP86454,MP86455,MP86456,MP86457,MP86458,MP86460,MP86462,MP86463,MP86464,MP86476,MP86477,MP86478,MP86479,MP86480,MP86481,MP86482,MP86483,MP86484,MP86485,MP86487,MP86488,MP86489,MP86490,MP86494,MP86495,MP86501,

Chemical ID :
M4371,M4916,M5062,M5467,M5470,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,M6077,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
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

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

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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	MP86404	07/17/2025	11/27/2025	Sagar Kanani	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/17/2025

FROM 1250.00000ml of M6162 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP86452	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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)	MP86453	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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 M6077 + 5.00000ml of M6146 + 455.00000ml of MP86452 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP86454	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 50.00000ml of MP86452 + 50.00000ml of MP86453 = 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	MP86455	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 25.00000ml of MP86453 + 75.00000ml of MP86452 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP86456	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 16.00000ml of MP86453 + 184.00000ml of MP86452 = 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	MP86457	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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 M5470 + 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 MP86452 = 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	MP86458	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 2.00000ml of MP86457 + 98.00000ml of MP86452 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP86460	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP86452 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP86462	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 50.00000ml of MP86452 + 50.00000ml of MP86453 = 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	MP86463	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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	MP86464	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP86476	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

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	MP86477	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

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	MP86478	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86476 = 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	MP86479	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 245.00000ml of W3112 + 2.50000ml of MP86476 = 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	MP86480	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 242.50000ml of W3112 + 5.00000ml of MP86476 = 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	MP86481	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 240.00000ml of W3112 + 7.50000ml of MP86476 = 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	MP86482	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 237.50000ml of W3112 + 10.00000ml of MP86476 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP86483	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

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
1346	Hg ICV SOLUTION	MP86484	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6161 + 2.50000ml of M6162 + 245.00000ml 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)	MP86485	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6162 + 10.00000ml of MP86476 = 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)	MP86487	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

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)	MP86488	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86476 = 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)	MP86489	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

FROM 2.50000ml of M6162 + 240.50000ml of W3112 + 7.00000ml of MP86476 = 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	MP86490	07/23/2025	07/24/2025	Mohan Bera	None	None	Sarabjit Jaswal 07/24/2025

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
4163	NEW ICV-060925	MP86494	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/24/2025

FROM 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 98.60000ml of MP86452 = 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	MP86495	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/24/2025

FROM 0.10000ml of M6076 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.90000ml of MP86452 = 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
68	STANNOUS CHLORIDE SOLUTION	MP86501	07/25/2025	07/26/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/28/2025

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.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	04/17/2025 / Janvi	03/17/2023 / bin	M5499

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	03/20/2026	03/20/2025 / jaswal	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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	05/07/2024 / JANVI	02/22/2024 / kareem	M5996

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	12/21/2027	02/03/2025 / JANVI	02/22/2024 / kareem	M5997

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	05/27/2026	05/27/2025 / Janvi	05/14/2024 / Jaswal	M6007

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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-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

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

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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 #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

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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 / jaswal	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

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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	08/24/2025	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

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

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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-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 / jaswal	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

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.

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Certified Reference Material CRM

M6032

R 8/5/24

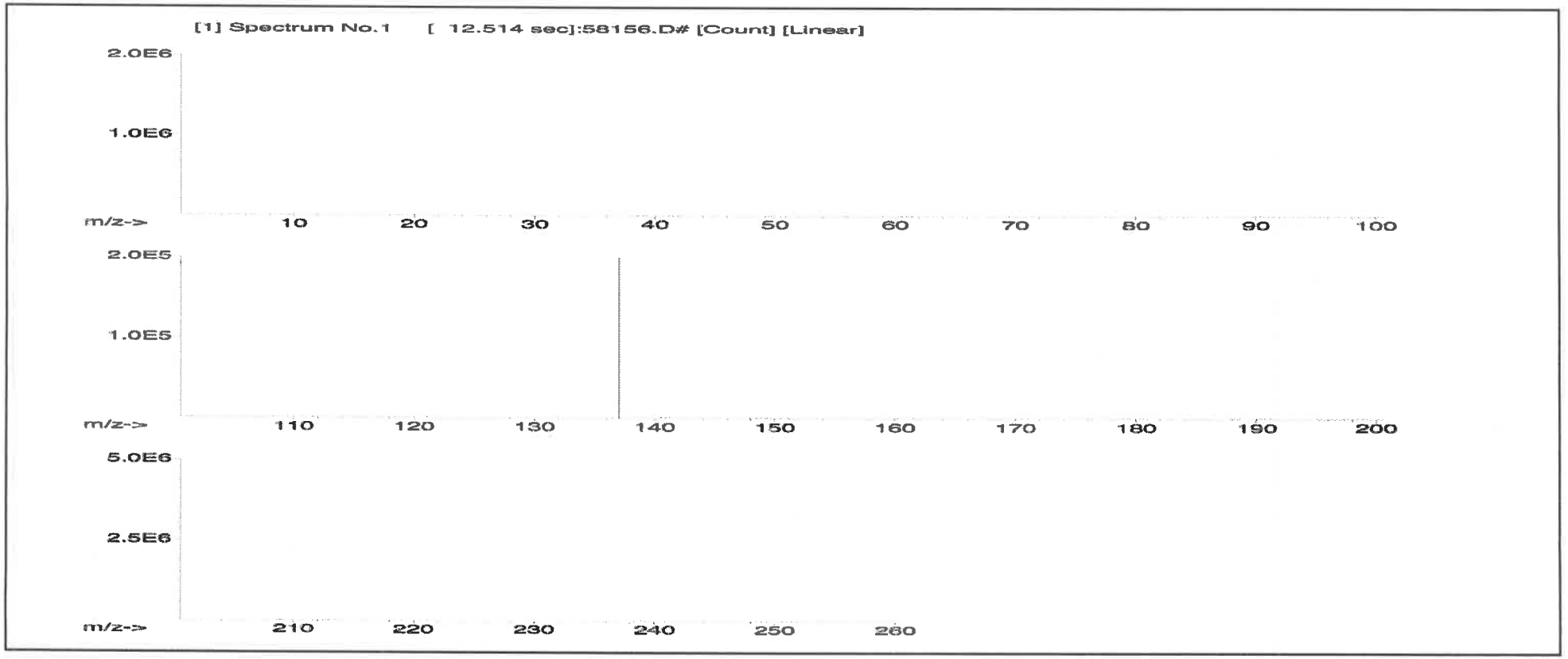
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito		
Formulated By:	Giovanni Esposito	010924
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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Q2639-METALS

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6028

R 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

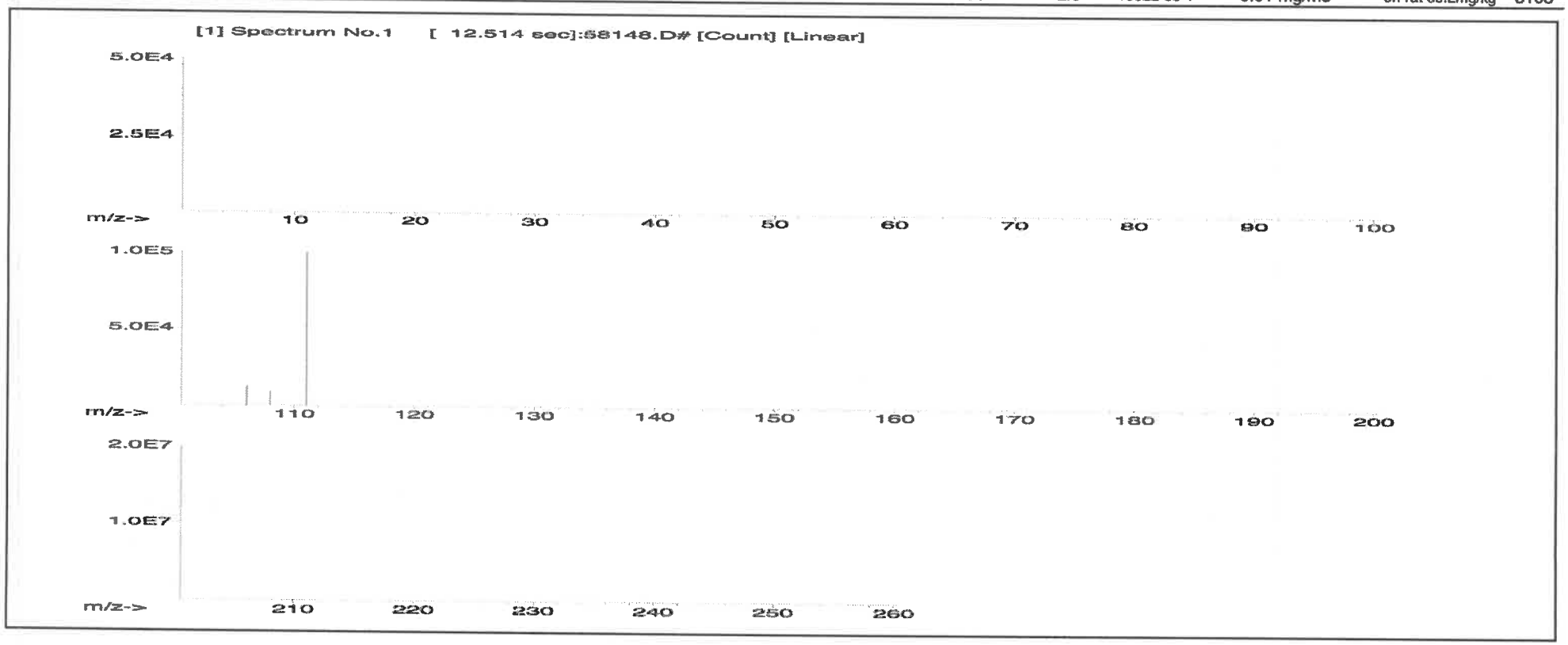
Weight shown below was diluted to (mL): 2000.07 ± 0.100 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 070124

Pedro Rentas
Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R : 01/03/24. M5810, M5811

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

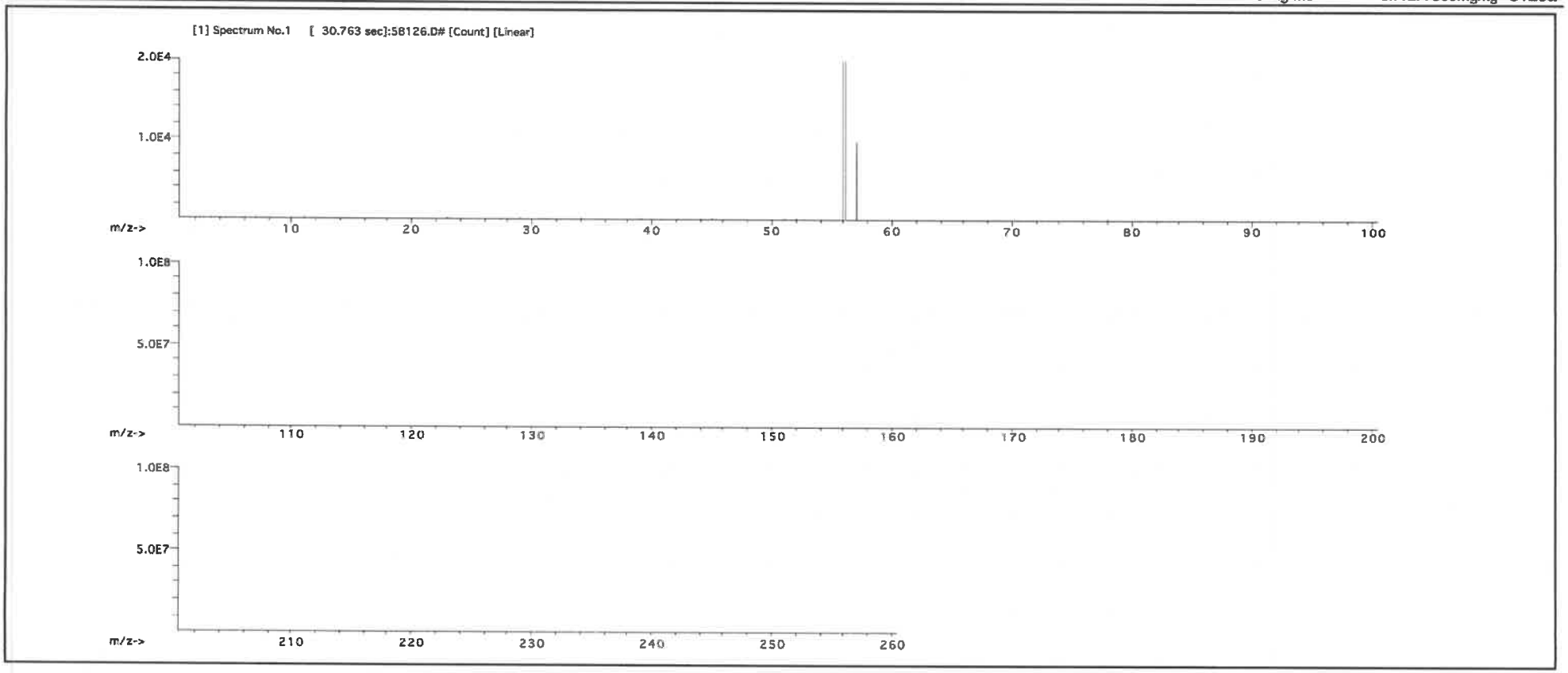
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.12	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 051523

