

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

Q2639-01
Q2639-02
Q2639-03
Q2639-04
Q2639-05
Q2639-06
Q2639-07
Q2639-08
Q2639-09
Q2639-10
Q2639-11
Q2639-12
Q2639-13
Q2639-14

Client Sample Number

OU4-TS-38-071725
OU4-TS-38-071725
OU4-TS-39-071725
OU4-TS-39-071725
OU4-TS-40-071725
OU4-TS-40-071725
OU4-TS-41-071725
OU4-TS-41-071725
OU4-TS-42-071725
OU4-TS-42-071725
OU4-TS-43-071725
OU4-TS-43-071725
OU4-TS-44-071725
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 : _____

Date: 7/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

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 unknown 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_____

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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

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_____
Date

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 Custody

✓

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

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	Mercury Metals ICP-TAL	7471B 6010D	07/17/25	07/24/25 07/21/25	07/25/25 07/22/25	07/18/25
Q2639-02	OU4-TS-38-071725	Water	SPLP Mercury SPLP MetalGroup3 SPLP MetalGroup3	7470A 6020B 6020B	07/17/25	07/21/25 07/21/25 07/21/25	07/22/25 07/22/25 07/24/25	07/18/25
Q2639-03	OU4-TS-39-071725	SOIL	Mercury Metals ICP-TAL	7471B 6010D	07/17/25	07/24/25 07/21/25	07/25/25 07/22/25	07/18/25
Q2639-04	OU4-TS-39-071725	Water	SPLP Mercury SPLP MetalGroup3 SPLP MetalGroup3	7470A 6020B 6020B	07/17/25	07/21/25 07/21/25 07/21/25	07/22/25 07/22/25 07/24/25	07/18/25
Q2639-05	OU4-TS-40-071725	SOIL	Mercury Metals ICP-TAL	7471B 6010D	07/17/25	07/24/25 07/21/25	07/25/25 07/22/25	07/18/25
Q2639-06	OU4-TS-40-071725	Water	SPLP Mercury SPLP MetalGroup3 SPLP MetalGroup3	7470A 6020B 6020B	07/17/25	07/21/25 07/21/25 07/21/25	07/22/25 07/22/25 07/24/25	07/18/25
Q2639-07	OU4-TS-41-071725	SOIL	Mercury Metals ICP-TAL	7471B 6010D	07/17/25	07/24/25 07/21/25	07/25/25 07/22/25	07/18/25
Q2639-08	OU4-TS-41-071725	Water			07/17/25			07/18/25

LAB CHRONICLE

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

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

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

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

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

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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

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

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

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

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

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

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

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

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
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
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METAL CALIBRATION DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

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

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
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

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
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

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
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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group

Contract: NOBI03

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639

Lab Code: ACE

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
CCV04	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
	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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group

Contract: NOBI03

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639

Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group

Contract: NOBI03

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639

Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group

Contract: NOBI03

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639

Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

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
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

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
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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group

Contract: NOBI03

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639

Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group
Contract: NOBI03
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2639
Lab Code: ACE

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

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

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

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	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

- 3a -

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

Metals

- 3a -

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

Metals

- 3a -

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

Metals

- 3a -

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

Metals

- 3a -

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

Metals

- 3a -

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

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	07/22/2025	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

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	07/22/2025	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

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	07/23/2025	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

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	11.6	+/-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

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	07/23/2025	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
CCB04	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
	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

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

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

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

Metals
- 3b -
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

Metals
- 3b -
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

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Nobis Group</u>	SDG No.: <u>Q2639</u>
Contract: <u>NOBI03</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Nobis Group</u>	SDG No.: <u>Q2639</u>
Contract: <u>NOBI03</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Nobis Group</u>	SDG No.: <u>Q2639</u>
Contract: <u>NOBI03</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2639</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2651-01</u>	client id: <u>MH 2-1MSD</u>
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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2639</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2689-01</u>	client id: <u>OR-03-07232025MS</u>
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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2639</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2689-01</u>	client id: <u>OR-03-07232025MSD</u>
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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>Nobis Group</u>	SDG No.: <u>Q2639</u>	
Contract: <u>NOBI03</u>	Lab Code: <u>ACE</u>	
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>MH 2-1A</u>
Sample ID: <u>Q2651-01</u>	Spiked ID: <u>Q2651-01A</u>	

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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>Nobis Group</u>	SDG No.: <u>Q2639</u>	
Contract: <u>NOBI03</u>	Lab Code: <u>ACE</u>	
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>OR-03-07232025A</u>
Sample ID: <u>Q2689-01</u>	Spiked ID: <u>Q2689-01A</u>	

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

Metals

- 6 -

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 $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Nobis Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2639</u>
Contract:	<u>NOBI03</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2651-01MS</u>	Client ID:	<u>MH 2-1MSD</u>
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 $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Nobis Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2639</u>
Contract:	<u>NOBI03</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2689-01</u>	Client ID:	<u>OR-03-07232025DUP</u>
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 $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Nobis Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2639</u>
Contract:	<u>NOBI03</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2689-01MS</u>	Client ID:	<u>OR-03-07232025MSD</u>
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 $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>Nobis Group</u>	SDG No.:	<u>Q2639</u>
Contract:	<u>NOBI03</u>	Lab Code:	<u>ACE</u>

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

Metals

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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

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)		Serial Dilution Result (S)		% Differ-ence	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

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	% Differ- ence	Q	M
Mercury	0.032	0.053 J	62		CV



METAL PREPARATION & INSTRUMENT DATA

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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:				
		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

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

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:				
		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

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:				
		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

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

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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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

metals
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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

metals
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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

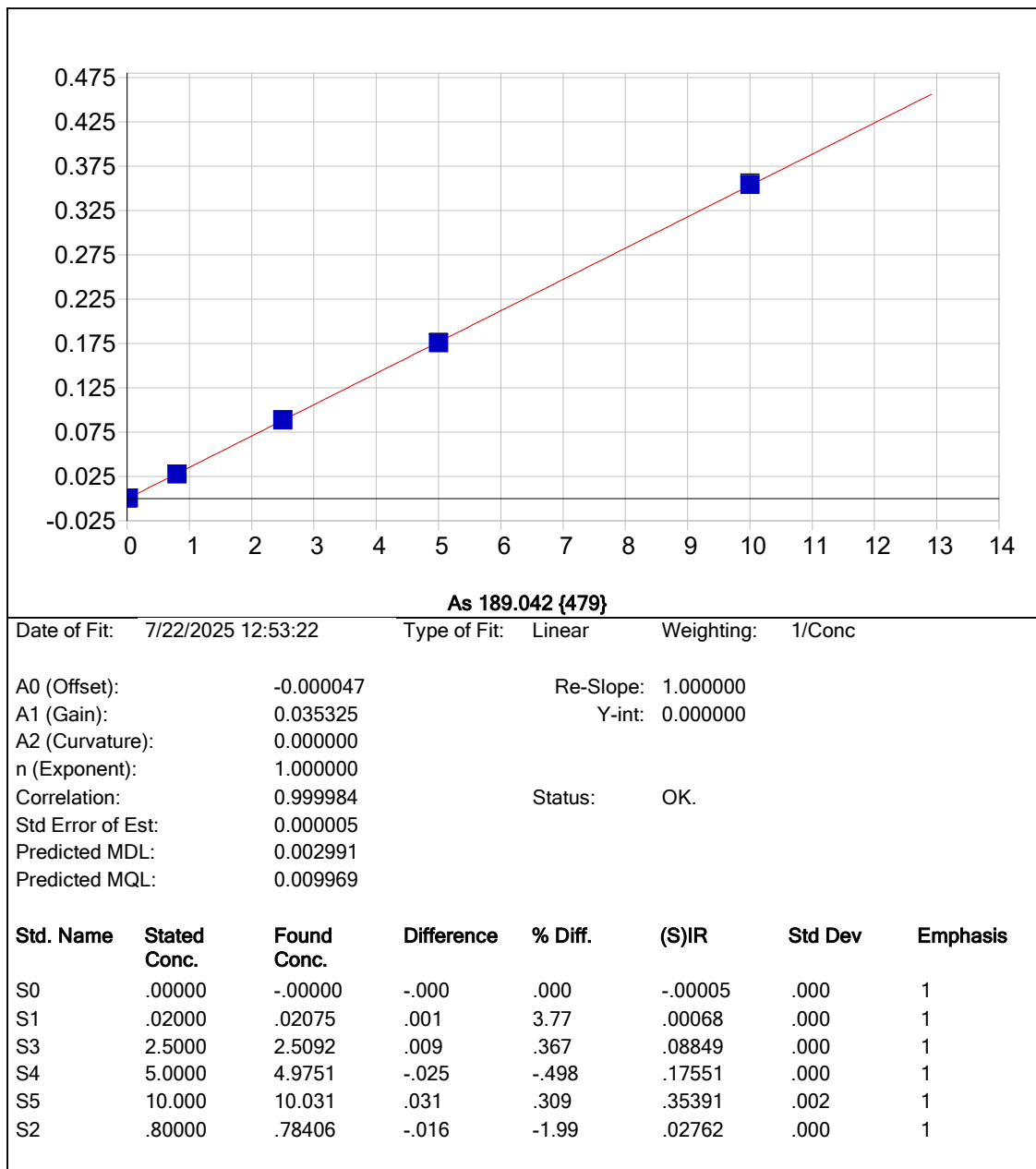
End date: 07/25/2025

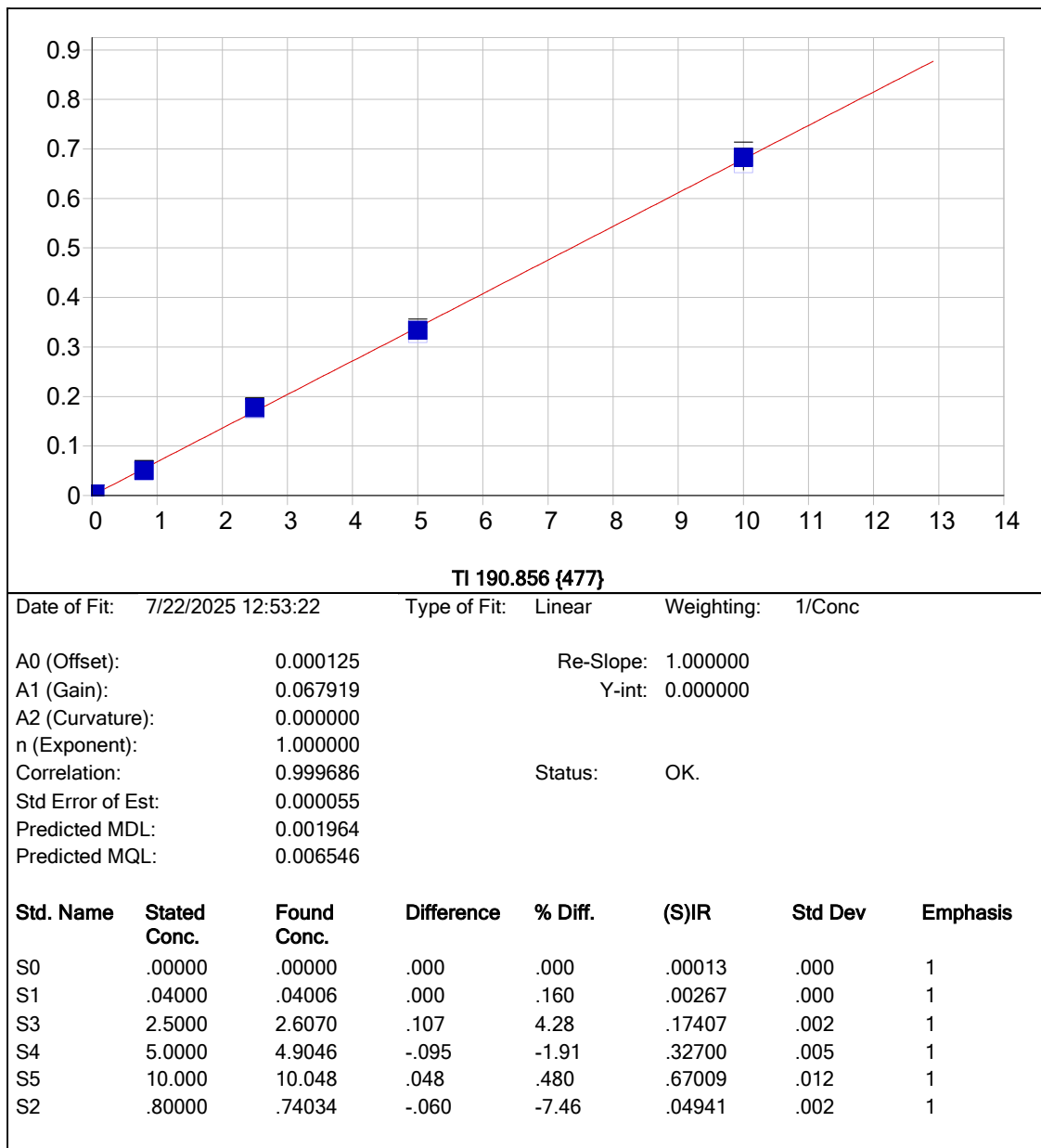
Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	HG
S0.2	S0.2	1	1100	HG
S2.5	S2.5	1	1103	HG
S5	S5	1	1105	HG
S7.5	S7.5	1	1107	HG
S10	S10	1	1109	HG
ICV39	ICV39	1	1113	HG
ICB39	ICB39	1	1115	HG
CCV47	CCV47	1	1117	HG
CCB47	CCB47	1	1119	HG
CRA	CRA	1	1146	HG
PB169010BL	PB169010BL	1	1153	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

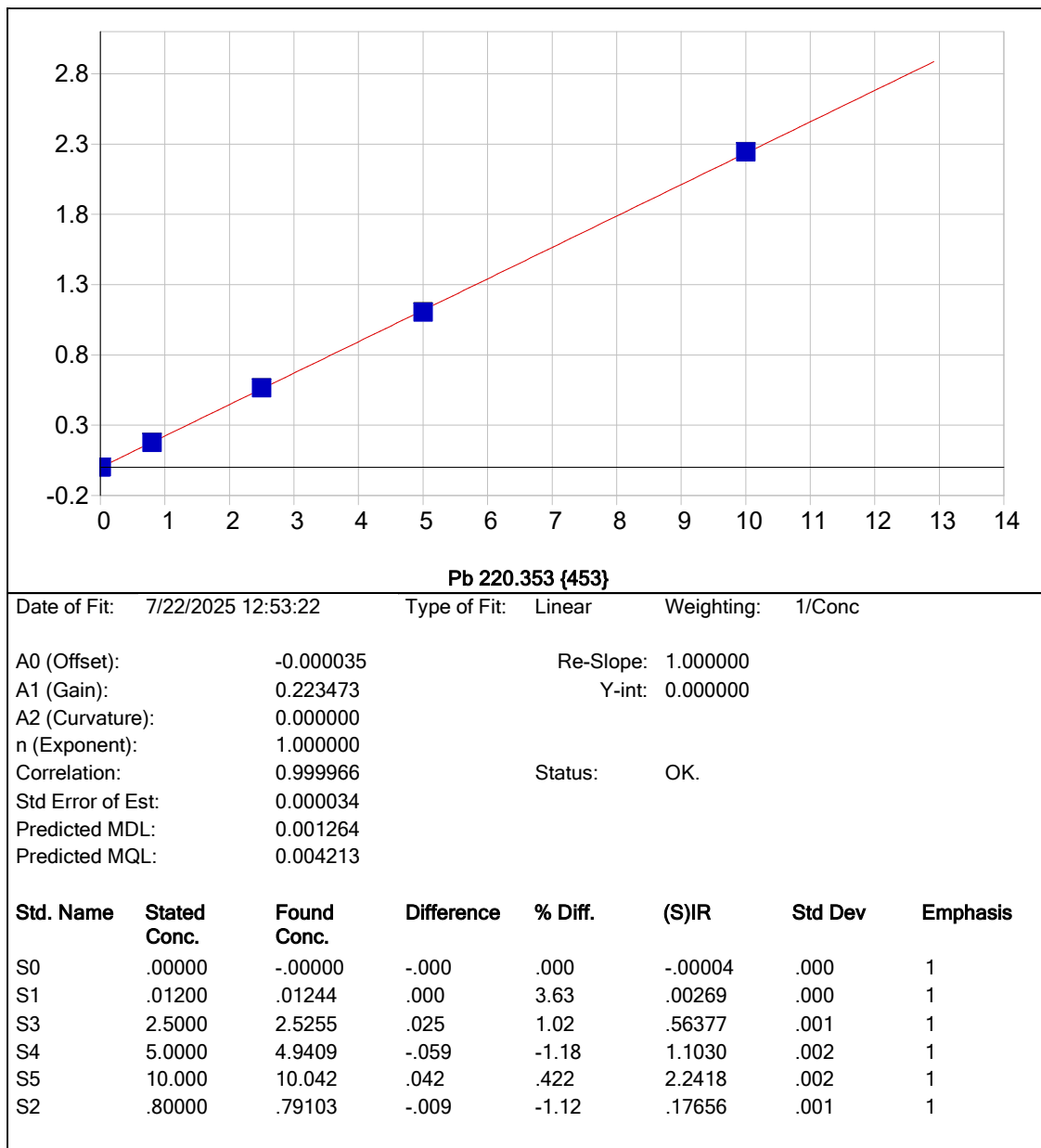


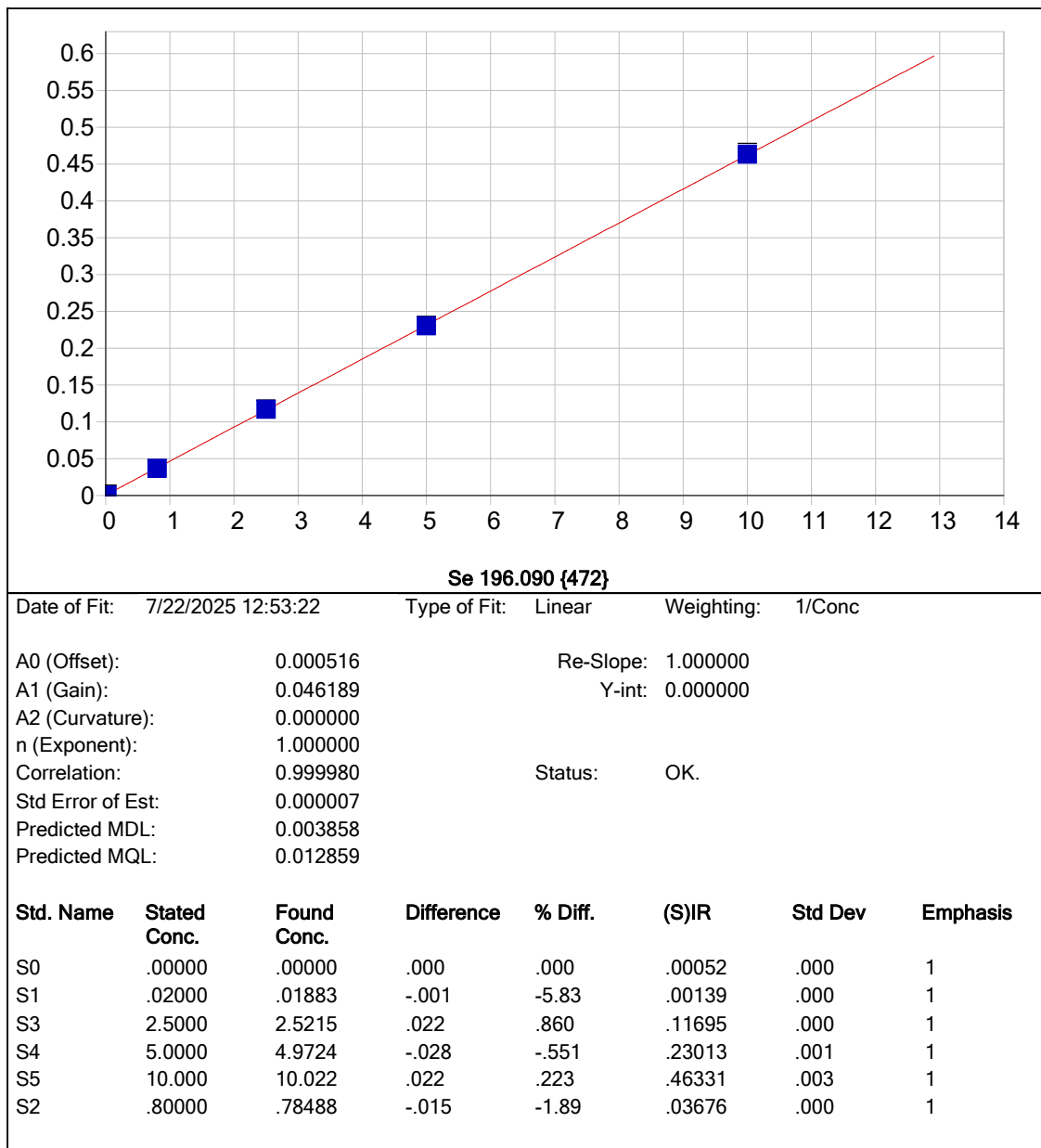
METAL RAW DATA

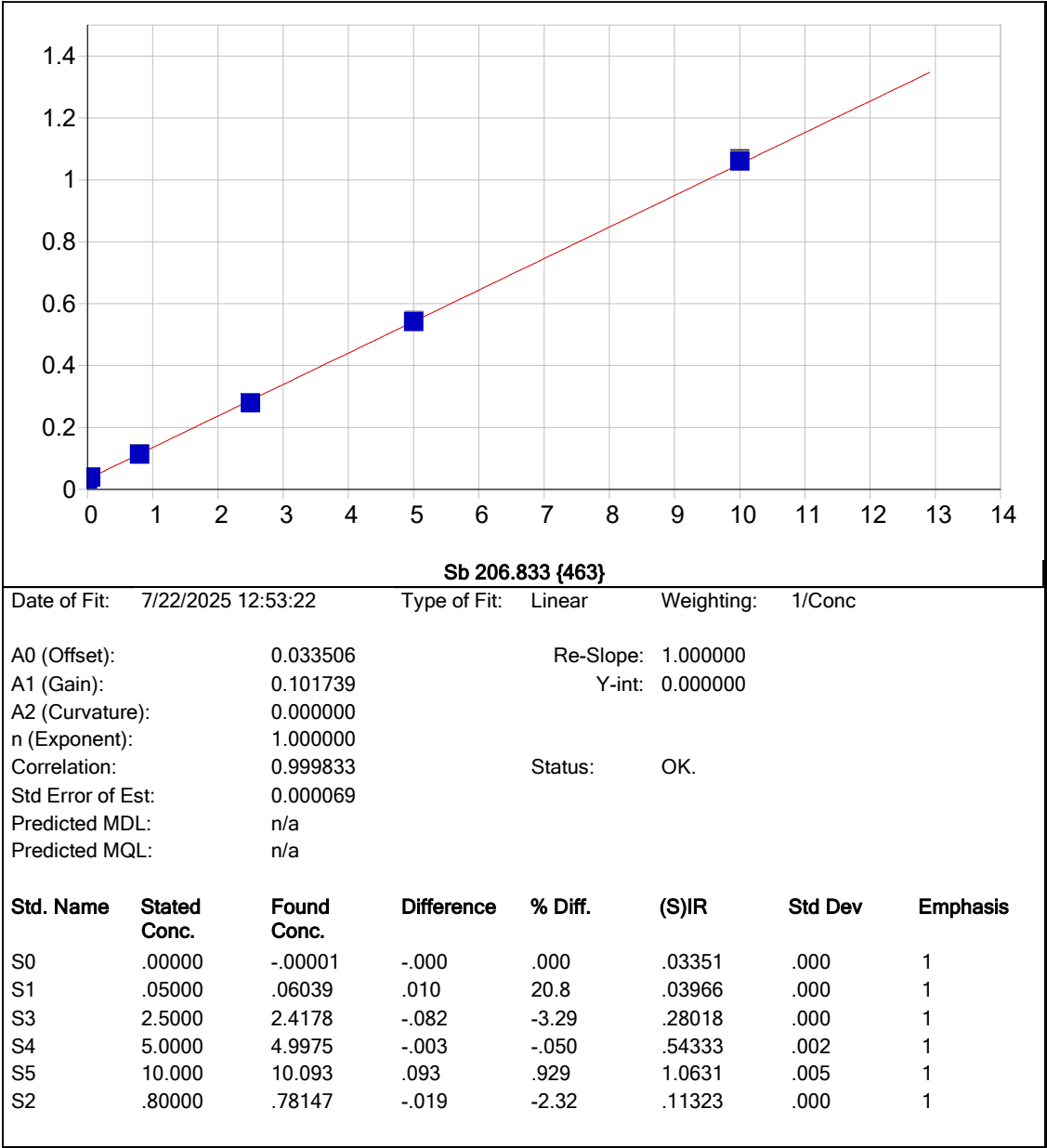
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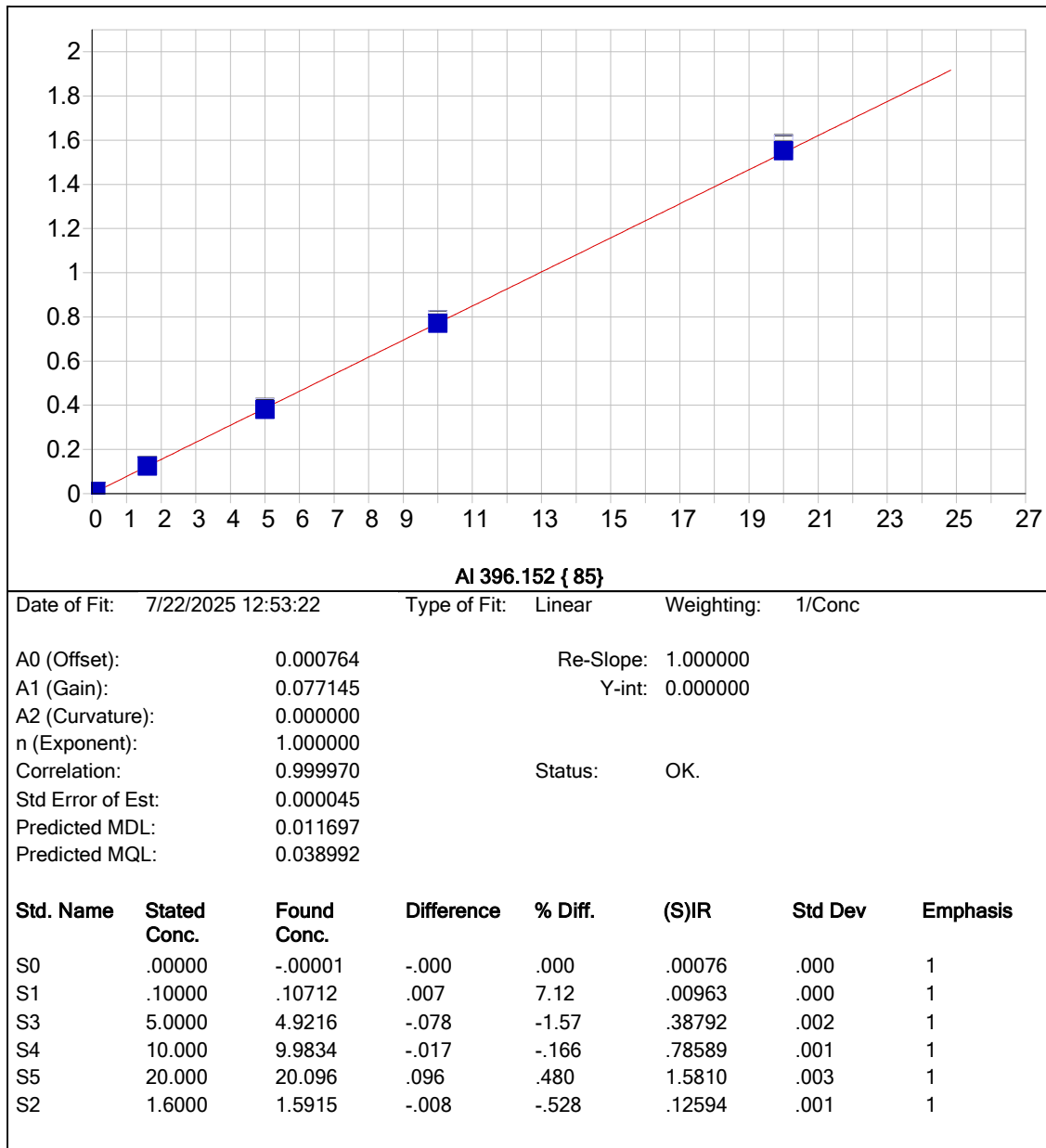