Reviewed By: Pedro L. Rentas 051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™

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Certificate of Analysis

RD:05/14/2024

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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:	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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Certificate of Analysis

RD:05/14/2024

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Christiansburg, VA 24073 USA
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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 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

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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

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.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/4}$$

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 HNO3. 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% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); 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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 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

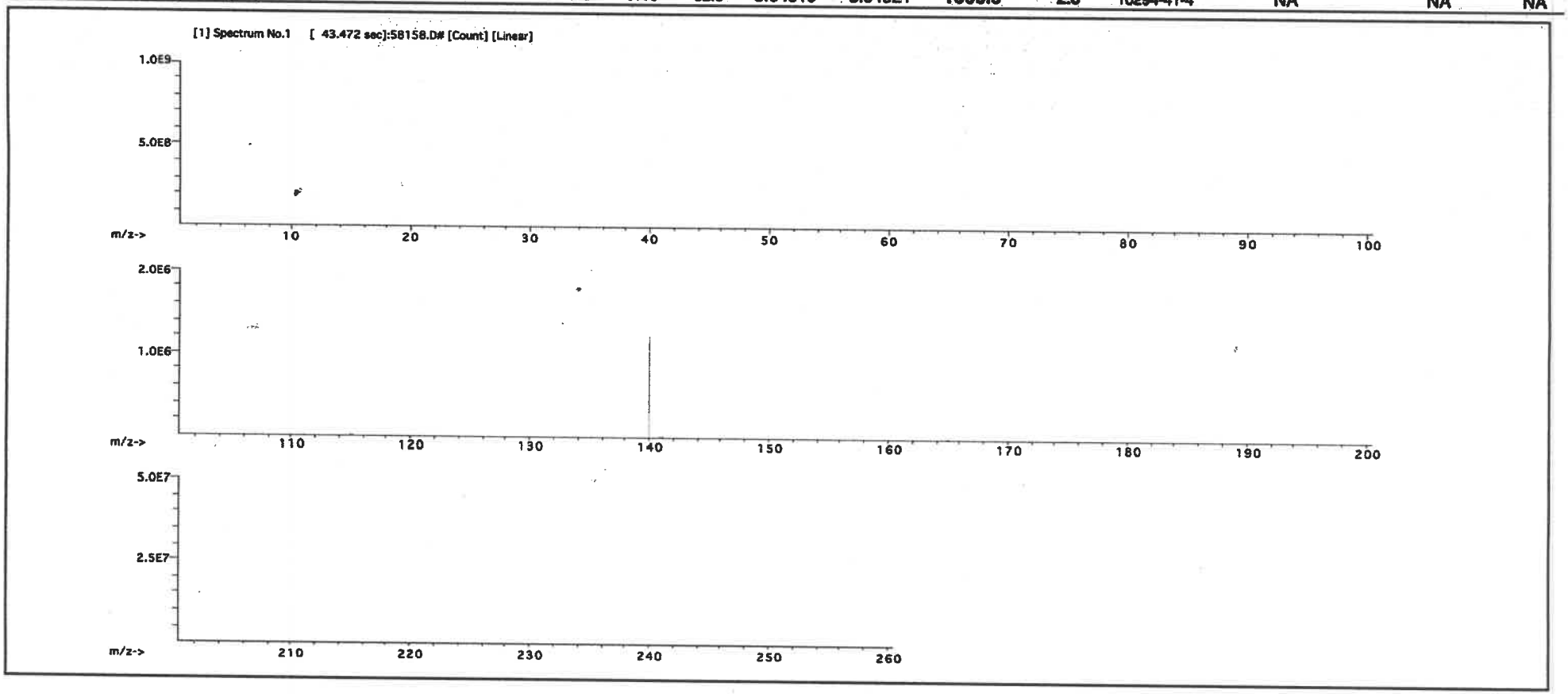
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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 - M5308
Radm 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

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-55114-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

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
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Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-55114-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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

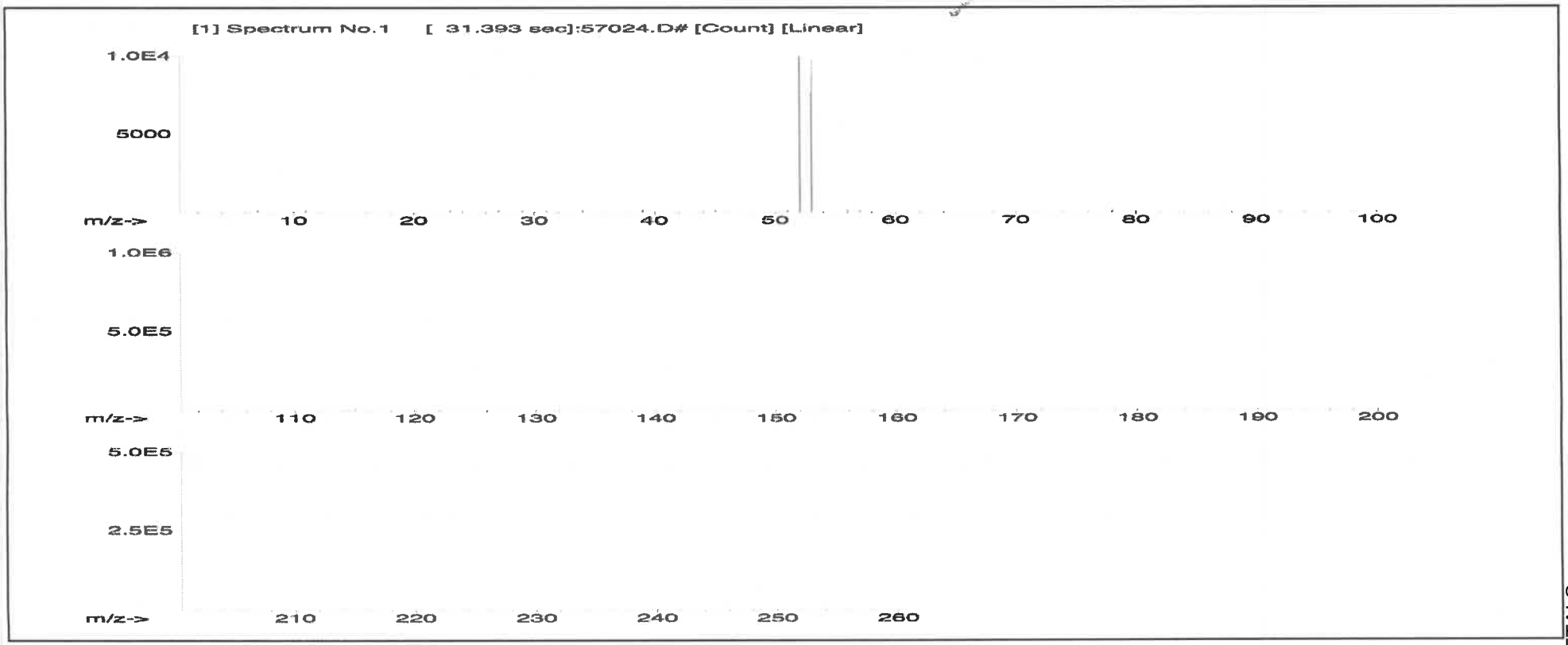
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

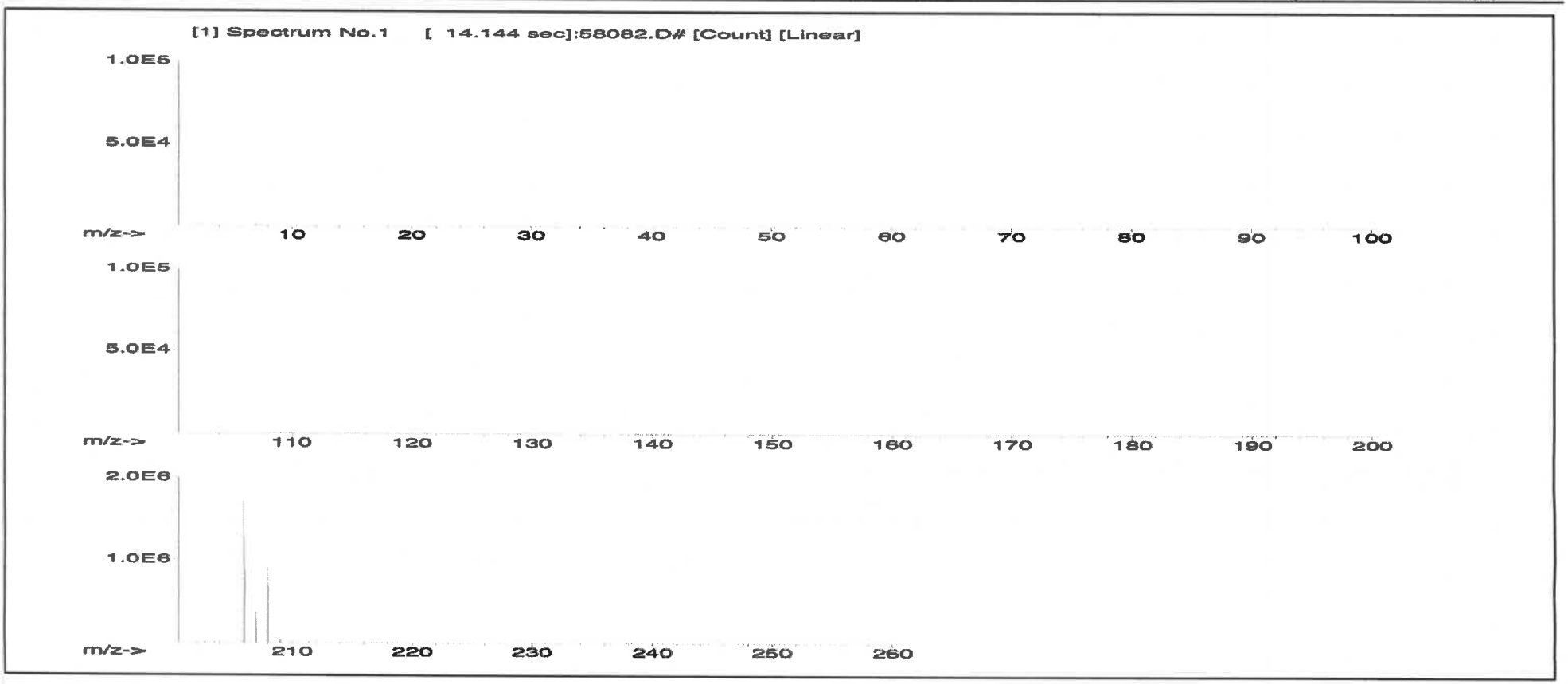
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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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

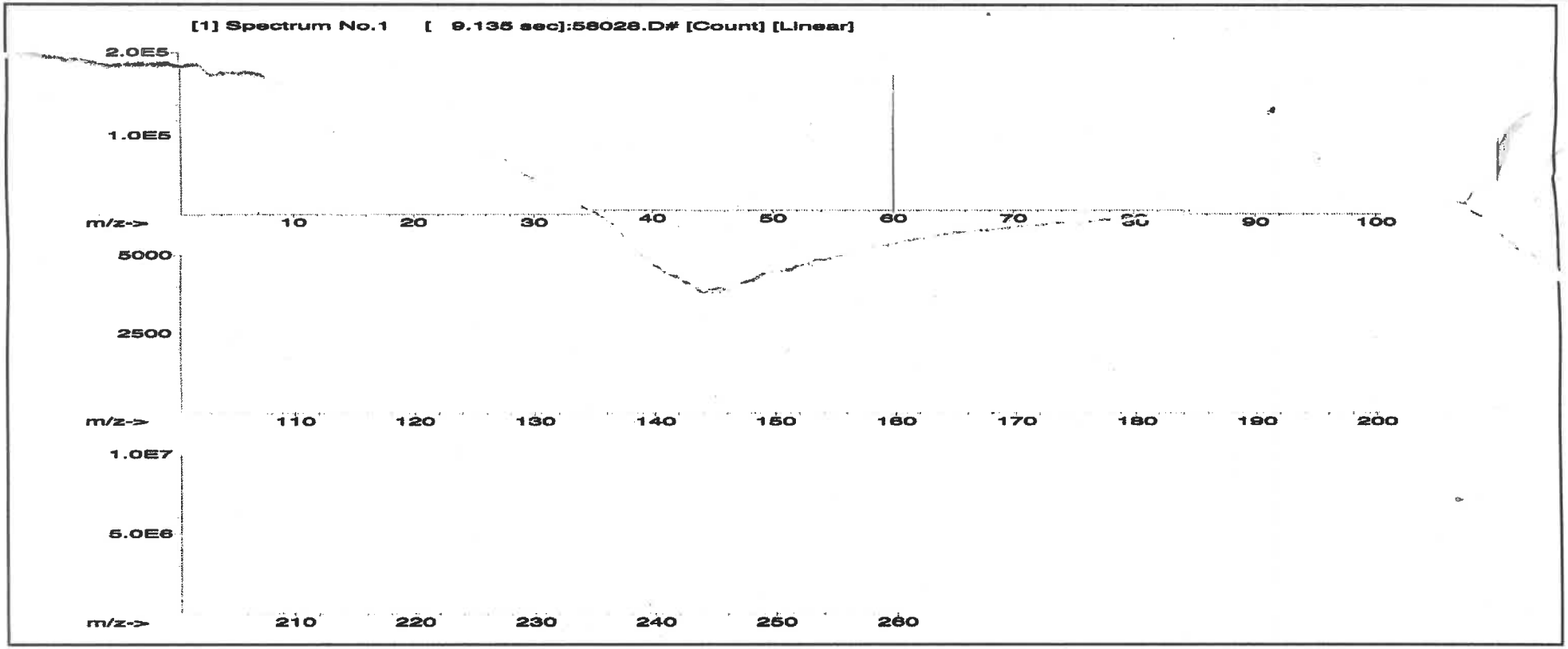
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CERTIFIED WEIGHT REPORT:

		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



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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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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R: 8/25/23 M5751

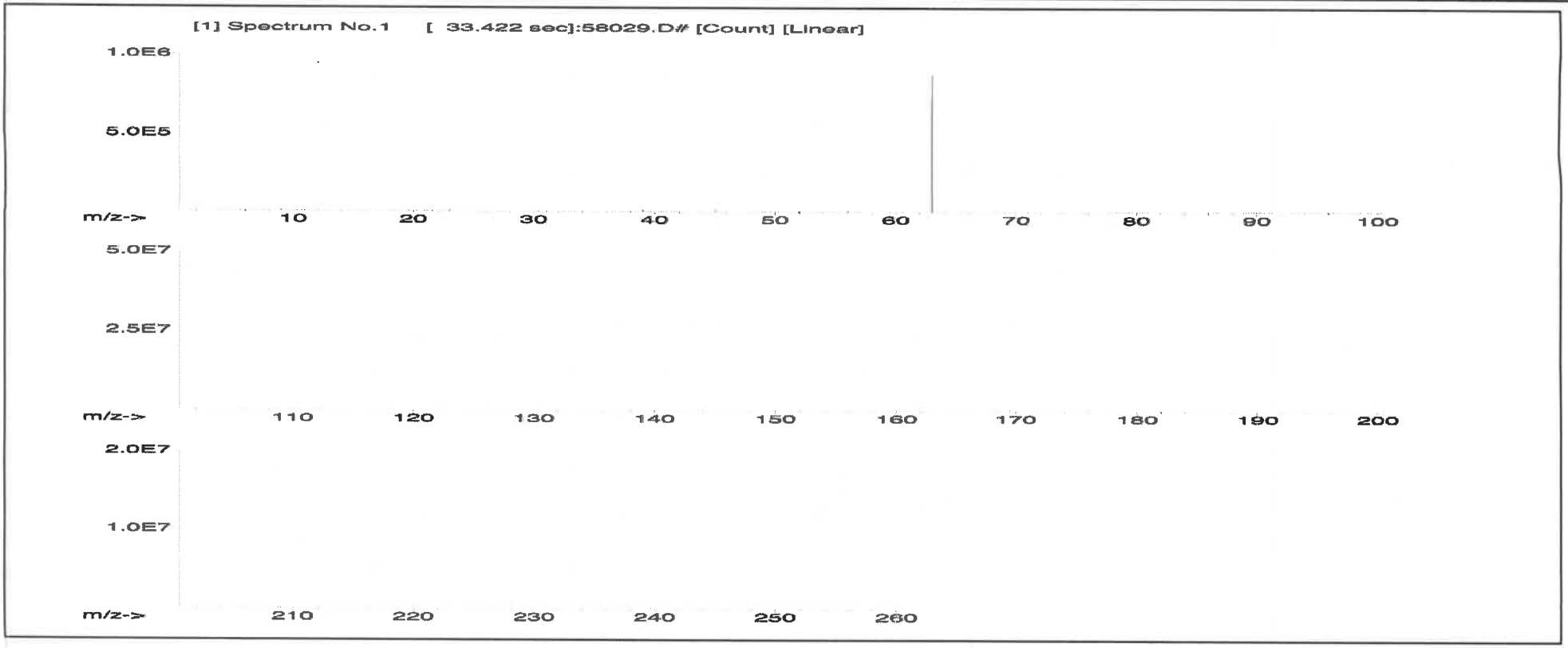
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5798

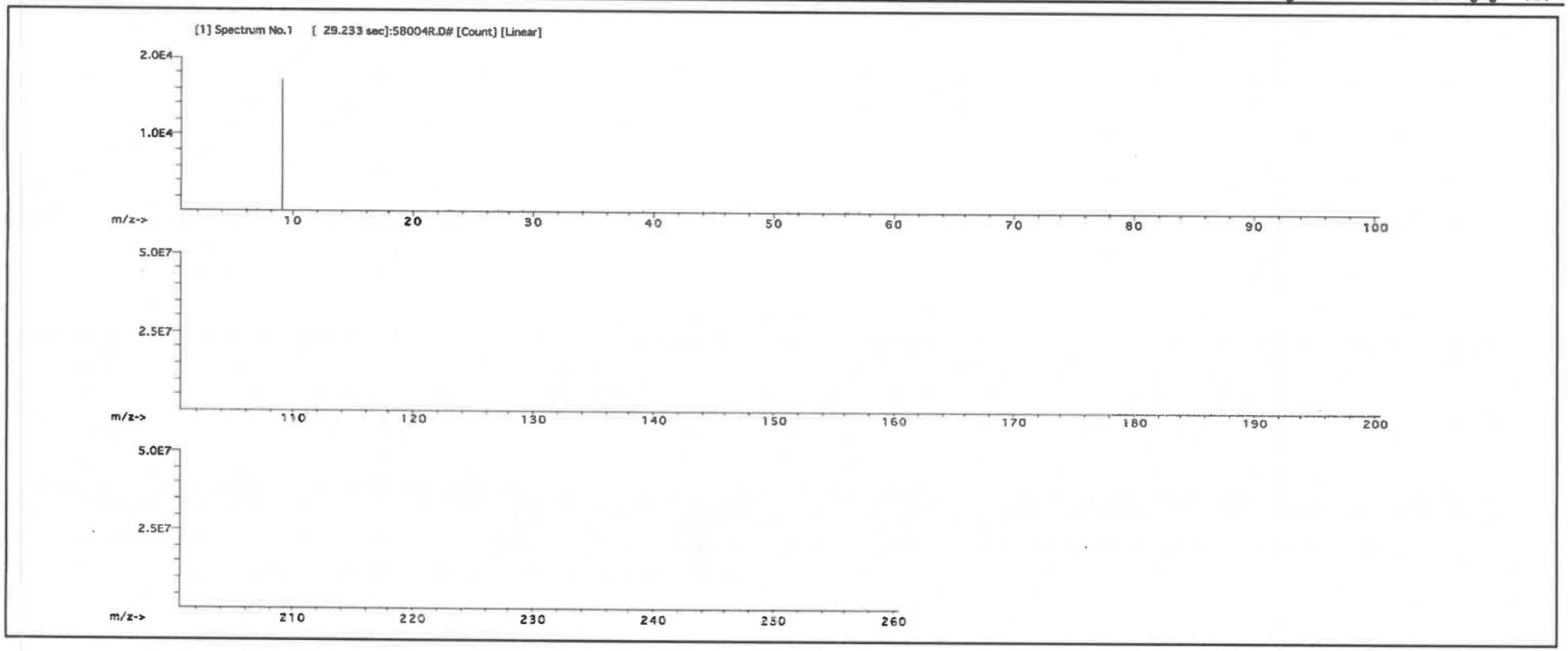
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Q26339-METALS

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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R? 02/09/24 IV15799