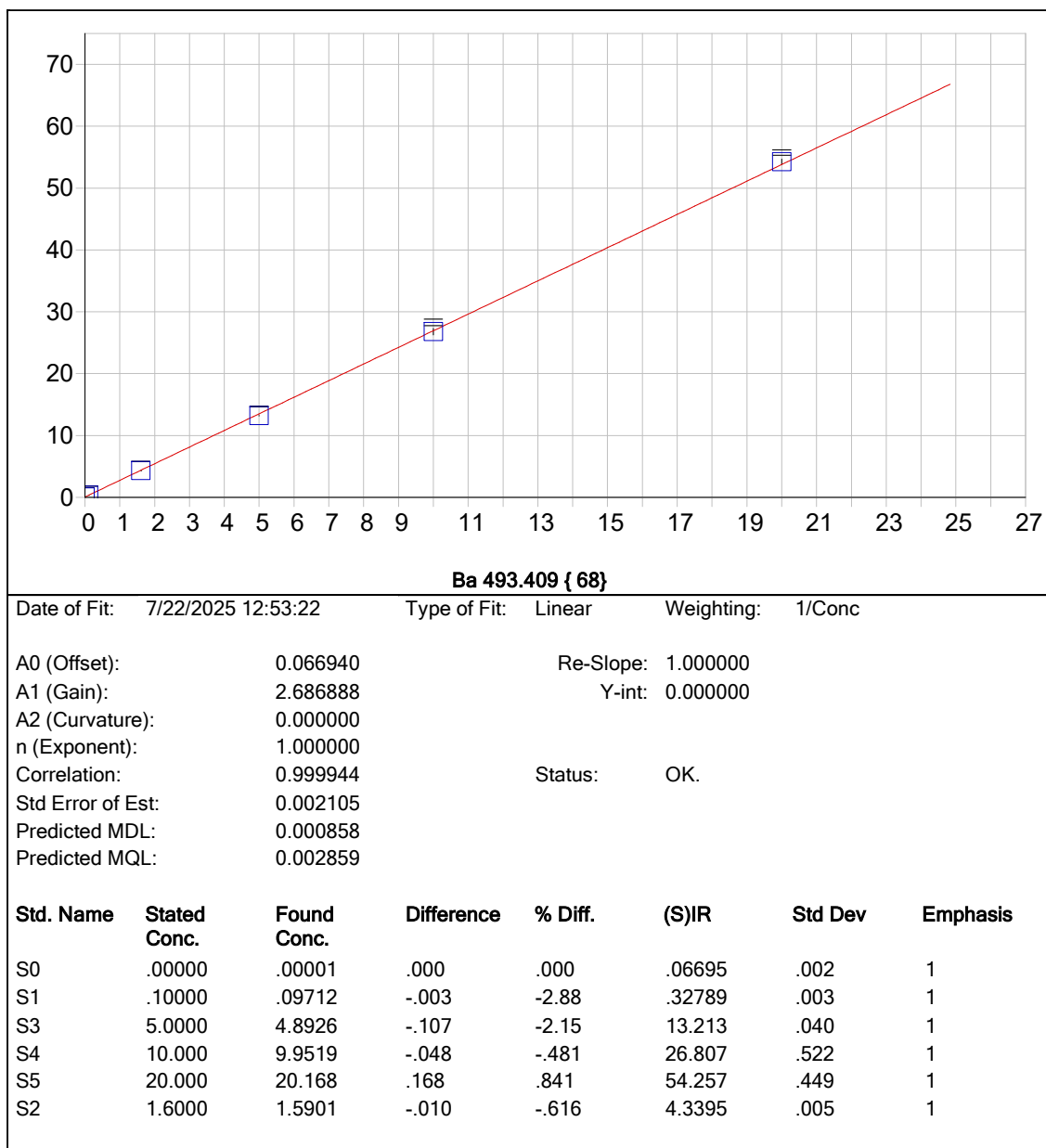


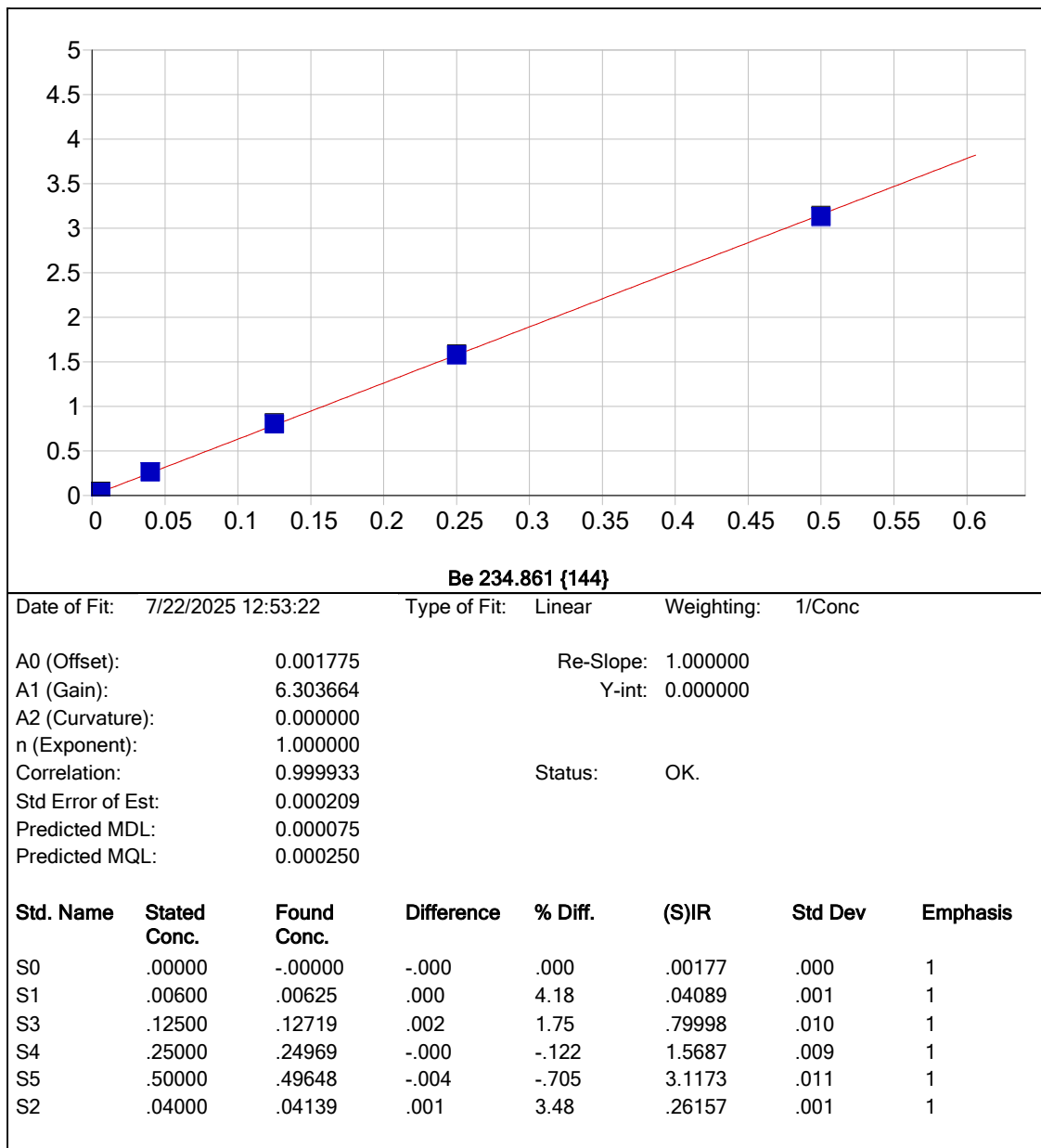


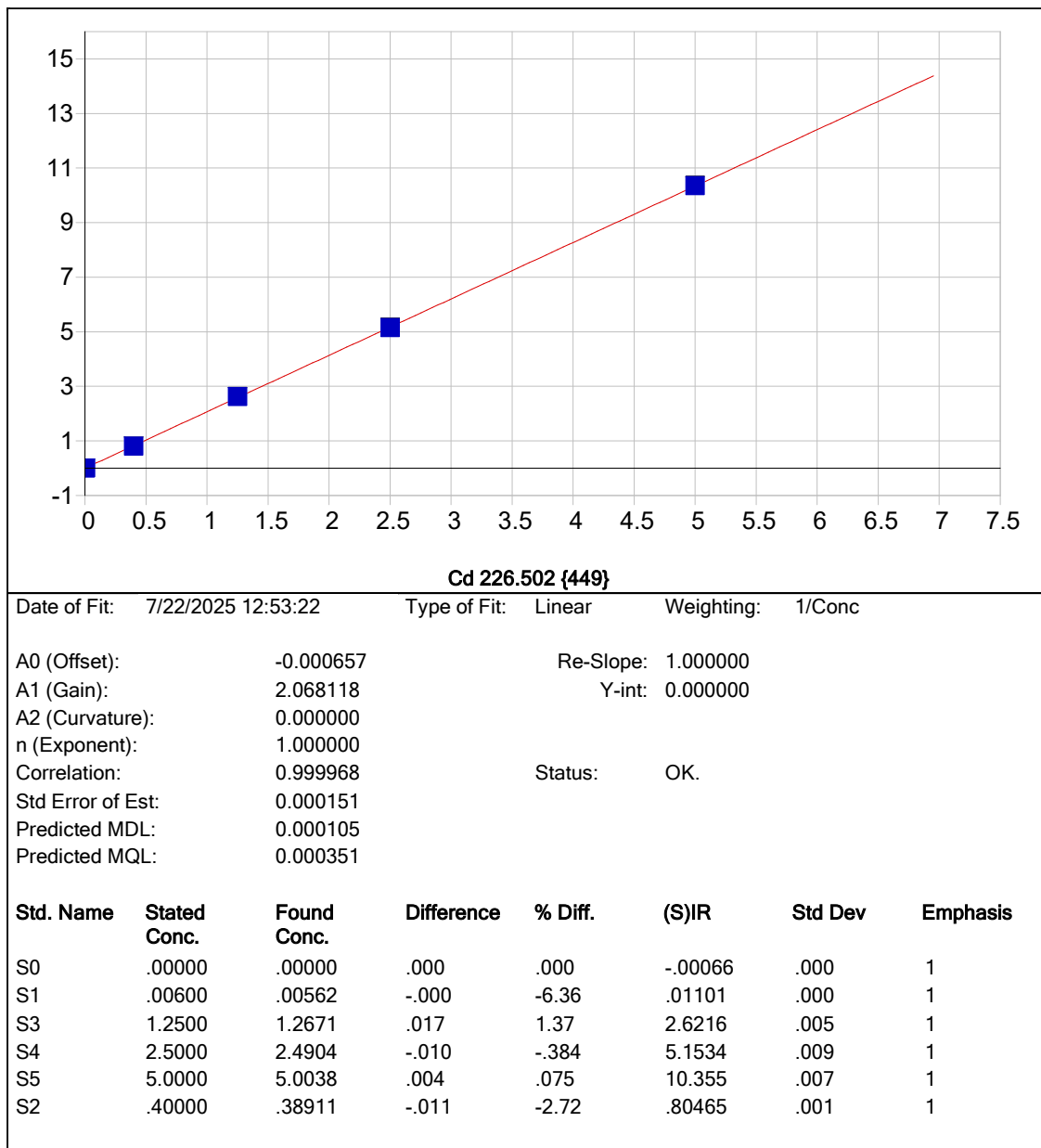


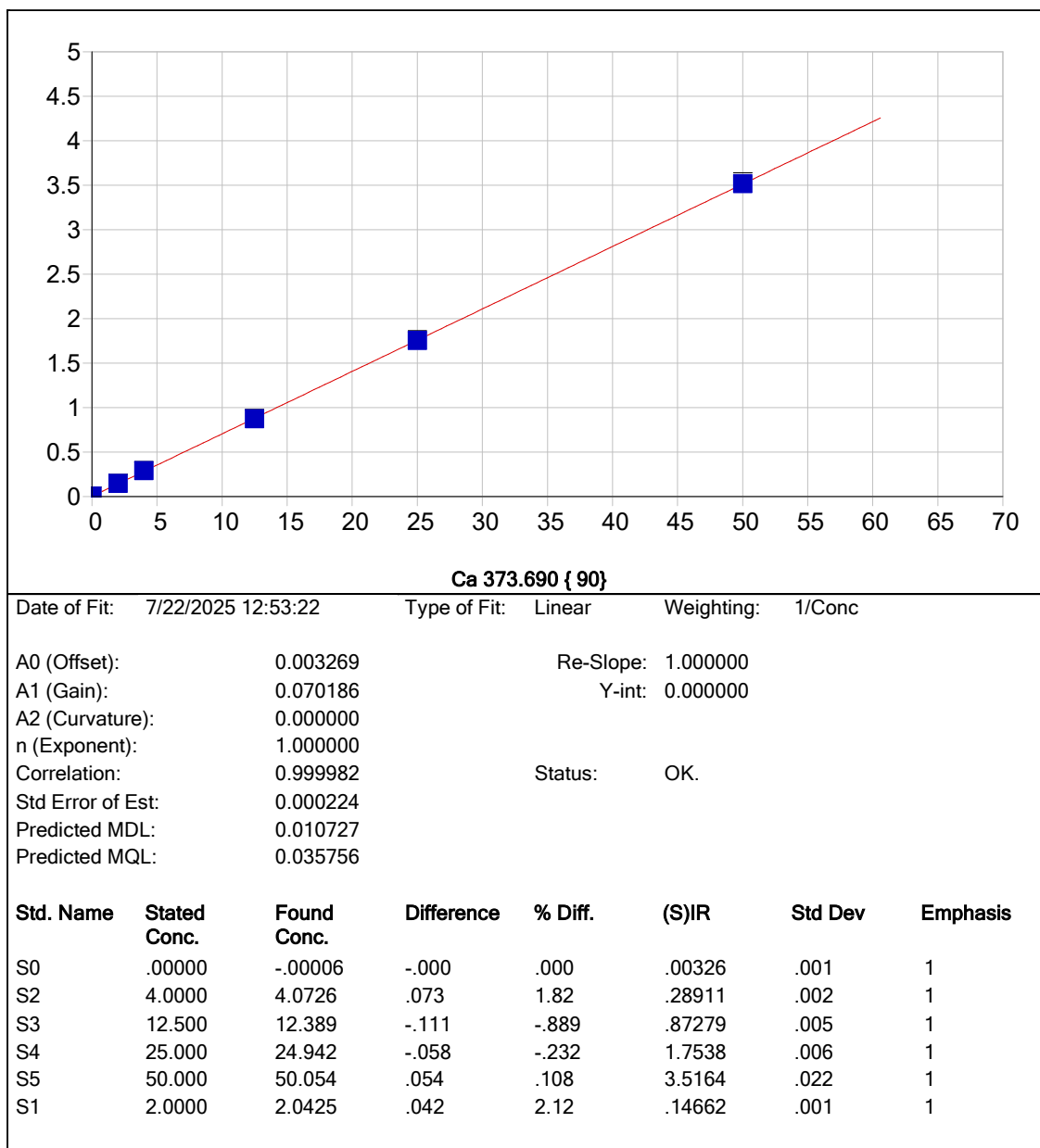


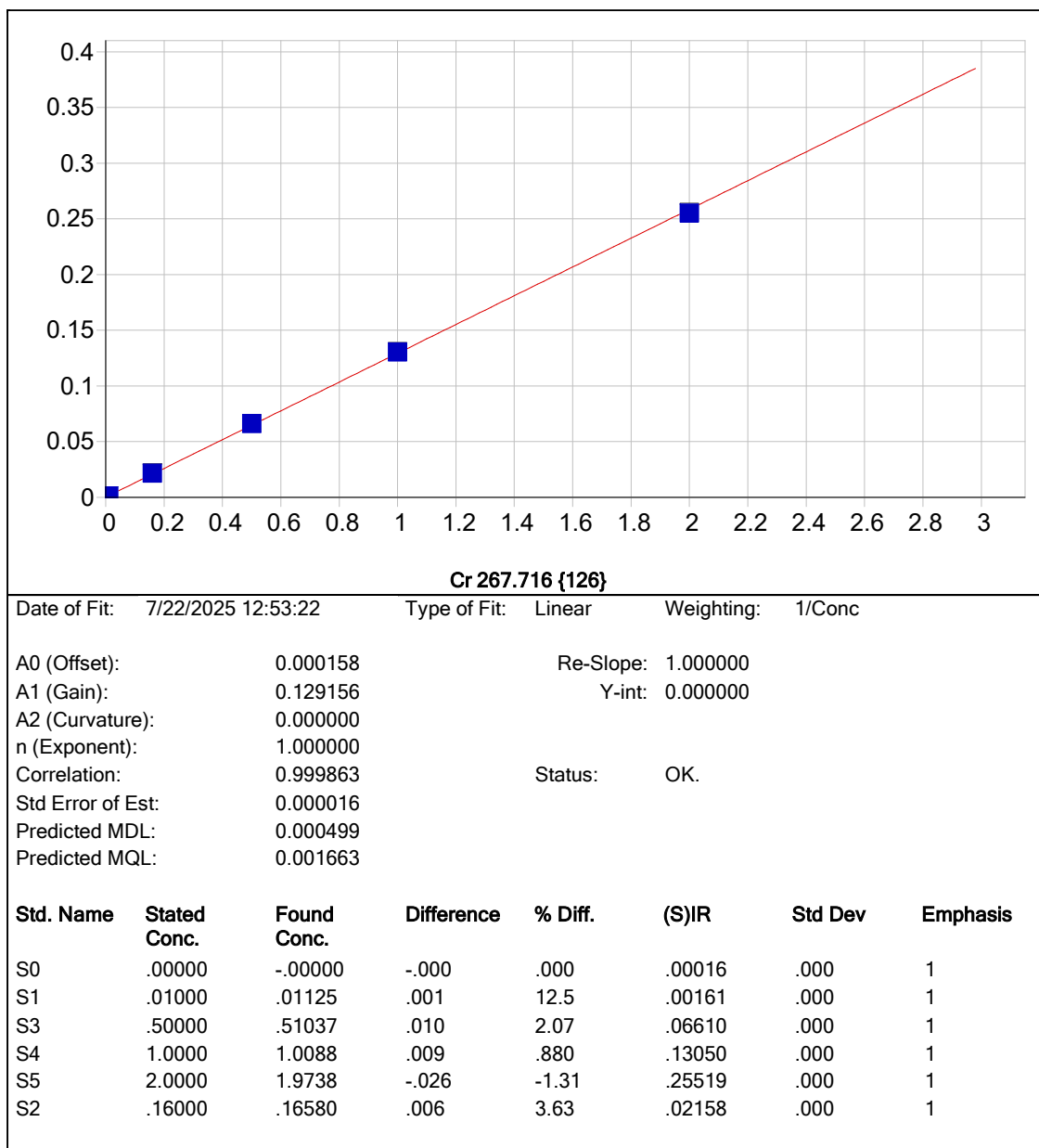


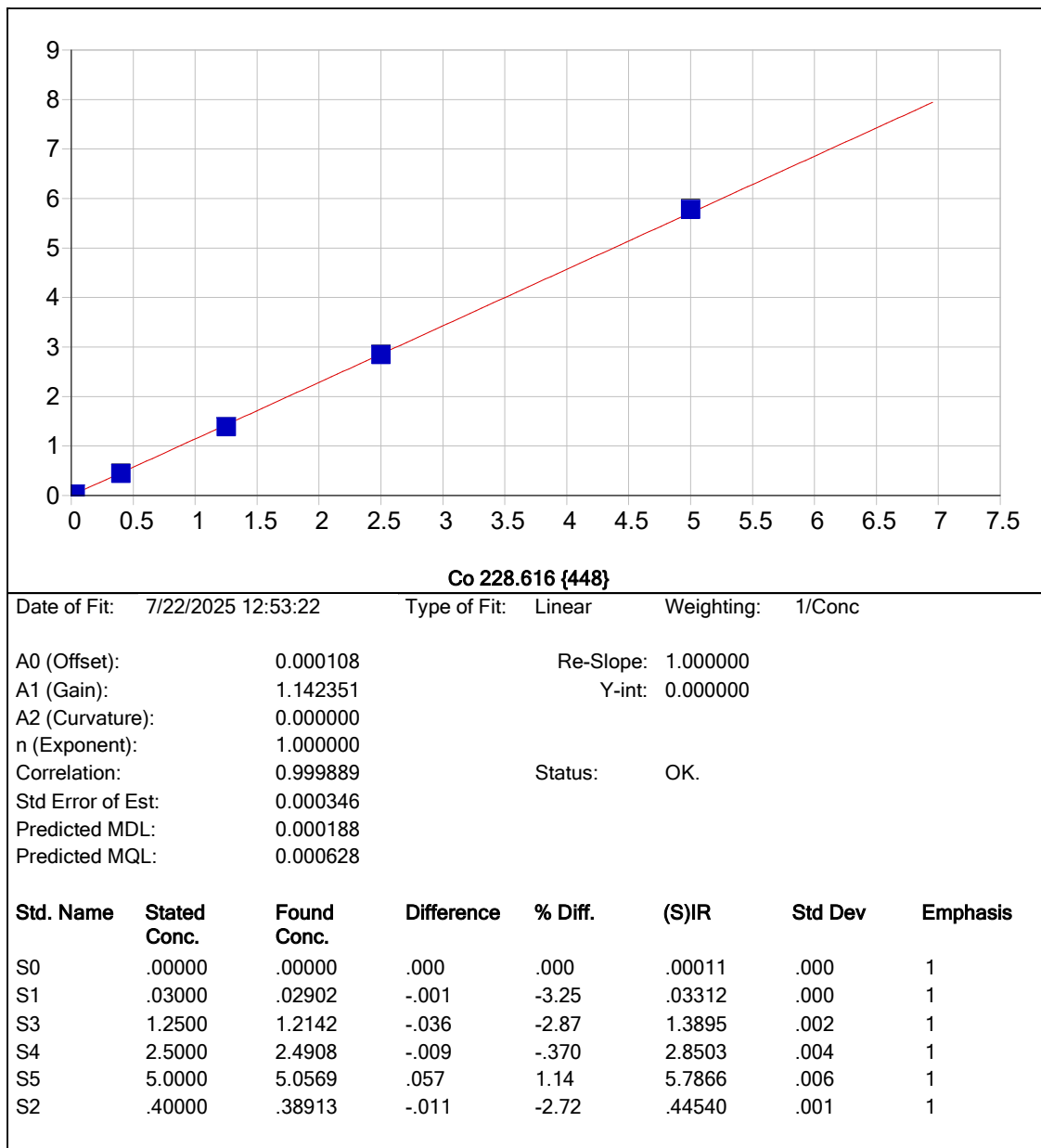


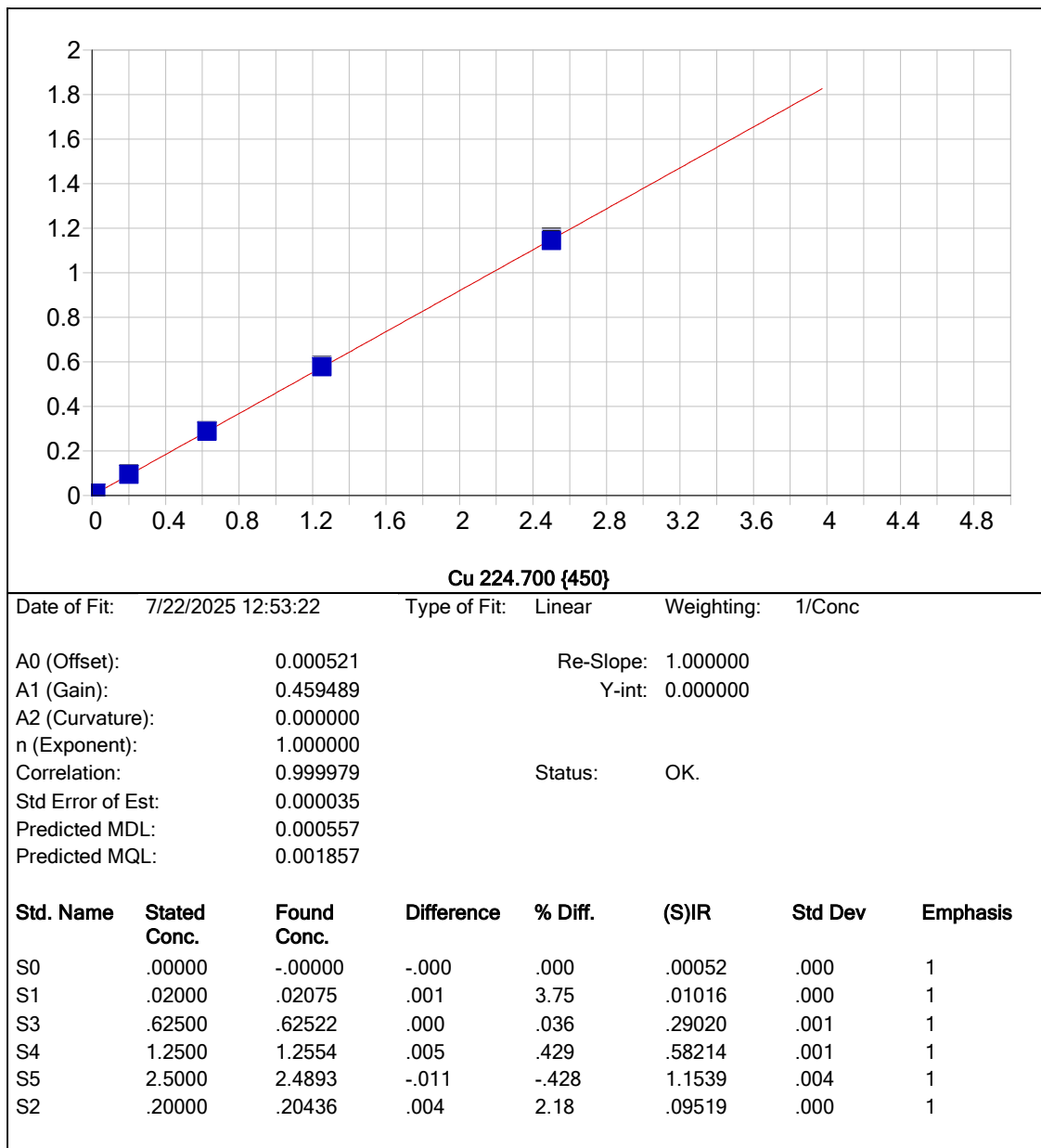


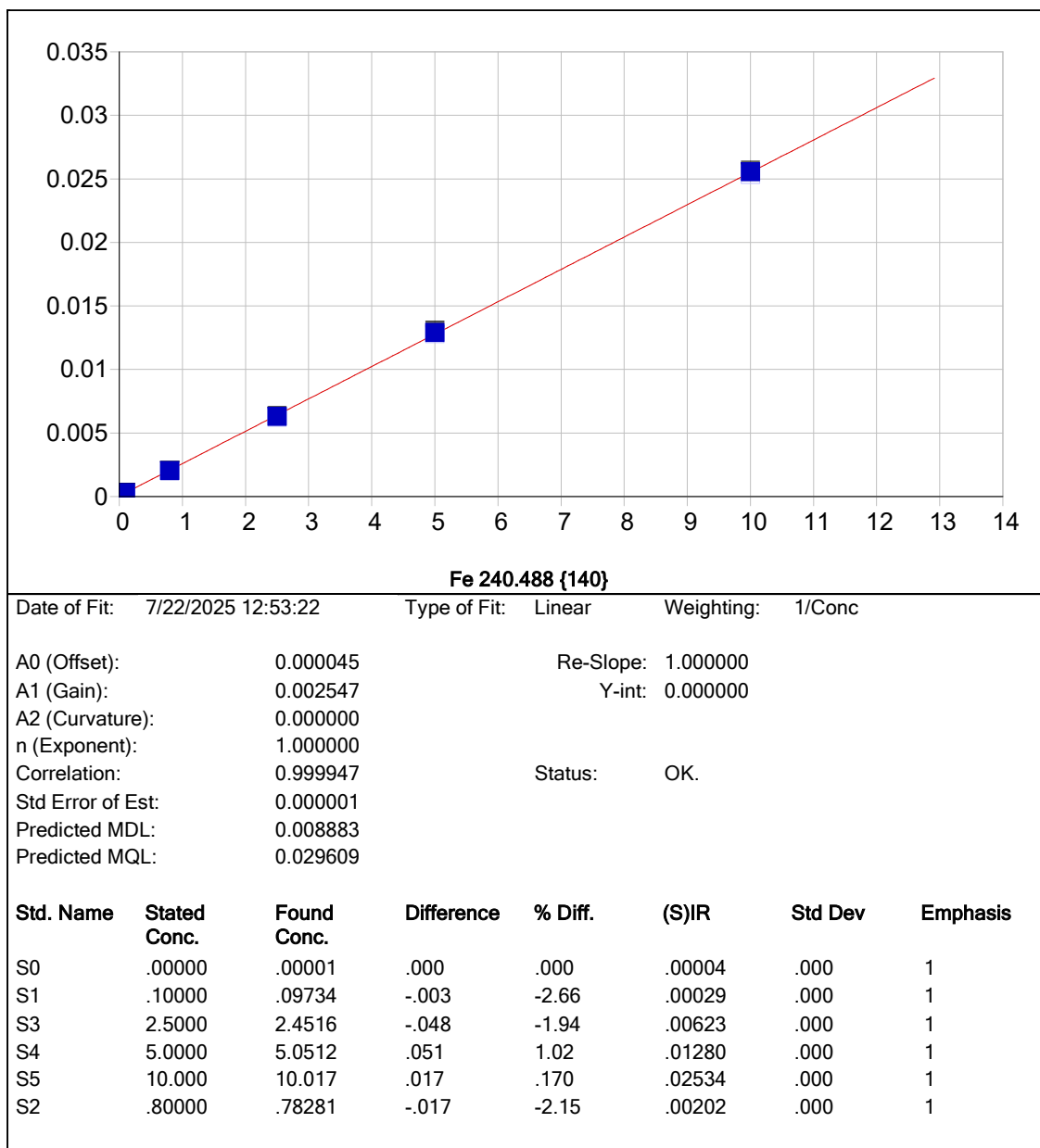


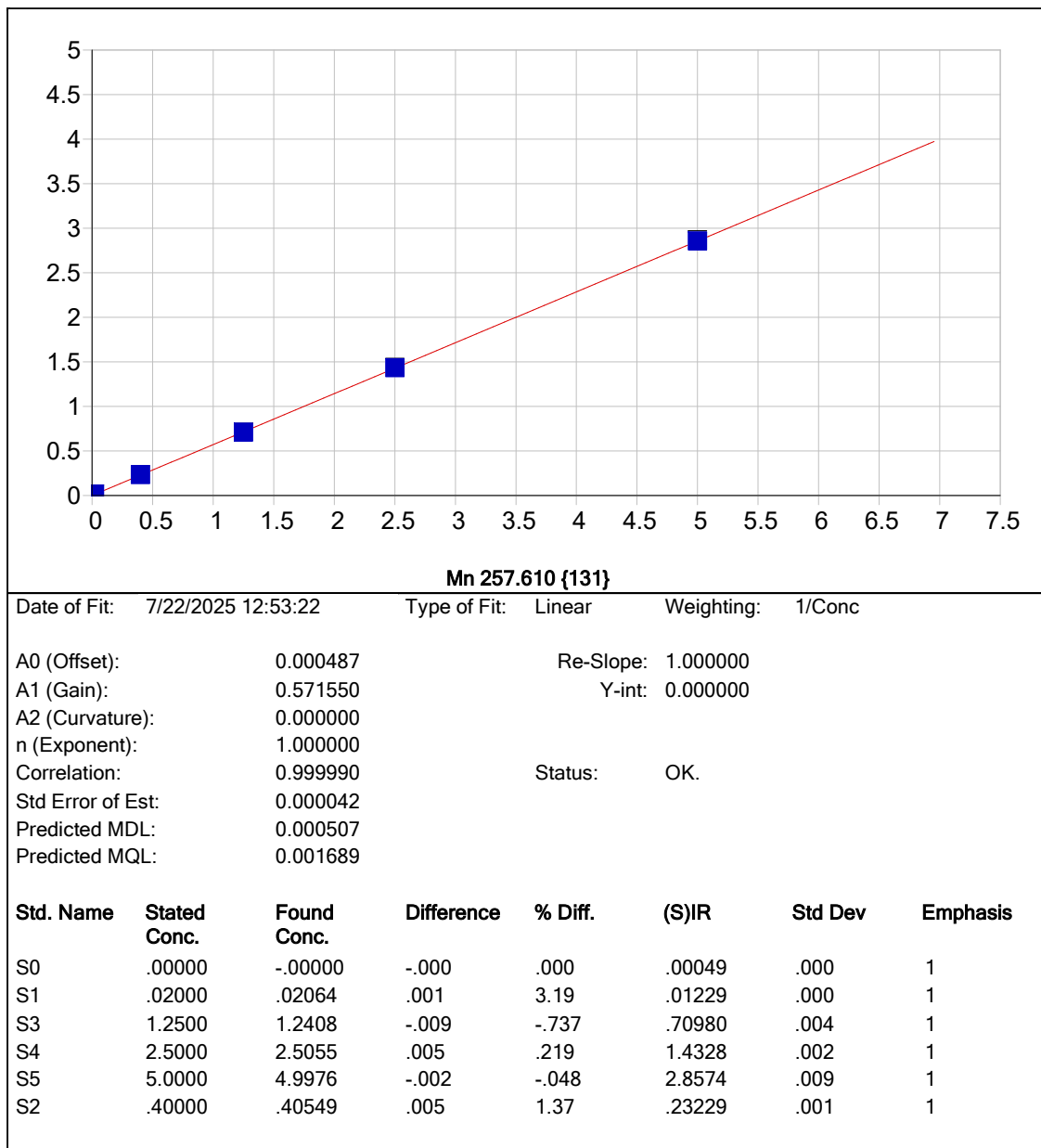


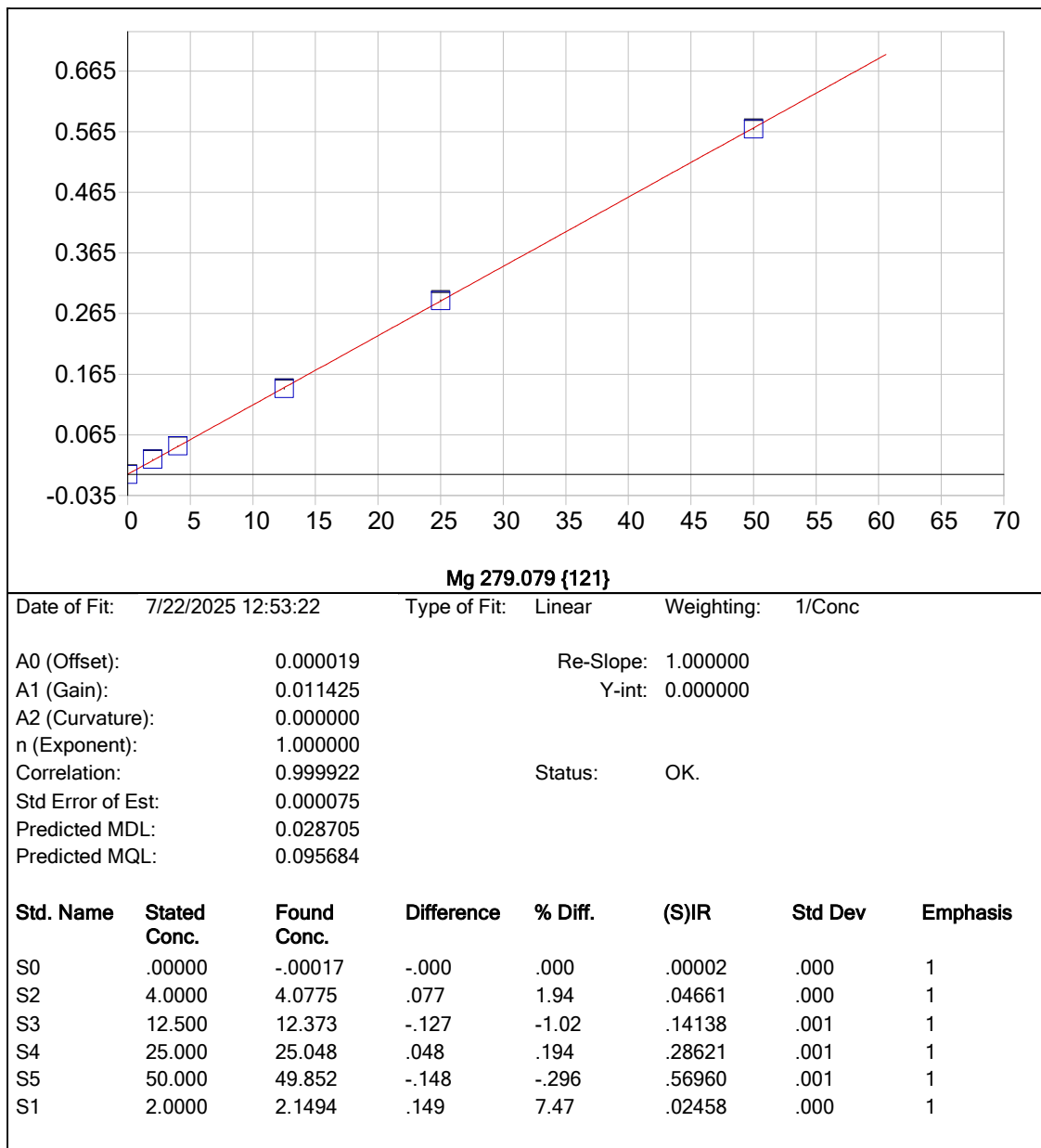


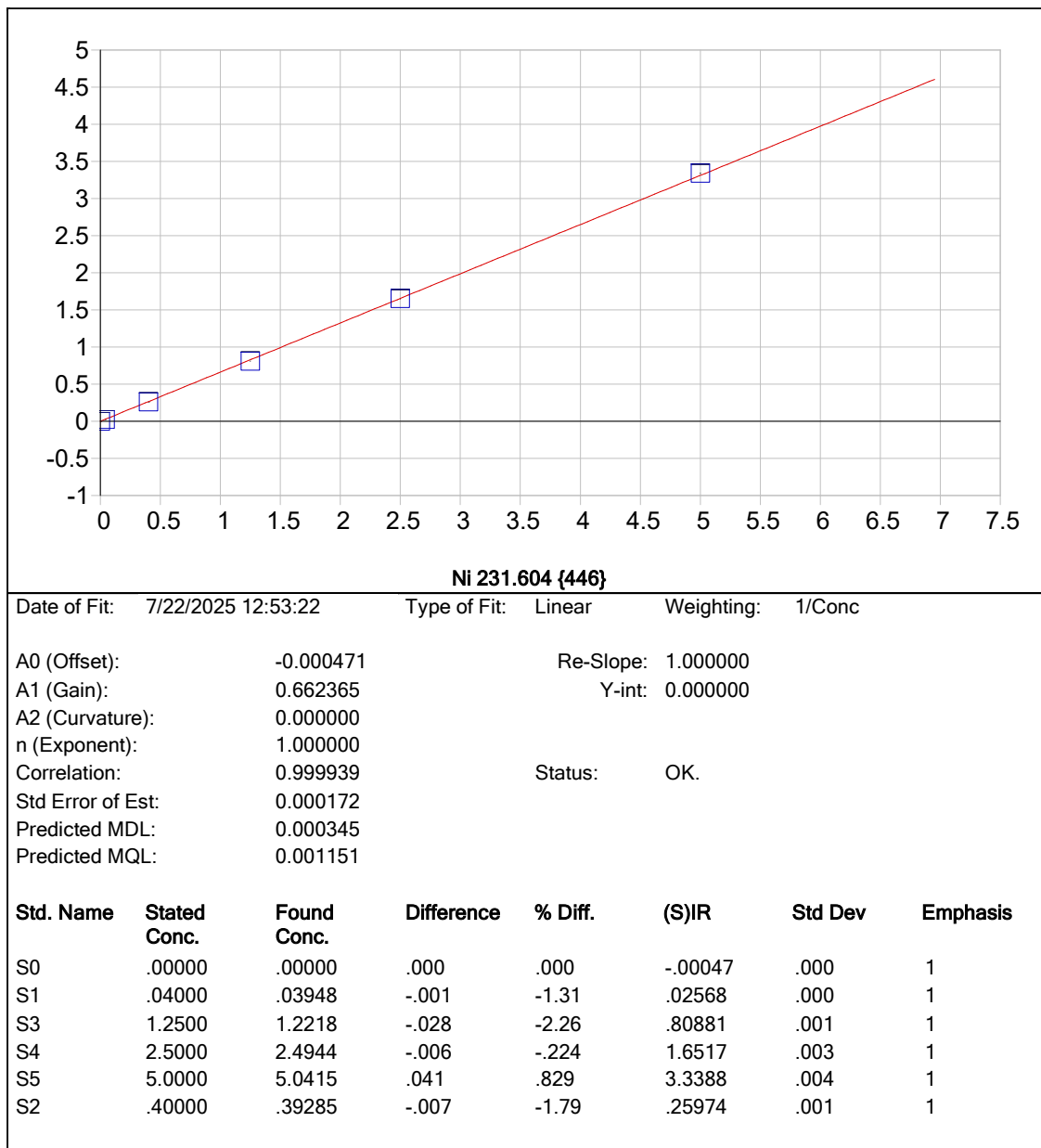


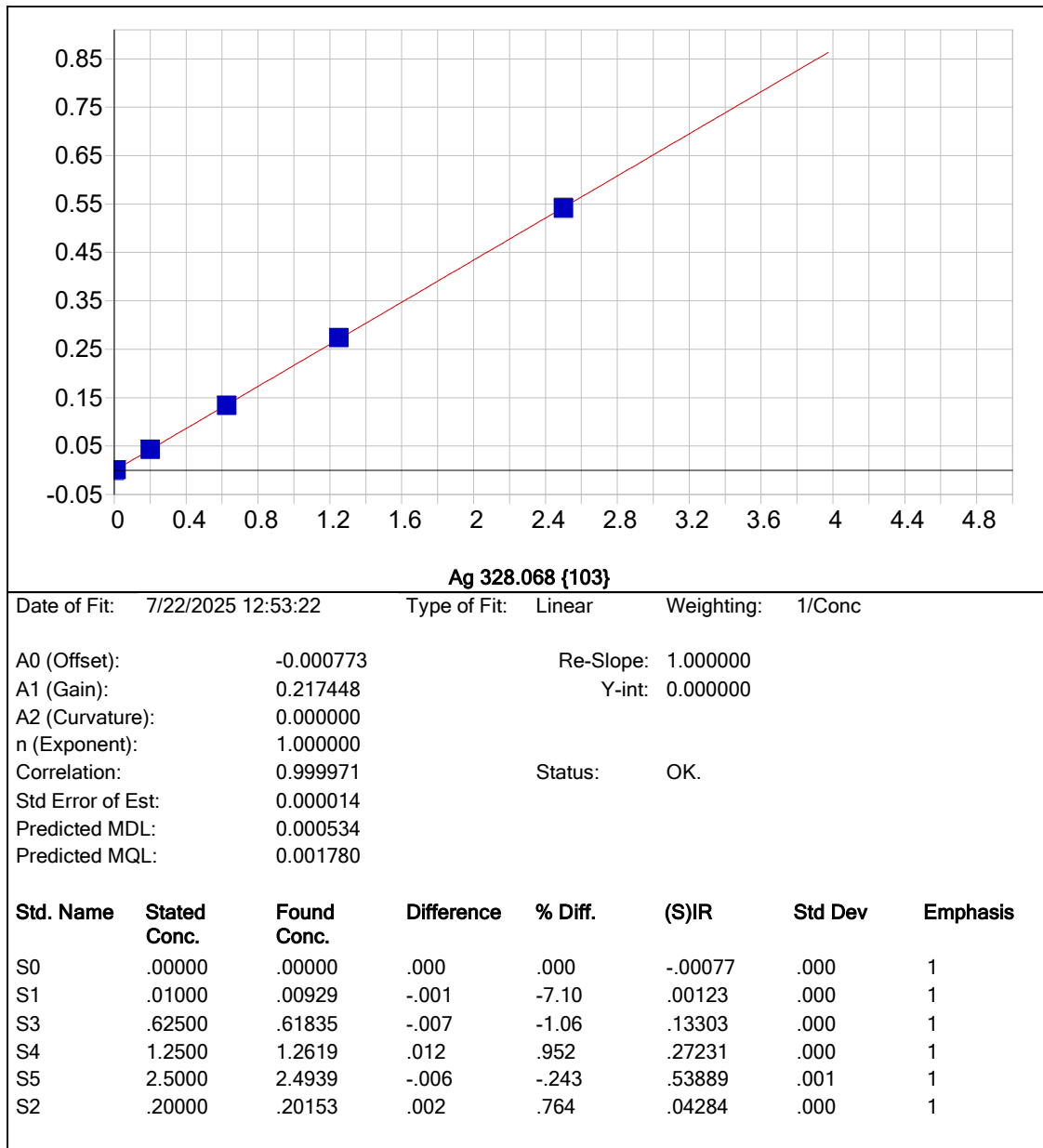


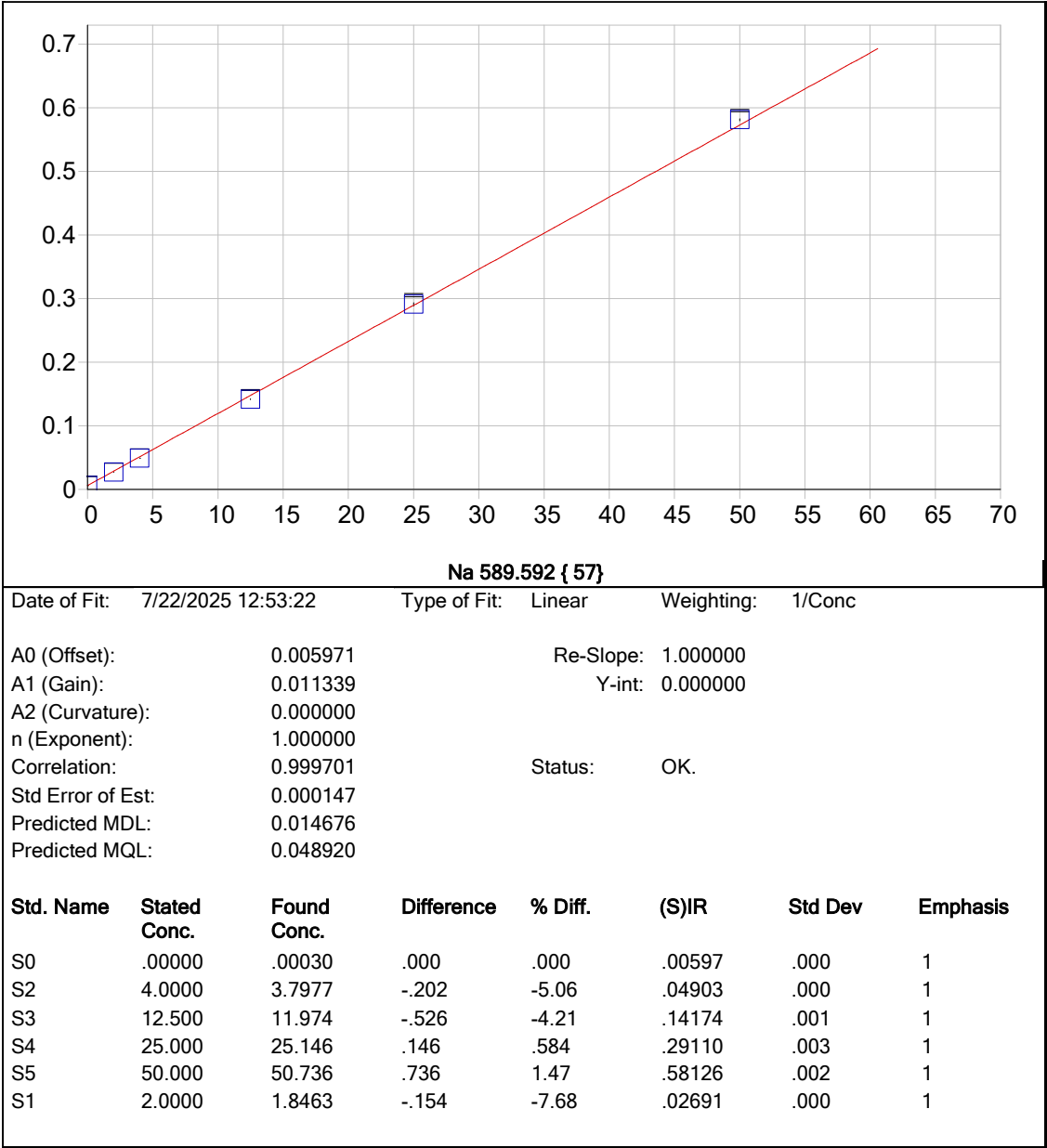


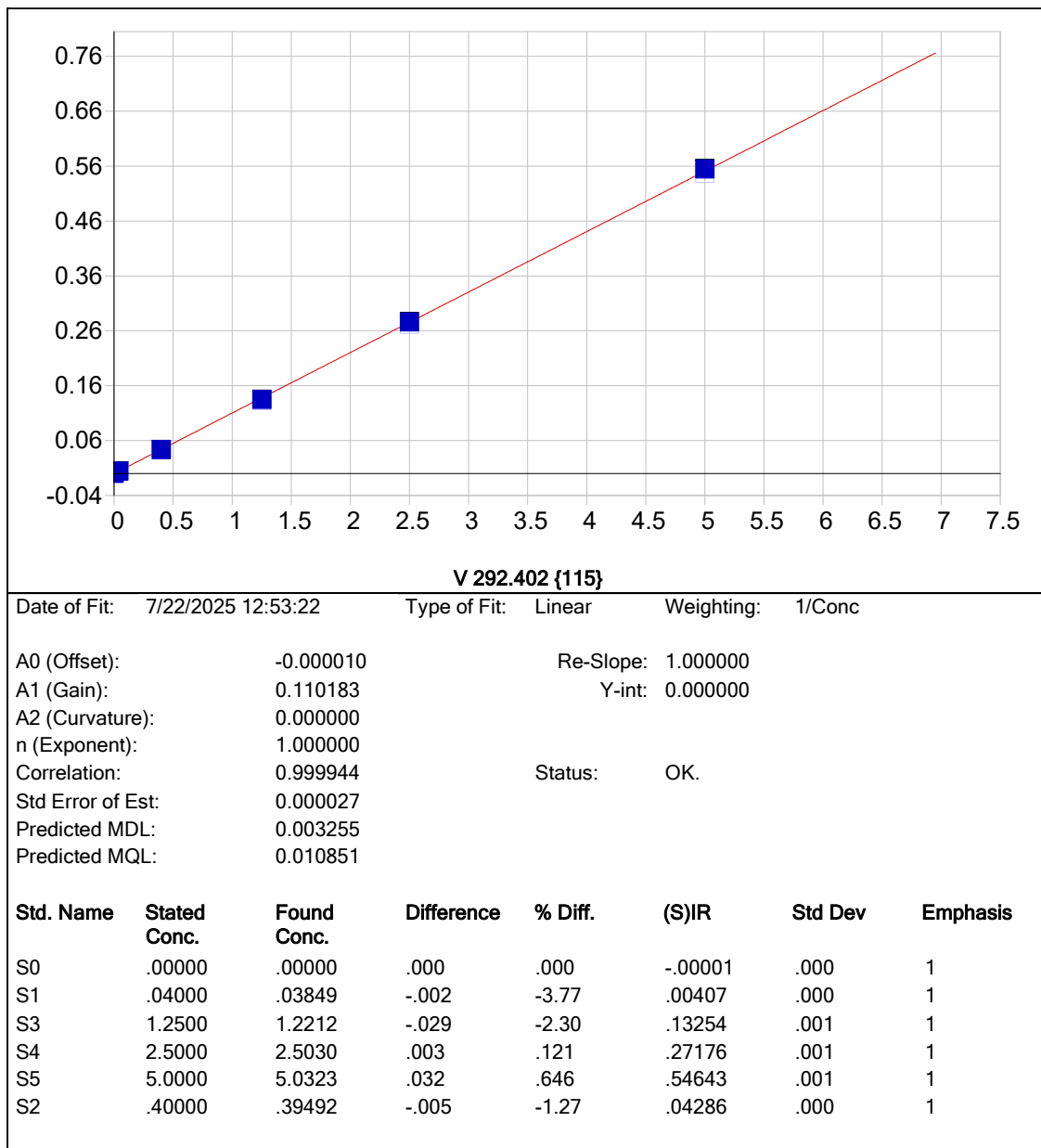


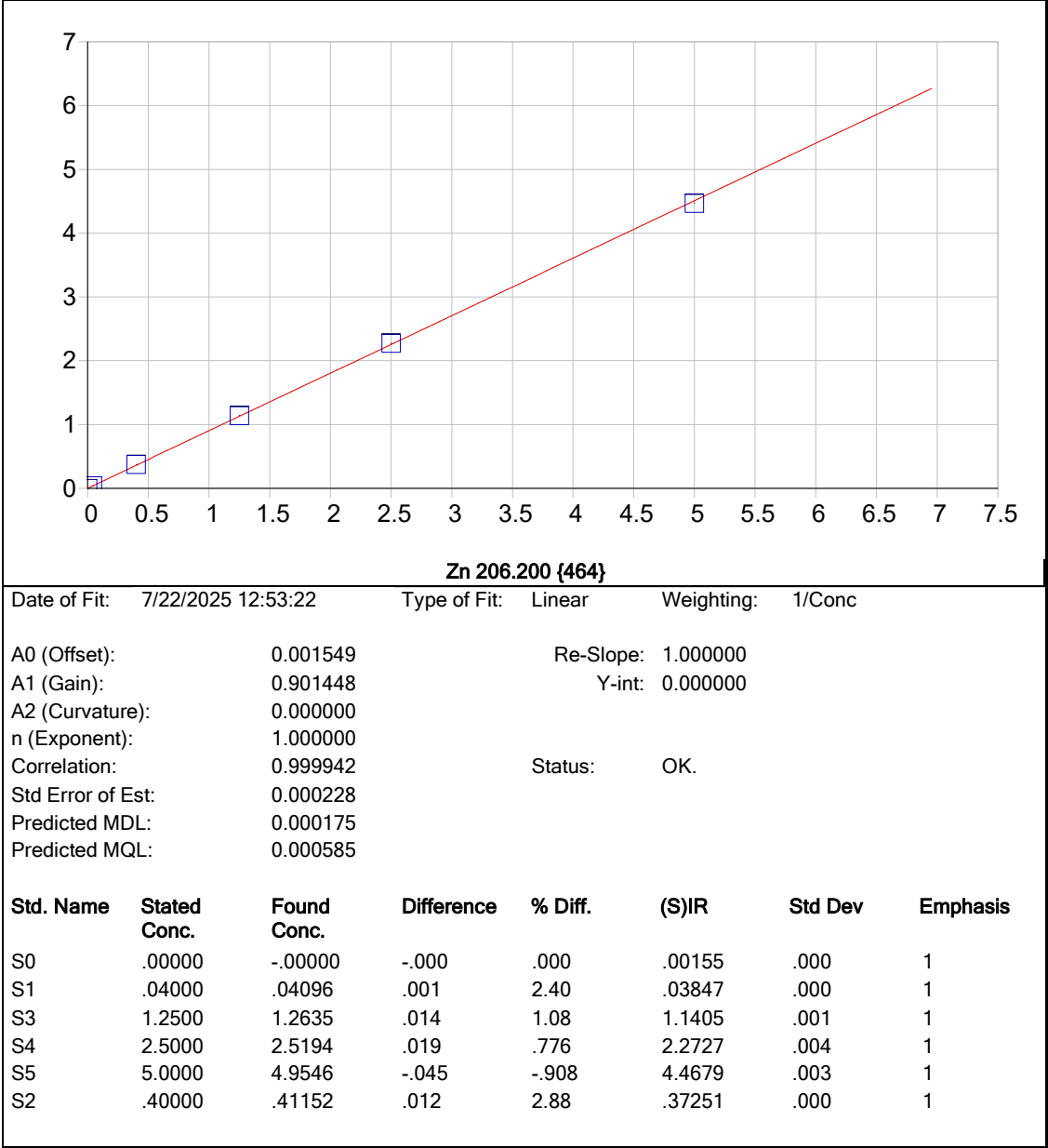


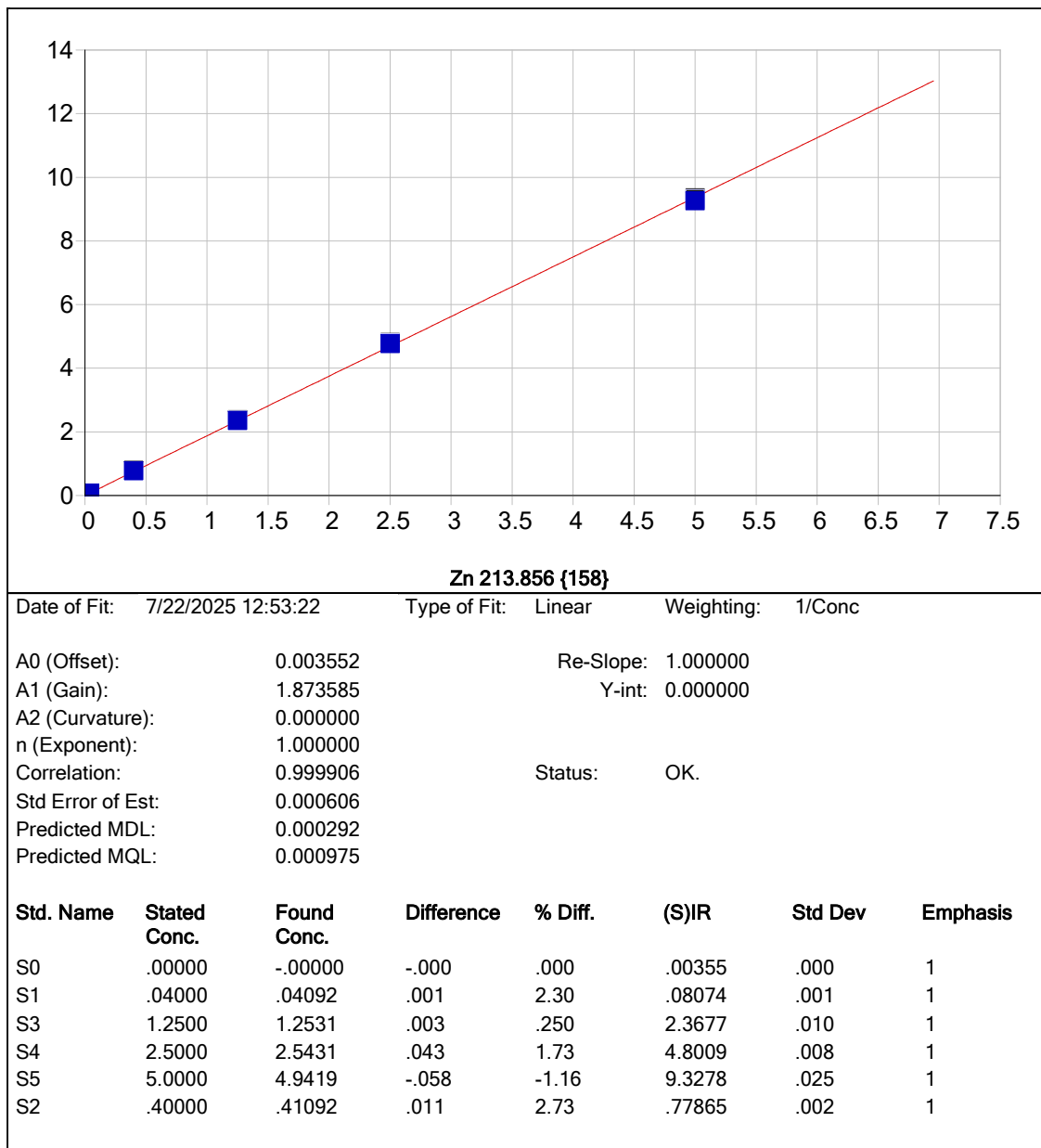


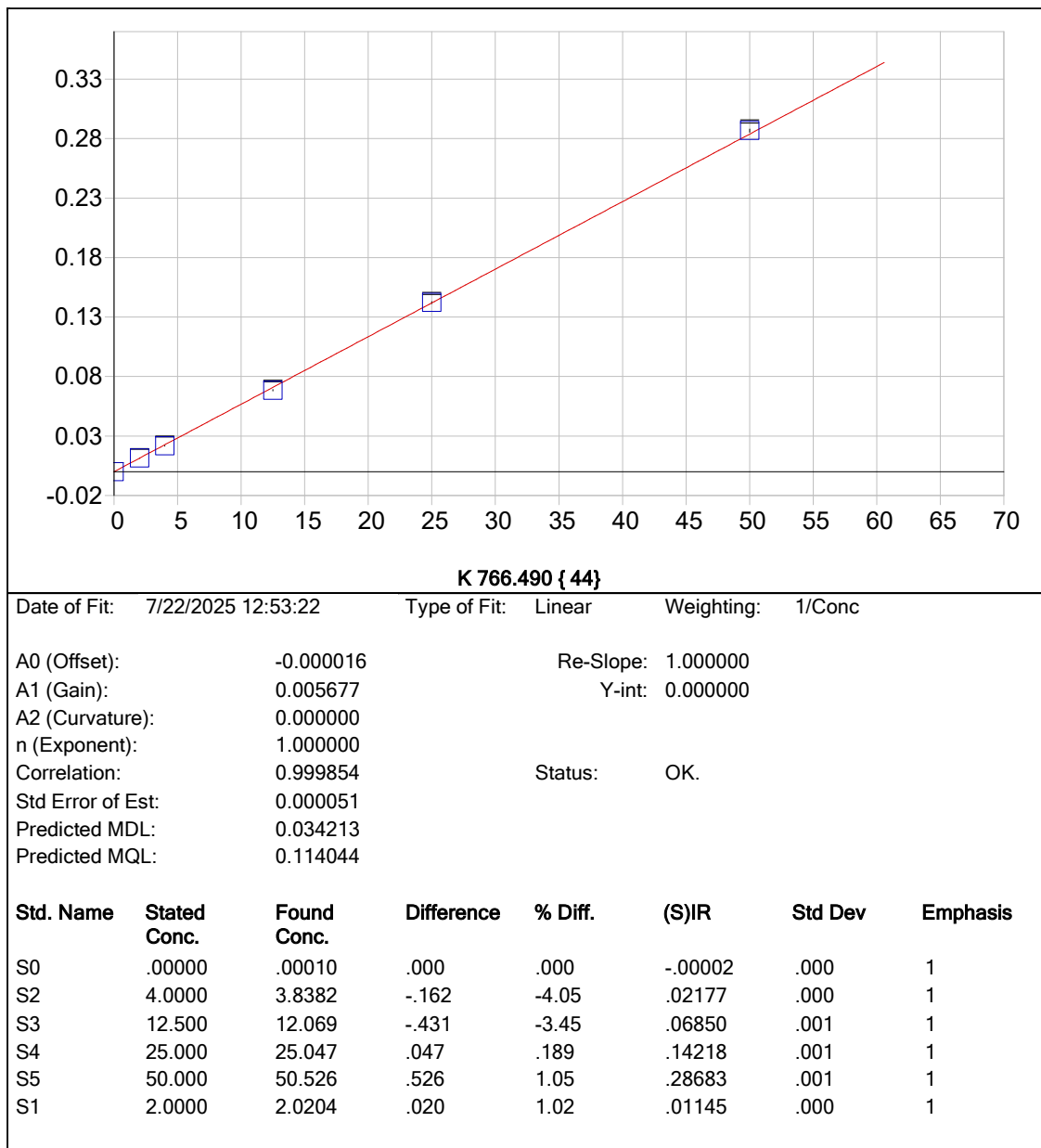


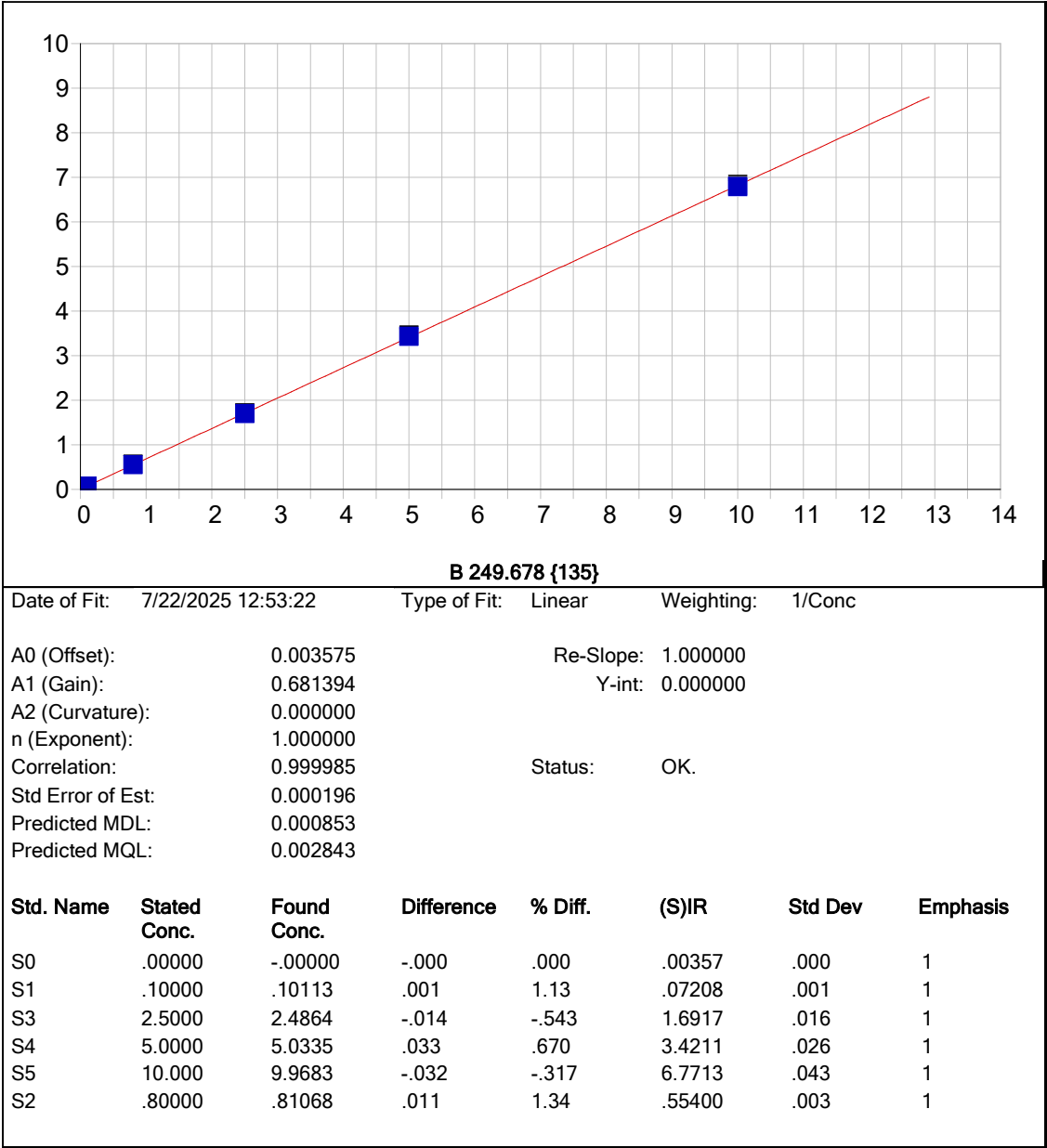


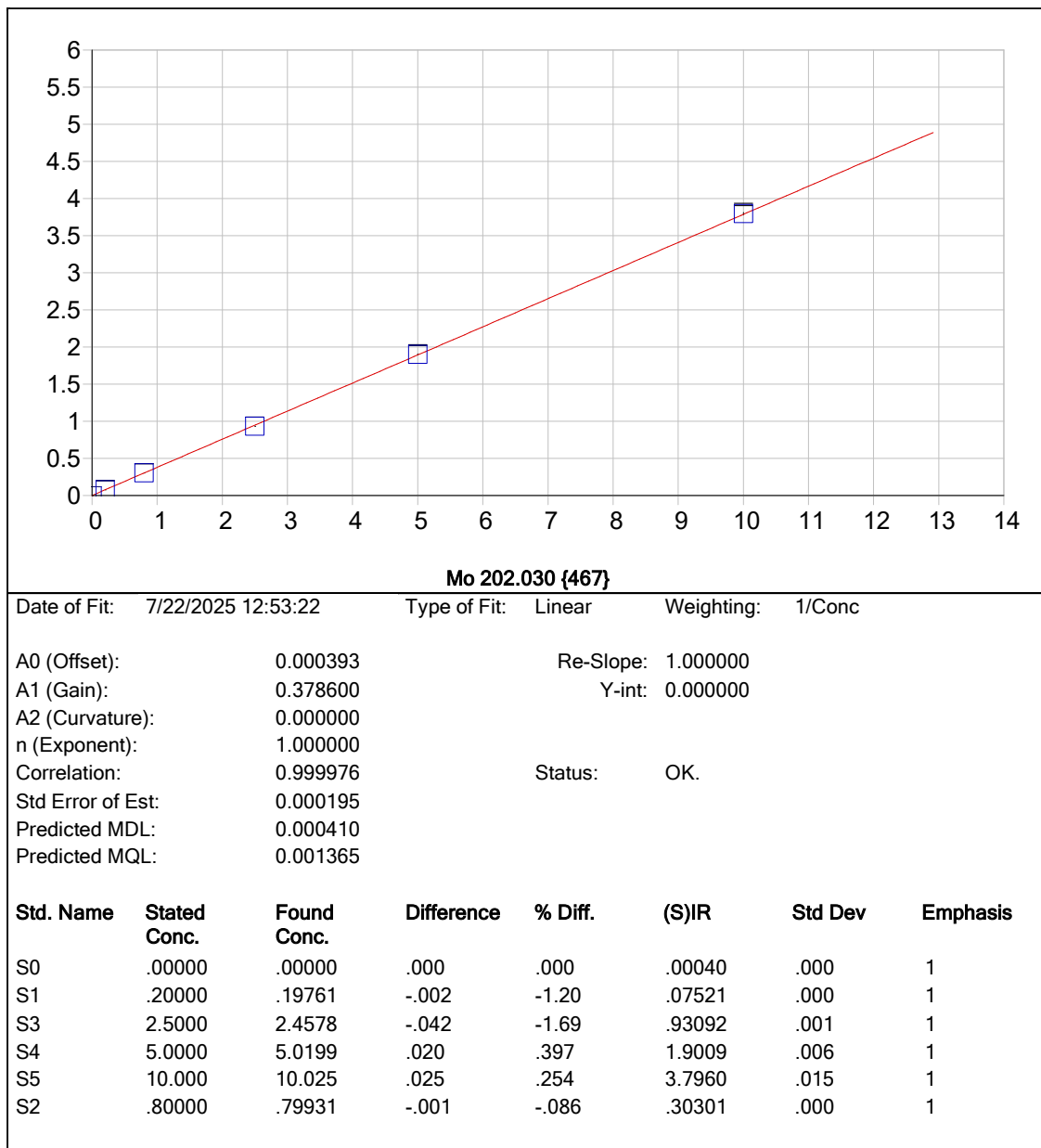


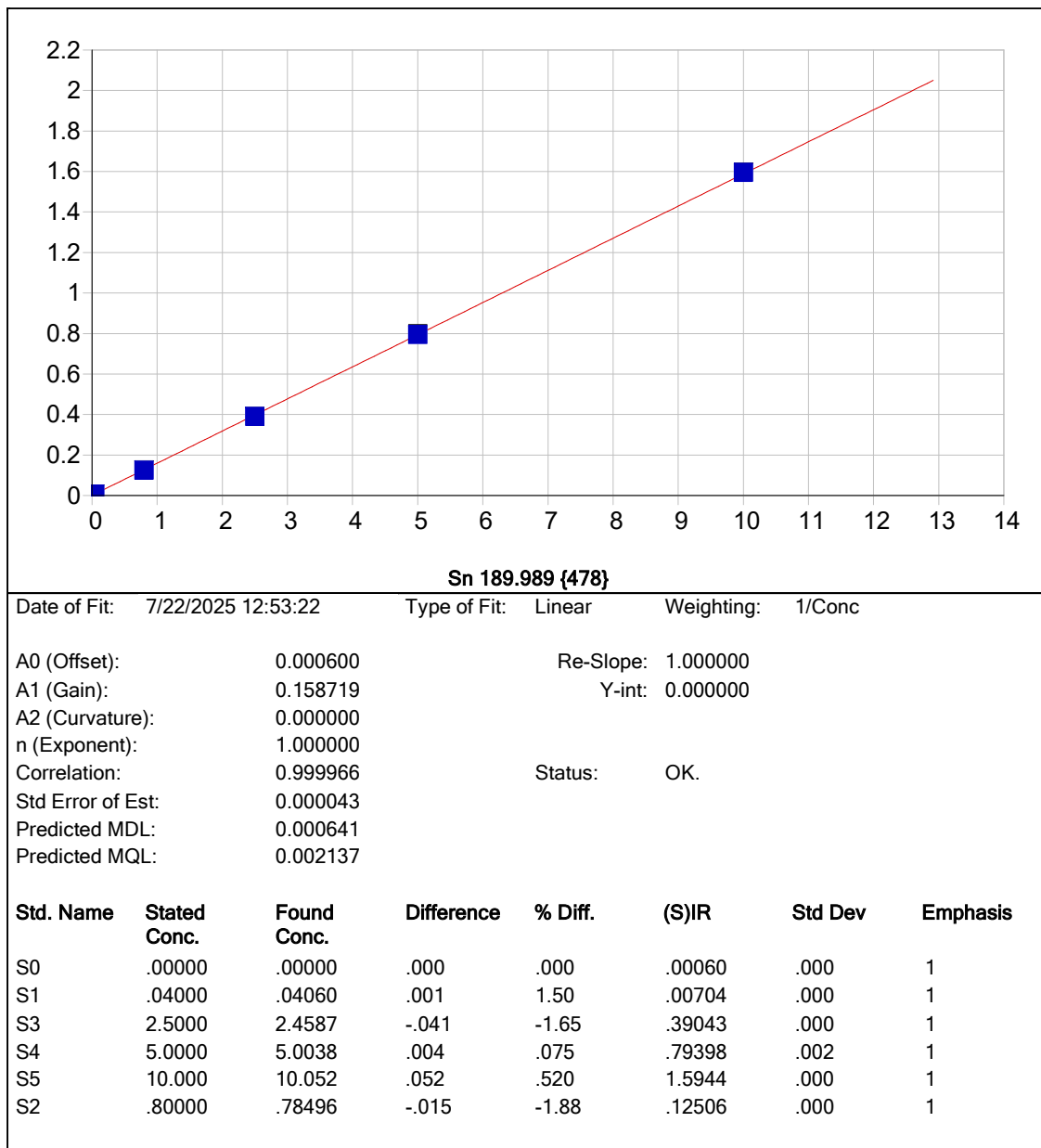


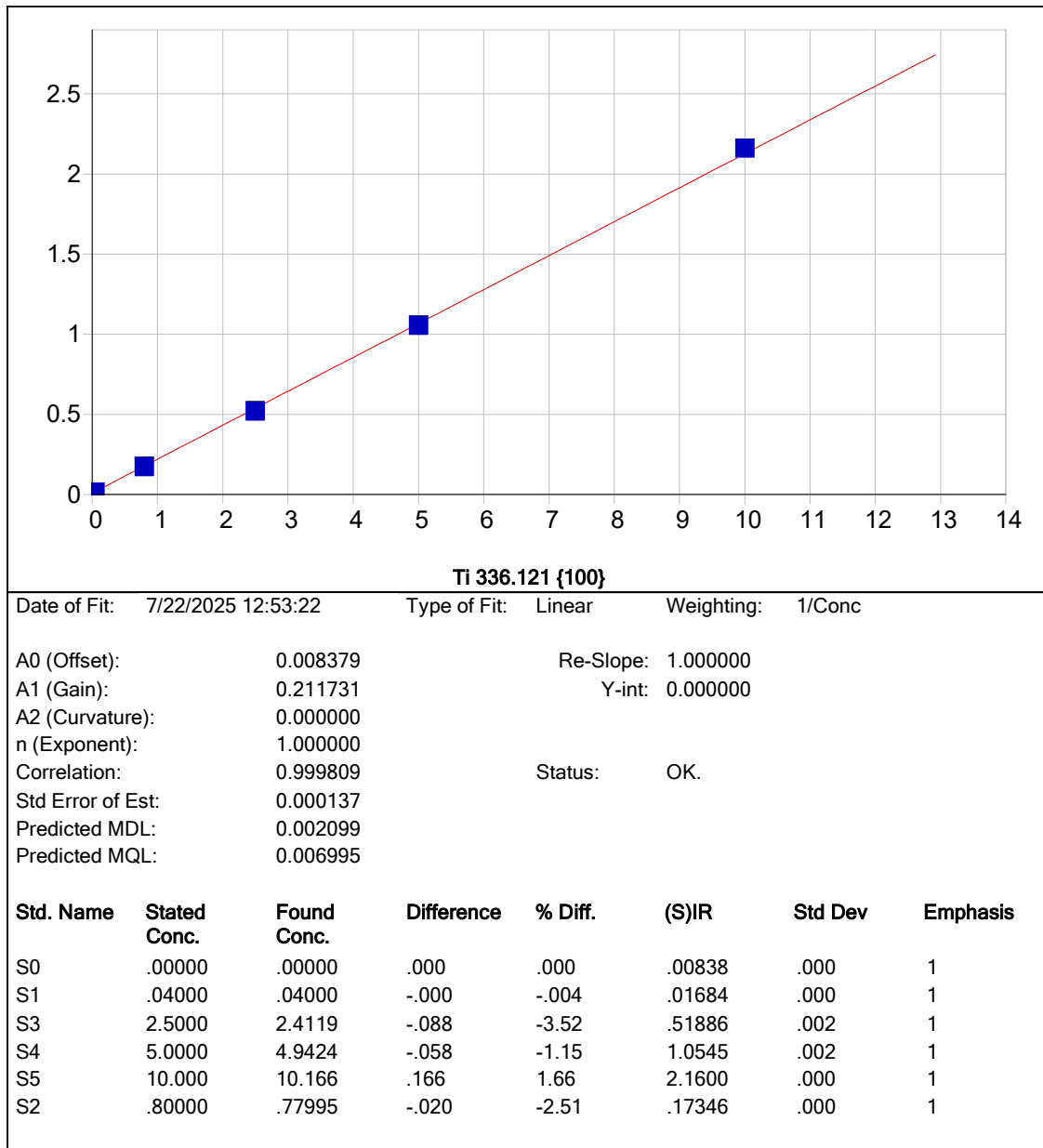


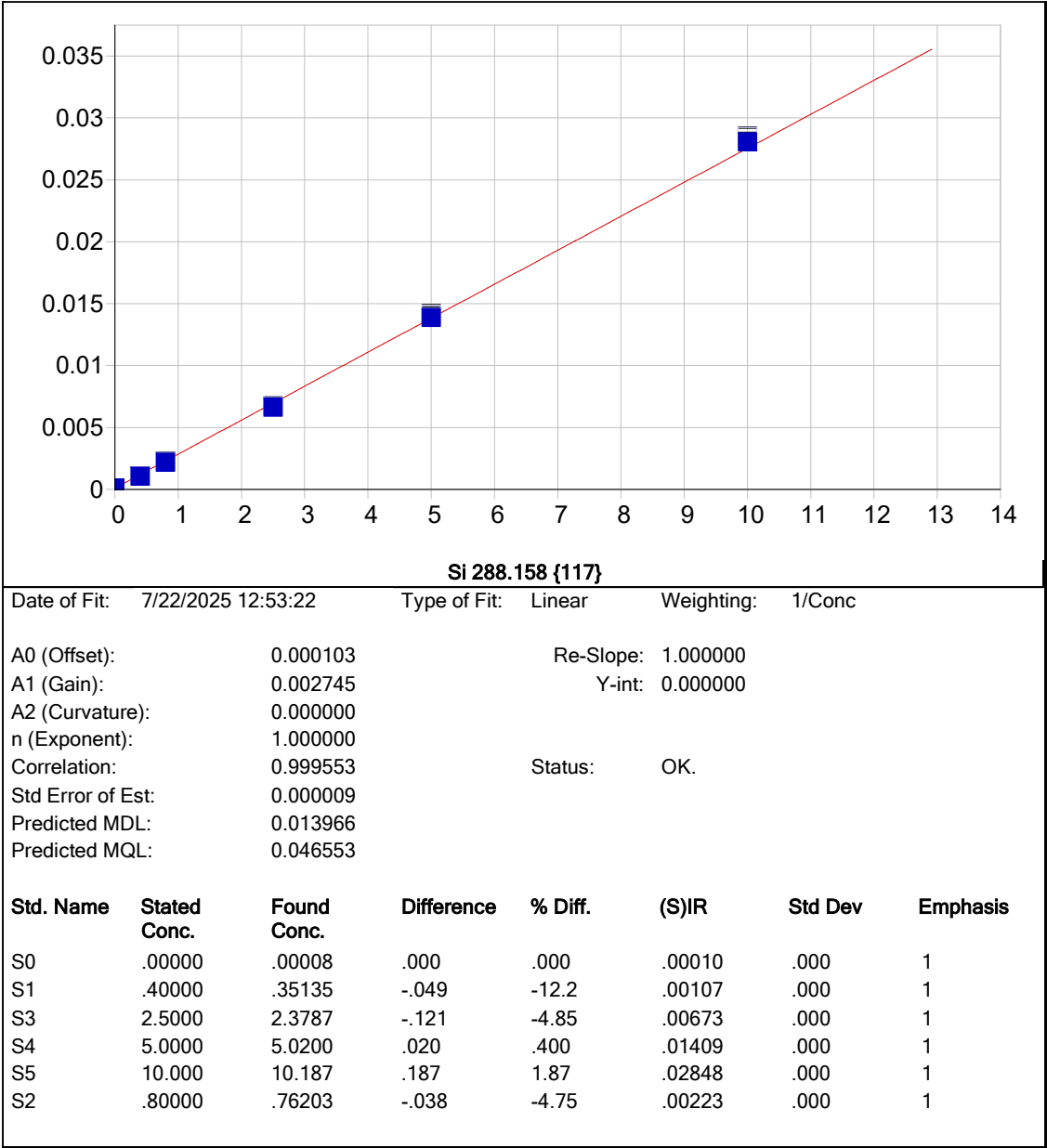


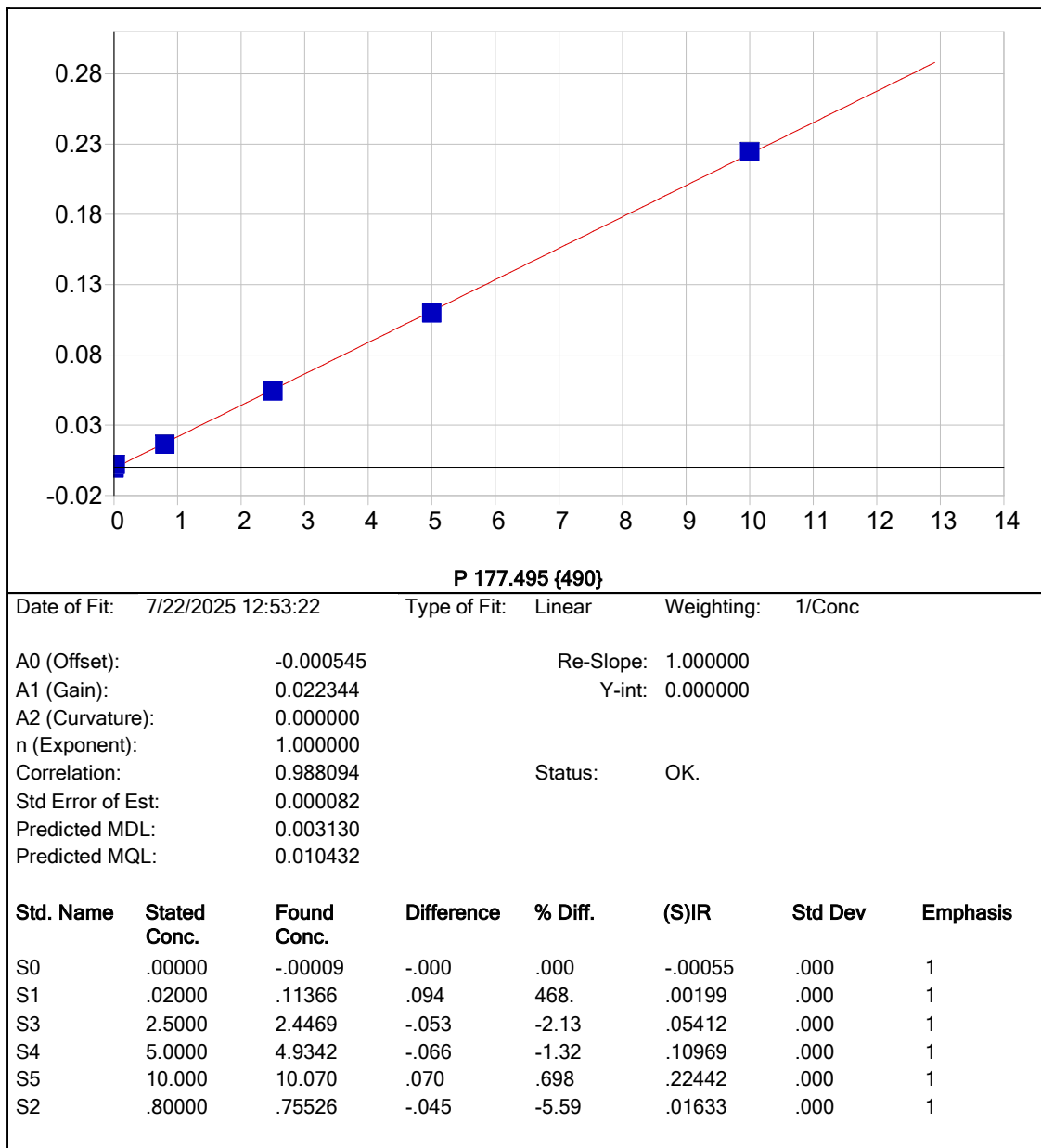


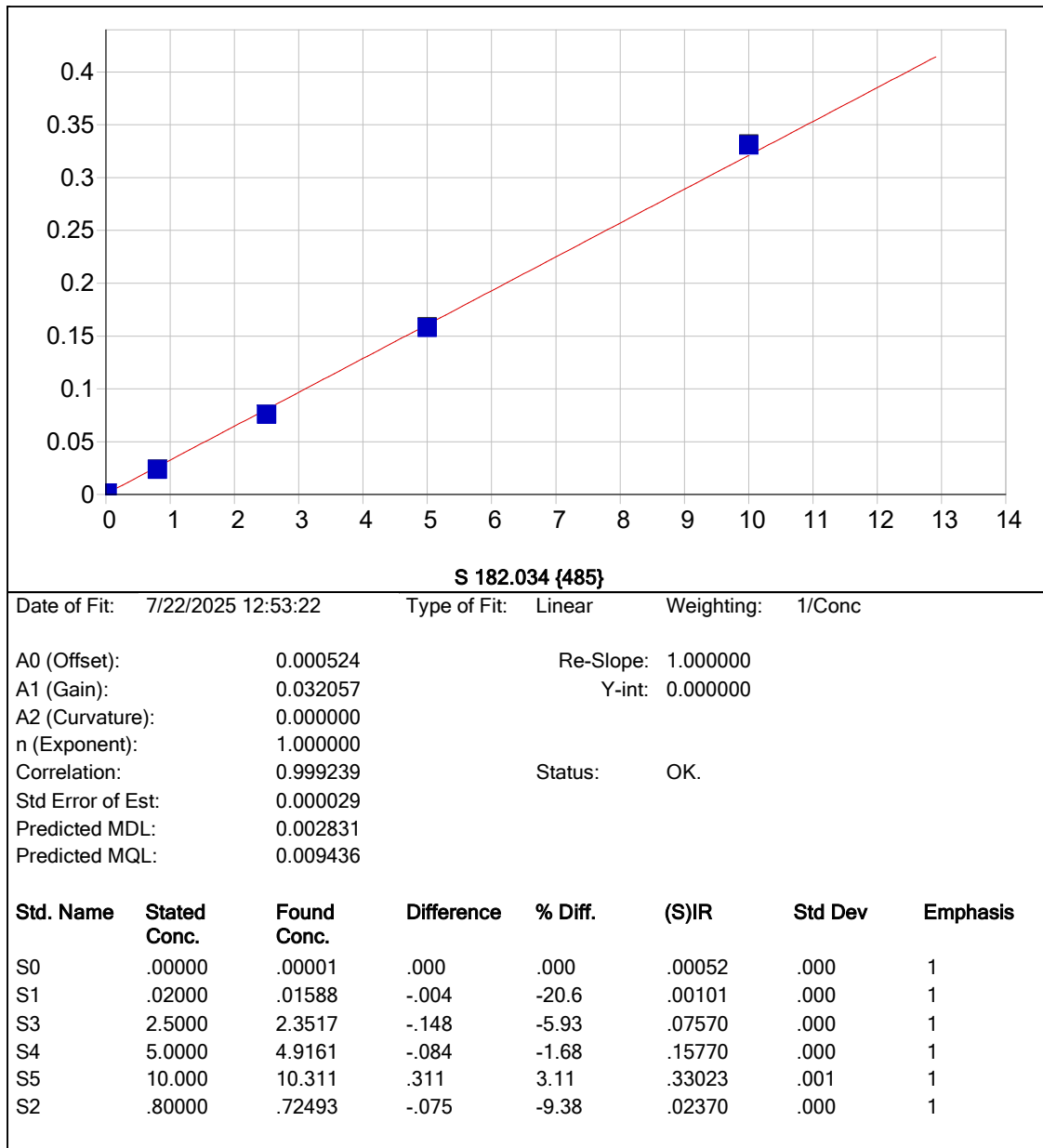


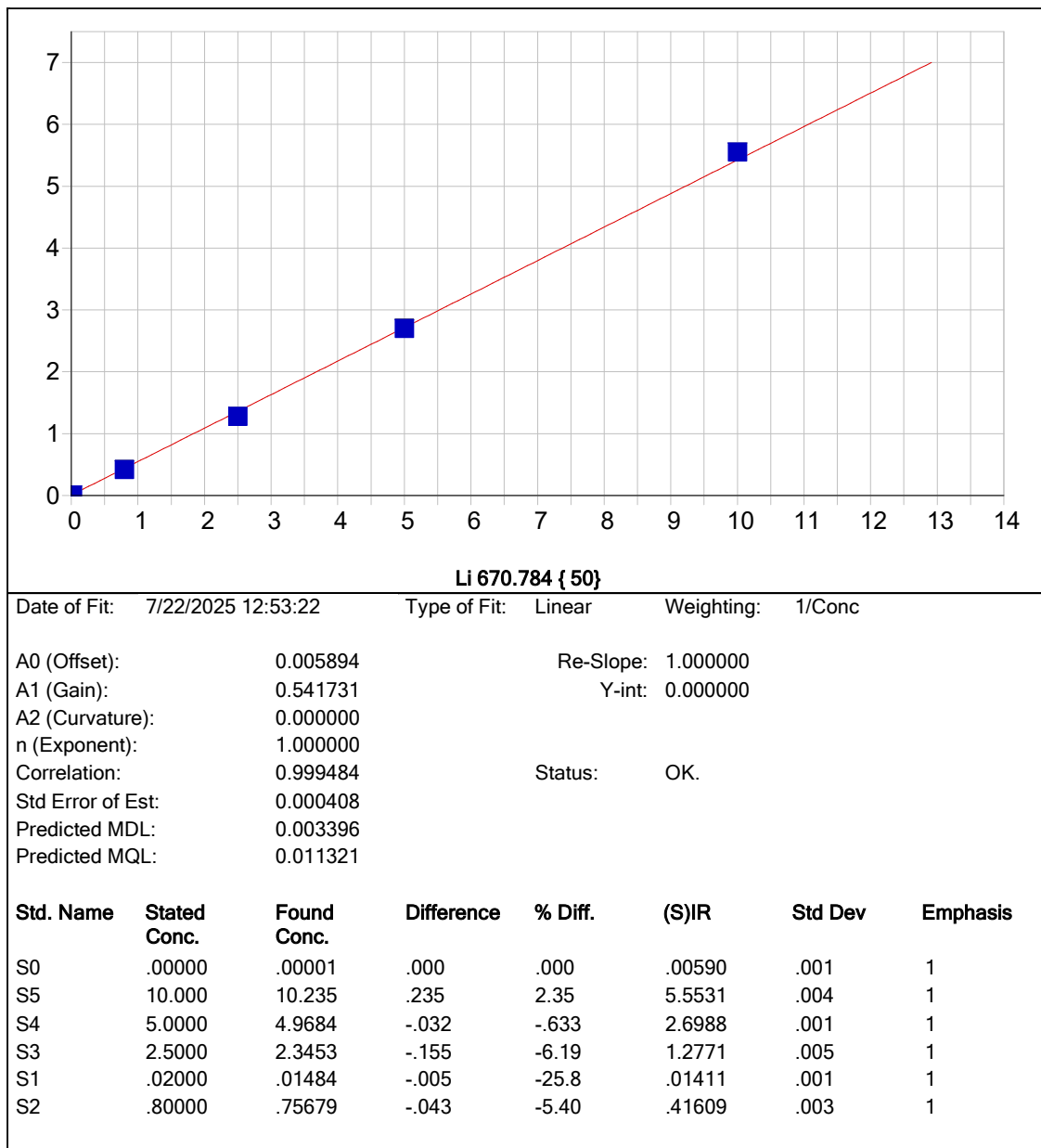


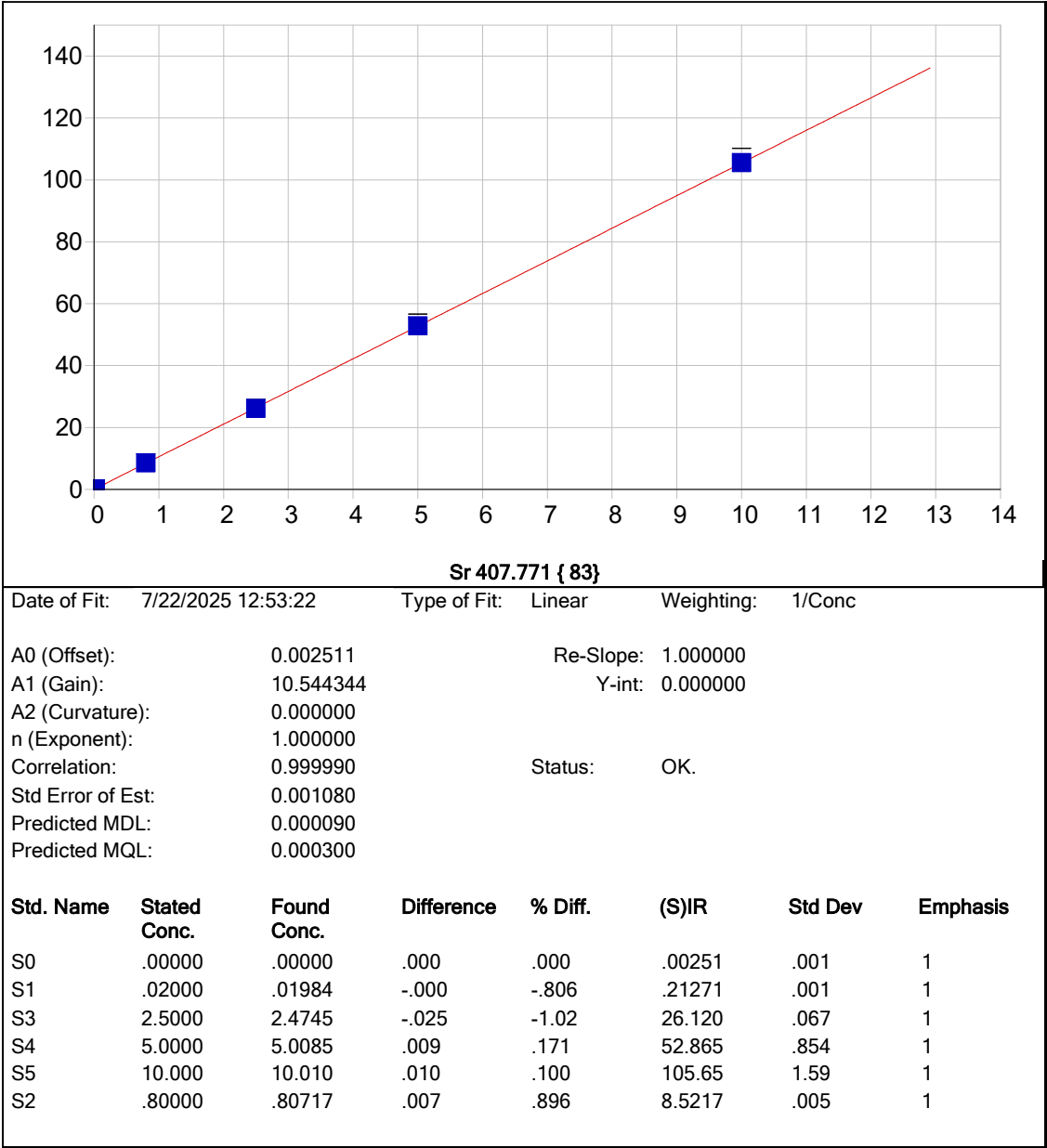


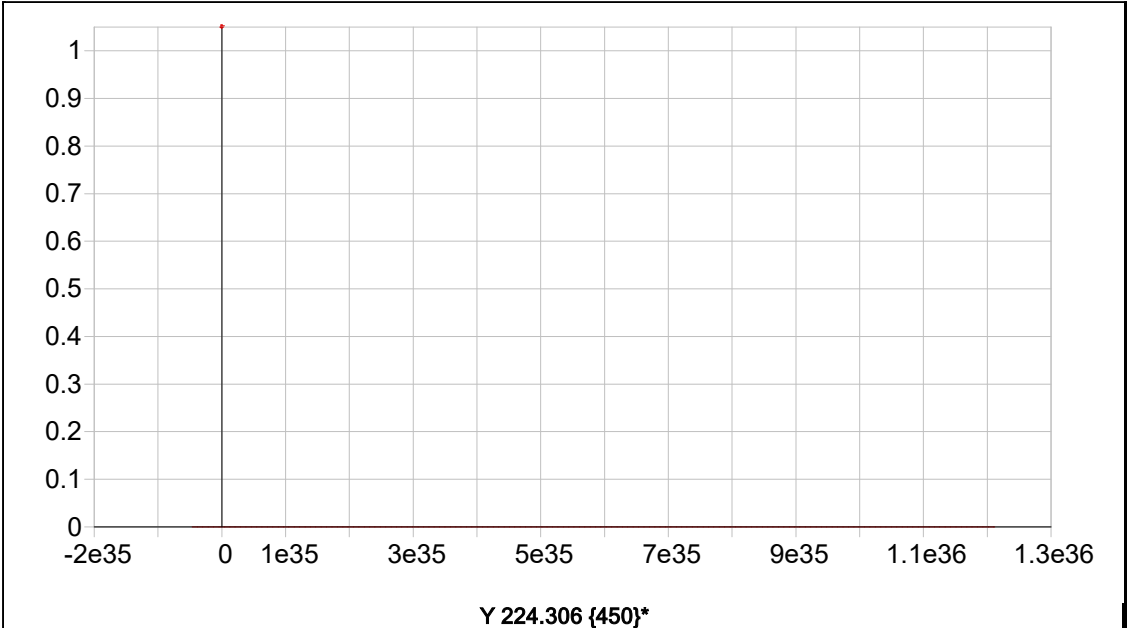


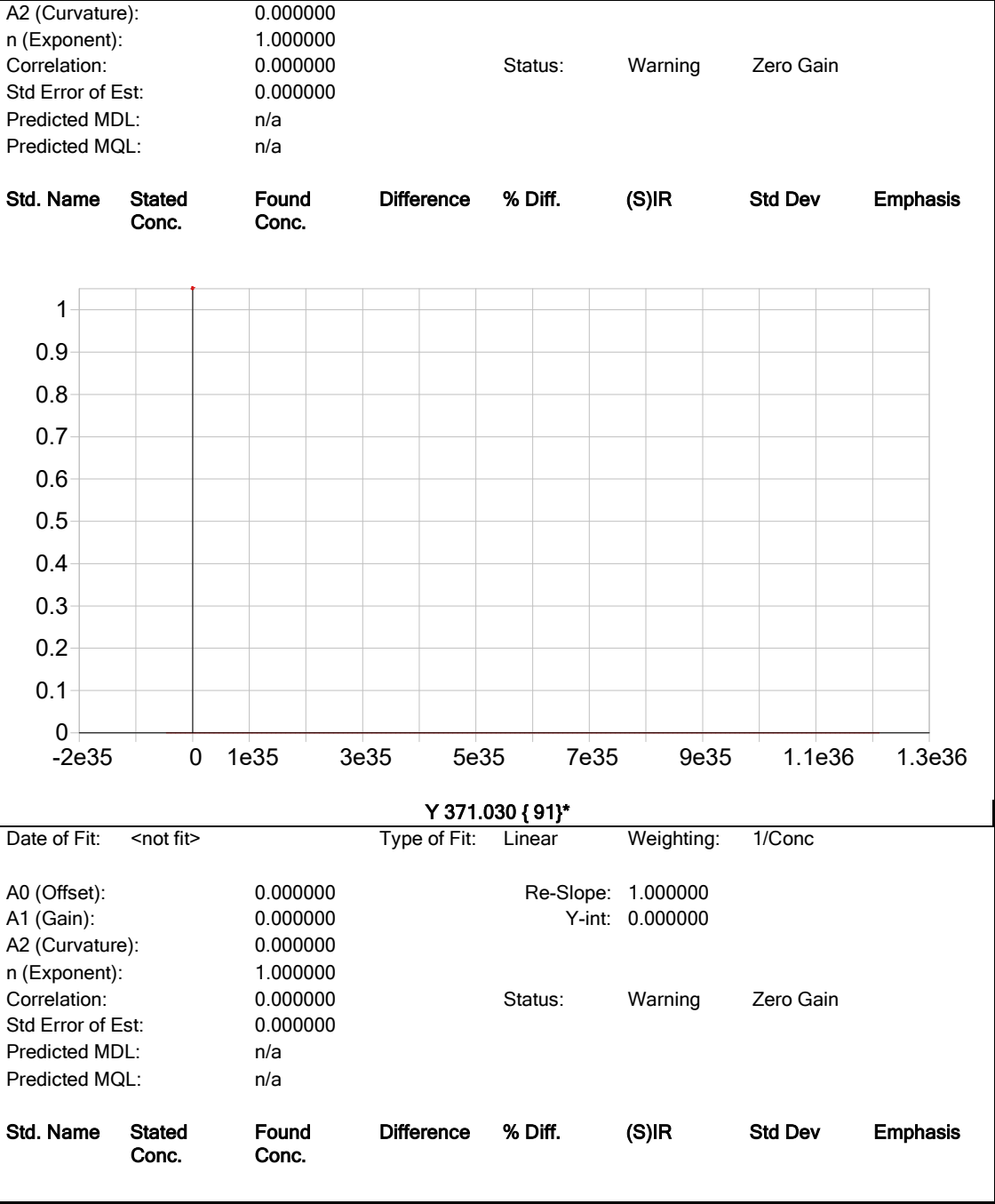




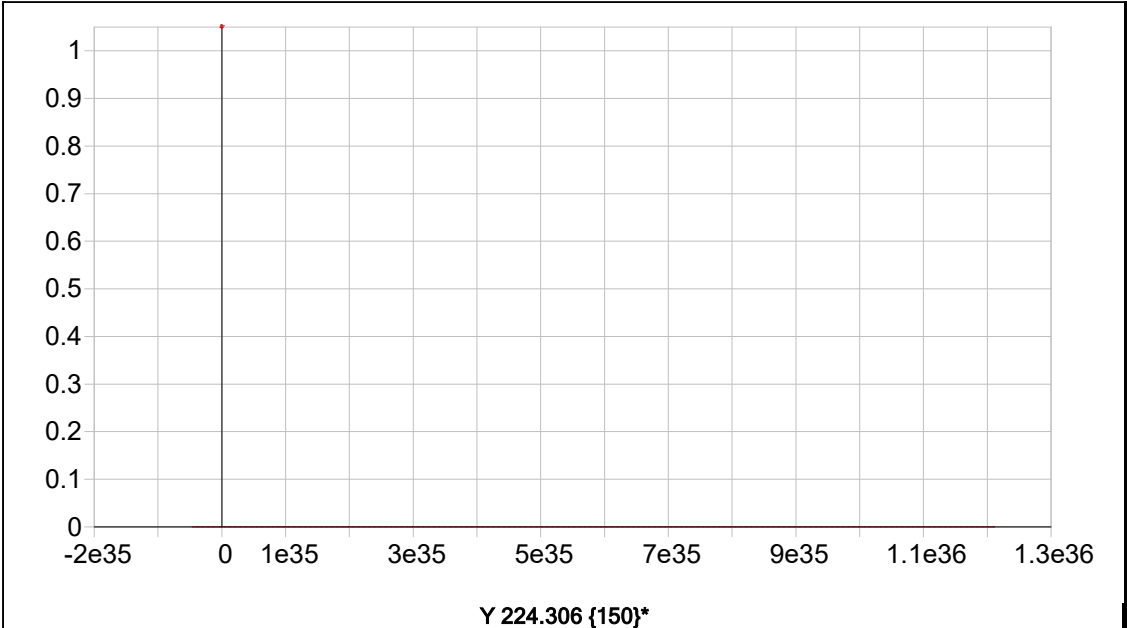






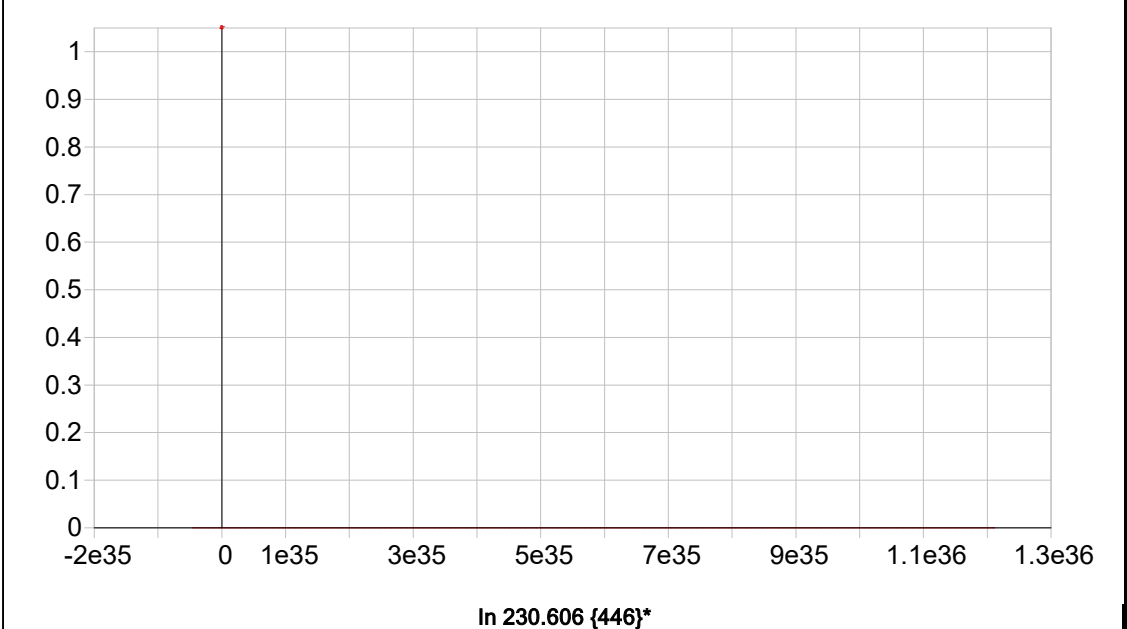


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Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std 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
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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

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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	

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

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

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	

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

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	

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

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	

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

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

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

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

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

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

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

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

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

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

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	2.465823	2.474458	25.49801	9.9837533	2.483824	1.257466	5.030741
Stddev	.0010867	.005460	.17913	.0020961	.002467	.004943	.002042
%RSD	.4406938	.2206406	.7025337	.2130680	.0993171	.3930586	.0405912
#1	2.474245	2.469819	25.60387	9.9835586	2.481113	1.254490	5.032981
#2	2.453557	2.473080	25.29118	9.9859400	2.484425	1.254737	5.028984
#3	2.469668	2.480474	25.59897	9.9817615	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

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

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

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

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

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	-0.001786	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	-0.002192	1.463942	83.47767	1.919000	18.94004	.0848965
#2	-0.001521	1.447276	83.32444	1.909284	19.04705	.0908854
#3	-0.001643	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

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

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

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

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

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

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

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

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

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

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

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

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	2.497515	2.494537	25.95043	9.9755130	2.509457	1.277580	5.017034
Stddev	.0023020	.005735	.27573	.0067225	.004657	.004517	.022872
%RSD	.9217218	.2298926	1.062521	.6891202	.1855884	.3535575	.4558932
#1	2.472079	2.491536	25.66380	9.9692631	2.506239	1.273201	5.030644
#2	2.503547	2.490925	25.97371	9.9826249	2.507334	1.277316	5.029831
#3	2.516918	2.501149	26.21378	9.9746511	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

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

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

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

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

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

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