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

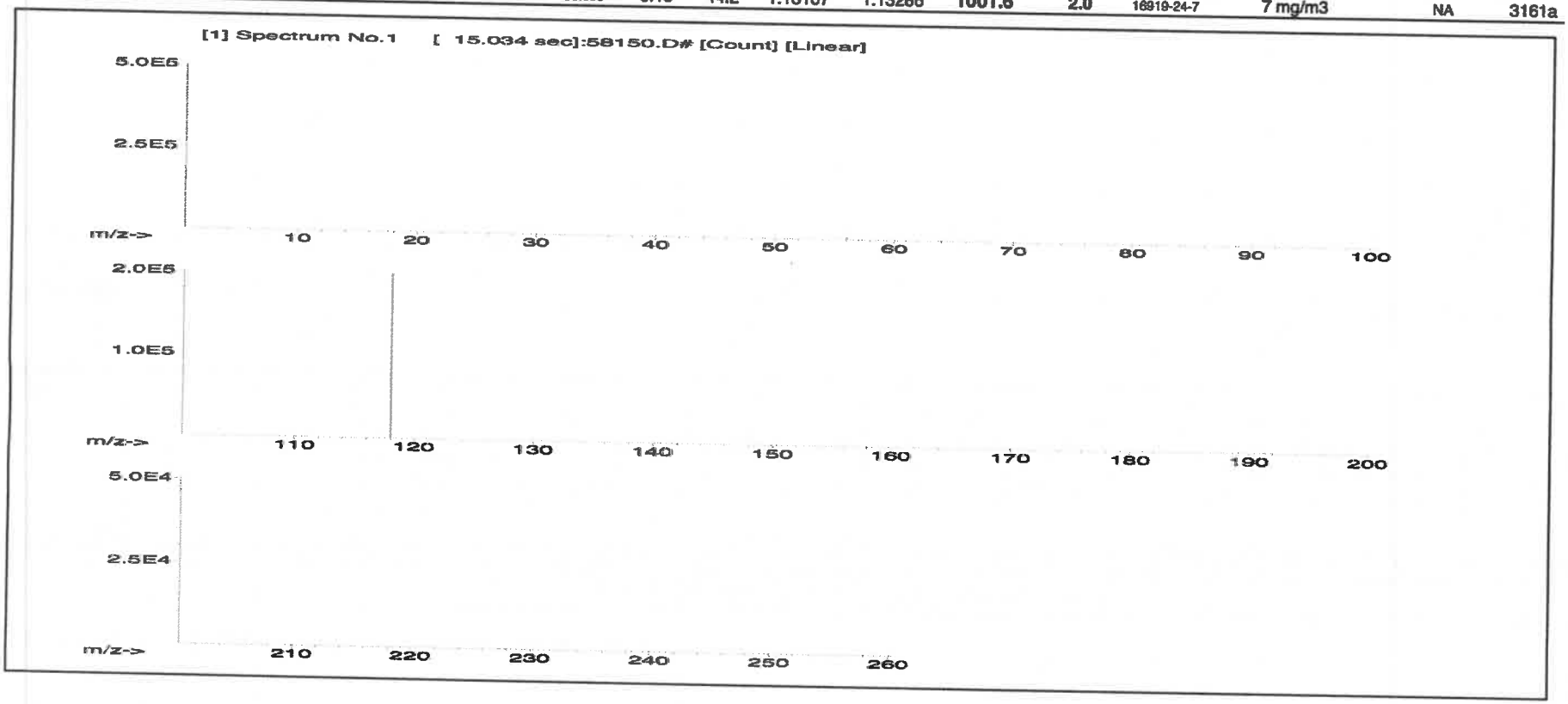
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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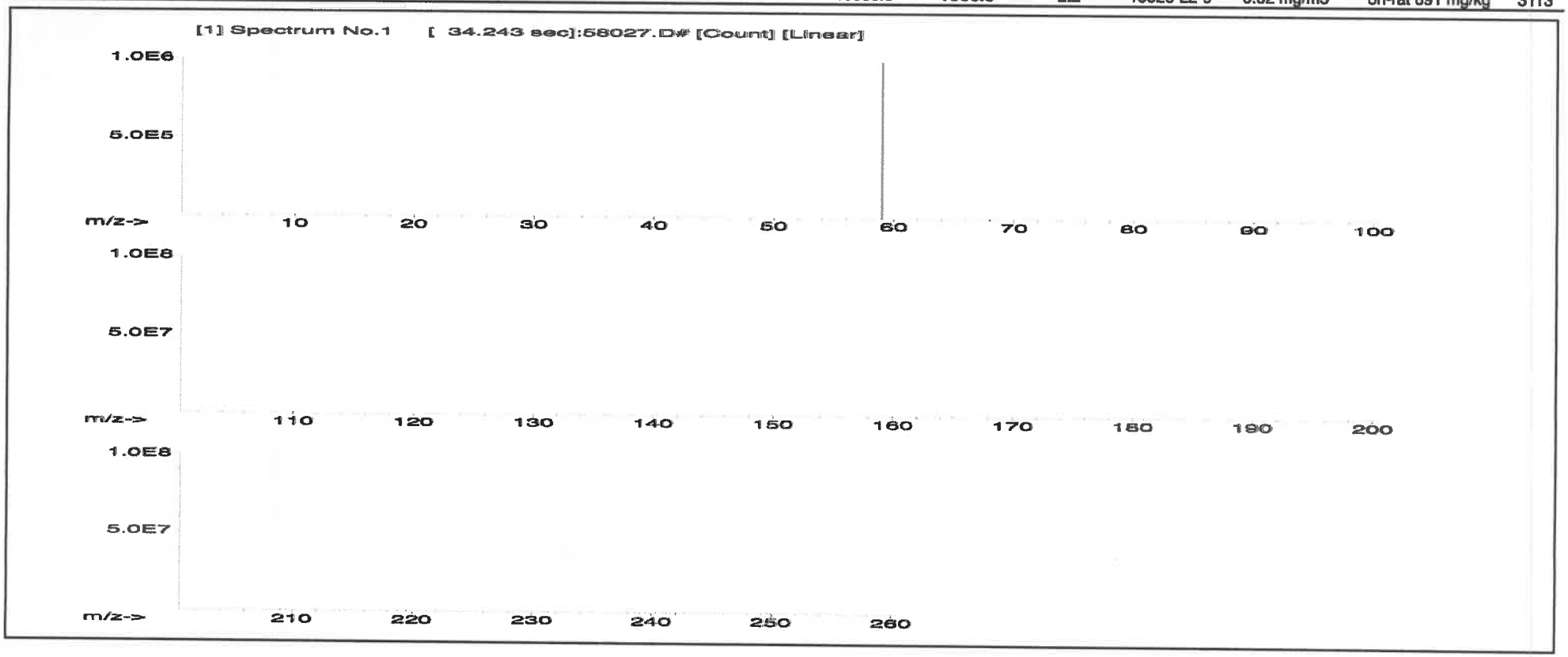
CERTIFIED WEIGHT REPORT:

		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



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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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5801 BH

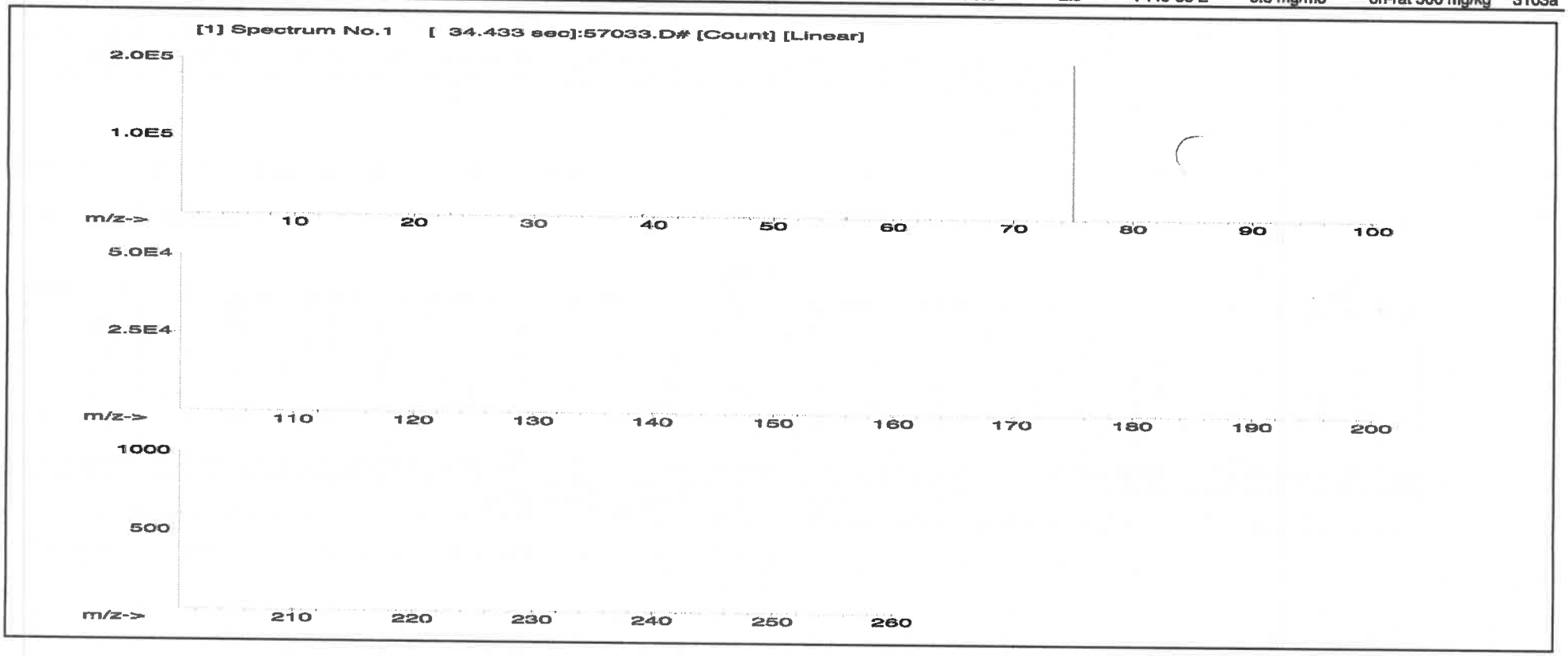
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
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



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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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Certified Reference Material CRM

A: 02/09/24 M.5814

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CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 071123
Description: Boron (B)

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

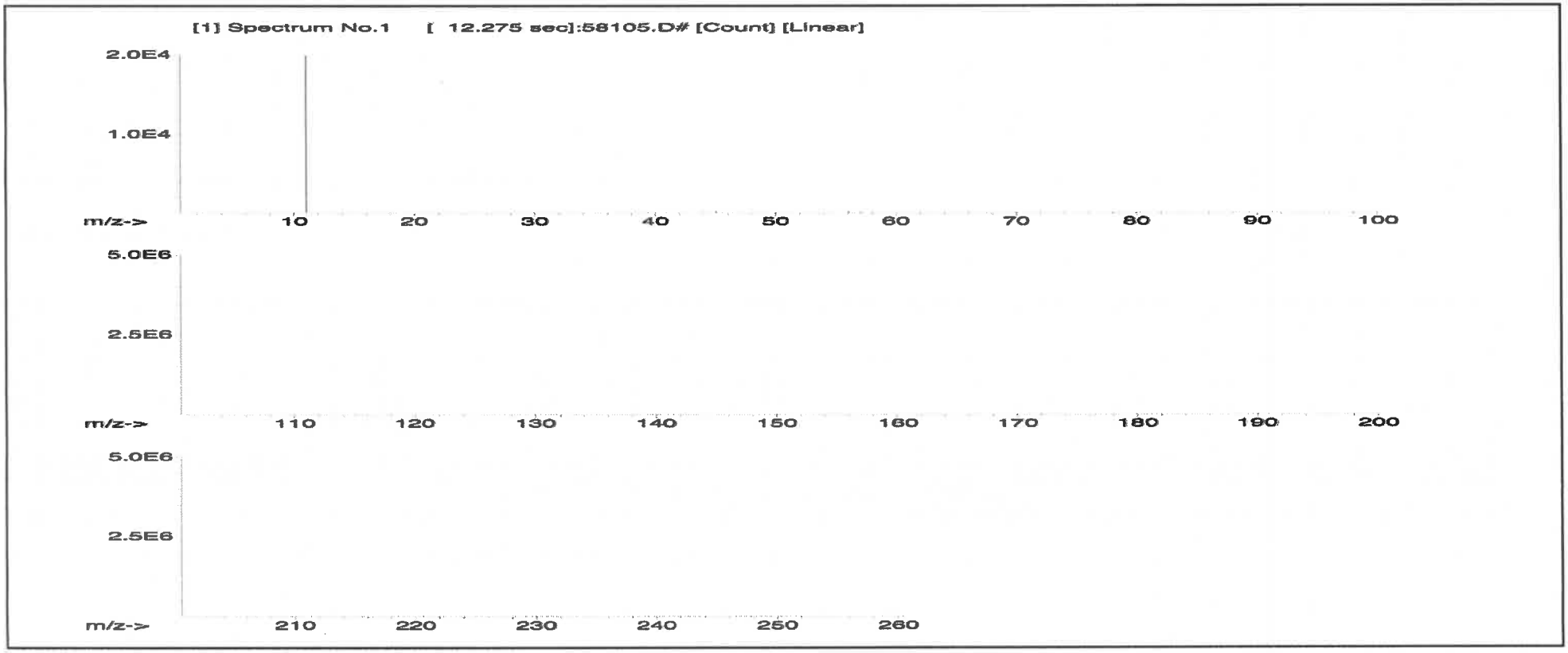
	Lot #			
Solvent:	MKBQ8597V	Ammonium hydroxide		
	2.0%	40.0 (mL)	Ammonium hydroxide	

5E-05 Balance 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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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Certified Reference Material CRM

R: 02/09/24 M5816

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CERTIFIED WEIGHT REPORT:

Part Number: 57016
Lot Number: 122923
Description: Sulfur (S)

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

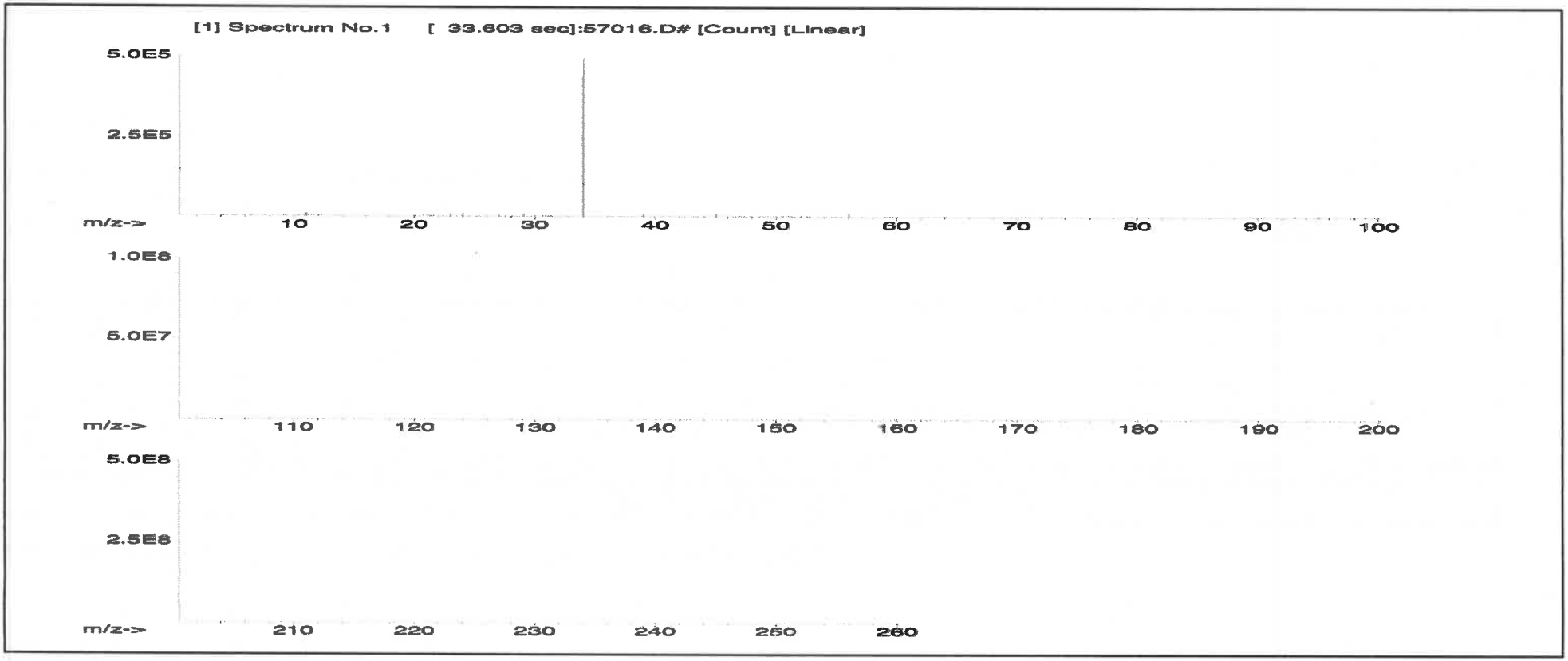
Weight shown below was diluted to (mL): 4000.0 ± 0.06 Flask Uncertainty

Solvent: Lot # 122923 ASTM Type 1 Water

5E-05 Balance 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



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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

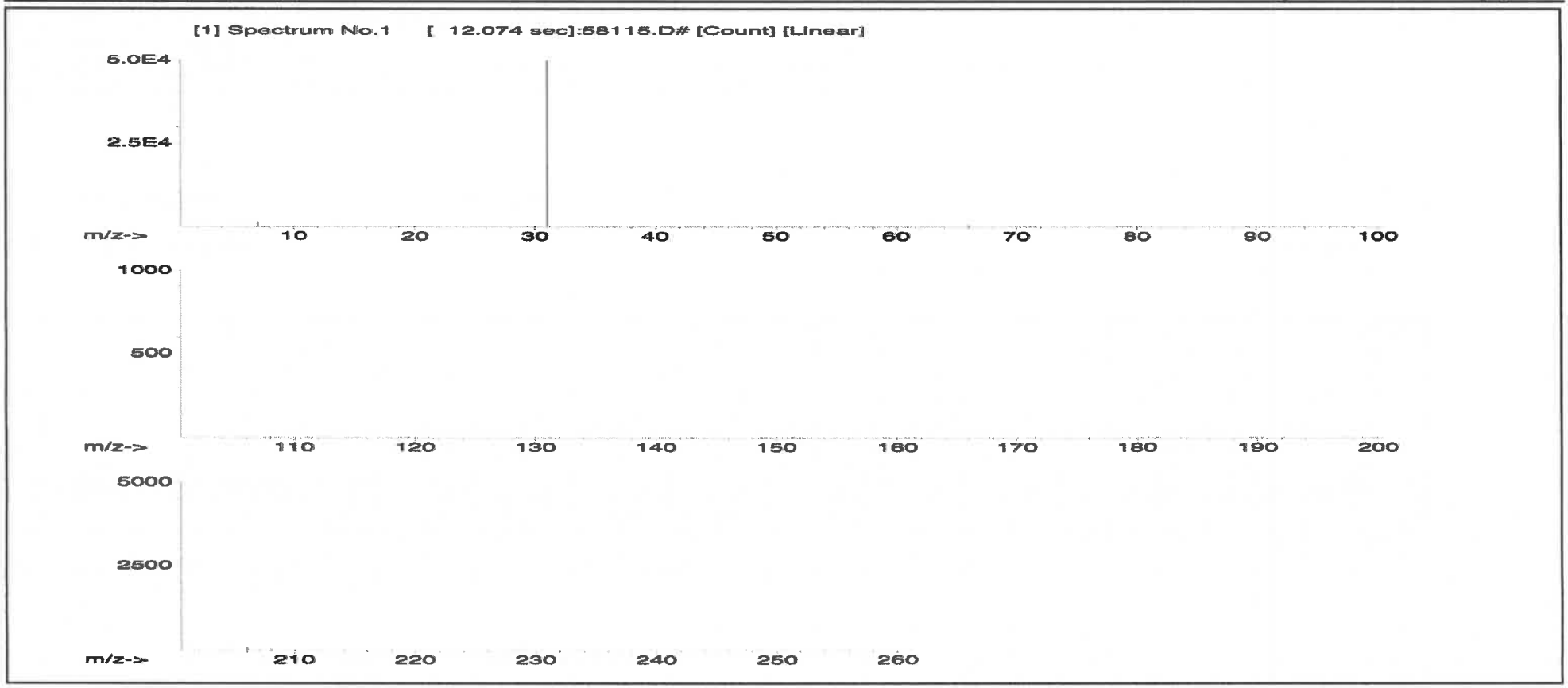
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CERTIFIED WEIGHT REPORT:

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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

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Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000536	M	Eu	< 0.000268	O	Na	< 0.032670	M	Se	0.001204	O	Zn	< 0.003267			
O	Al	0.000872	O	Fe	0.003225	O	Nb	< 0.043560	O	Si	0.004735	O	Zr	< 0.043560			
M	As	< 0.008586	M	Ga	< 0.000268	M	Nd	< 0.000268	M	Sm	< 0.000268						
M	Au	< 0.004577	M	Gd	< 0.000268	O	Ni	< 0.010890	M	Sn	0.000096						
O	B	< 0.008929	M	Ge	< 0.002146	M	Os	< 0.000269	O	Sr	0.000096						
M	Ba	< 0.002683	M	Hf	0.002161	O	P	< 0.054450	M	Ta	0.010560						
M	Be	< 0.005366	M	Hg	< 0.003231	M	Pb	< 0.001073	M	Tb	< 0.000268						
M	Bi	< 0.001609	M	Ho	< 0.000268	M	Pd	< 0.000268	M	Te	< 0.001341						
O	Ca	0.000676	M	In	< 0.002683	M	Pr	< 0.000268	M	Th	< 0.053663						
M	Cd	< 0.000268	M	Ir	< 0.000269	M	Pt	< 0.000536	s	Ti	<						
M	Ce	< 0.000268	M	K	0.001172	M	Rb	< 0.000268	M	Tl	< 0.000268						
M	Co	< 0.004293	M	La	< 0.000268	M	Re	< 0.000268	M	Tm	< 0.000268						
M	Cr	0.000752	O	Li	< 0.027225	M	Rh	< 0.000268	M	U	< 0.000268						
M	Cs	< 0.000268	M	Lu	< 0.000268	M	Ru	< 0.000269	M	V	< 0.019855						
O	Cu	< 0.010890	O	Mg	< 0.005445	i	S	<	M	W	0.000473						
M	Dy	< 0.000268	O	Mn	< 0.003267	M	Sb	< 0.006976	M	Y	< 0.002146						
M	Er	< 0.000268	M	Mo	0.000774	O	Sc	< 0.004900	M	Yb	< 0.000536						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

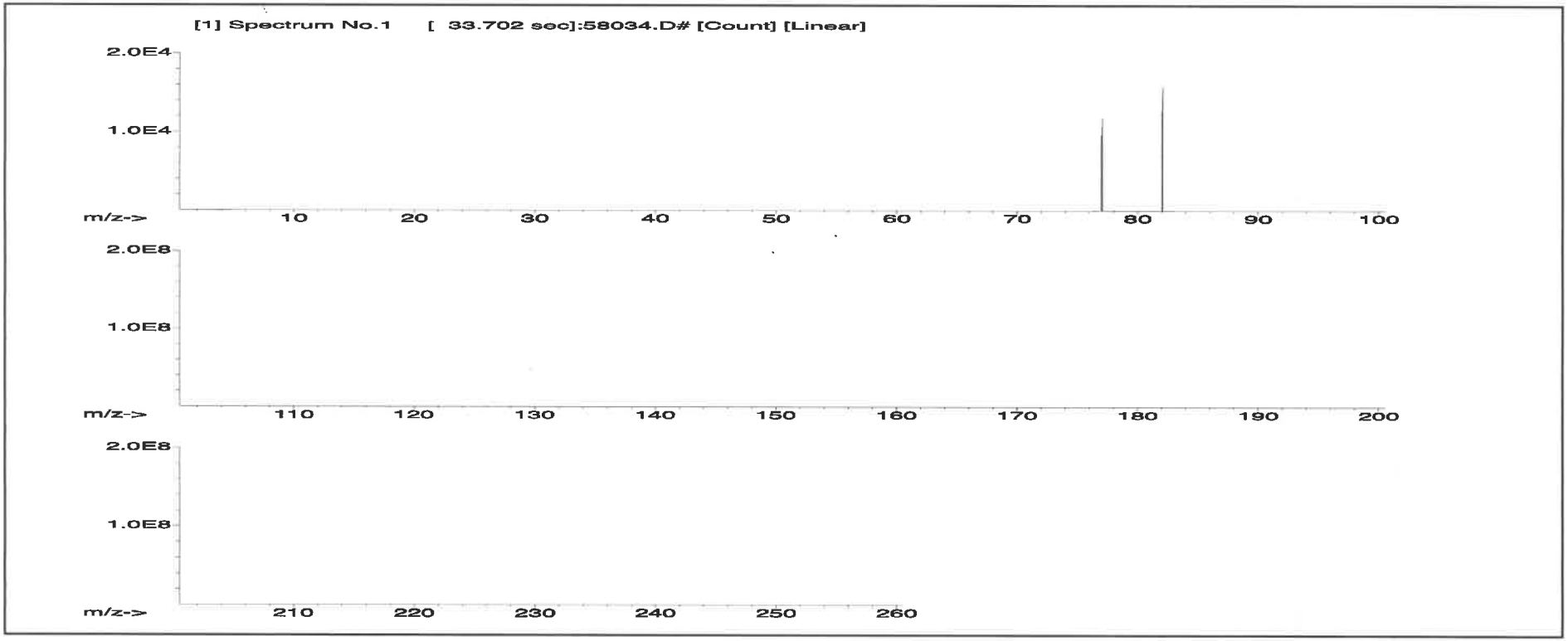
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