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

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

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

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

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	

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

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

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

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	2.2616537	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	2.567552	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	2.2549168	2.559095	27.04131	1.007869	2.569074	1.307594	5.294685
#2	2.2563053	2.552793	26.86506	1.011464	2.562533	1.308006	5.273085
#3	2.2590435	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	

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

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

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

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

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

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	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	2.665914	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

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

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

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

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

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

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

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	2.699039	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	2.687448	2.584210	27.05450	1.048326	2.600748	1.317583	5.343141
#2	2.686154	2.580967	27.13963	1.045211	2.601366	1.319897	5.332140
#3	2.723514	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

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

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

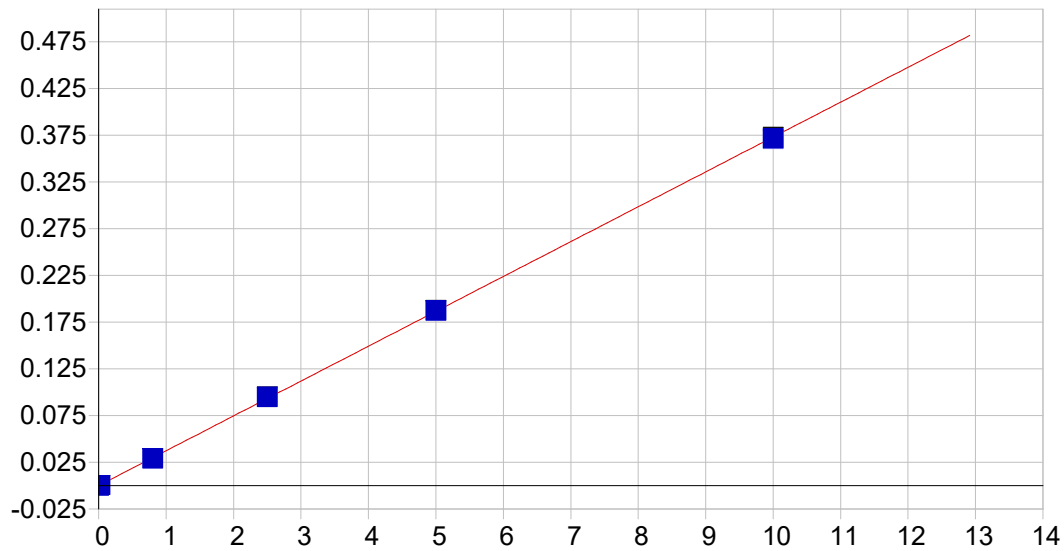
#1	-.000370	.0039164	.0132323	.0025435	-.010173	-.010537
#2	-.000700	.0060958	-.005426	-.001296	-.003870	-.009729
#3	-.000508	.0052615	-.003811	-.000189	-.005670	-.010651

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

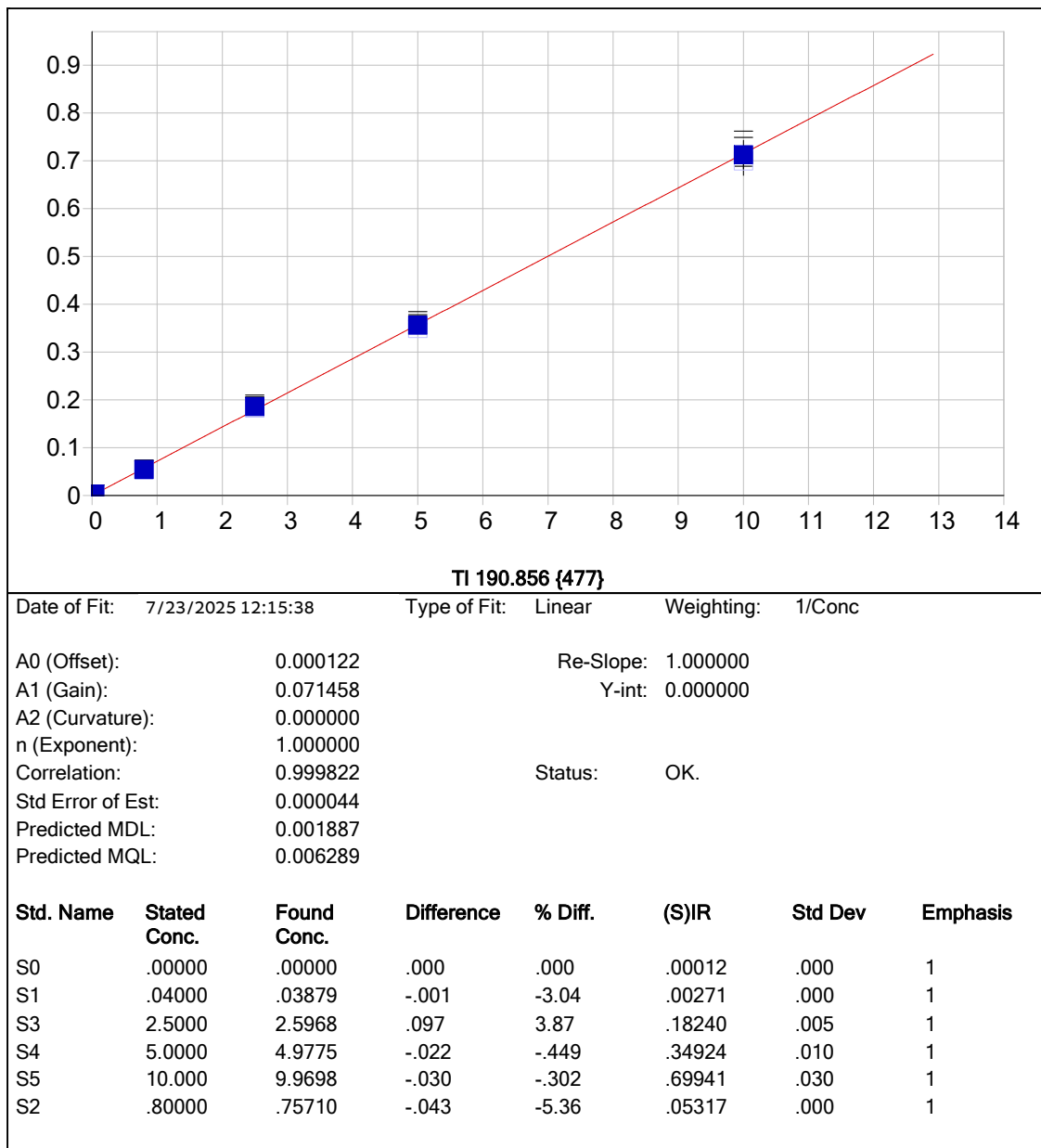


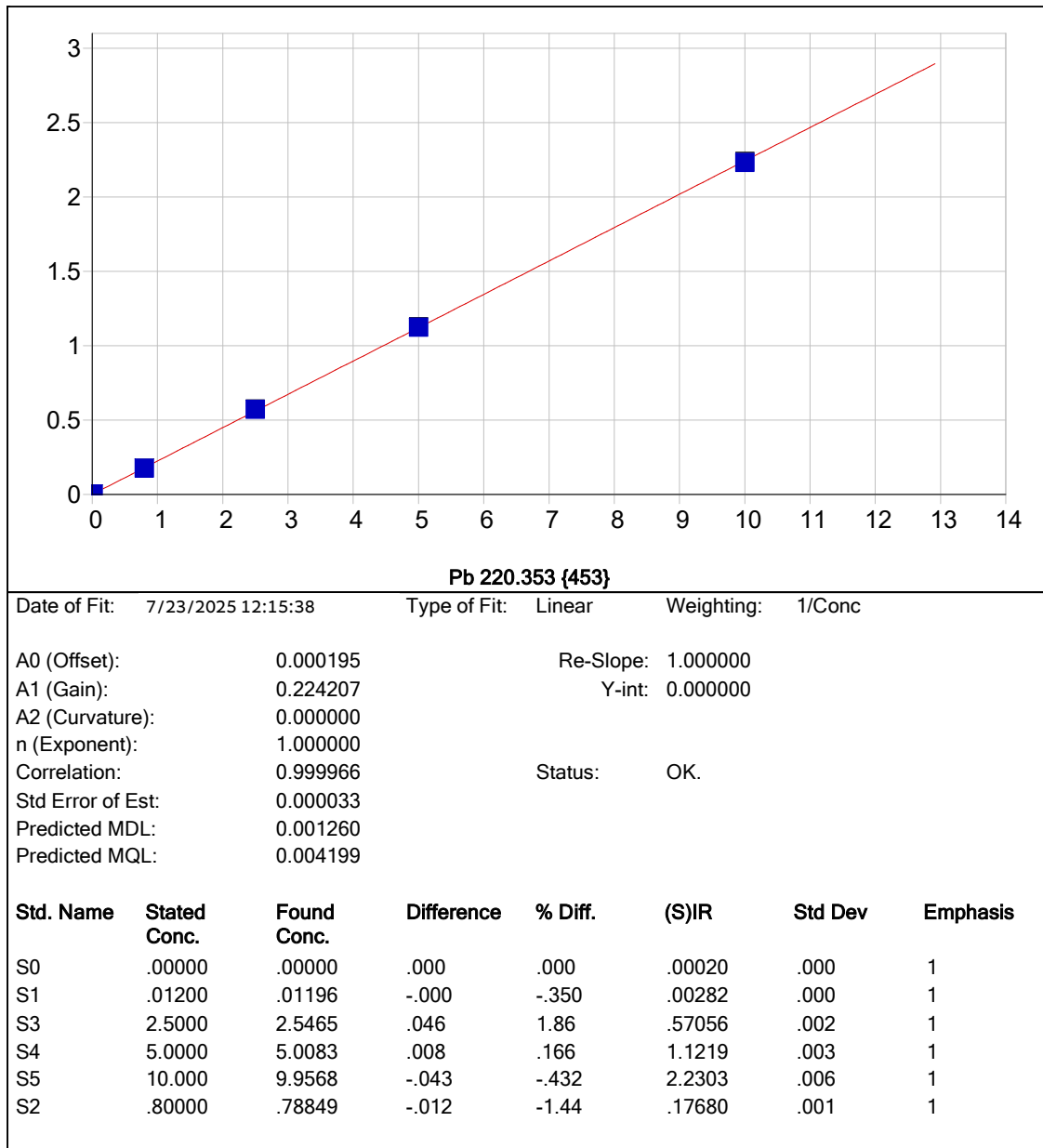
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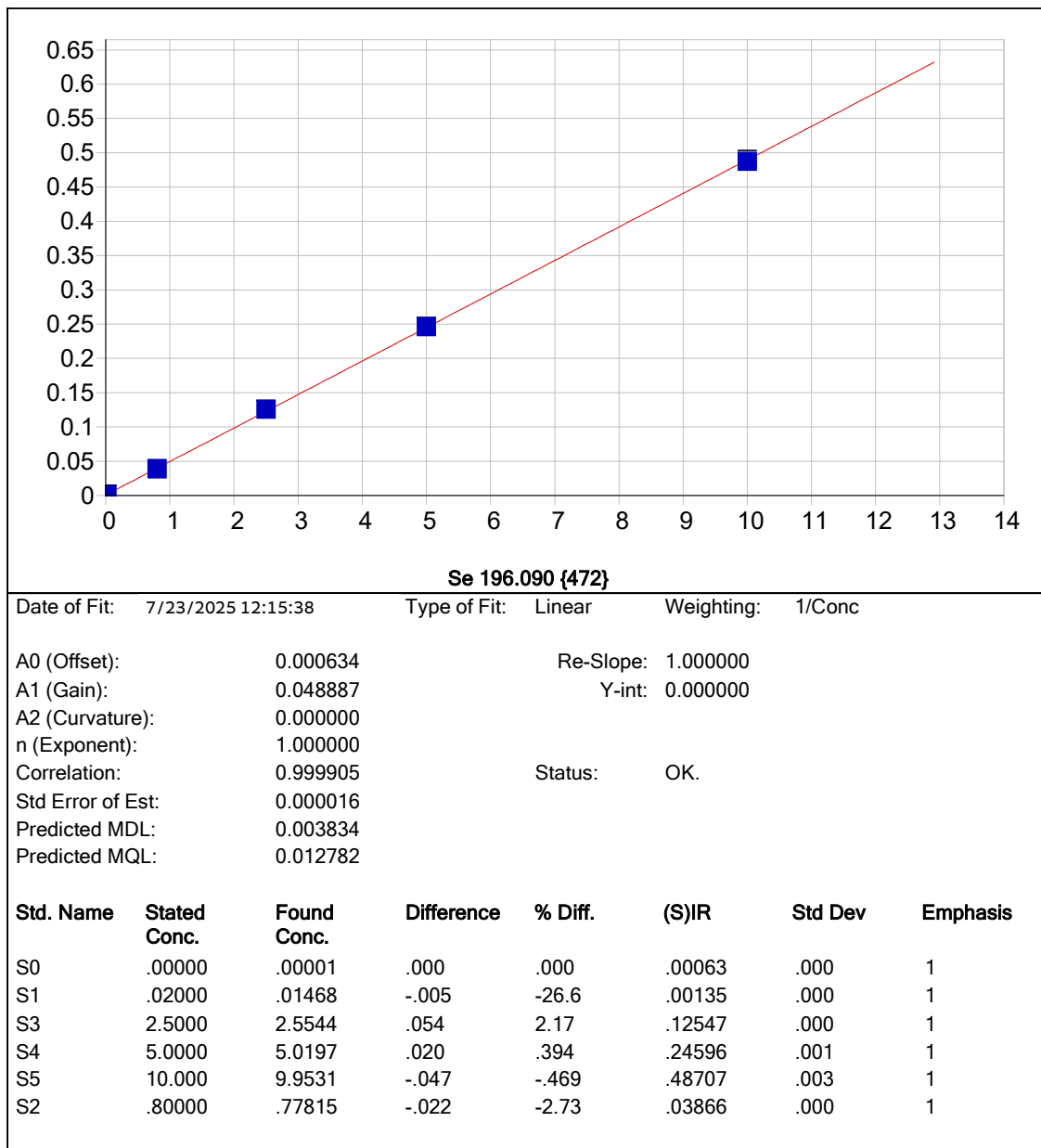
Date of Fit: 7/23/2025 12:15:38 Type of Fit: Linear Weighting: 1/Conc

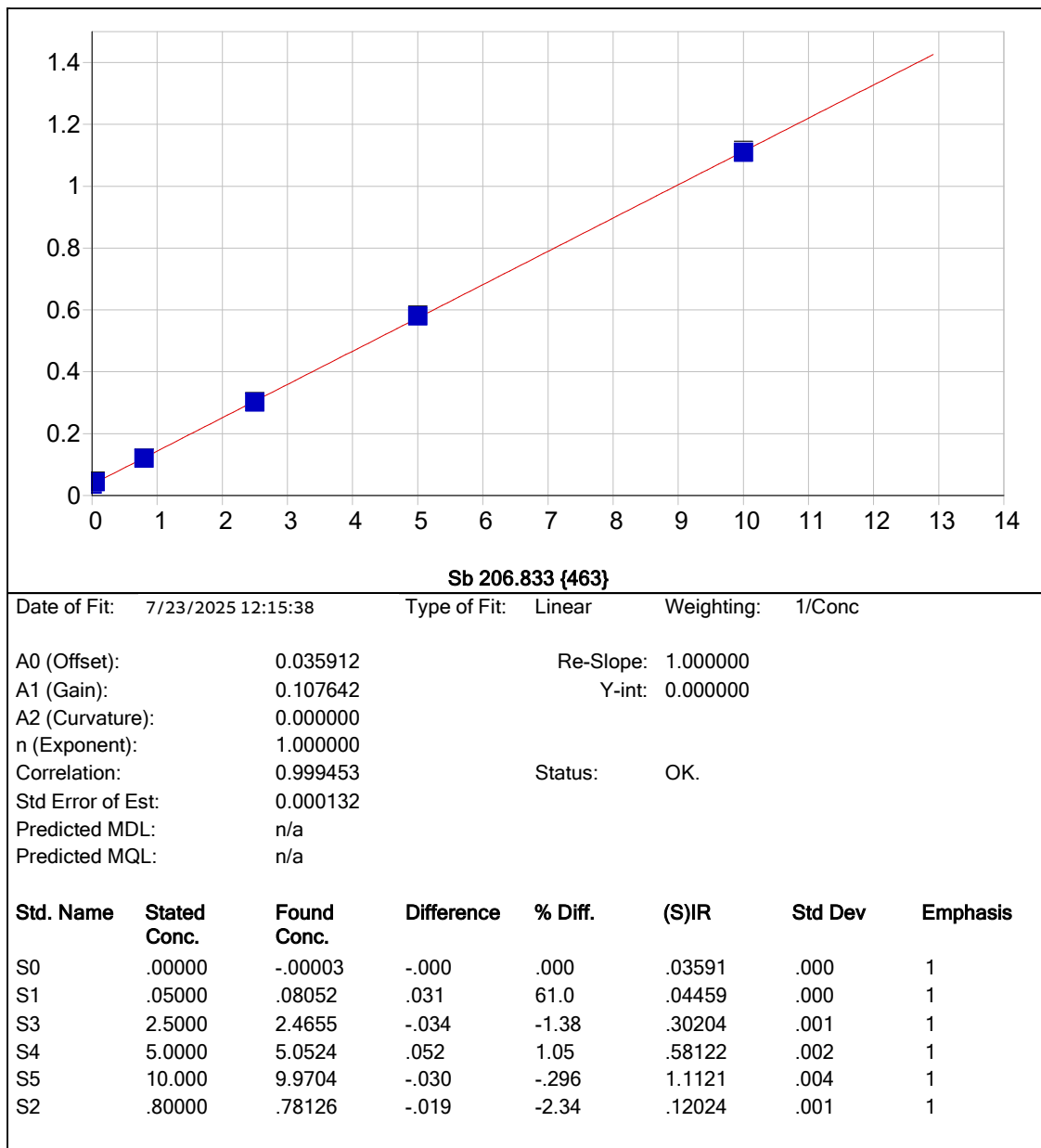
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A1 (Gain): 0.037315 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999955 Status: OK.
Std Error of Est: 0.000008
Predicted MDL: 0.002981
Predicted MQL: 0.009936

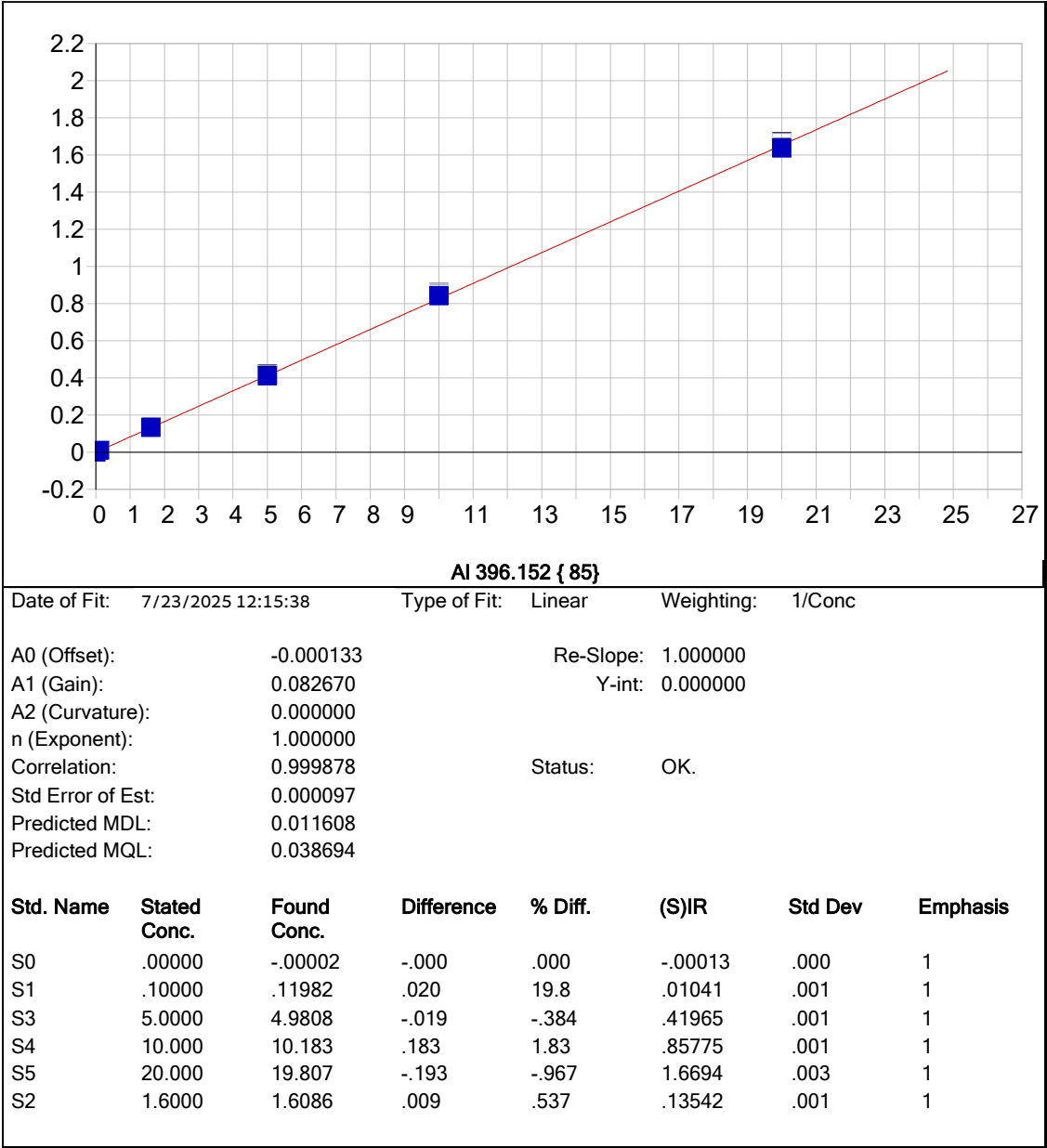
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.02000	.01959	-.000	-2.03	.00070	.000	1
S3	2.5000	2.5436	.044	1.75	.09479	.000	1
S4	5.0000	5.0225	.022	.449	.18718	.000	1
S5	10.000	9.9562	-.044	-.438	.37109	.001	1
S2	.80000	.77809	-.022	-2.74	.02897	.000	1