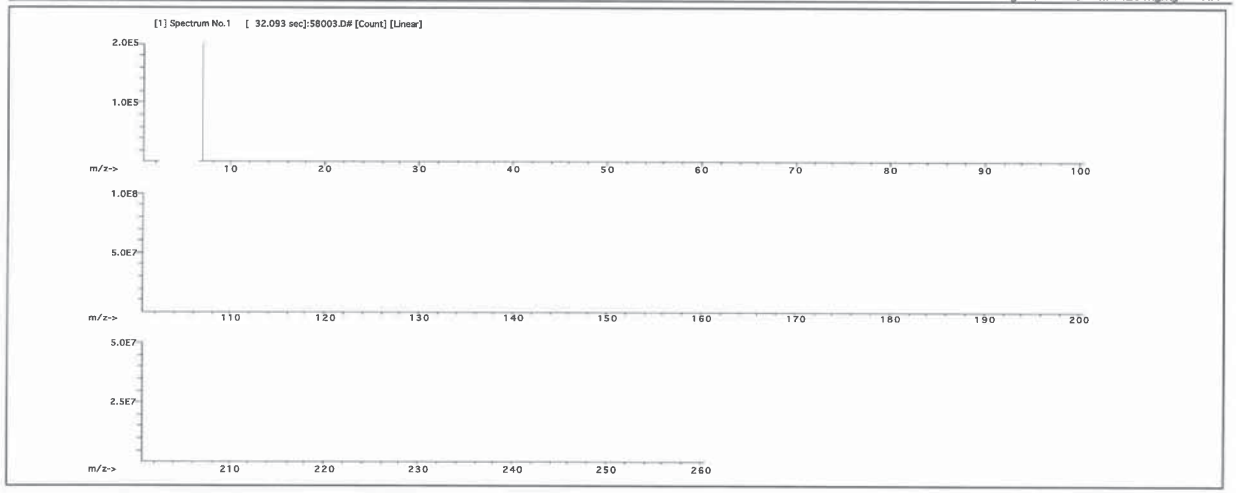
		Lot #	Solvent:		
Part Number:	**57003**	24002546	Nitric Acid		
Lot Number:	**062124**				
Description:	**Lithium (Li)**	2.0%	5.0 (mL)	Nitric Acid	
Expiration Date:	062127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	250.11	0.016	Flask Uncertainty		

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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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
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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MS984
R:6/14/24

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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:	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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB727800
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	1 000 ± 7 µg/mL	Cadmium, Cd	500.0 ± 2.2 µg/mL
Lead, Pb	1 000 ± 4 µg/mL	Selenium, Se	1 000 ± 6 µg/mL
Thallium, Tl	1 000 ± 7 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/(u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i}^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- December 21, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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R! 08/22/24 M6058, M6059

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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) 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: 1.032 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



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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

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Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 06, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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

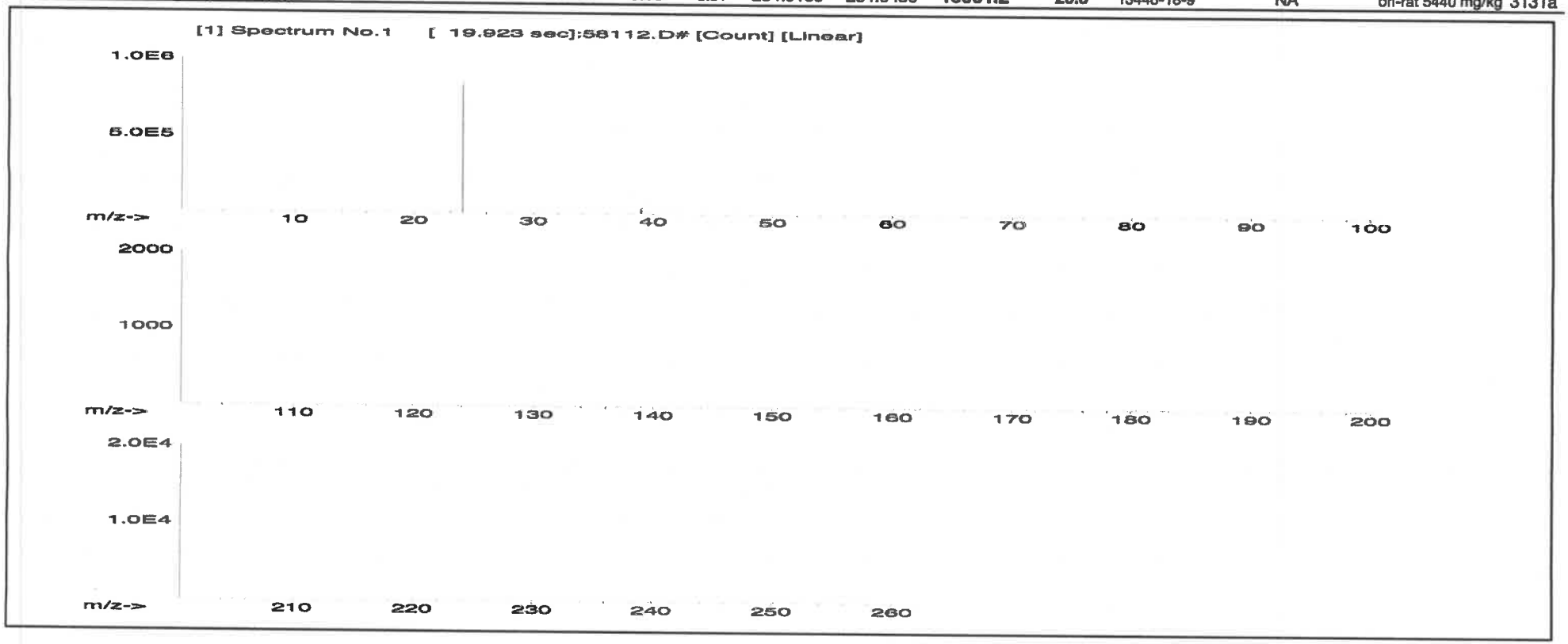
M 6127

Part Number:	**58112**		**Lot #**	
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid
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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

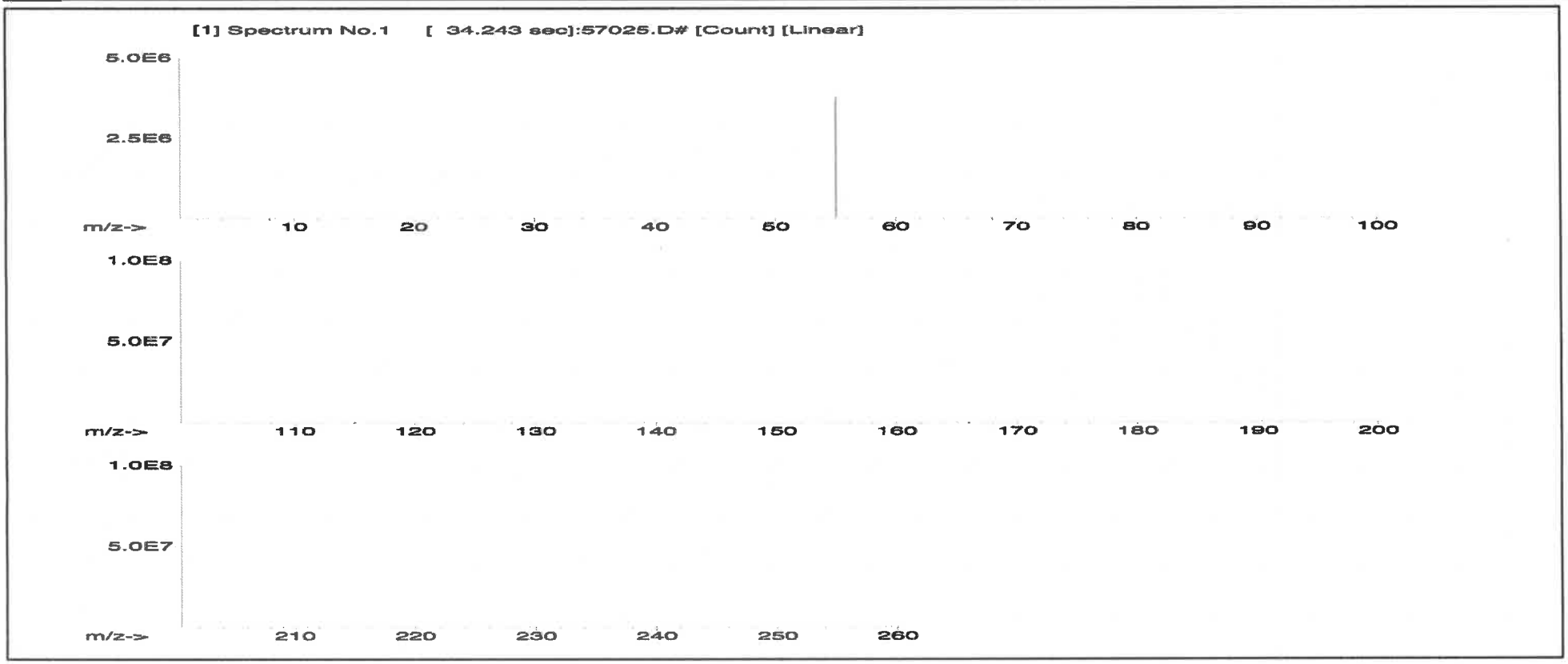
R->1/13/25
M6128

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
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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
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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"

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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 WEIGHT REPORT:

R-> 1/13/25

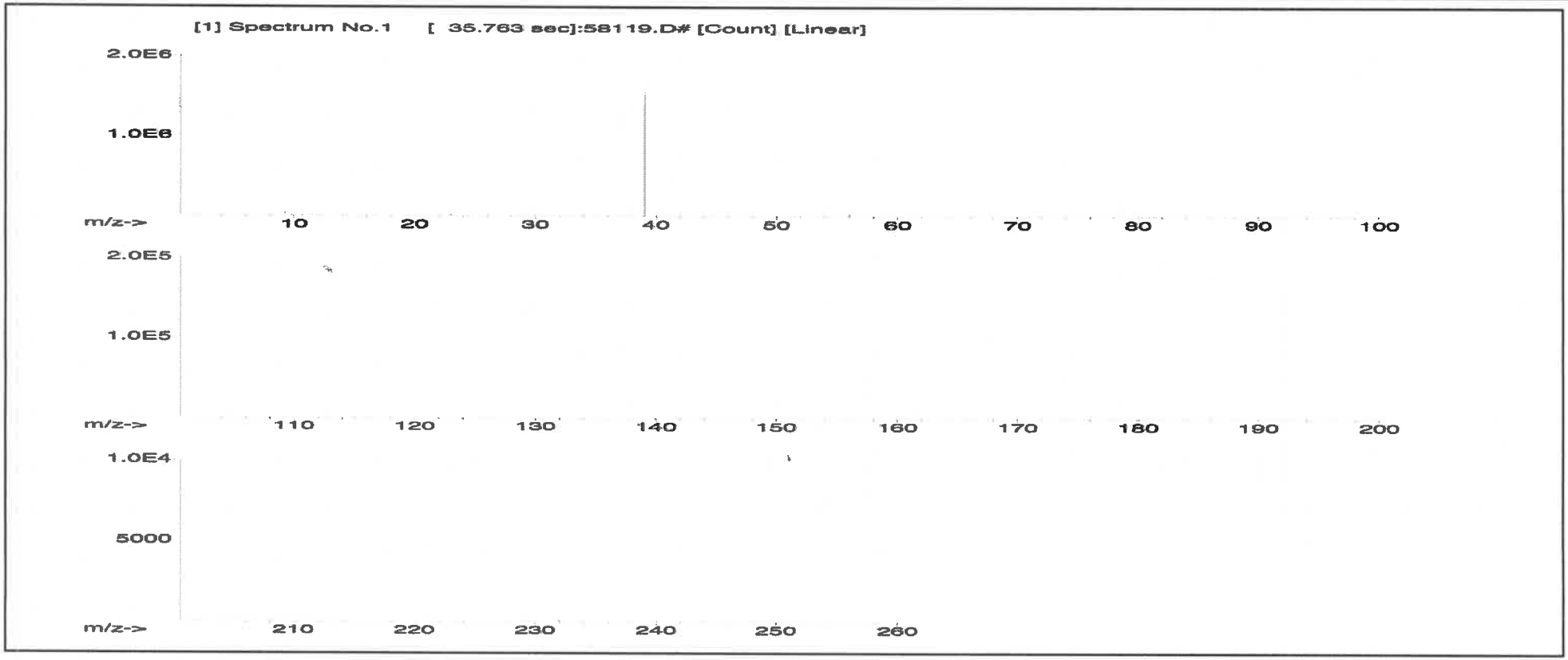
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



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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).