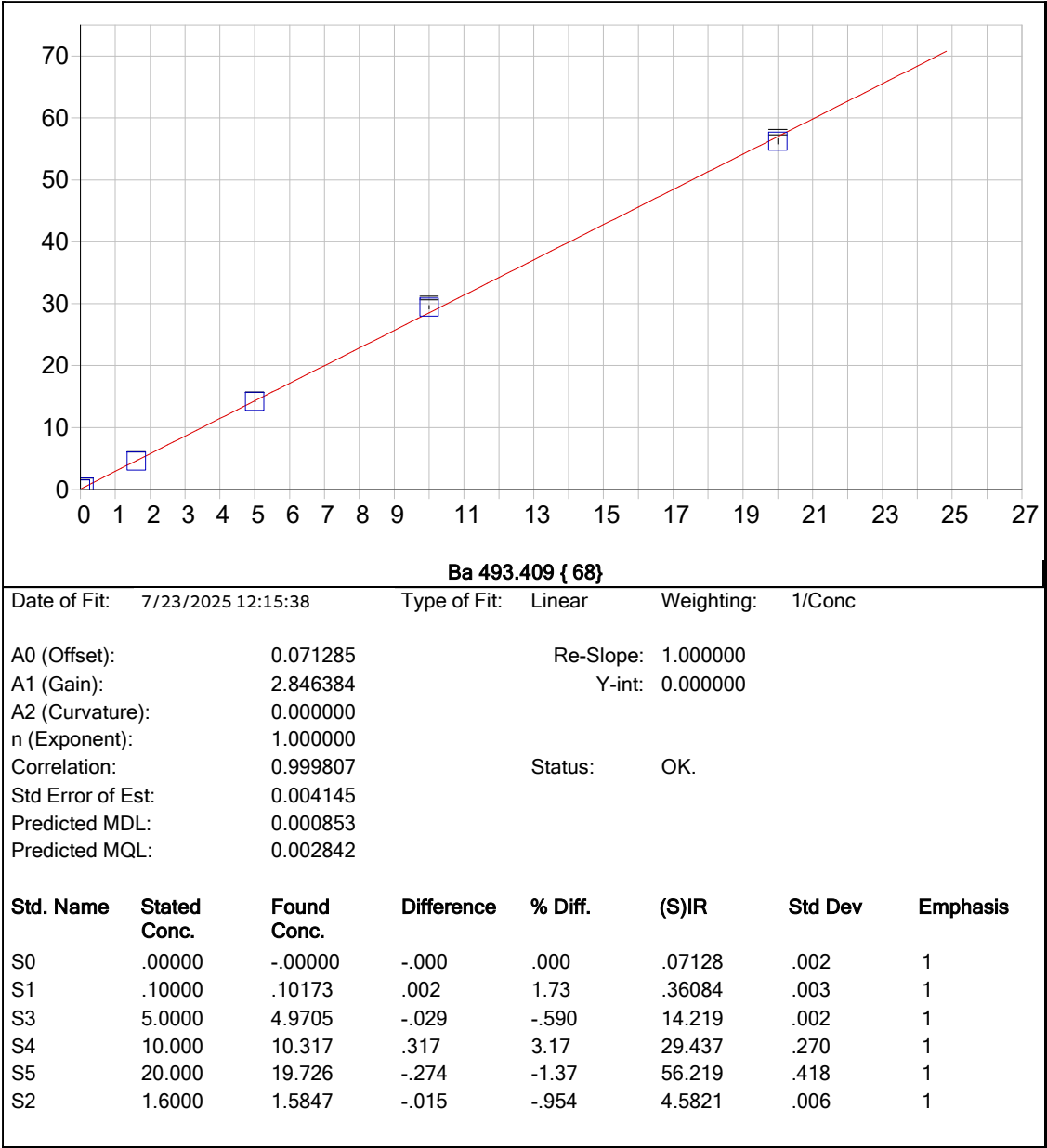


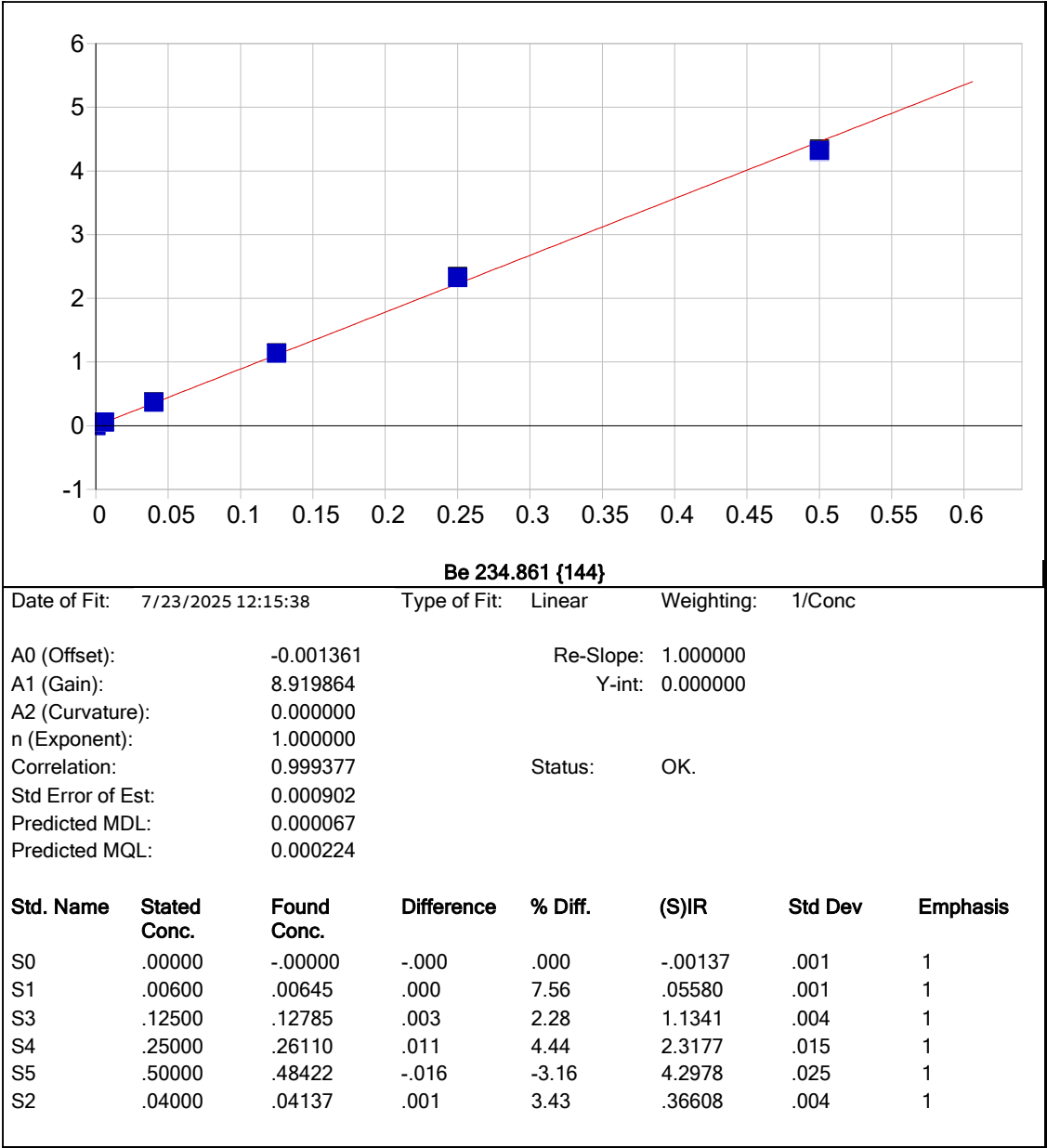


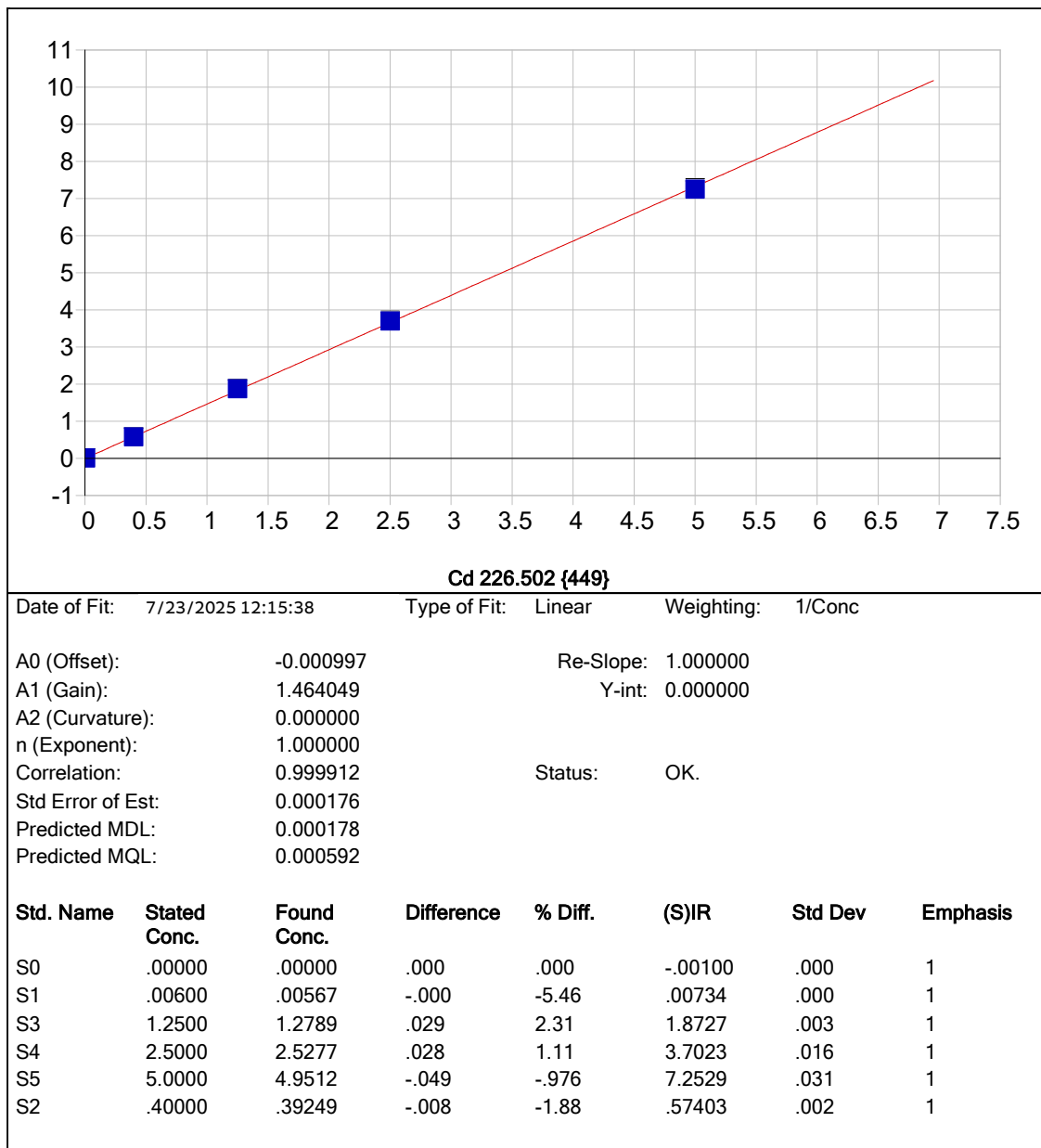


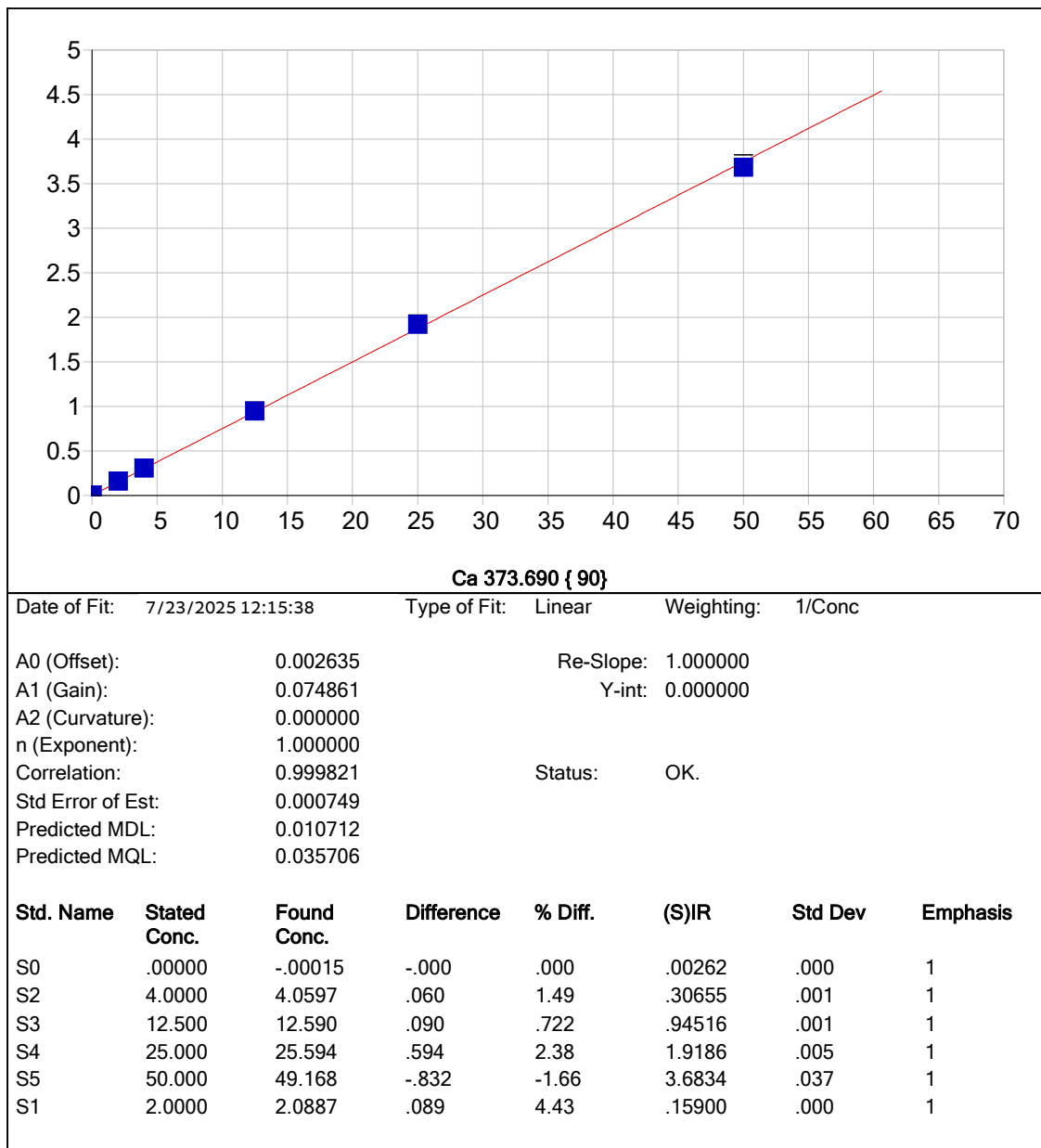


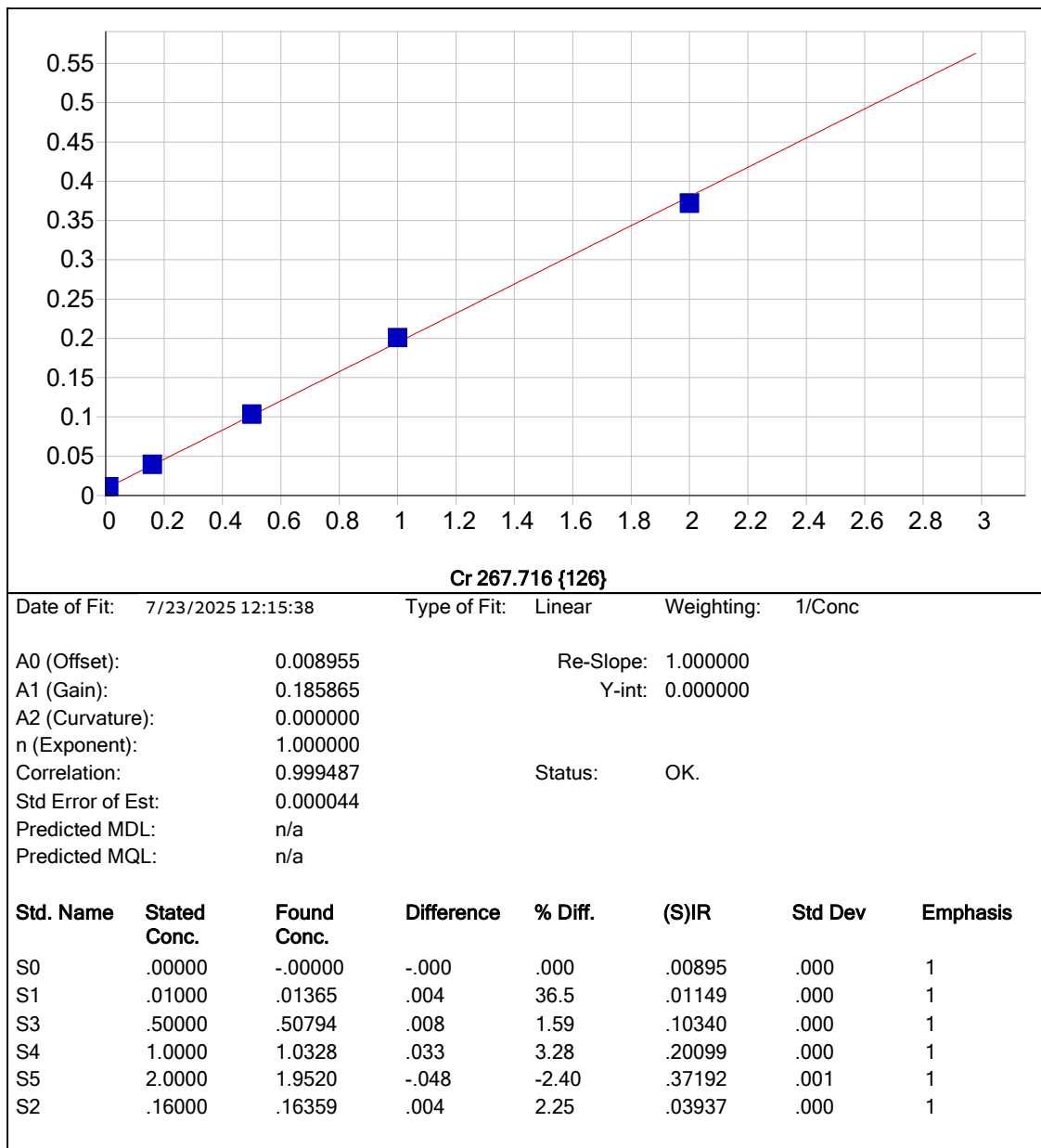


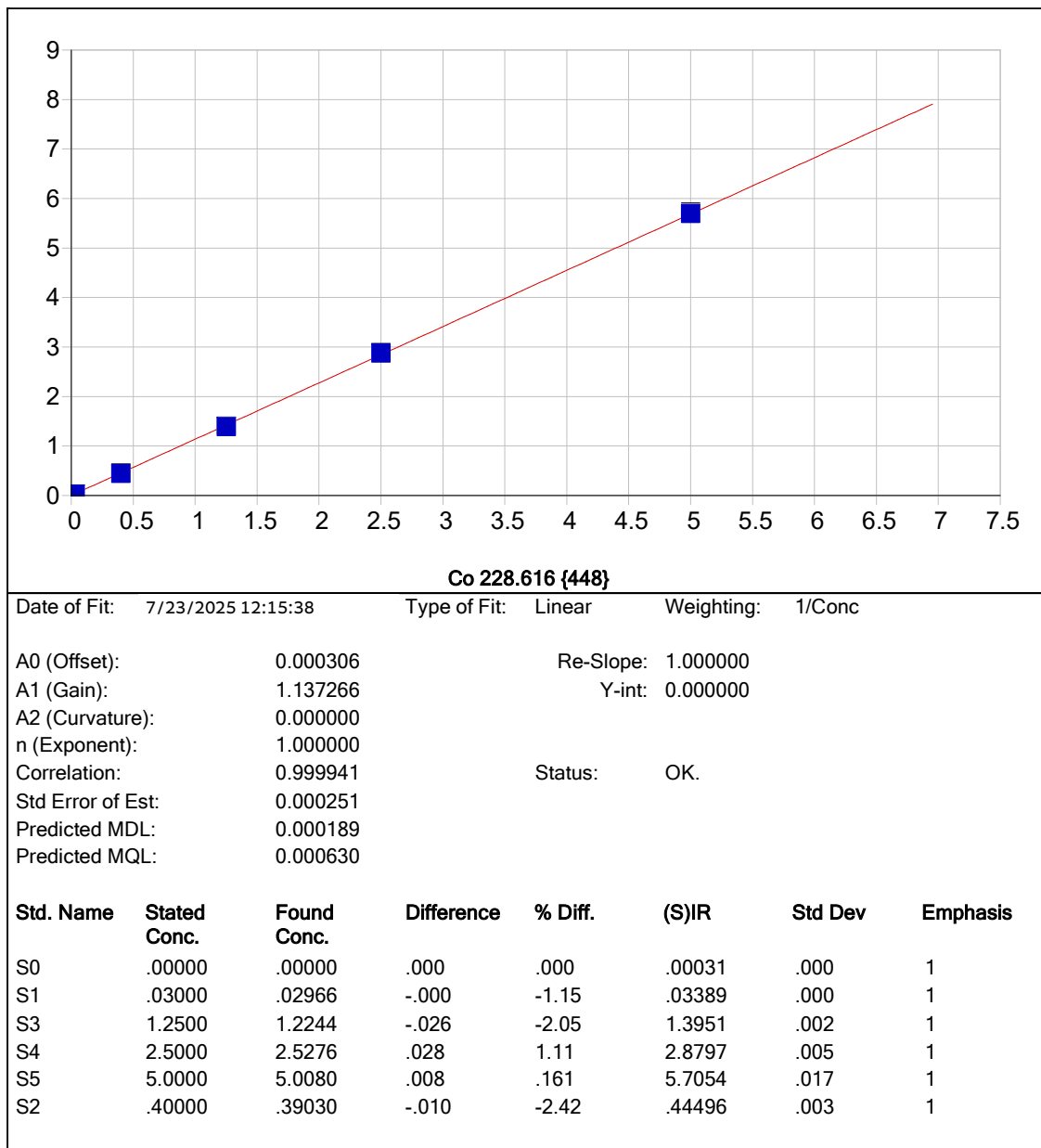


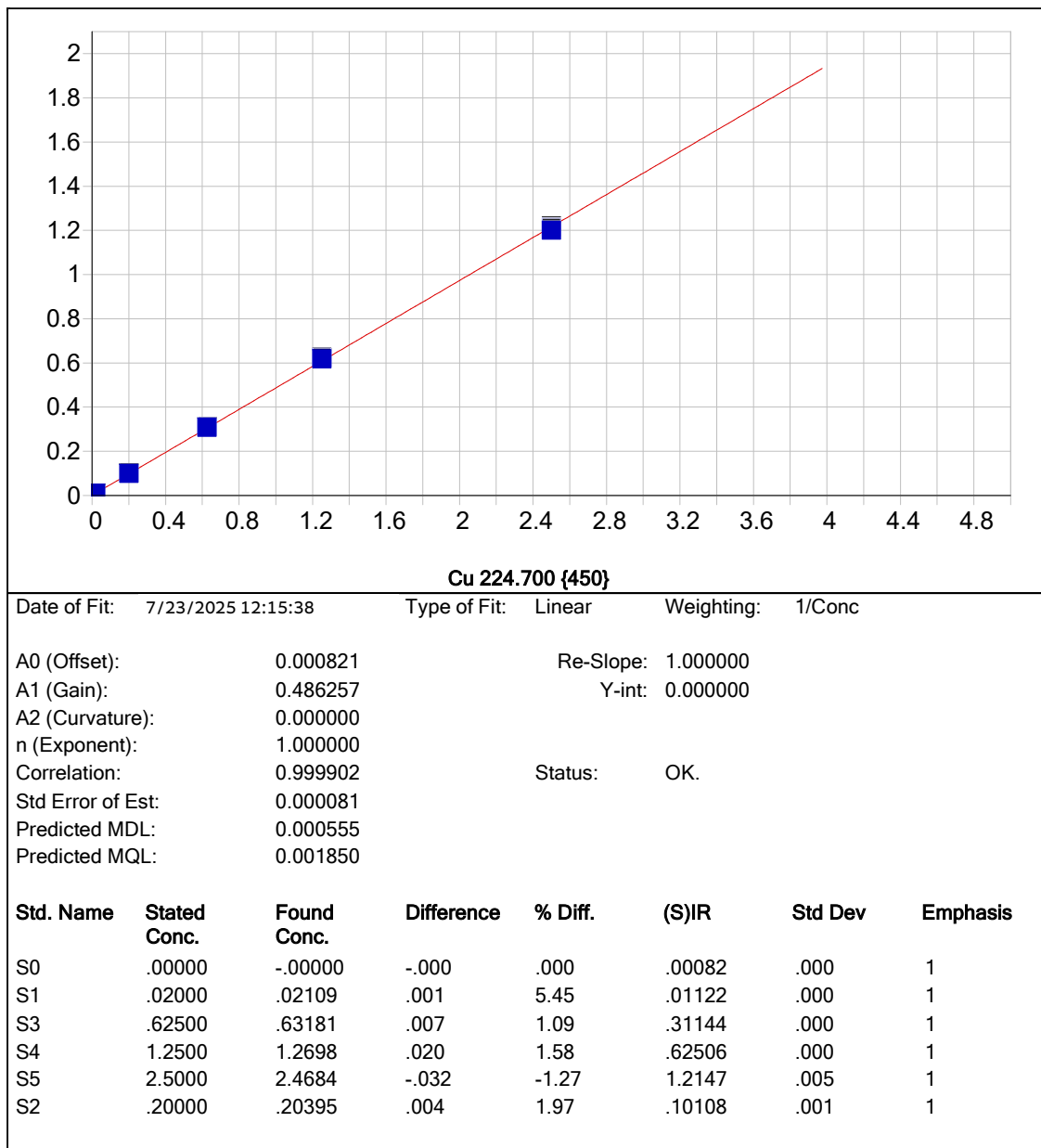


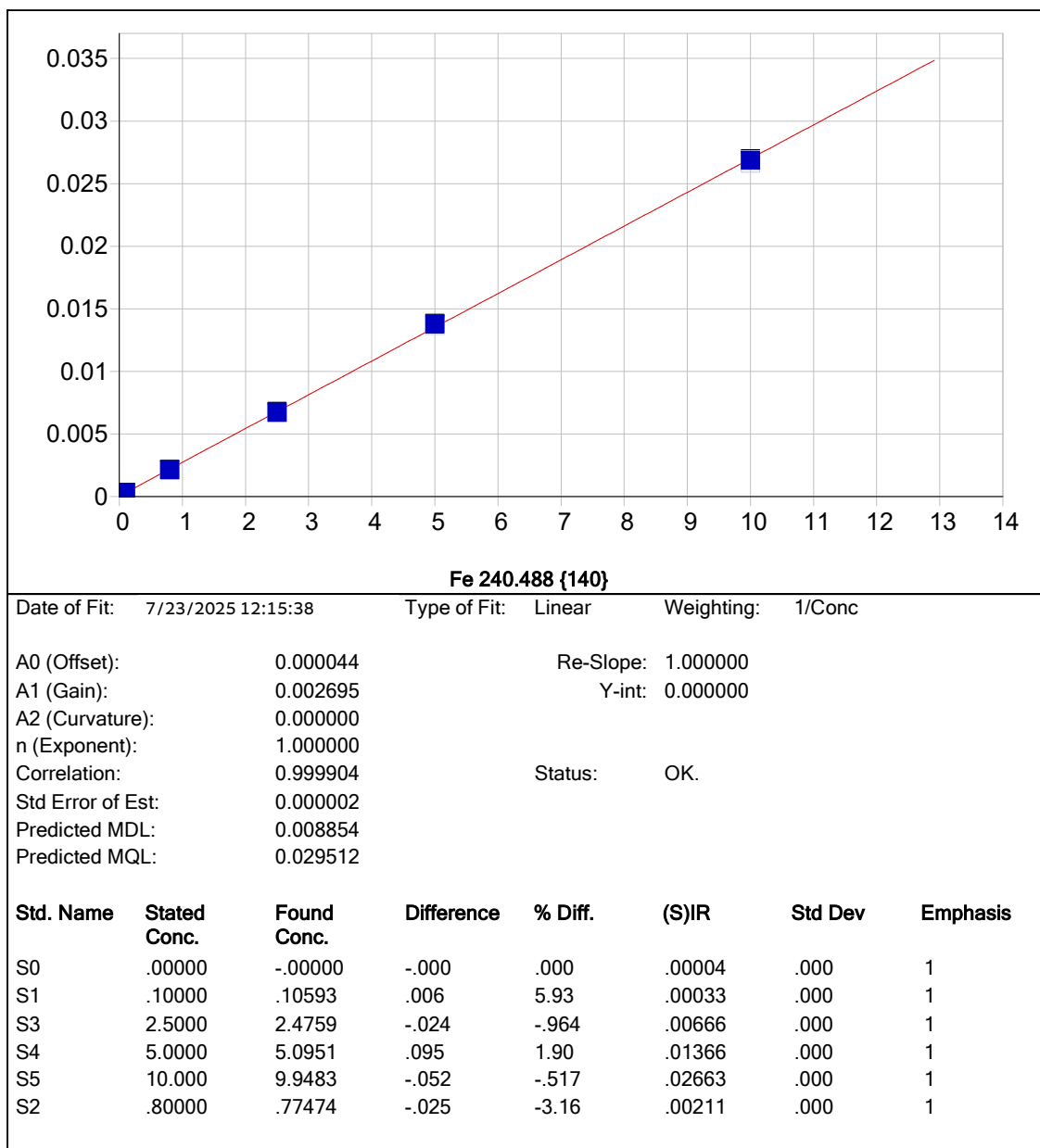


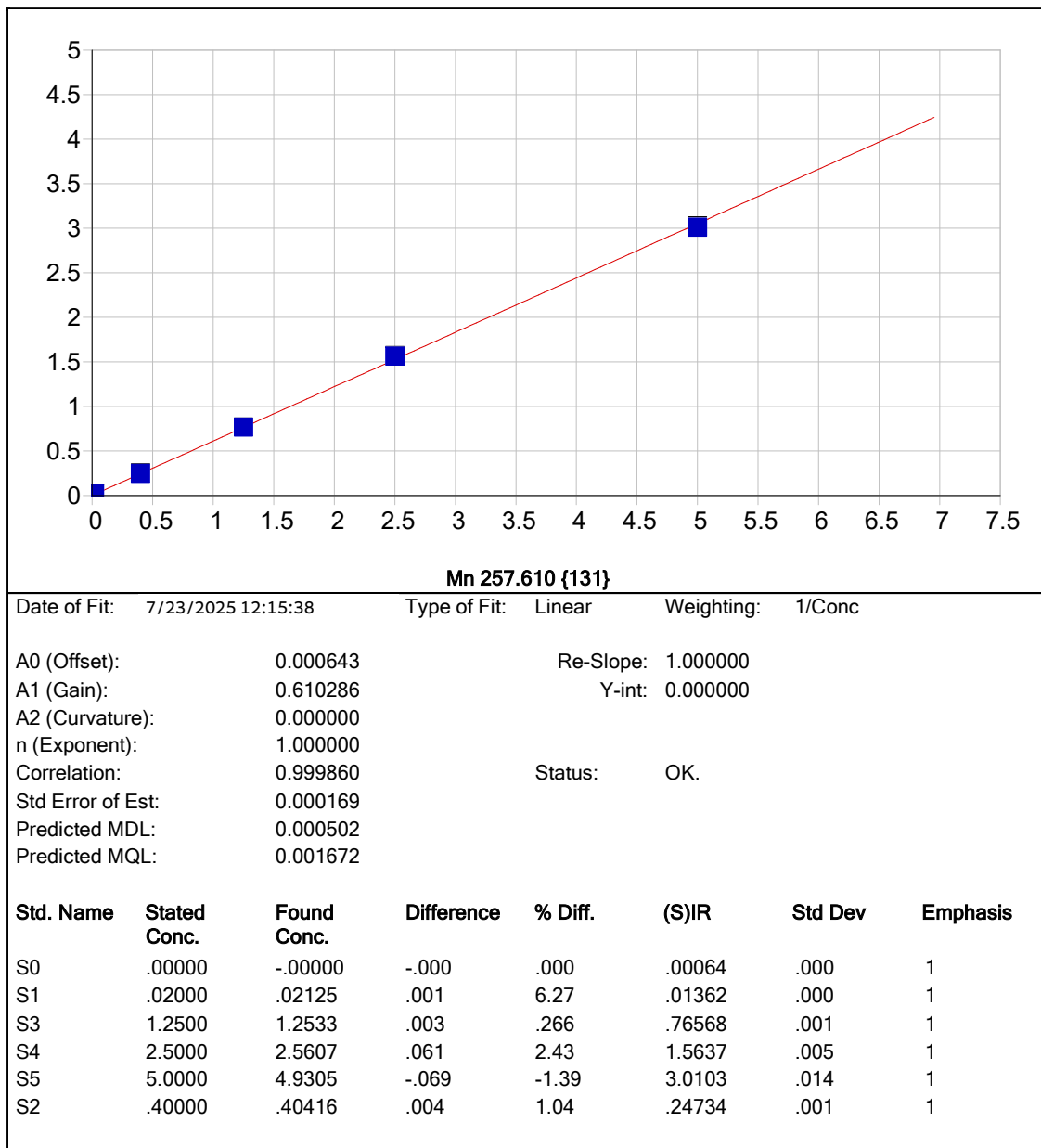


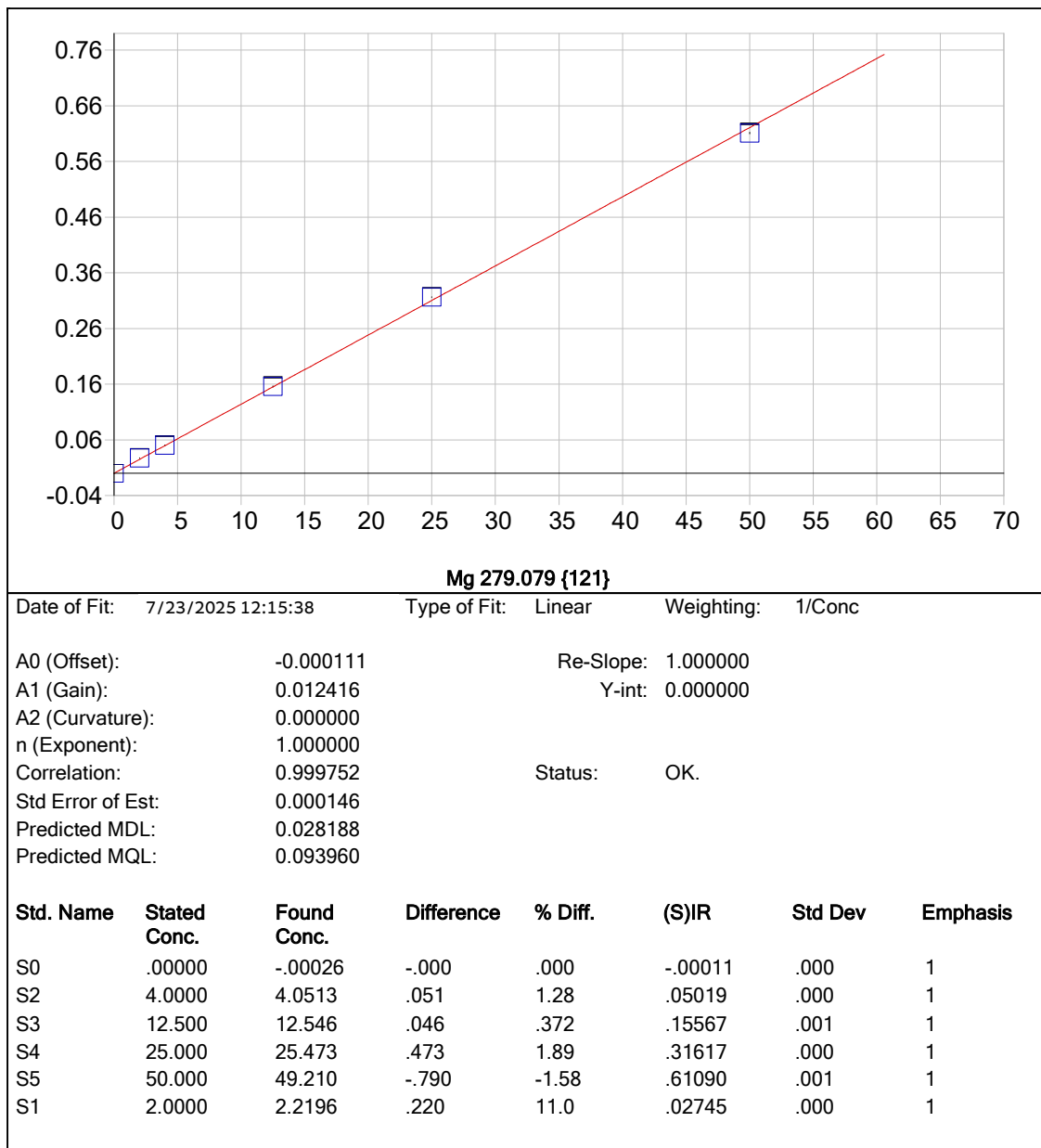


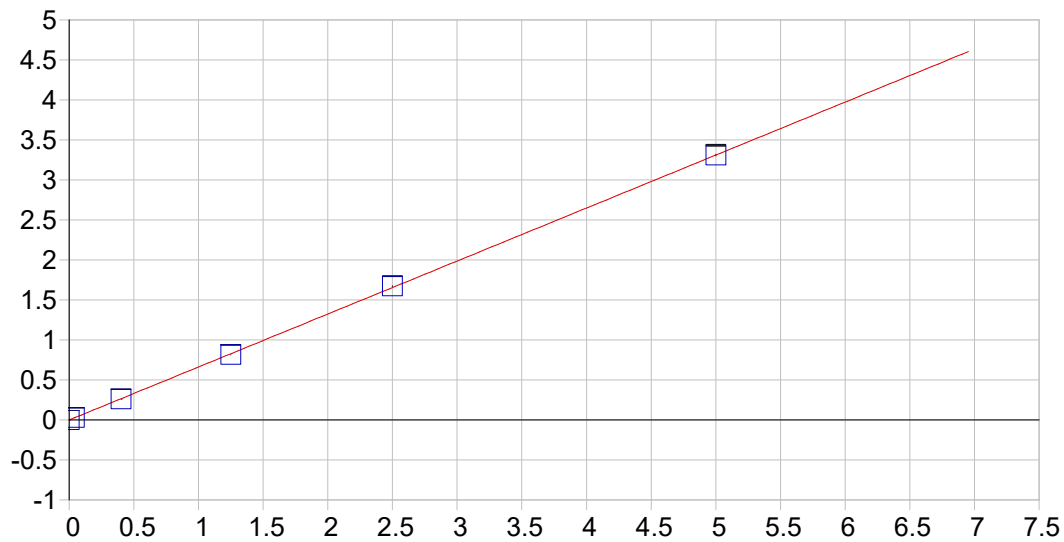










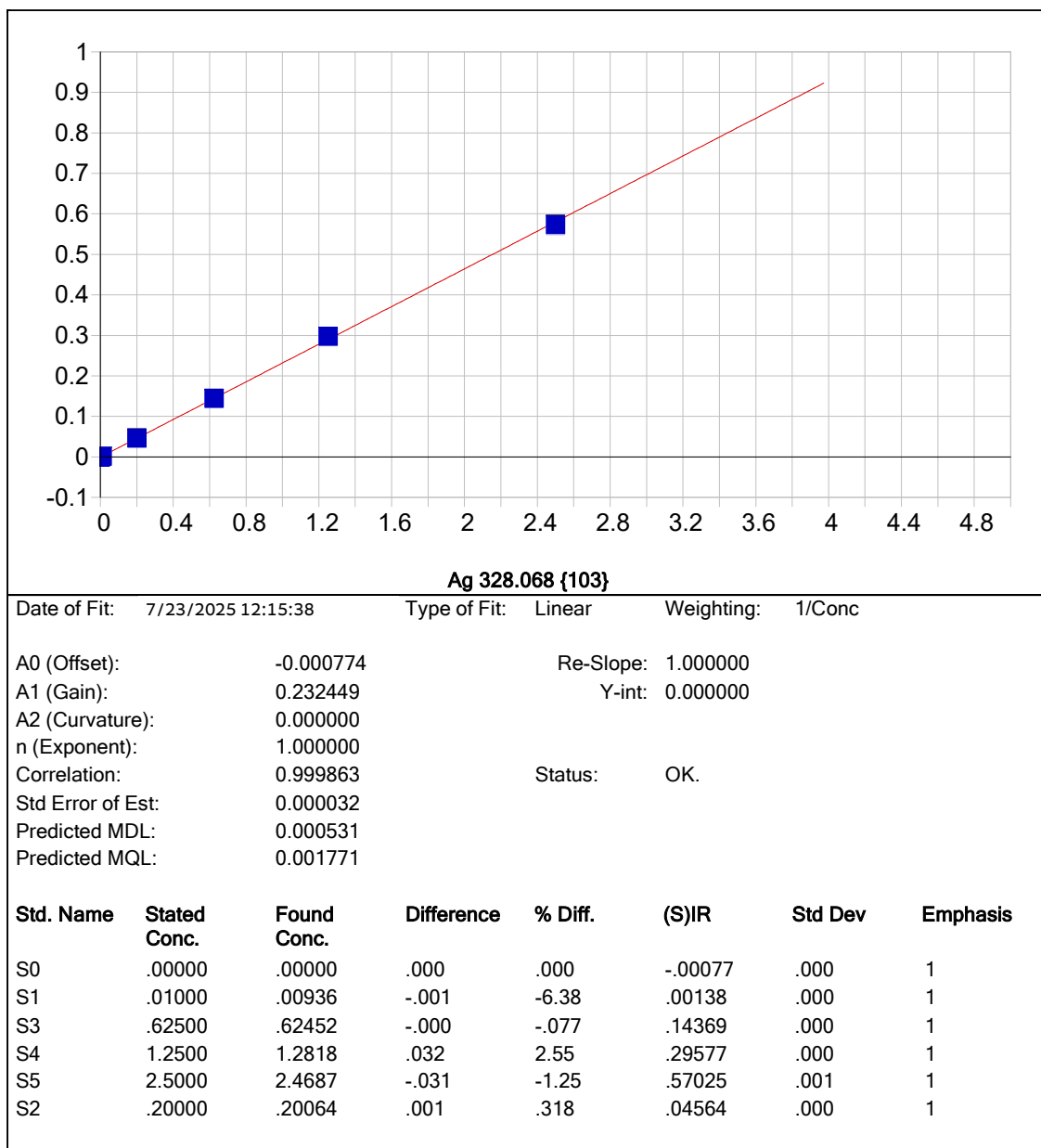


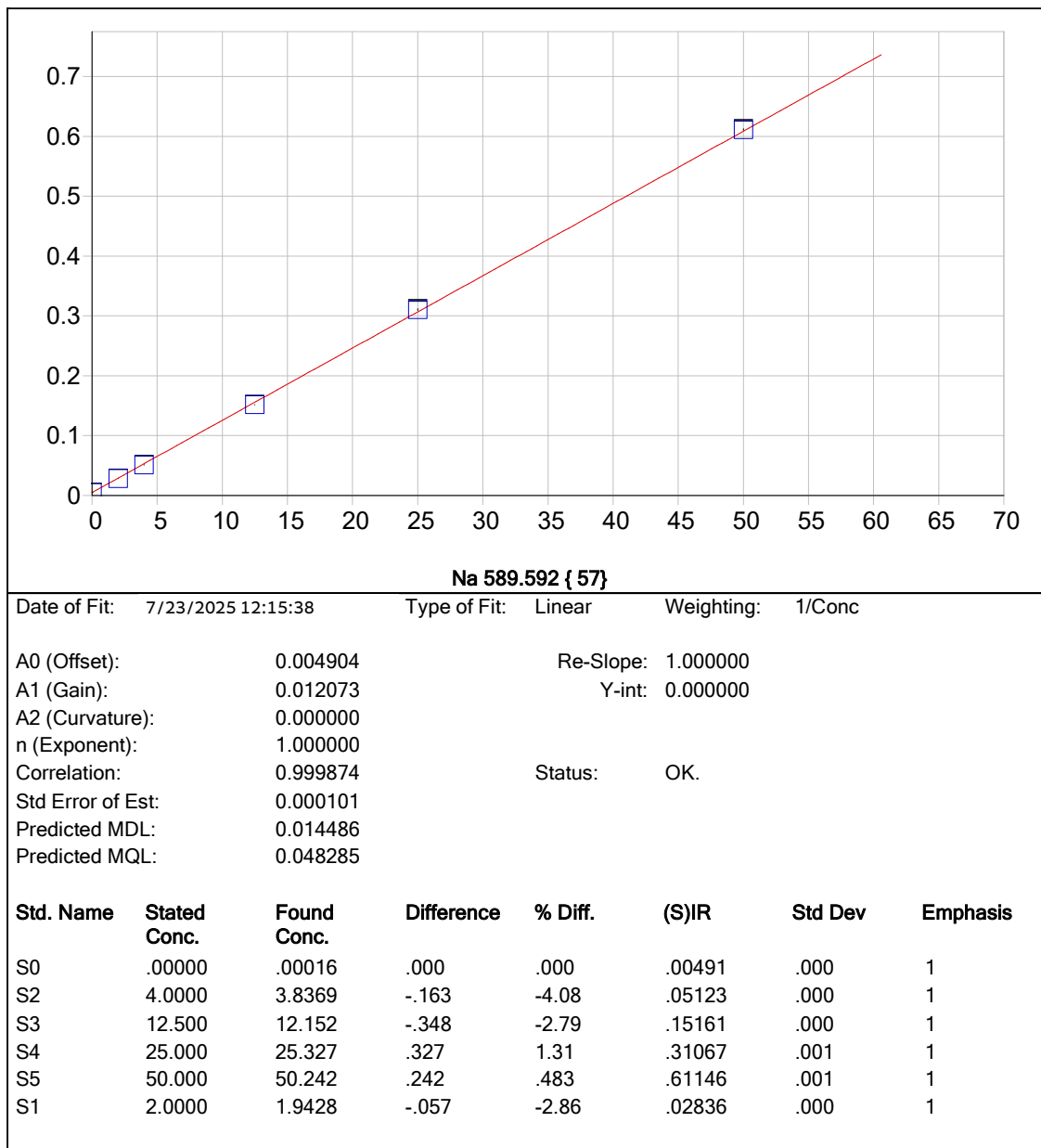
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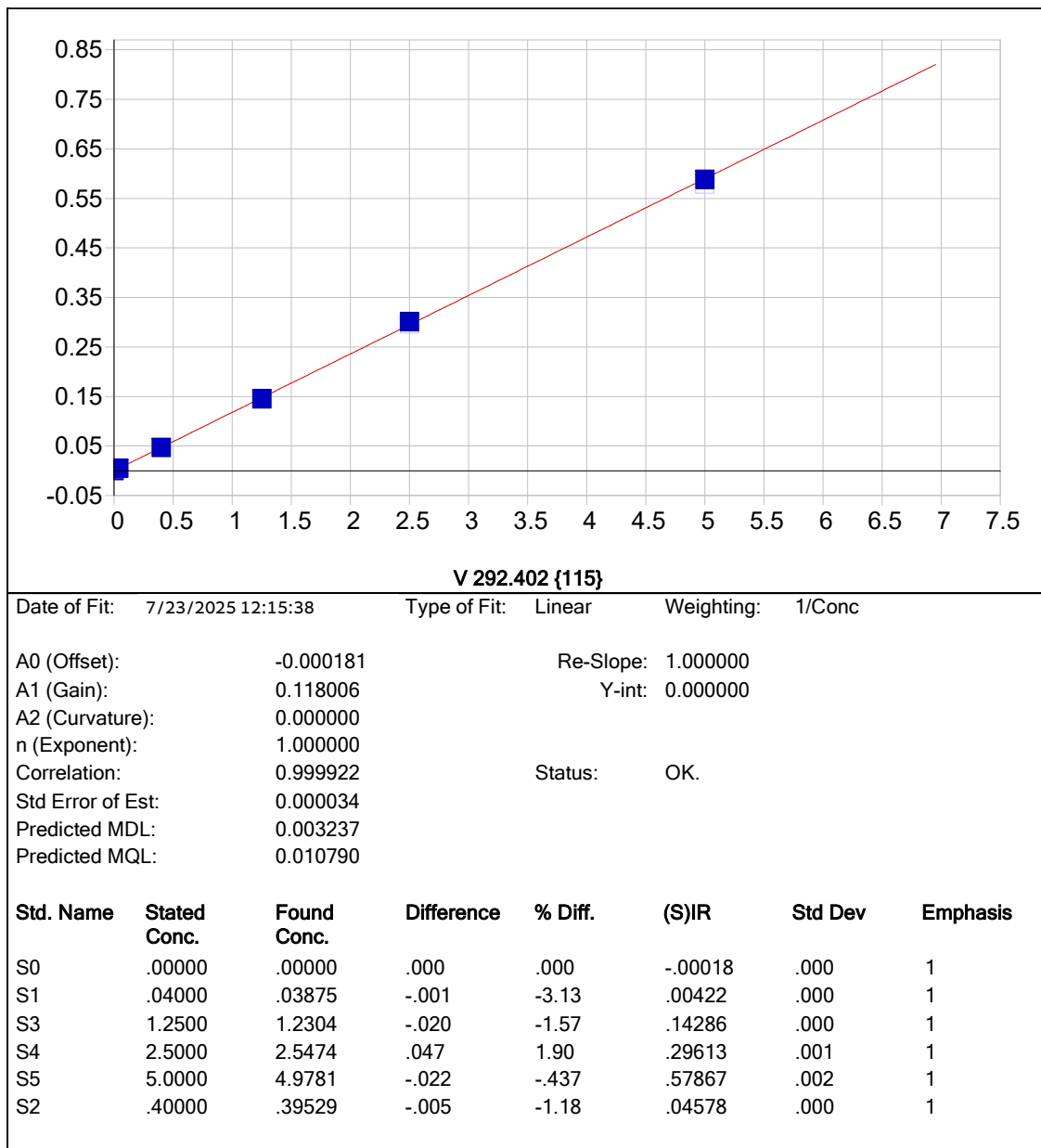
Date of Fit: 7/23/2025 12:15:38 Type of Fit: Linear Weighting: 1/Conc

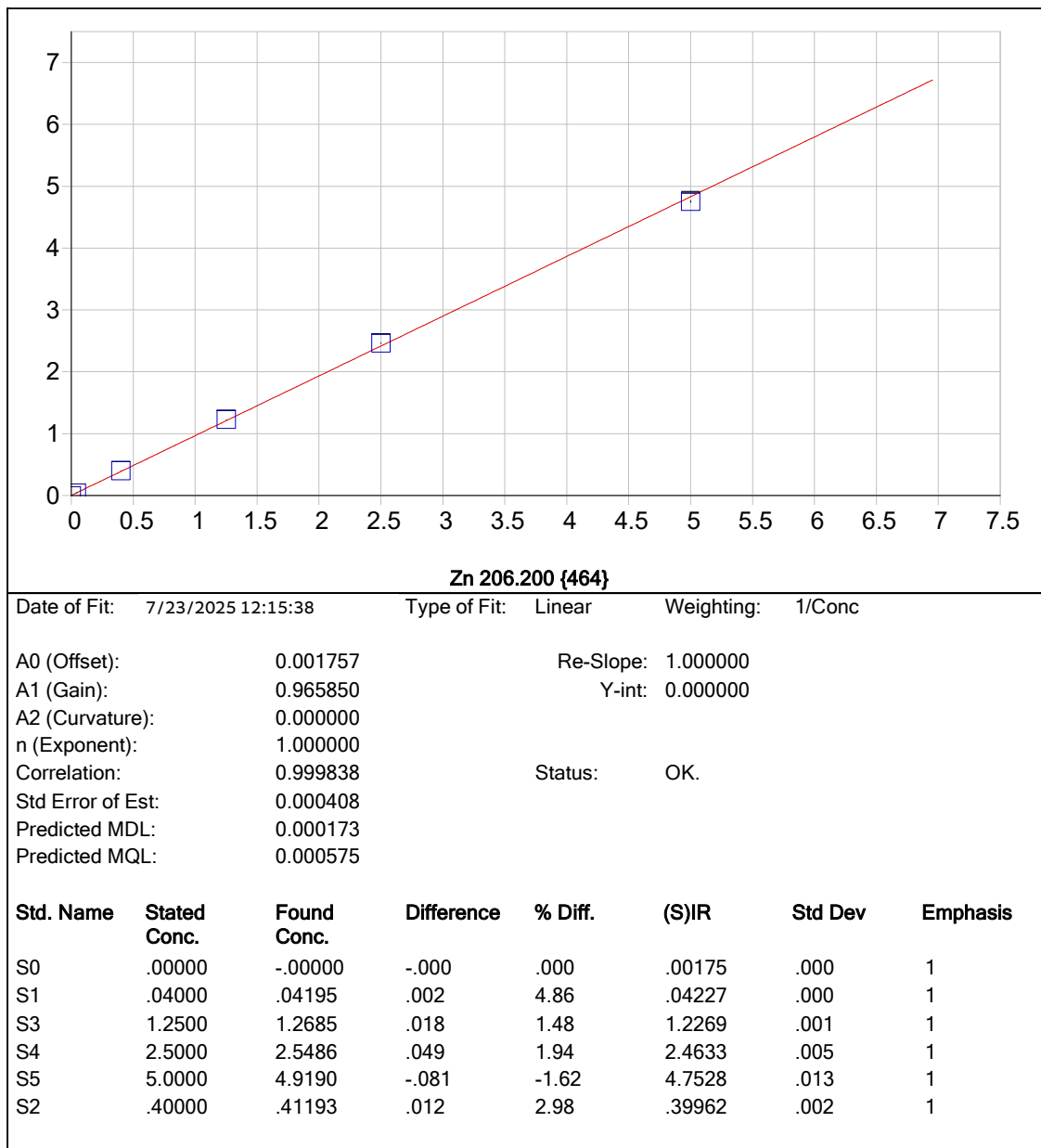
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A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999963 Status: OK.
Std Error of Est: 0.000134
Predicted MDL: 0.000345
Predicted MQL: 0.001149

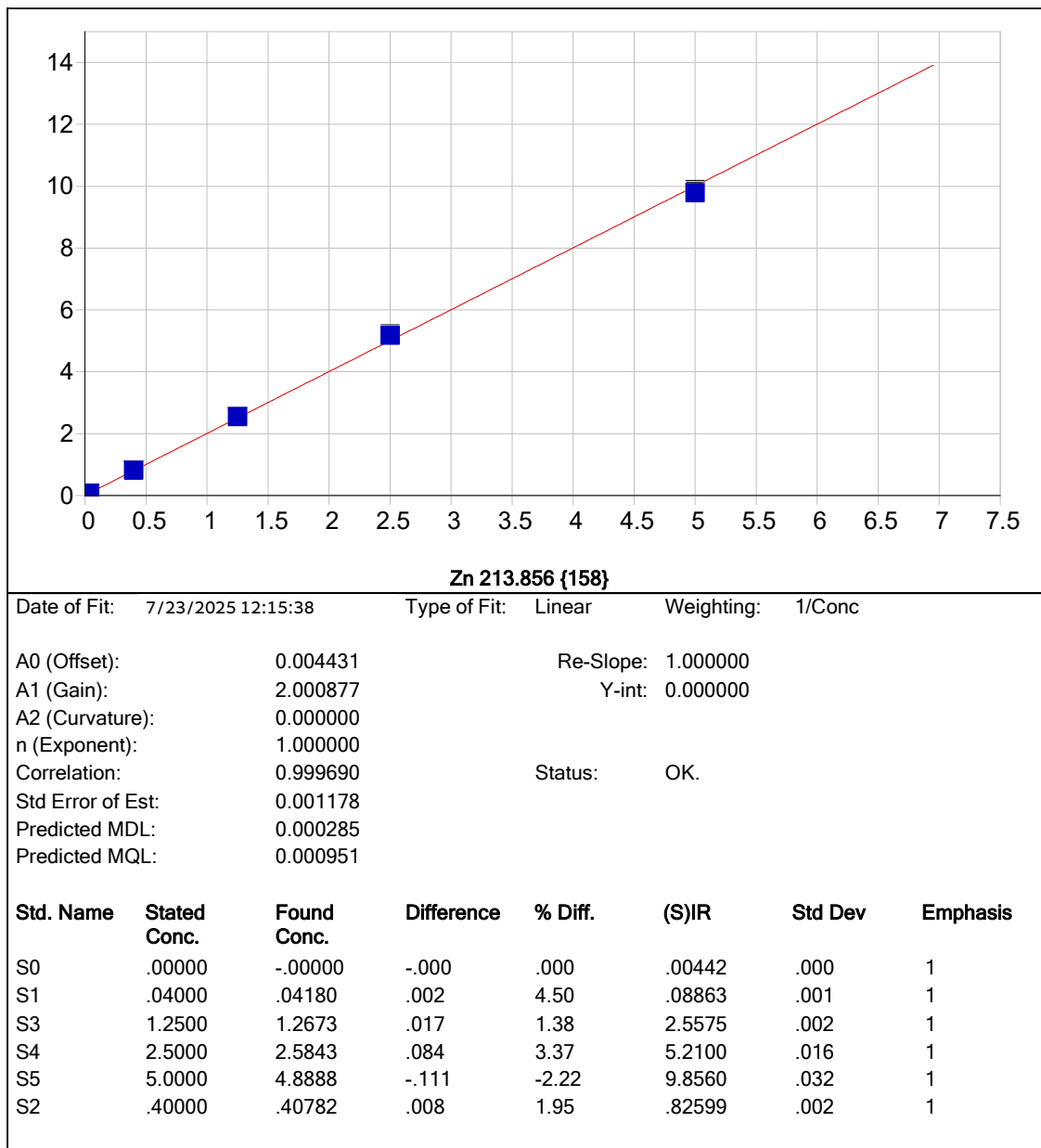
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00062	.000	1
S1	.04000	.04095	.001	2.38	.02650	.000	1
S3	1.2500	1.2306	-.019	-1.55	.81430	.001	1
S4	2.5000	2.5264	.026	1.06	1.6724	.004	1
S5	5.0000	4.9977	-.002	-.045	3.3090	.011	1
S2	.40000	.39429	-.006	-1.43	.26049	.001	1