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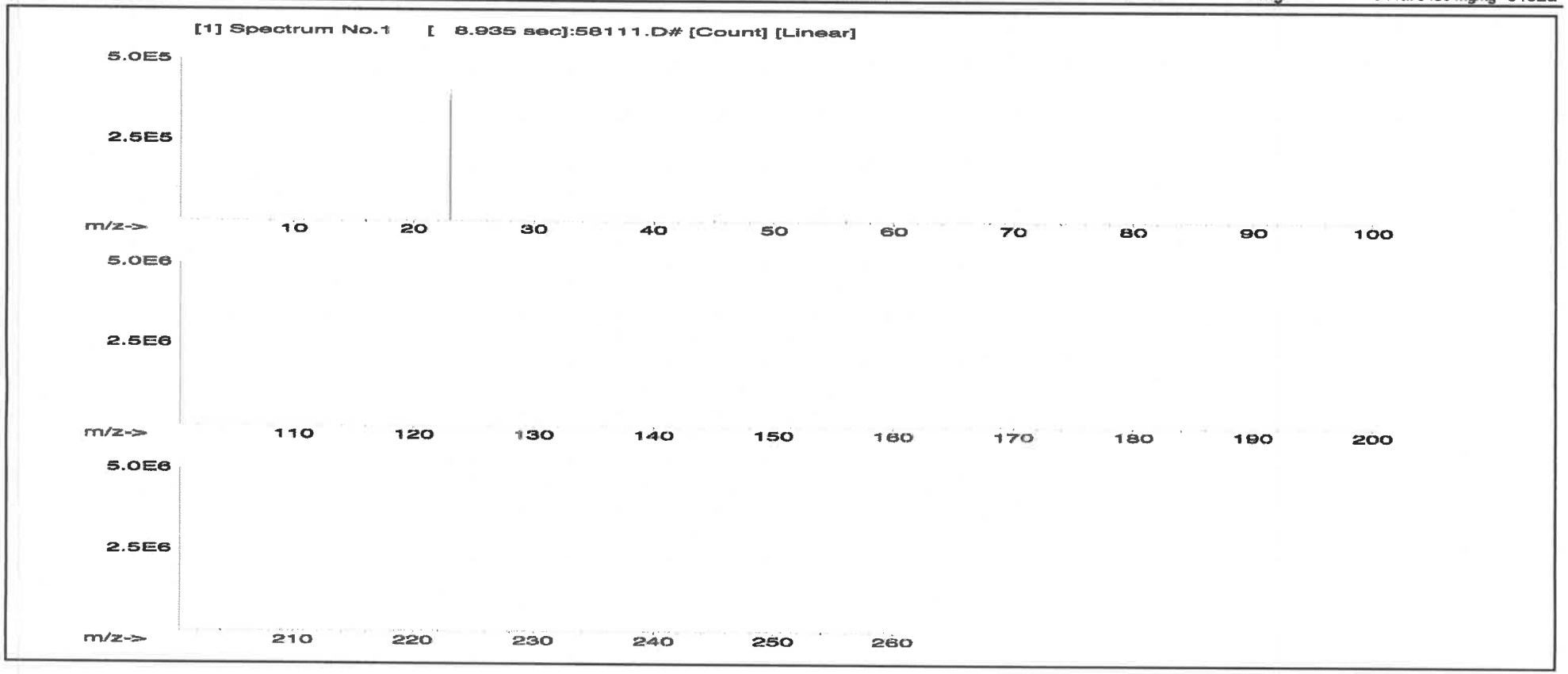
CERTIFIED WEIGHT REPORT:

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



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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
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

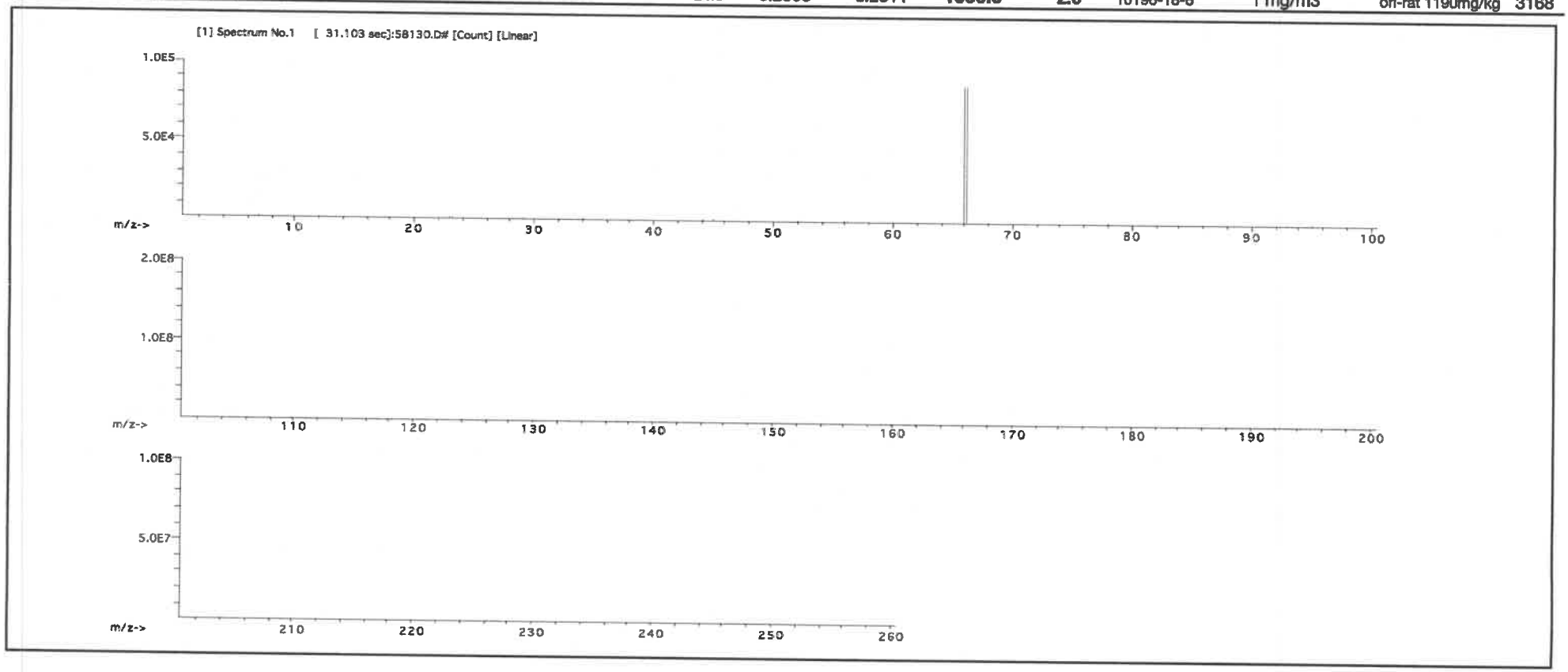
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

				Lot #	
Solvent:	24012496	Nitric Acid			
	2%	40.0 (mL)	Nitric Acid		
	5E-05	Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



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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.

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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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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

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

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Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

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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 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Nitric Acid 69%
CMOS

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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

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-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

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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

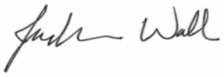
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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:	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

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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

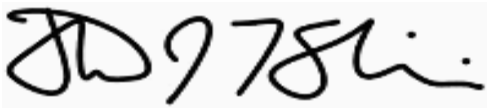
- Sealed TCT Bag Open Date: _____

- 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



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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:	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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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

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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

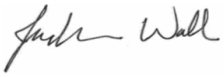
Certificate Prepared By:

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.
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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 Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

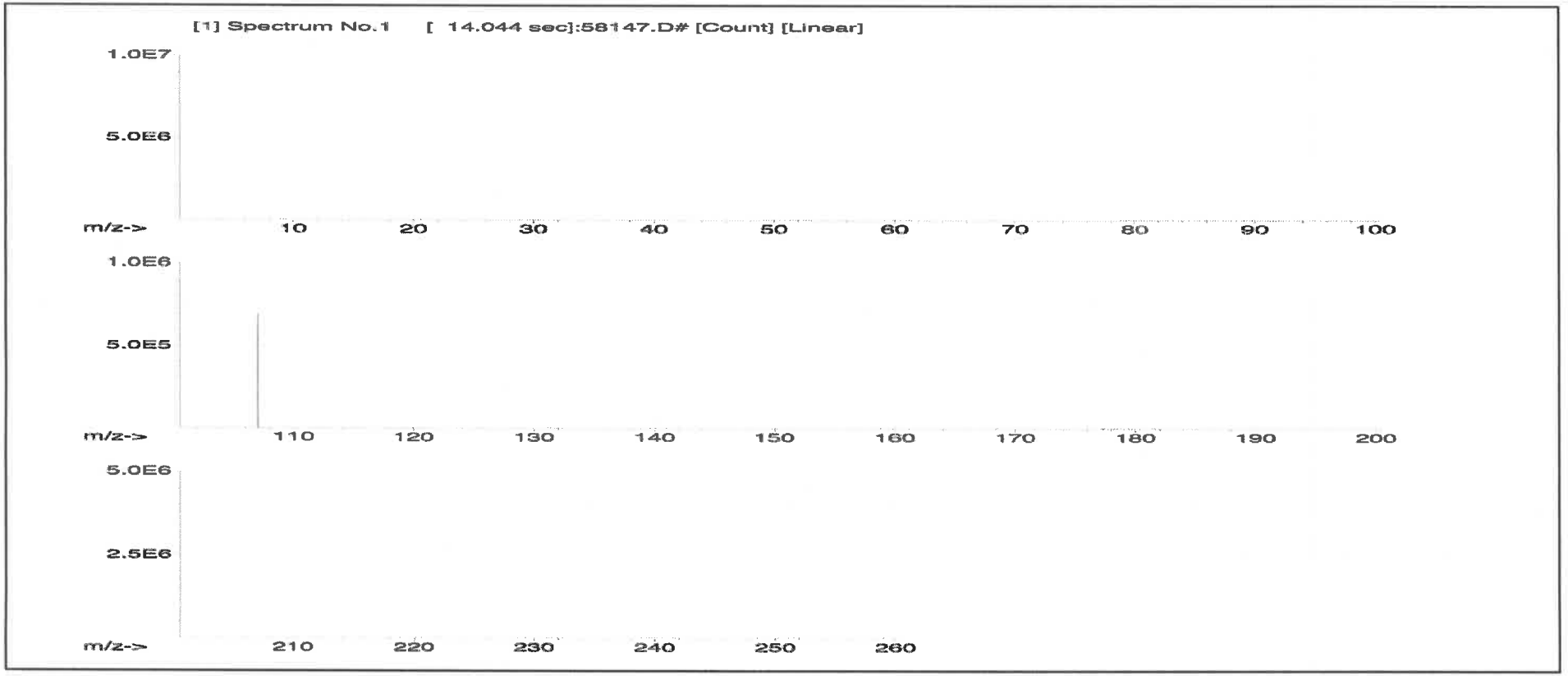
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance 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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

MG146

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)
Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

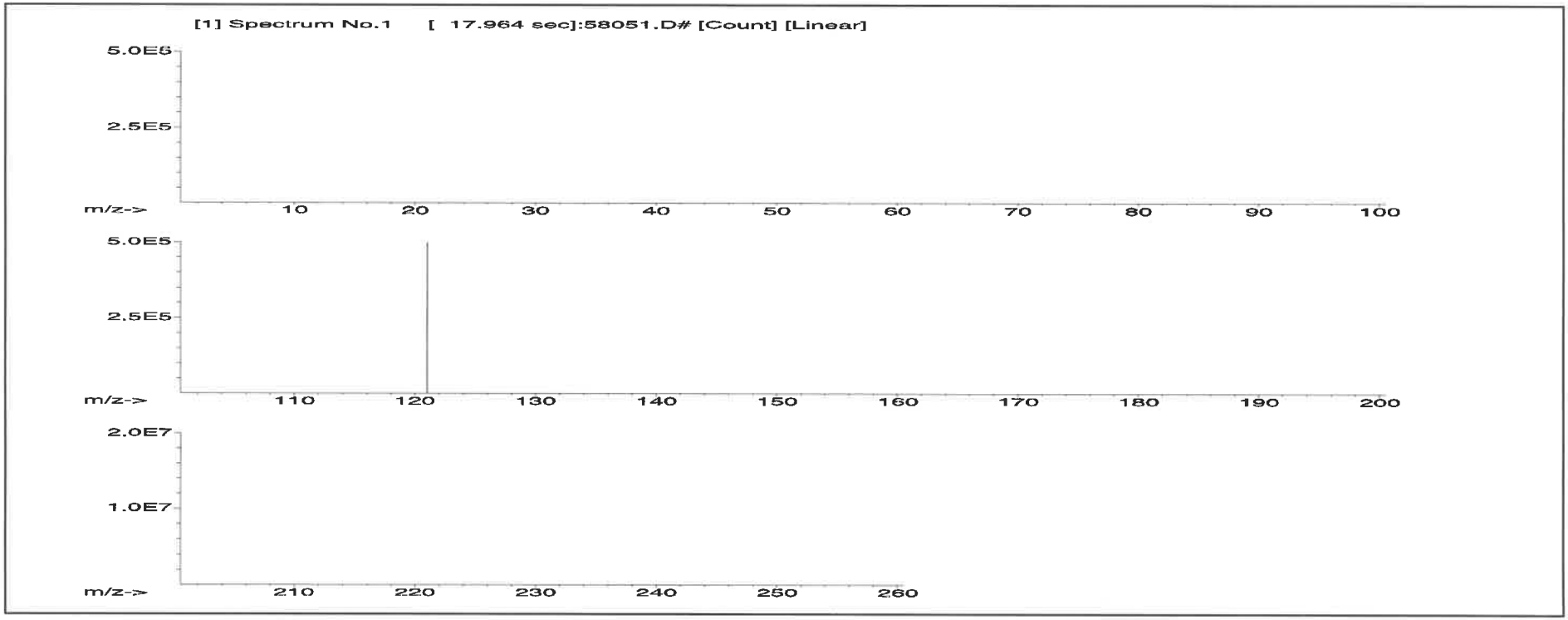
Giovanni Esposito

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



Absolute Standards, Inc.
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

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.

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,



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).

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**998 ± 4 µg/mL** ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	**1001 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**1001 ± 2 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

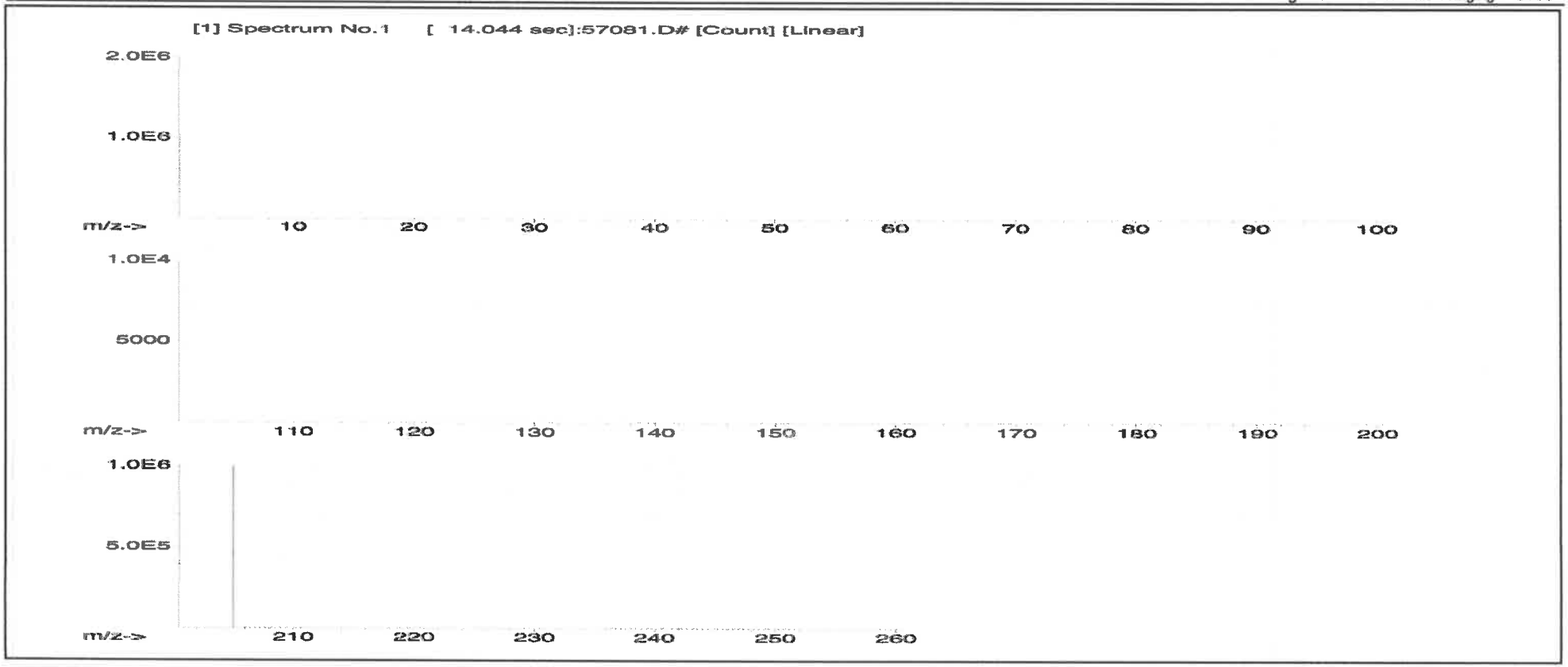
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady	
Formulated By:	Aleah O'Brady 062724
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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6021

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AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 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	

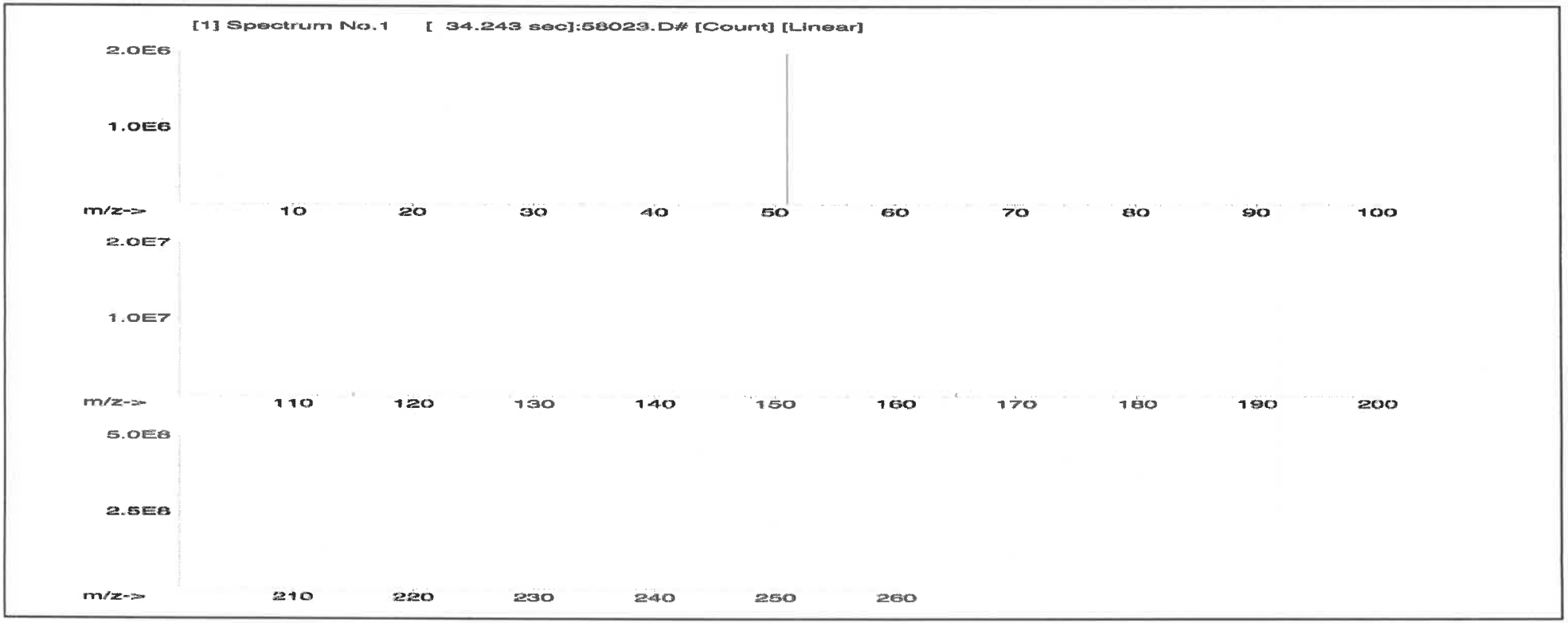
Aleah O'Brady

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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

Q 2639

Chemtech

Phone: (908) 789-8900
Fax: (908) 789-8922
284 Sheffield Street, Mountainside, NJ 07092

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	A. Brittingham

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-TS-38-071725	7/17/25	11:40	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-39-071725	7/17/25	11:50	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-40-071725	7/17/25	12:00	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-41-071725	7/17/25	12:10	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-42-071725	7/17/25	12:20	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-43-071725	7/17/25	12:30	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-44-071725	7/17/25	12:40	G	SO		3	2					X	X	X	X	X	X	X	X	X

[2] Preservation Code
Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 7/17/25 1500
Received by: (signature)	Date/Time: 7/18/25 0855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments: 5.1°C - 4.7°C

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 7/18/2025 10:22:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 7/18/2025 9:55:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2639-01	OU4-TS-38-071725	Solid	07/17/2025	11:40					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-03	OU4-TS-39-071725	Solid	07/17/2025	11:50					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-05	OU4-TS-40-071725	Solid	07/17/2025	12:00					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-07	OU4-TS-41-071725	Solid	07/17/2025	12:10					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-09	OU4-TS-42-071725	Solid	07/17/2025	12:20					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-11	OU4-TS-43-071725	Solid	07/17/2025	12:30					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-13	OU4-TS-44-071725	Solid	07/17/2025	12:40					
					VOCMS Group3		8260D		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 7/18/2025 10:22:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 7/18/2025 9:55:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : AV
Date / Time : 7/18/25 1100

Received By : Sam
Date / Time : 07/18/25 11:00

Rq #6 of 22

Storage Area : VOA Refridgerator Room