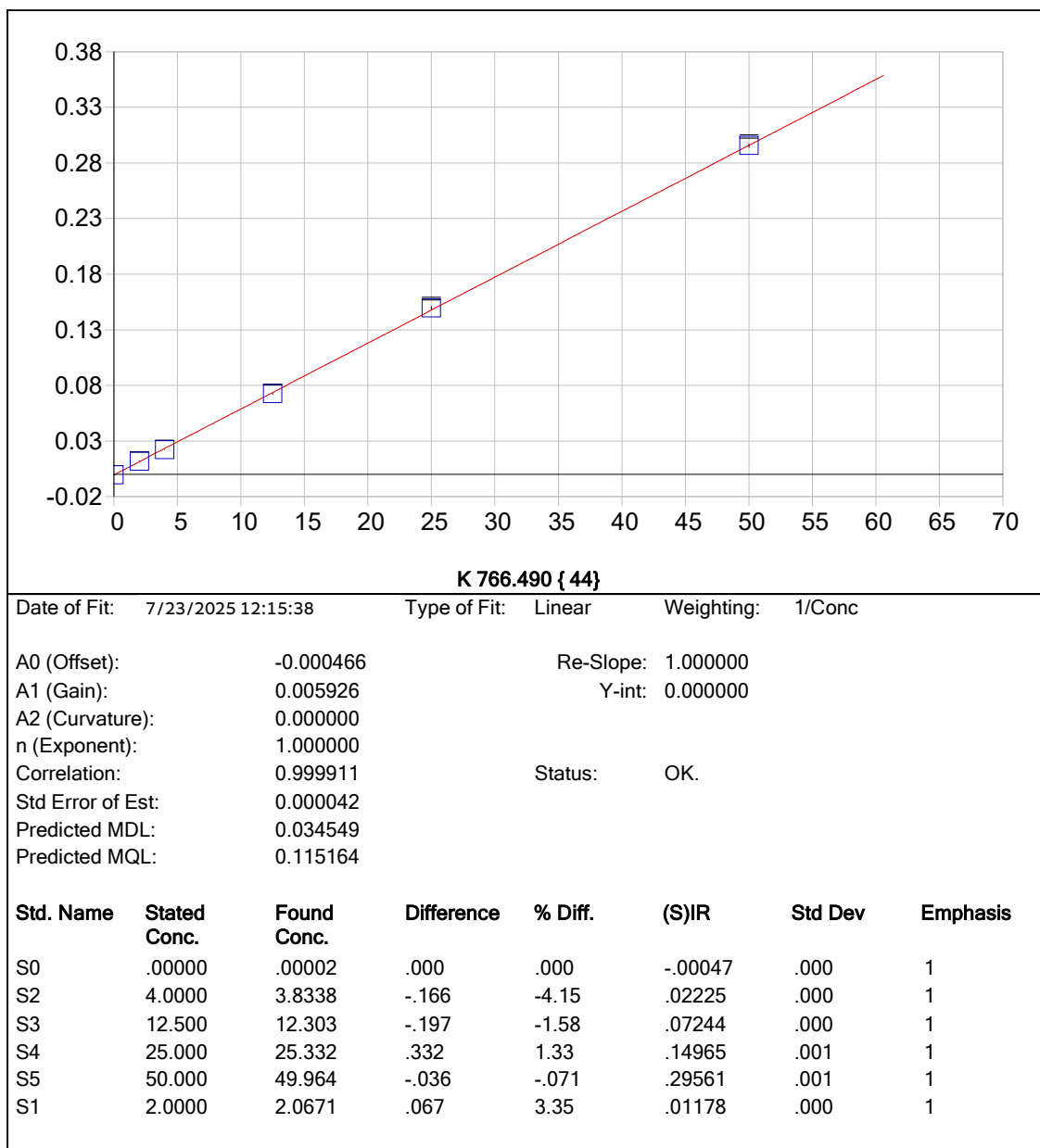


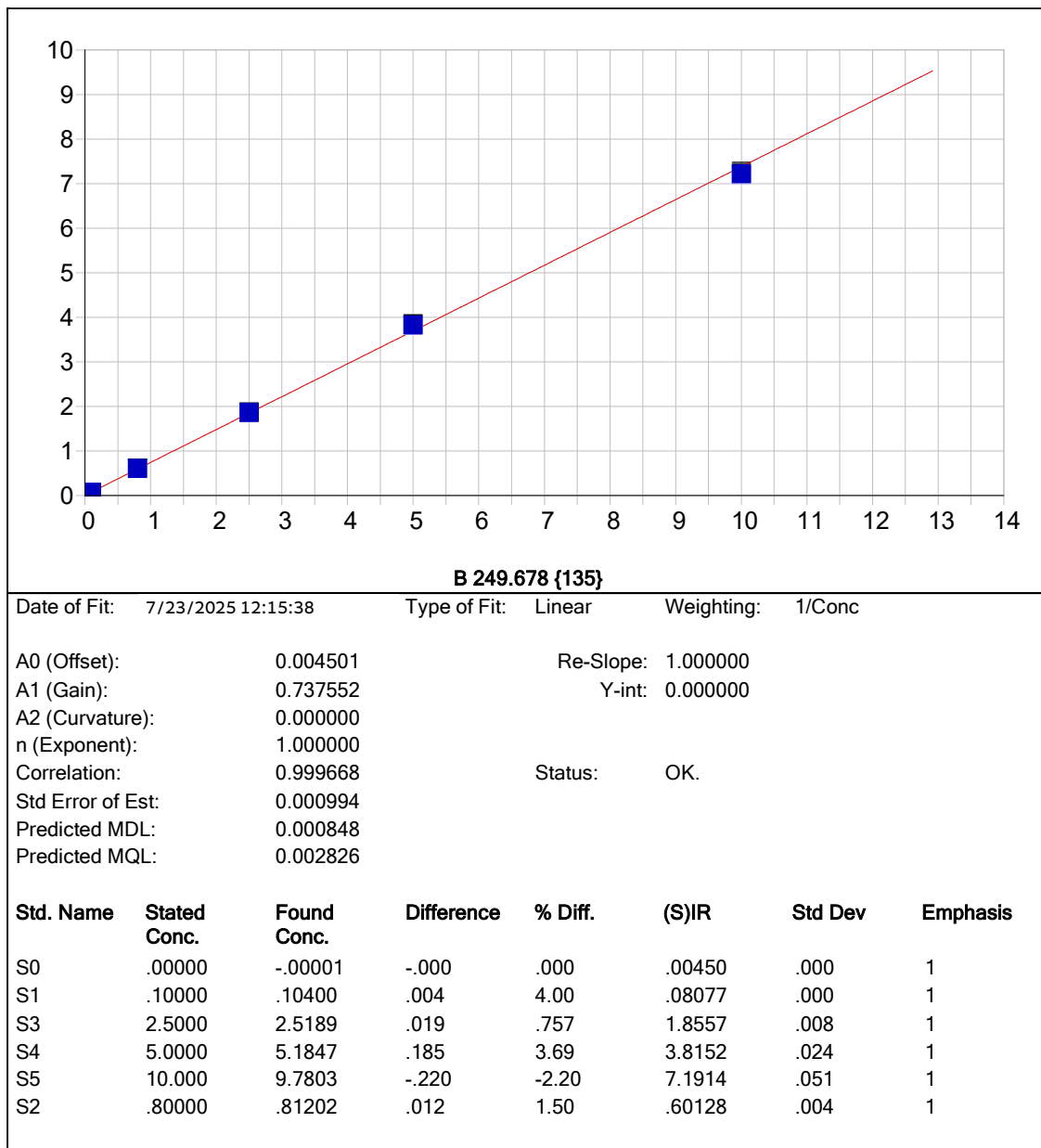


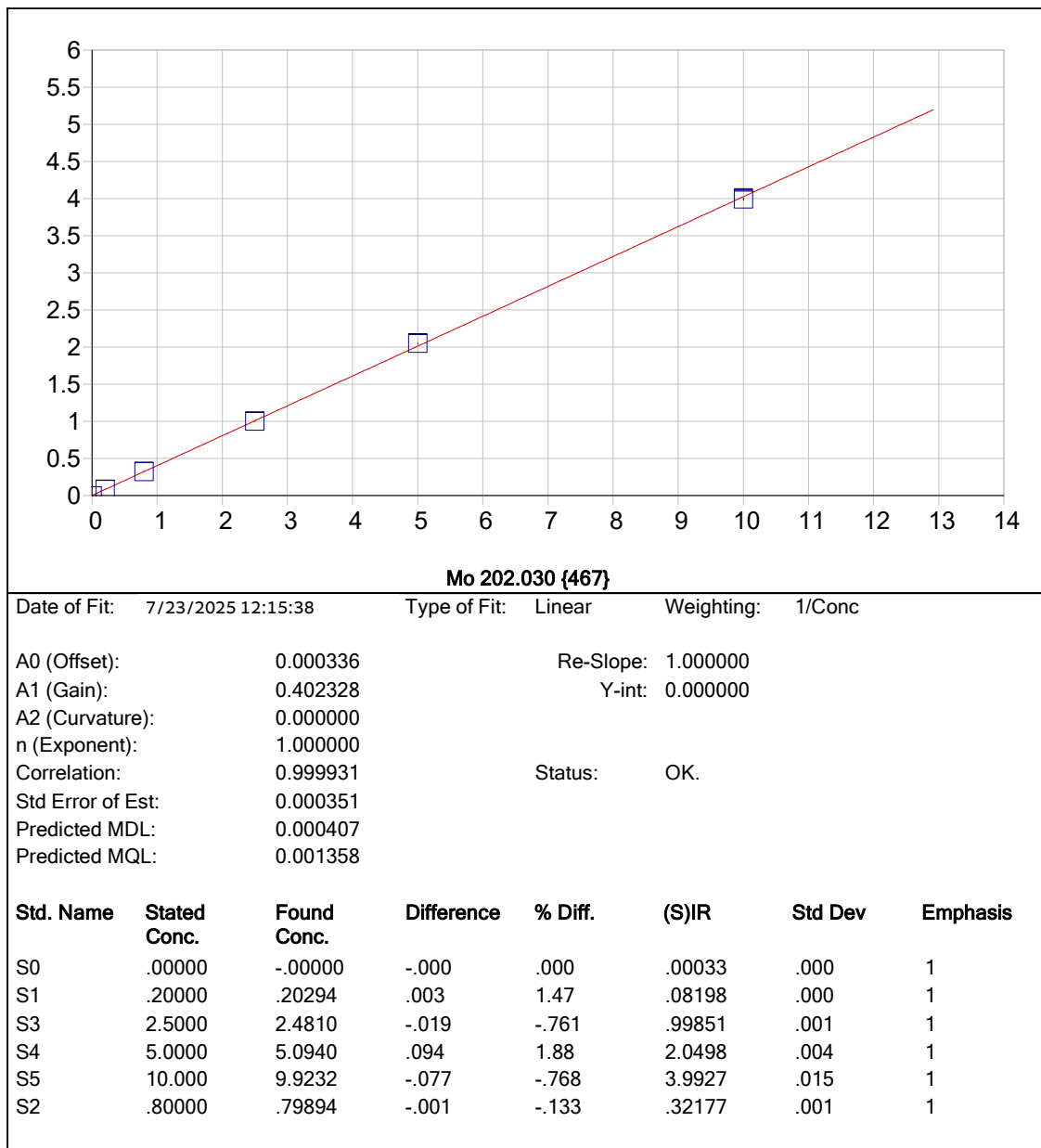


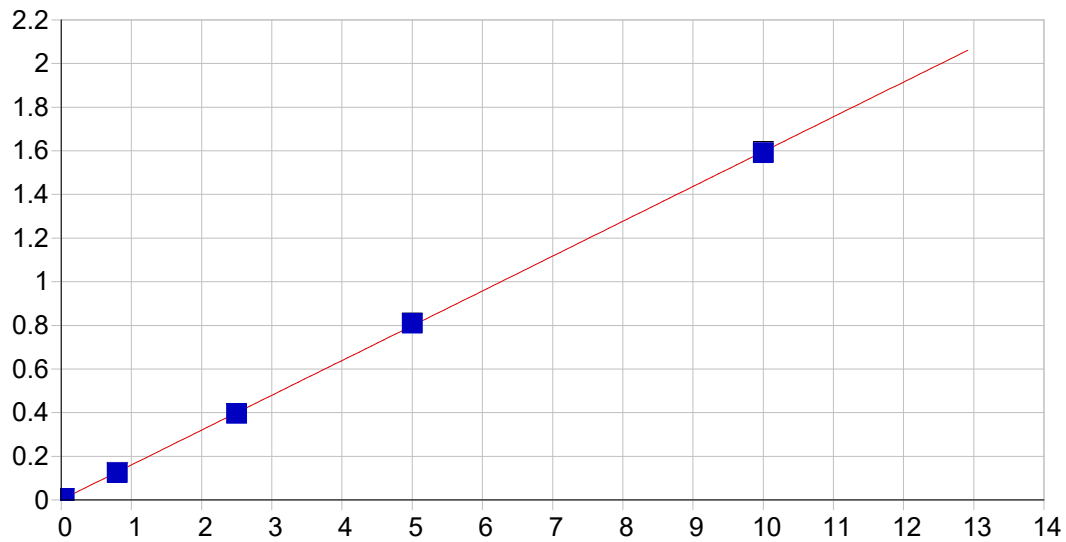










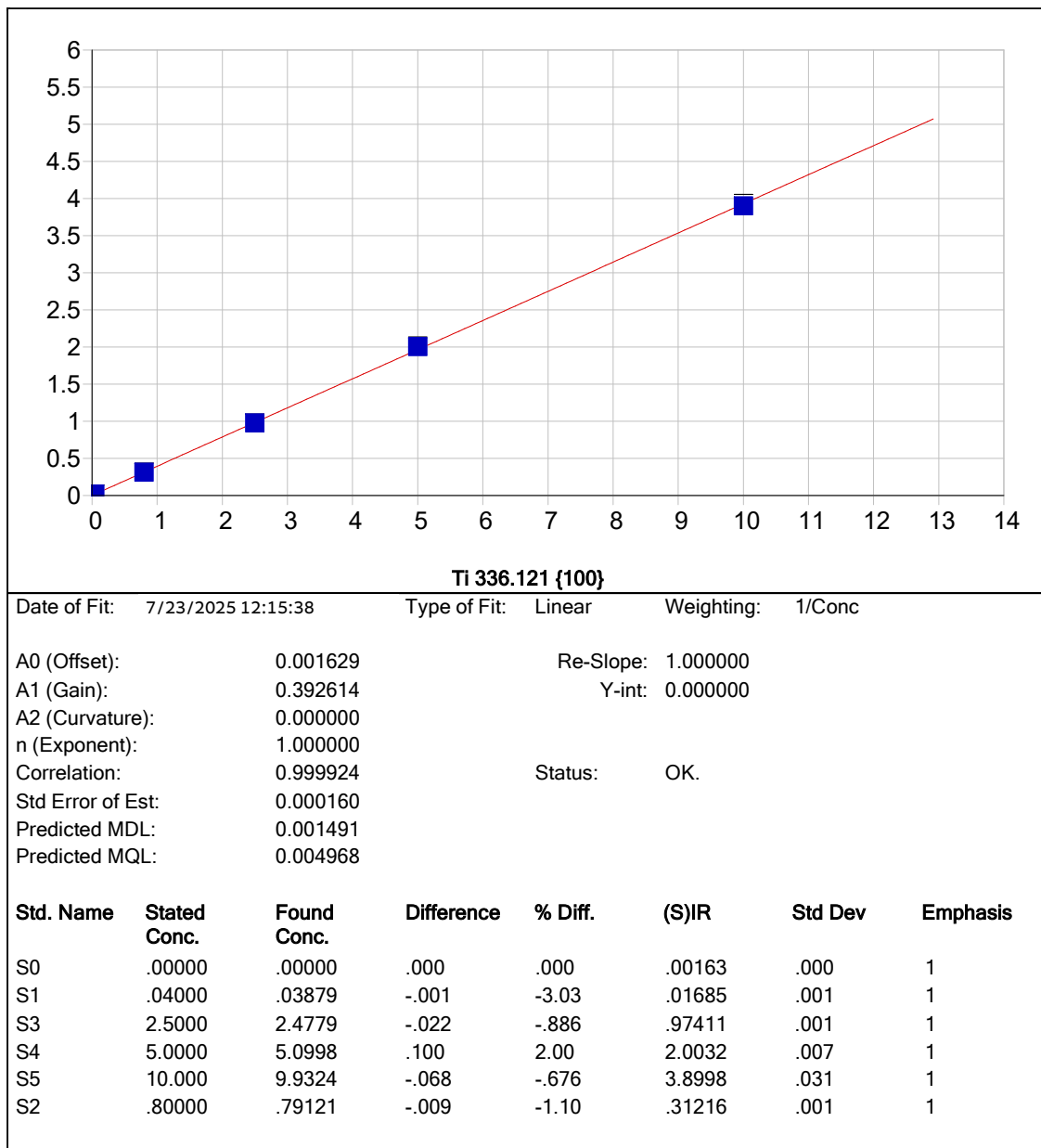


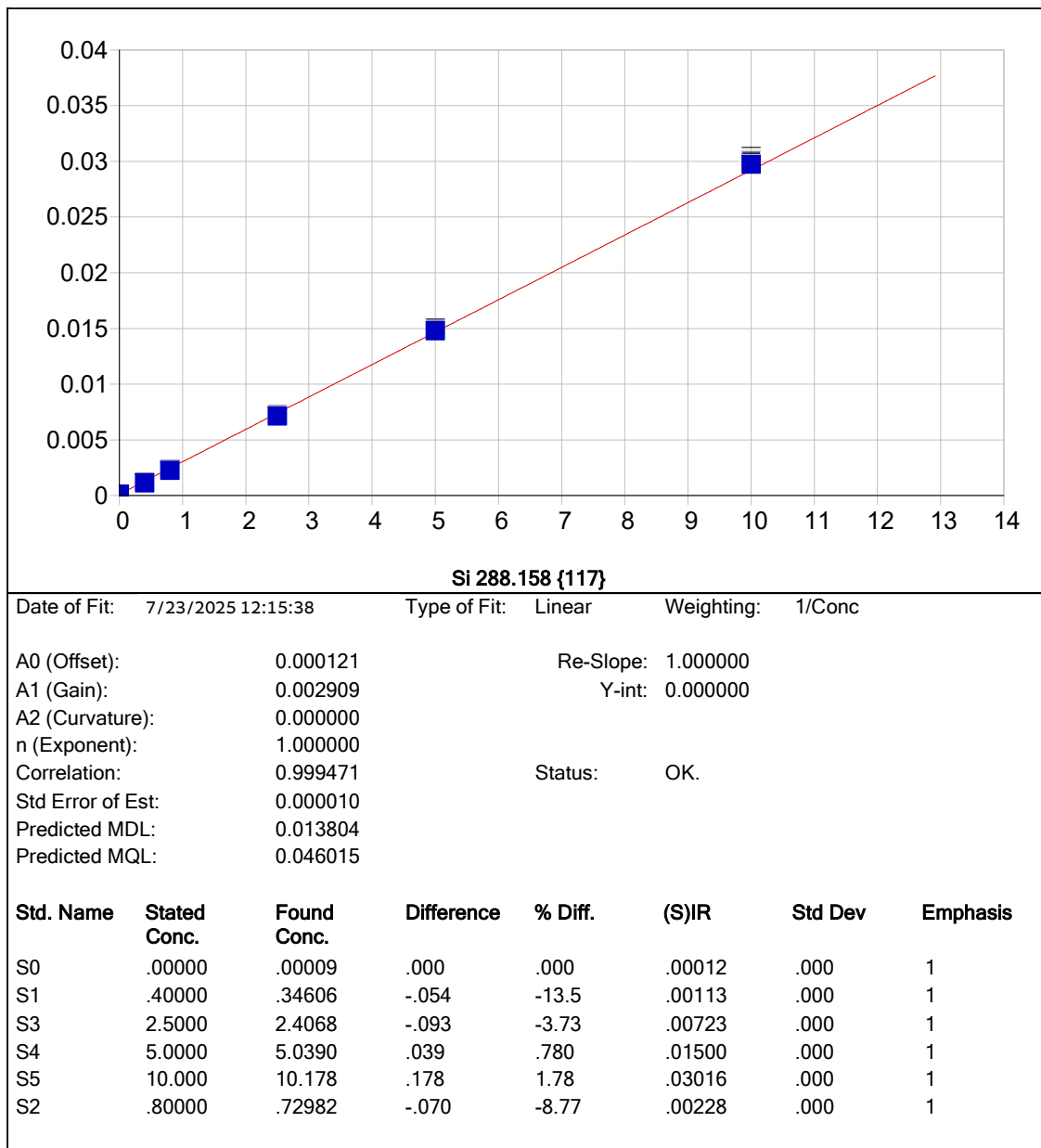
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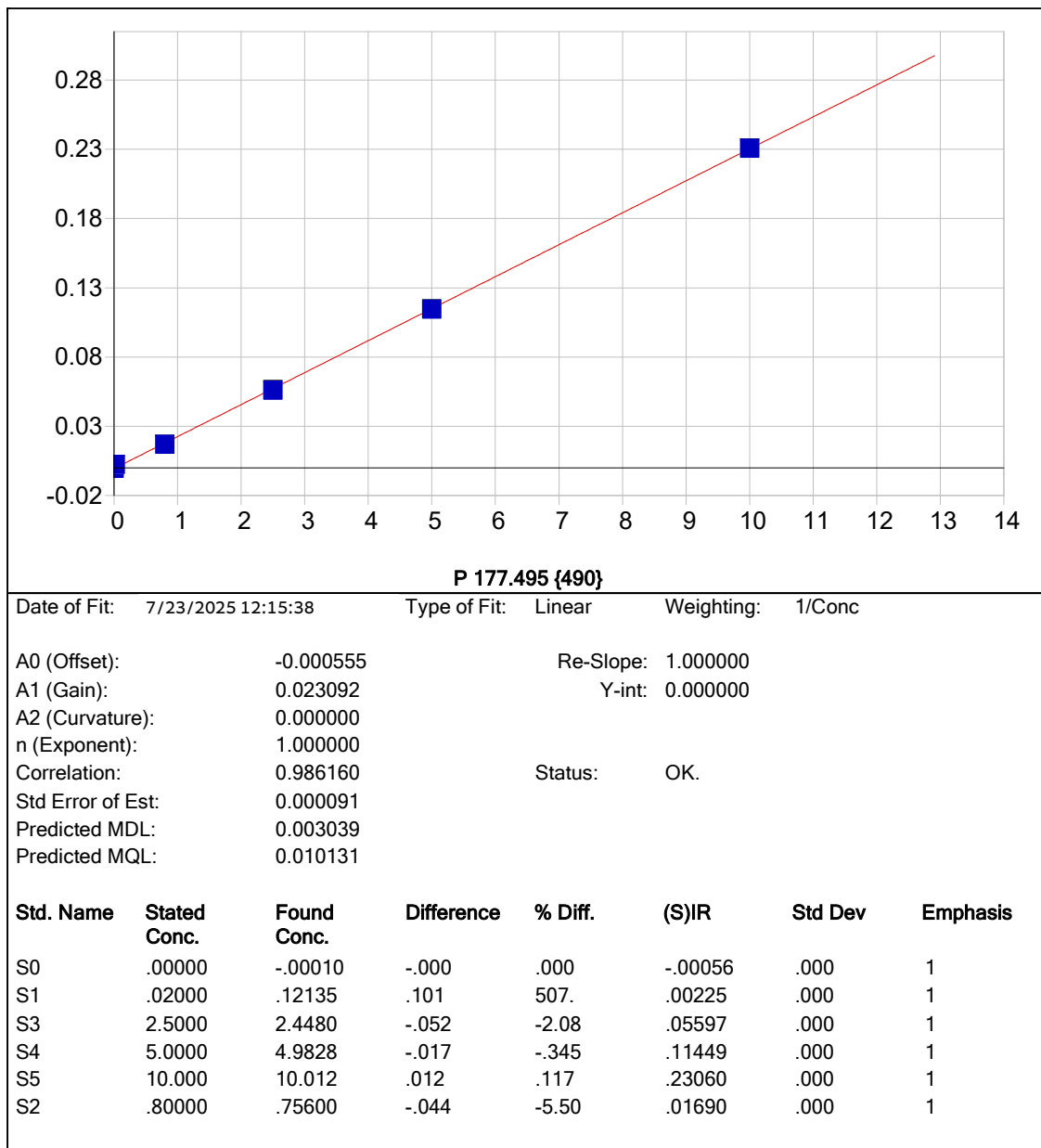
Date of Fit: 7/23/2025 12:15:38 Type of Fit: Linear Weighting: 1/Conc

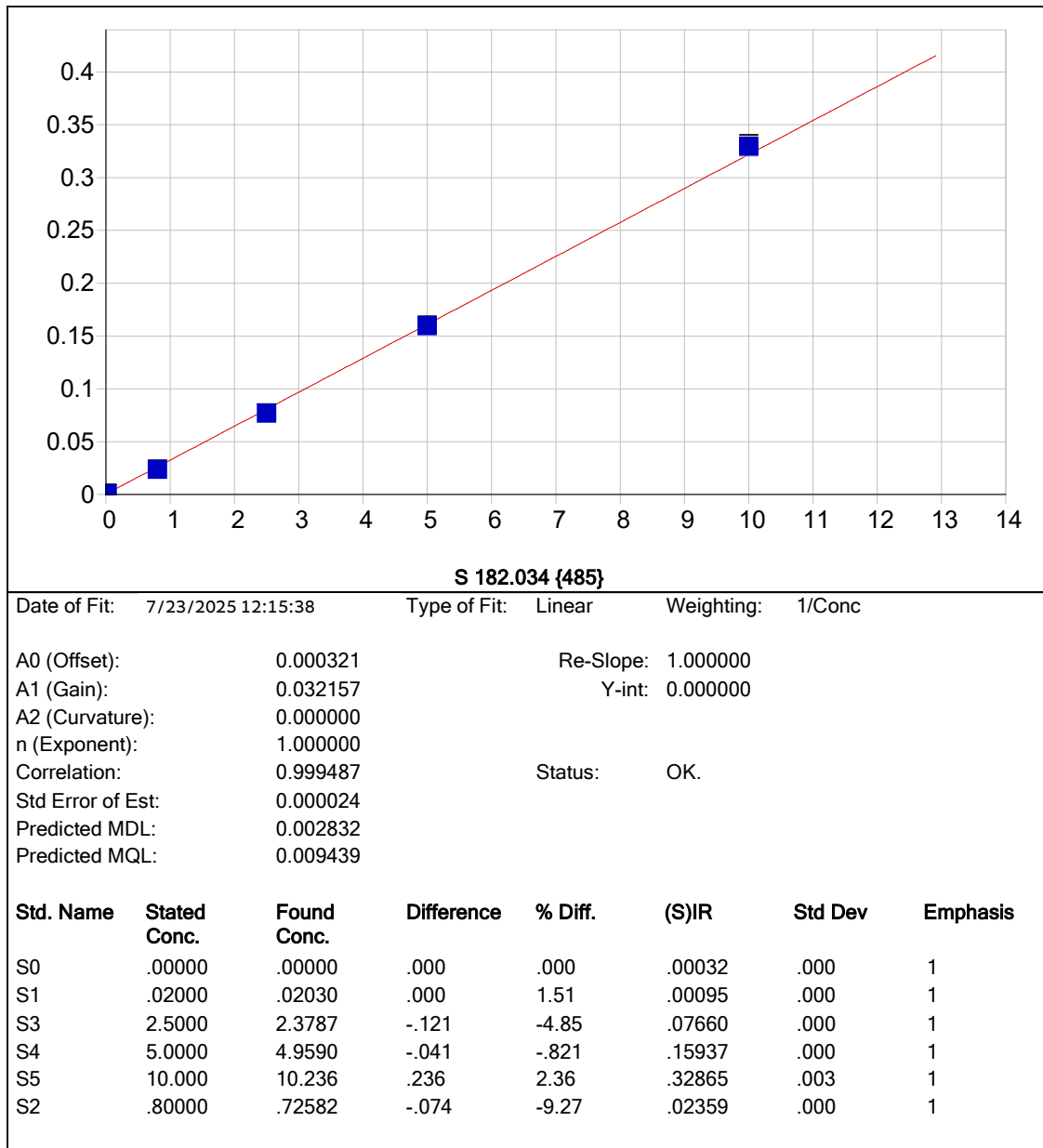
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A1 (Gain): 0.159546 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999952 Status: OK.
Std Error of Est: 0.000052
Predicted MDL: 0.000636
Predicted MQL: 0.002121

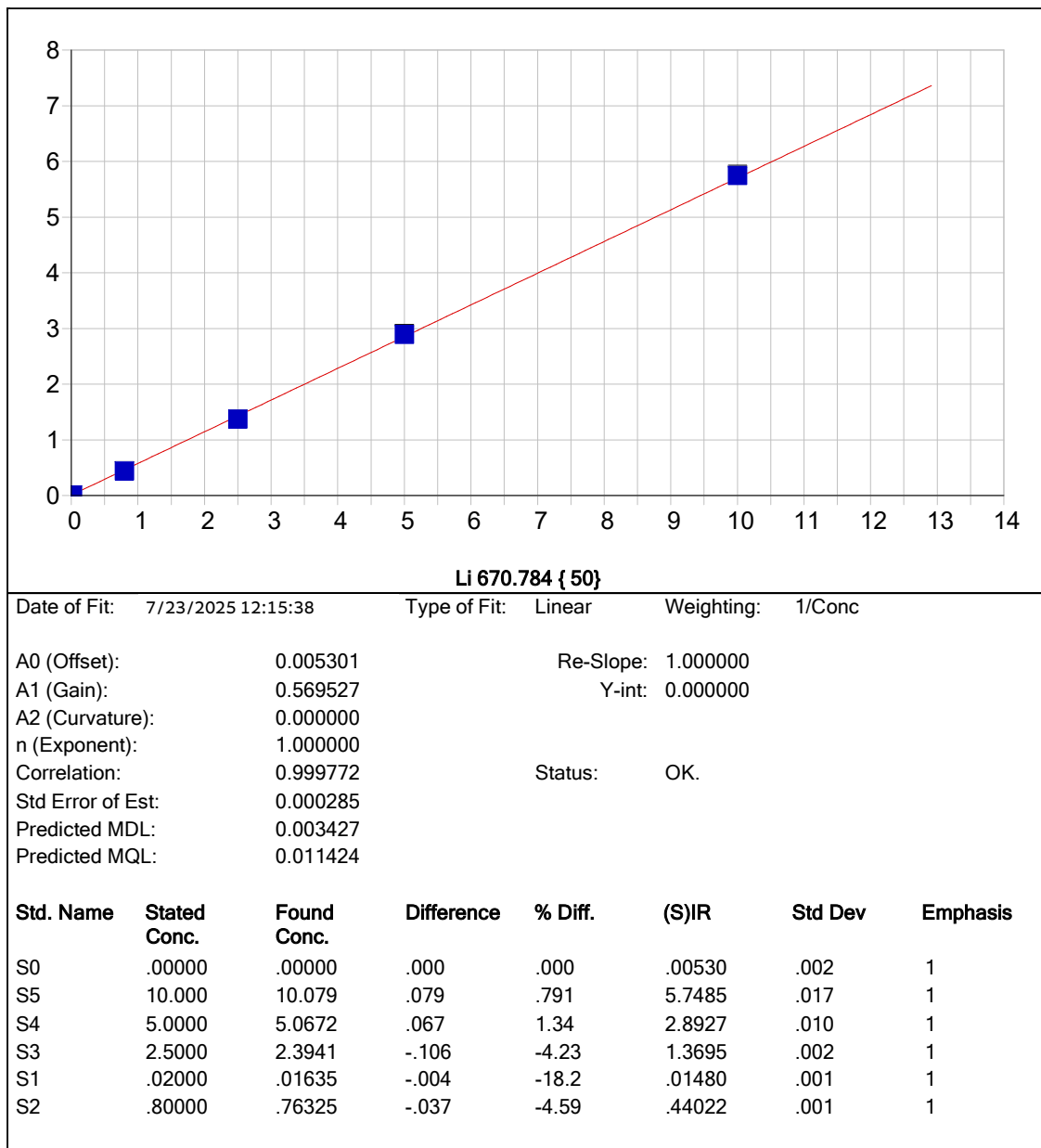
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00060	.000	1
S1	.04000	.04140	.001	3.50	.00720	.000	1
S3	2.5000	2.4750	-.025	-.998	.39508	.001	1
S4	5.0000	5.0695	.070	1.39	.80861	.001	1
S5	10.000	9.9723	-.028	-.277	1.5900	.005	1
S2	.80000	.78170	-.018	-2.29	.12519	.001	1

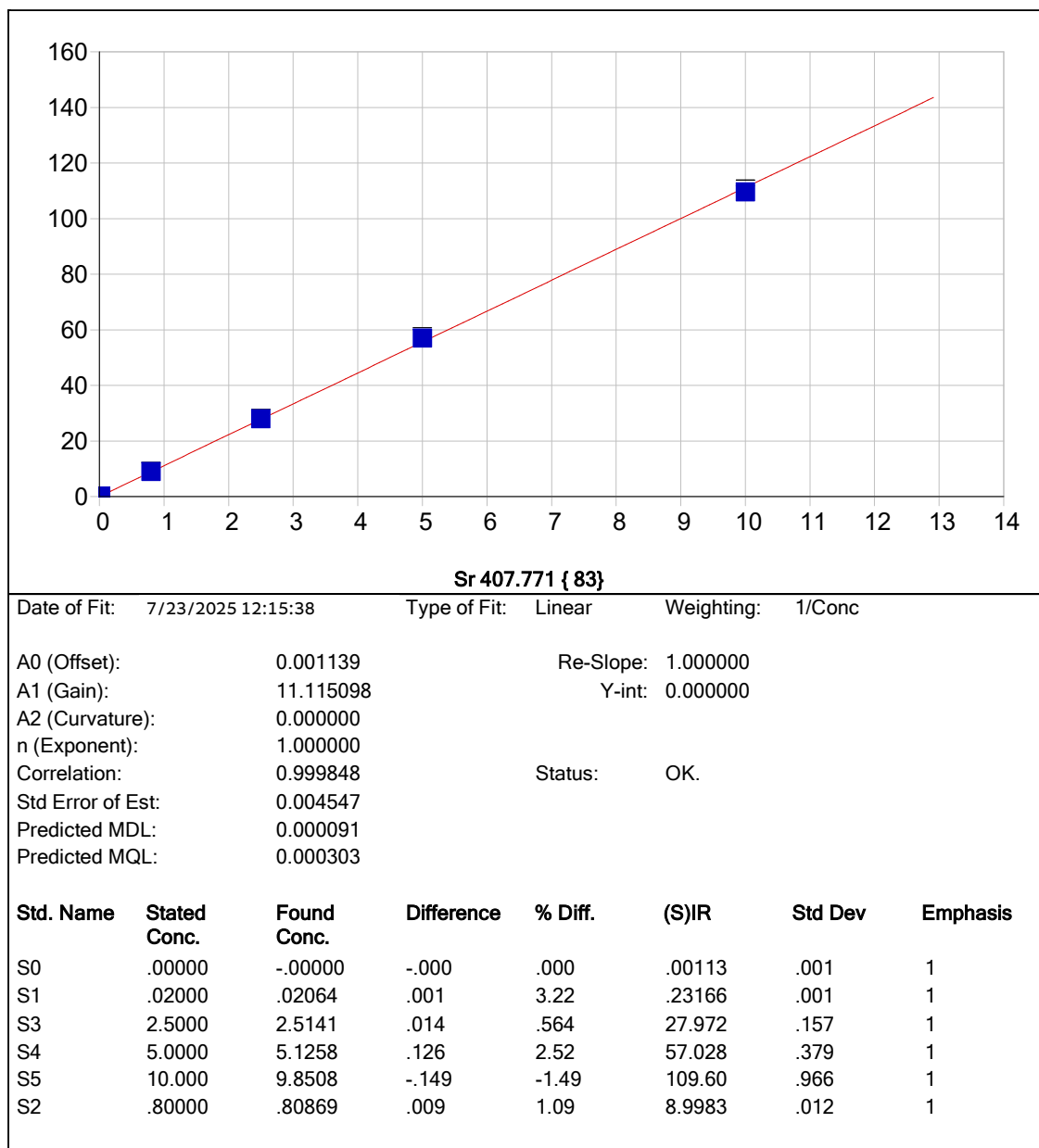


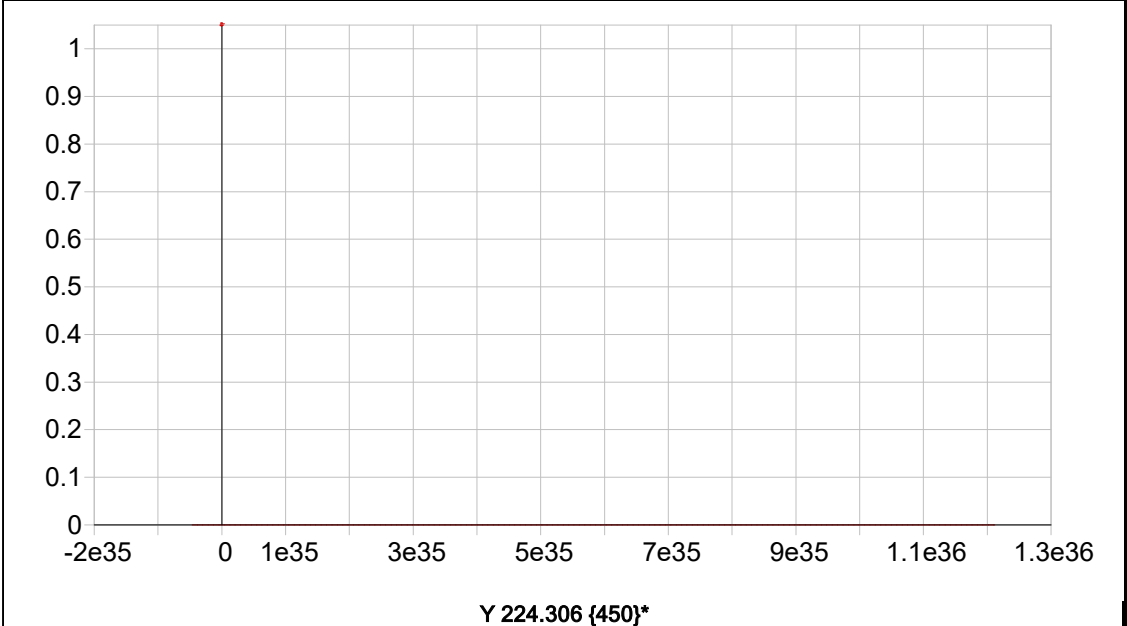






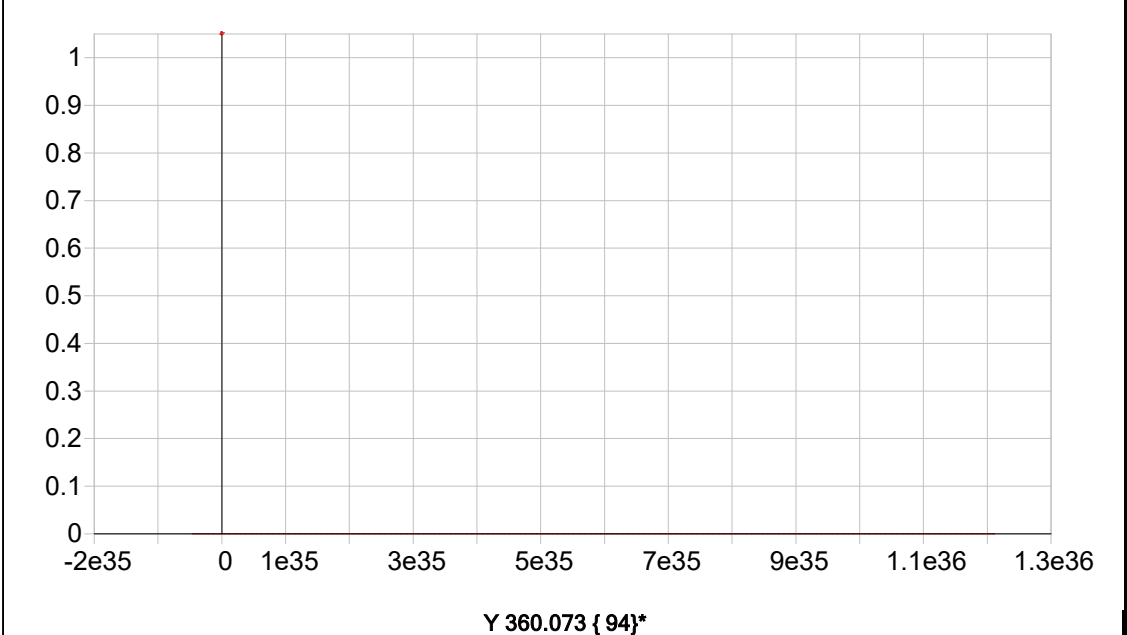




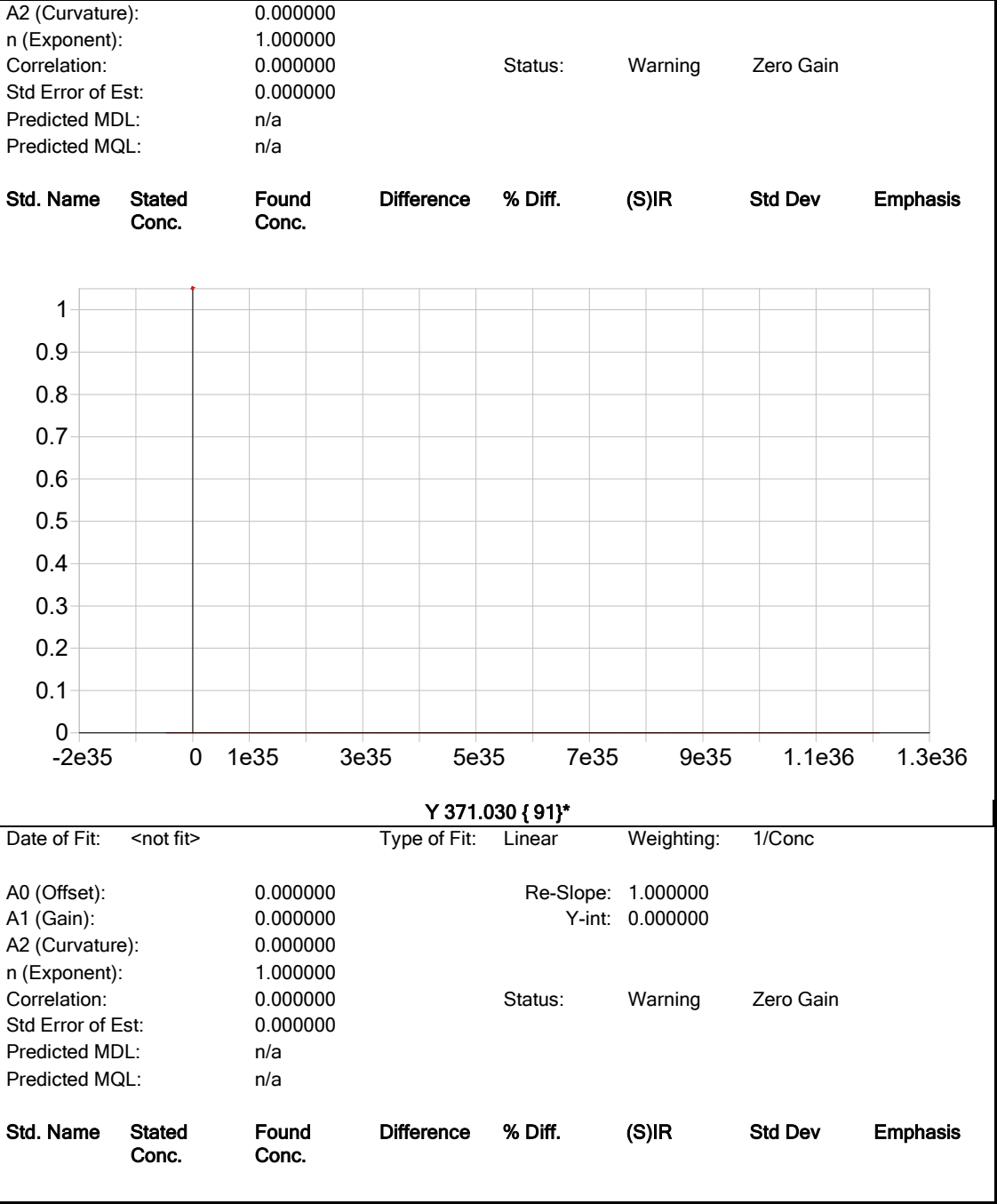


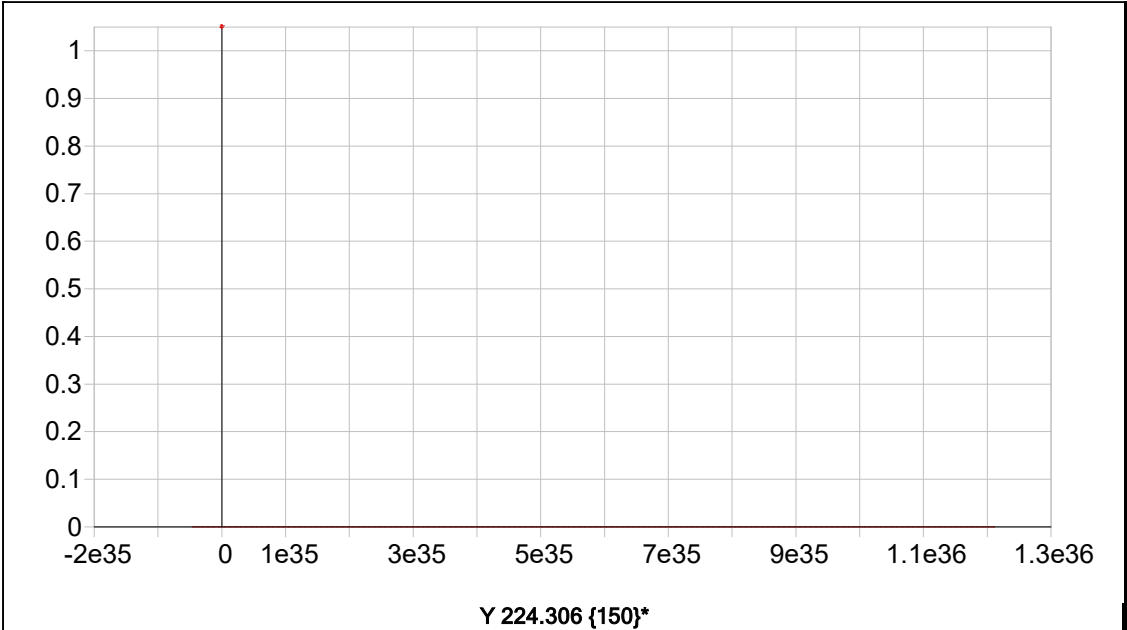
Date of Fit:	7/23/2025 12:15:38	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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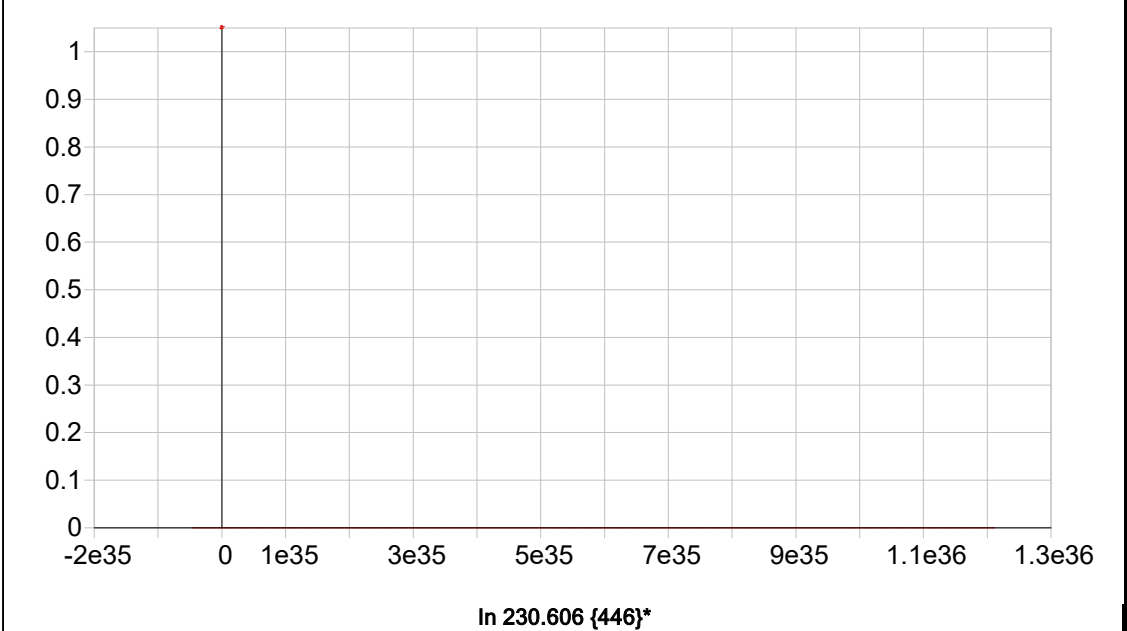
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000	Re-Slope:	1.000000		
A1 (Gain):	0.000000	Y-int:	0.000000		





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
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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

- 1
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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	

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

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

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

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

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	

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

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	

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

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

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

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

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

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

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

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

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	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	2.494389	2.403999	24.71959	9.9627726	2.427864	1.230471	4.887250
Stddev	.0011504	.005925	.11744	.0057498	.006430	.005541	.029631
%RSD	.4611976	.2464471	.4750693	.5972095	.2648532	.4503536	.6062817

#1	2.2502925	2.397848	24.74046	9.9667287	2.421759	1.224947	4.862602
#2	2.2481307	2.404480	24.59313	9.9561770	2.427256	1.230437	4.920124
#3	2.2498935	2.409668	24.82520	9.9654121	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

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

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

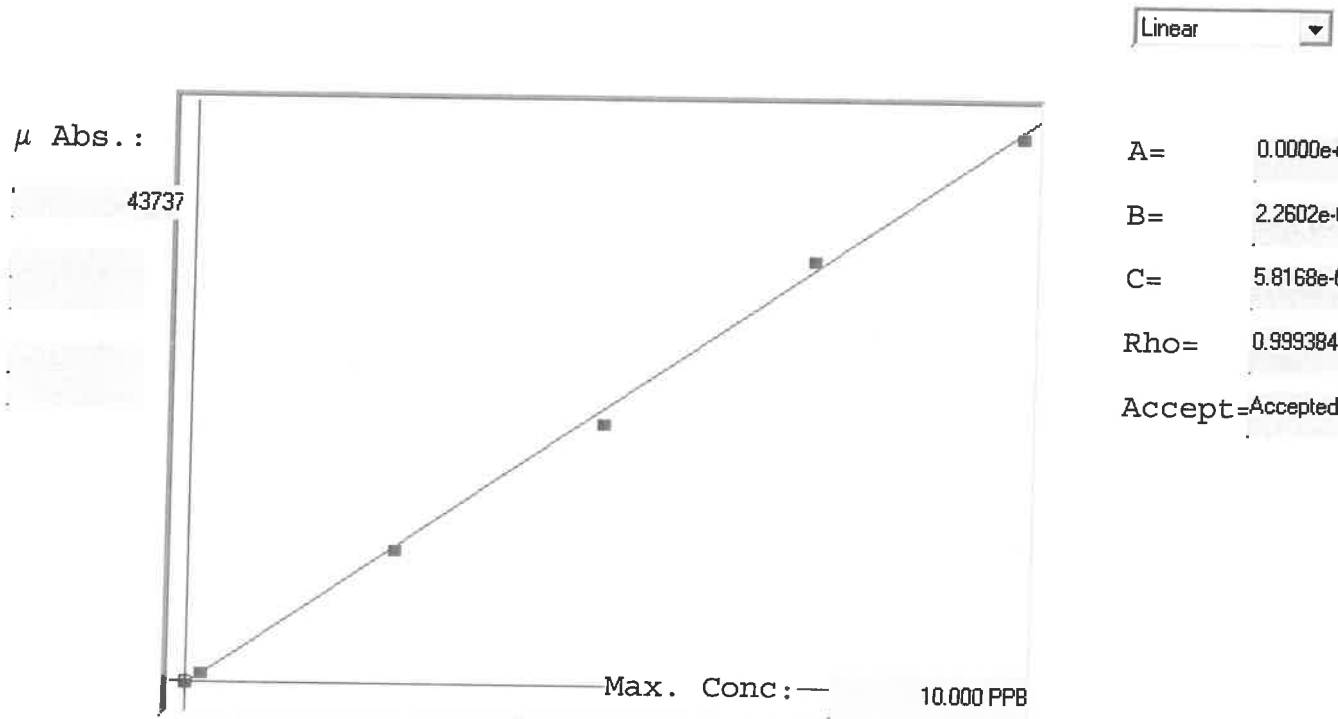
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5586.785	90189.89	8289.638	4728.507	7033.919
Stddev	9.013	251.34	70.465	29.286	7.975
%RSD	.1613192	.2786785	.8500323	.6193517	.1133837

#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

LB136613

7471B

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	0.042	0.042	-70	0.000	-70					
0.2	0.200	0.238	0.038	795	0.0 %	795					
2.5	2.500	2.483	-0.017	10729	0.0 %	10729					
5.0	5.000	4.780	-0.220	20891	0.0 %	20891					
7.5	7.500	7.713	0.213	33868	0.0 %	33868					
10.0	10.000	9.944	-0.056	43737	0.0 %	43737					

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	Std Conc	Method	Date
S	0.0 - 1	50	-	-70	PPB	Std	0.0000	7471B	25 Jul 2025 10:55:35
S	0.2 - 1	102	-	795	PPB	Std	0.2000	7471B	25 Jul 2025 11:00:43
S	2.5 - 1	52.5	-	10729	PPB	Std	2.5000	7471B	25 Jul 2025 11:03:00
S	5.0 - 1	55	-	20891	PPB	Std	5.0000	7471B	25 Jul 2025 11:05:17
S	7.5 - 1	57.5	-	33868	PPB	Std	7.5000	7471B	25 Jul 2025 11:07:35
S	10.0 - 1	51	-	43737	PPB	Std	10.0000	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

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SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette 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: *SKS*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard 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	<i>SKS.met.dig</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

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 9:56
Raw Sample Received by: SCS mcd
Raw Sample Relinquished by: JSC

Date/Time 07/21/25 10:56
Raw Sample Received by: SCS
Raw Sample Relinquished by: SCS mcd

SOP ID : M7471B-Mercury-19

SDG No : NA

Matrix : SOIL

Pipette 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

Standardized 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
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 11:20	<i>[Signature]</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

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	NOBI03	O13	07/17/2025	7471B
Q2687-01	VNJ-251	Solid	Mercury	Cool 4 deg C	PSEG05	D21	07/23/2025	7471B
Q2689-01	OR-03-07232025	Solid	Mercury	Cool 4 deg C	PSEG03	D21	07/23/2025	7471B
Q2691-01	295	Solid	Mercury	Cool 4 deg C	PSEG05	D31	07/23/2025	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: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 7/24/25 @ 15:50
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

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	Concrete 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)

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 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 07/18/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

V87 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	PSEG03	D31	07/18/2025	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: SAWELLRaw Sample Relinquished by: CS

Date/Time

07/18/25

Raw Sample Received by:

Raw Sample Relinquished by:

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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-2024	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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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 Q3DUP	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 Q3MSD	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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch 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

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,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
909	ICP AES STD S3	MP86455	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

A)

FROM 25.00000ml of MP86453 + 75.00000ml of MP86452 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3913	ICP AES STD S2	MP86456	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

A)

FROM 16.00000ml of MP86453 + 184.00000ml of MP86452 = Final Quantity: 200.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
919	ICP AES INTERNAL STD	MP86463	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
903	ICP AES RINSE SOLN	MP86464	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP	Sarabjit Jaswal

FROM 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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								

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
68	STANNOUS CHLORIDE SOLUTION	MP86501	07/25/2025	07/26/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal
FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 ml								

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

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

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

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	CGT11-1 / 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

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

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 / TI, 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

CHEMICAL RECEIPT LOG BOOK

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

CHEMICAL RECEIPT LOG BOOK

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	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 / AI, 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

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 / lwona	07/03/2024 / lwona	W3112

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

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Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)



Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



M6032



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57056
010924
Barium (Ba)

Lot #
Solvent: 24002546 Nitric Acid

Expiration Date:

010927

2% 40.0 (mL) Nitric Acid

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

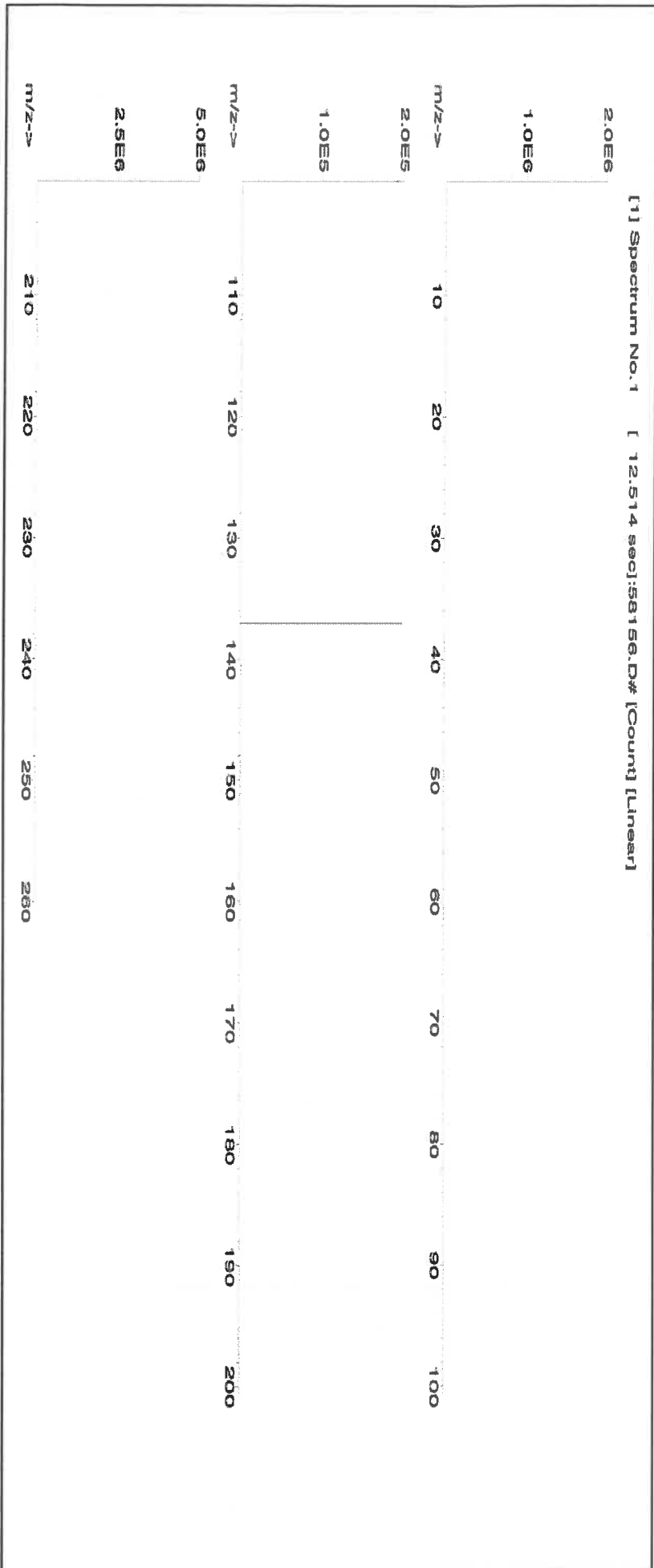
Giovanni Caporaso	
Formulated By:	Giovanni Esposito
	010924
Reviewed By:	Pedro L. Renteria
	010924

Compound

Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
------------	-----------------------	------------	-----------------	-------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Barium nitrate (Ba)	IN023	BA0022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	1000.1	2.0	10022-31-8	0.5 mg/m ³	or-hat 355 mg/kg 3104a
------------------------	-------	-------------	------	--------	------	------	---------	---------	--------	-----	------------	-----------------------	------------------------

[1] Spectrum No.1 [12.514 sec]:58156.D# [Count] [Linear]





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 certified (+/-) 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).



M6028



CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Solvent: 24002546 Nitric Acid
Lot #

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

SE-05 Balance Uncertainty

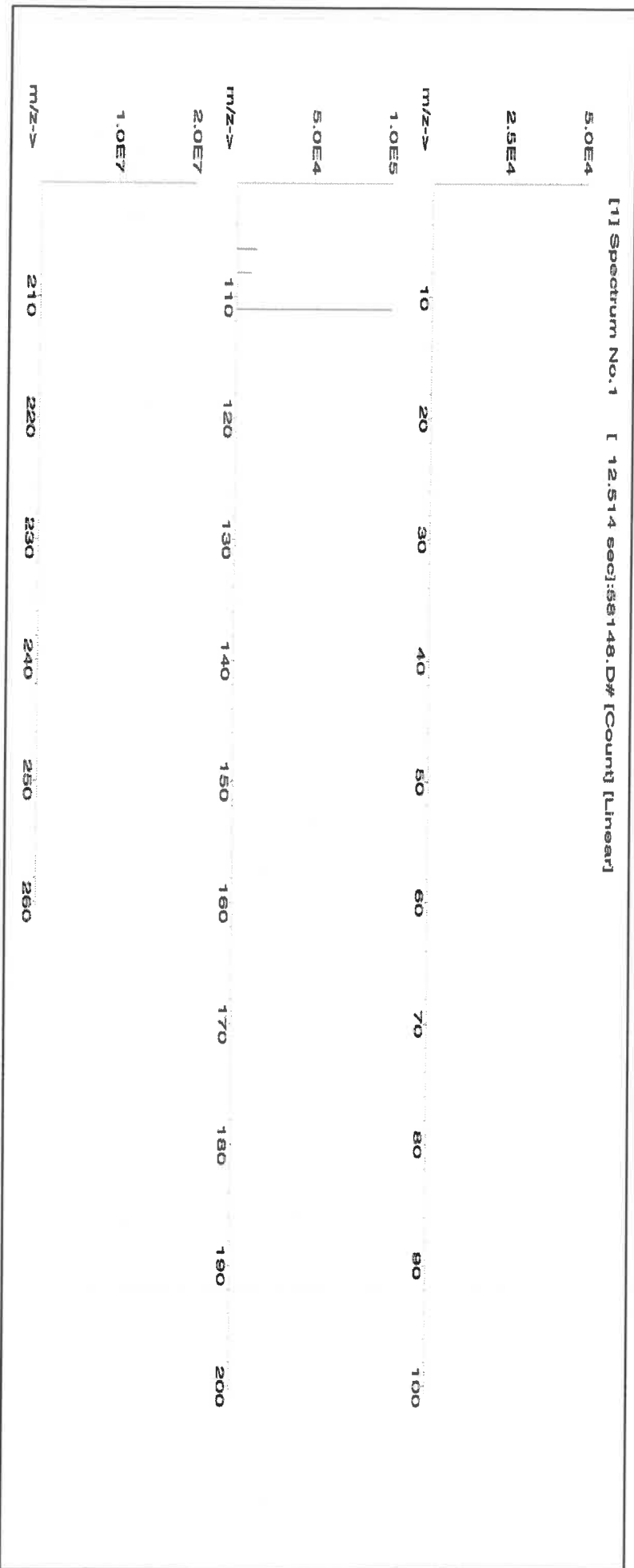
0.100 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	070124
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	070124

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty		CAS#	SDS Information		NIST SRM
									+/- (µg/mL)	(µg/mL)		(Solvent Safety Info. On Attached pg.)	LD50	

1. Cadmium nitrate tetrahydrate (Cd) IN024 CDM09221A1 1000 99.999 0.10 36.5 5.4797 5.4804 1000.1 2.0 10022-68-1 0.01 mg/m3 or-rat 60.2mg/kg 3108





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.2	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	Ba	<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	Cd	<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	Pr	<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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

Solvent: 21110221 Nitric Acid

Lot #

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

5E-05 Balance Uncertainty

0.12 Flask Uncertainty

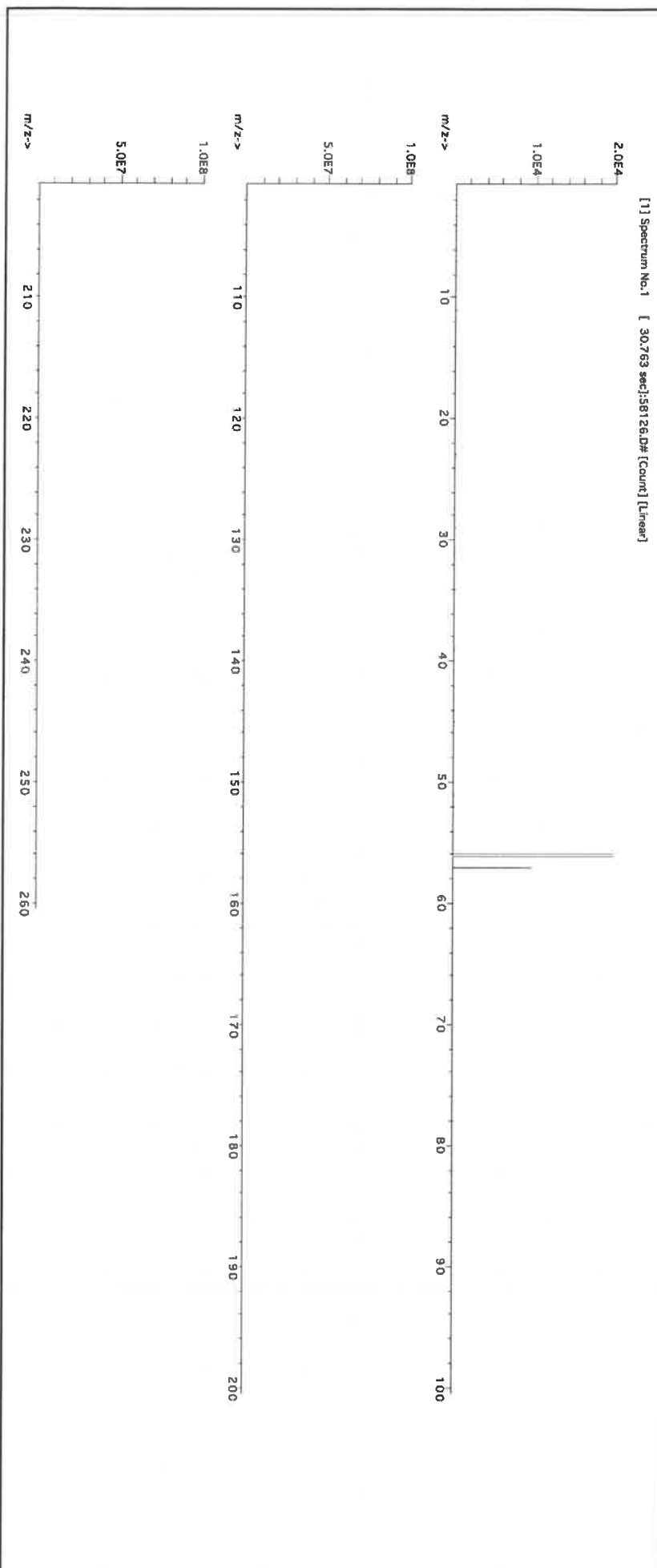
5.0% 250.0 (mL) Nitric Acid

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
	051523
<i>Pedro L. Renias</i>	
Reviewed By:	Pedro L. Renias
	051523

SDS Information

Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)			NIST
	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	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 or-rel 7500mg/kg 3126a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ce	<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	Rb	<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	Tl	<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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- * Standards are certified (+/-) 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).



Refine your results. Redefine your industry. RD:05/14/2024

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).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO ₃

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,	Aluminum,
	Cerium,	Selenium,
	Thallium,	
	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,	Boron,
	Vanadium,	
	20 µg/mL ea:	
	Zinc,	Strontium,
	Barium,	Beryllium,
	Cadmium,	Cobalt,
	Manganese,	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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum ((w_i)^2 (u_{\text{char } i})^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (z)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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; info@inorganicventures.com; 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





Refine your results. Redefine your industry.

RD:05/14/2024

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).



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, SiO ₂	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
SiO ₂	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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = 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). <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; info@inorganicventures.com;

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 17, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec - 06.07.19



avantortm

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 ₂ OH · HCl) (by KMnO ₄ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrate 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

MS

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.

MS062
MS063
MB

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 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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.

$$w_i = (1/u_{char i}^2) / (\sum (1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i}^2))]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	0.000011	M	Eu	<	0.000201	O	Na	0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al	0.000001	O	Fe	0.000001	M	Nb	<	0.000201	O	Si	0.000005	M	Zr	<	0.000201	
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201		
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007		
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201		
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201		
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201		
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216		
O	Ca	0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201			
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402		
M	Ce	<	0.000201	O	K	0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508			
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201		
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058		
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201		
M	Cu	<	0.000402	O	Mg	0.000001	O	S	<	0.053950	M	W	<	0.000604			
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201		
M	Er	<	0.000201	M	Mo	0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in 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





Certified Reference Material CRM



MS467 R: 03/01/23 (14)

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57058
020623
Cerium (Ce)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

020626
Ambient (20 °C)
1000
6UTB

Weight shown below was diluted to (mL):

1000.12

5E-05 Balance Uncertainty

0.058 Flask Uncertainty

Lot #

Solvent: 21110221 Nitric Acid

2% 20.0 Nitric Acid (mL)

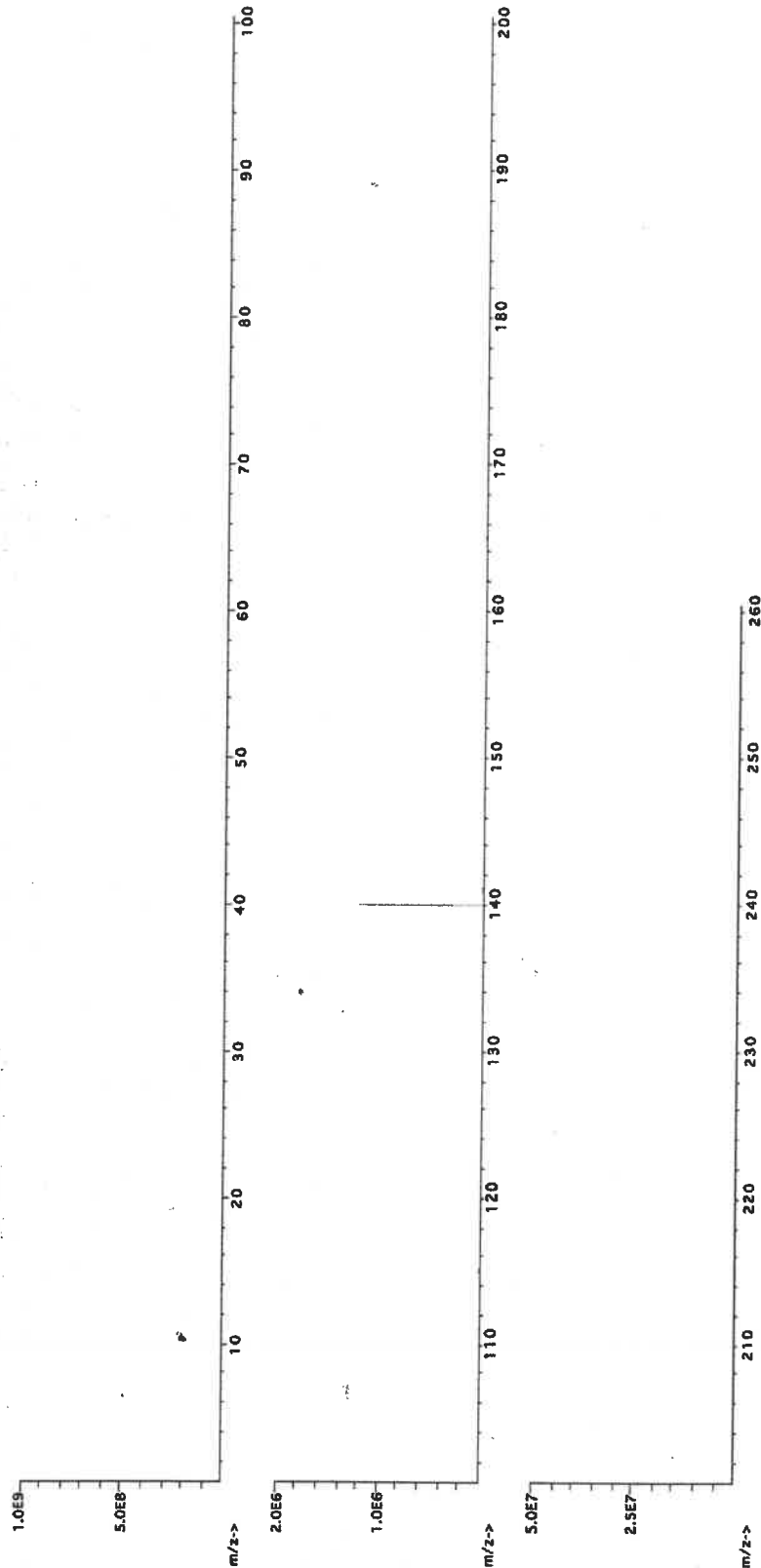
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

SDS Information

Expanded Uncertainty +/- (µg/mL) CAS# OSHA PEL (TWA) LD50 SRM

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	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

[1] Spectrum No.1 [43.472 sec]58158.D# [Count] [Linear]





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	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.02	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	<0.02	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 certified (+/-) 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



M5497 - M5508
And on 4/14/23
063

Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

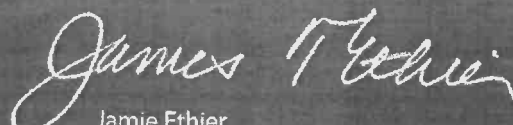
Retest Date: 2026-06-07

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


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



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
Quality Assurance Inspector

F:\J:\A\CF\PCISCI\COC-55118-BOI5021-061223



MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER: PCI SCIENTIFIC SUPPLY, INC

PURCHASE ORDER NO. 6054931

CATALOG NO. BOI5021-450L

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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
Quality Assurance Inspector

F:\J:\A\CF\PCISCI\COC-55118-BOI5021-061223



CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

Lot # 2110221 **Solvent:** Nitric Acid

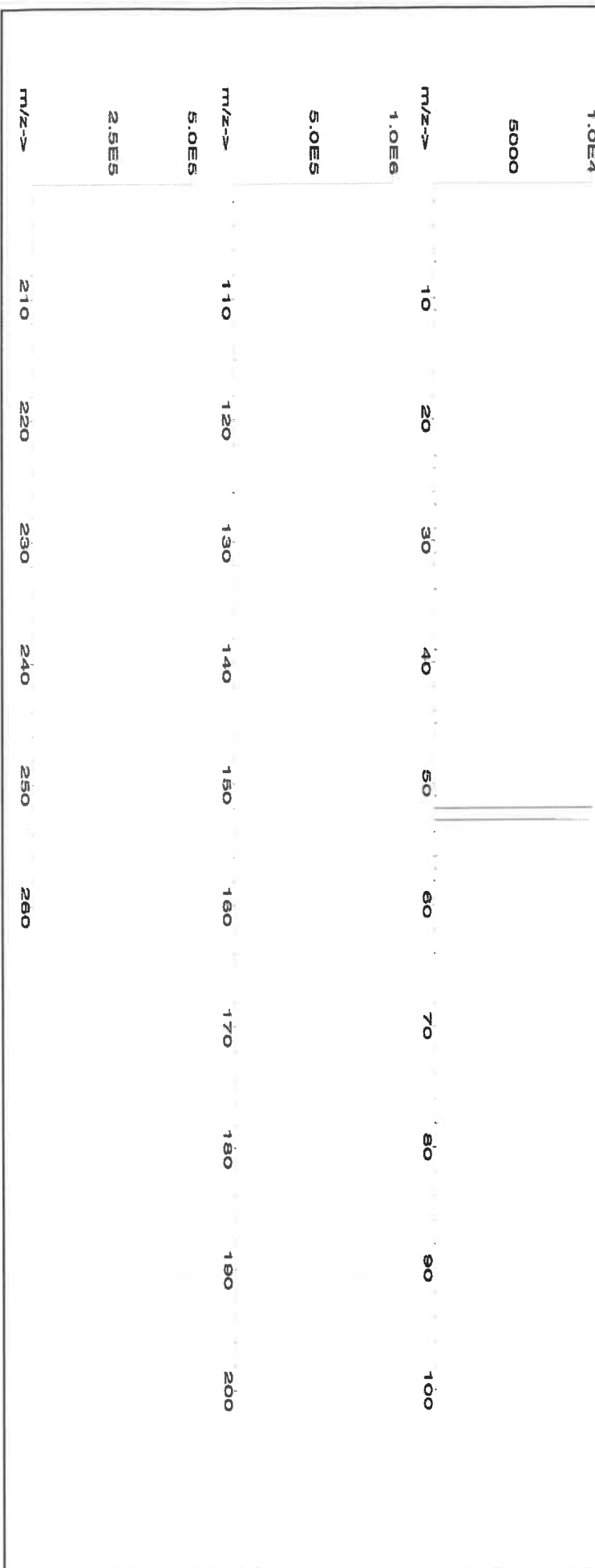
Formulated By:	Lawrence Barry
	060523
Reviewed By:	Pedro L. Ruelas
	060523

Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty
Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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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 or rat 3250 mg/kg 3112a

[1] Spectrum No.1 [31.393 sec]:57024.D# [Count] [Linear]





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:

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 certified (+/-) 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).



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Solvent: 24002546 Nitric Acid

Lot #

R: 12/20/23 MS747

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

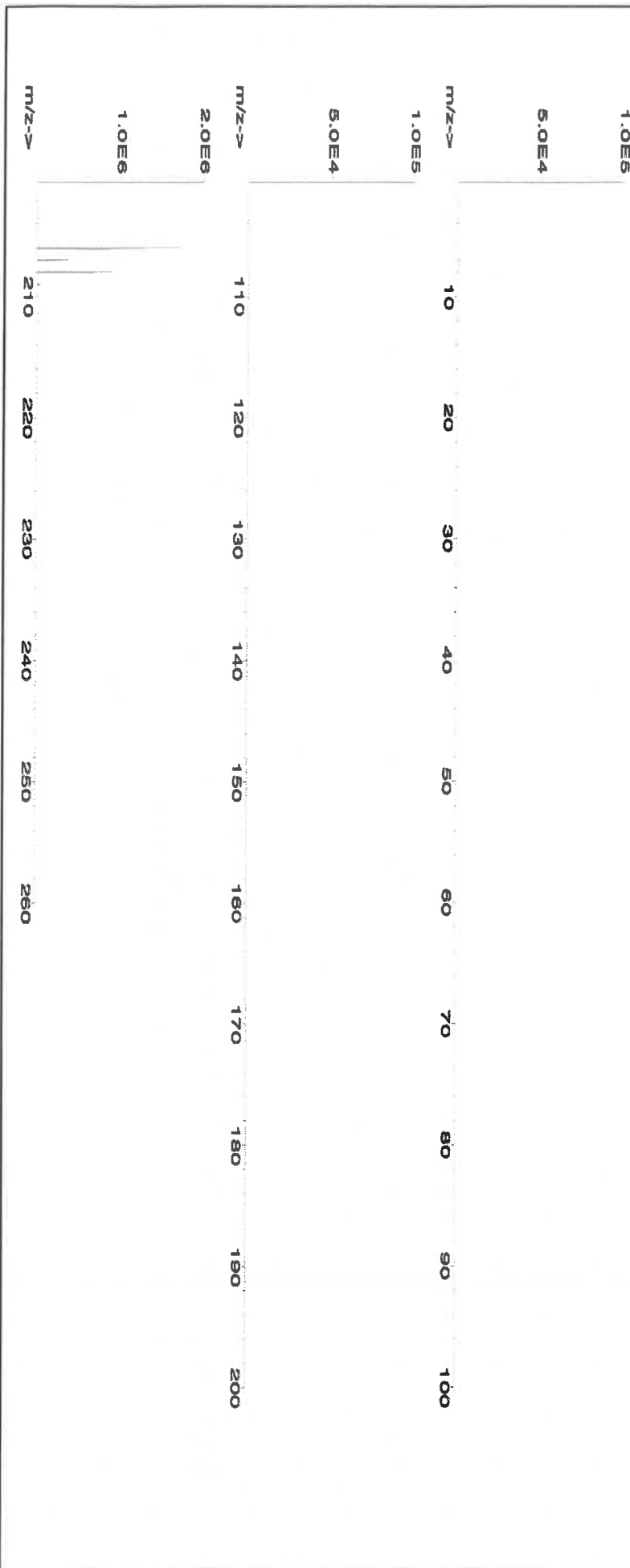
2% 60.0 mL Nitric Acid

Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Lead(II) nitrate (Pb) IN029 Pb0122016A1 1000 99.999 0.10 62.5 4.80071 4.80077 1000.0 2.0 10099-74-8 0.05 mg/m3 Intvms-ret 89 mg/kg 3128

[1] Spectrum No. 1 [14.144 sec]:58082.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

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	Ba	<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

Physical Characterization:

(T) = Target analyte

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **091223**
Description: **Nickel (NI)**

Lot # **24002546**
Solvent: **Nitric Acid**

Expiration Date: **091226**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**

2.0% **40.0** **Nitric Acid**
(mL)

NIST Test Number: **6U7B**

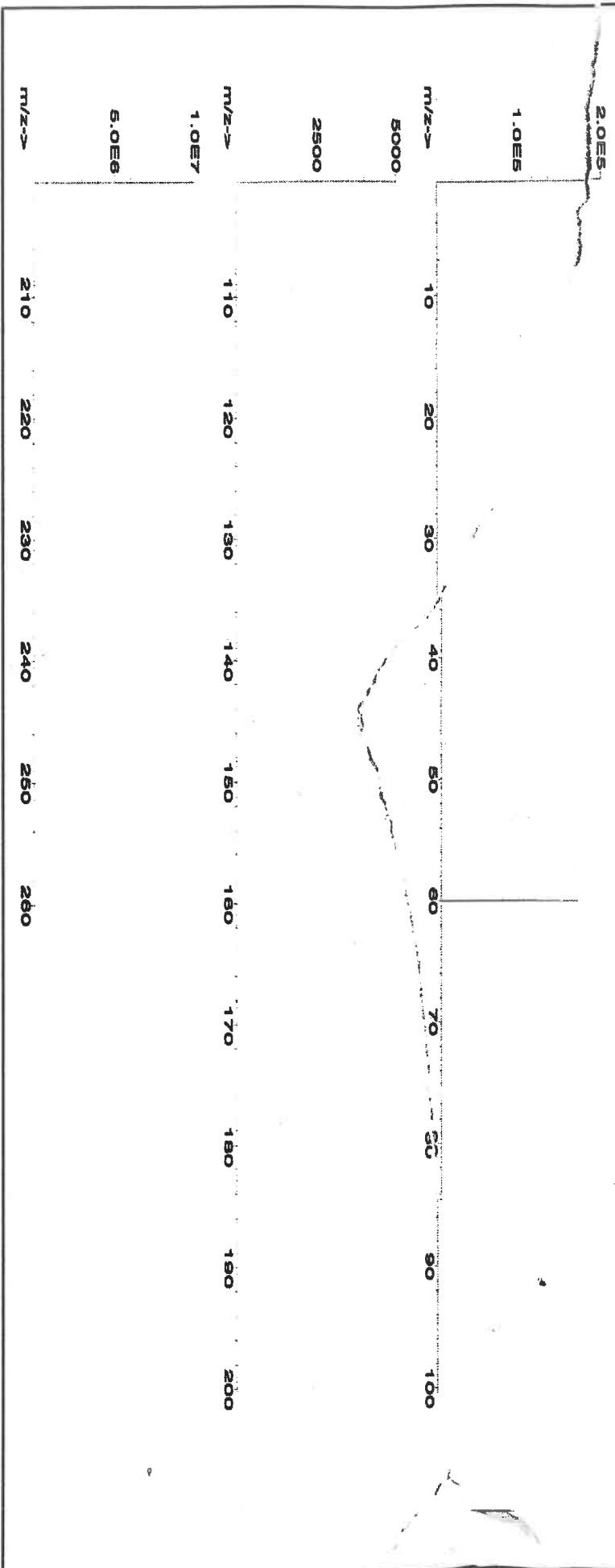
Volume shown below was diluted to (mL): **2000.02** **5E-05** **Balance Uncertainty**
0.056 **Flask Uncertainty**

Formulated By:	<i>Lawrence Barry</i>	091223
Reviewed By:	<i>Pedro L. Renteria</i>	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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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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 or-rel 1620 mg/kg 3136

[1] Spectrum No.1 [9.135 sec]:56028.D# [Count] [Linear]





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	Tb	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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- * 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 Reference Material CRM

R: 8/25/23 M5751



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58029
071723
Copper (Cu)

Lot #
Solvent:

21110221 Nitric Acid

2.0% 40.0 (mL) Nitric Acid

Expiration Date:

071726

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Ruelas	071723

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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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 or rat 794 mg/kg 3114

[1] Spectrum No. 1 [33.422 sec]: 58029.D# [Count] [Linear]

1.0E6	10	20	30	40	50	60	70	80	90	100
5.0E5										
m/z ->	10	20	30	40	50	60	70	80	90	100
5.0E7										
m/z ->	110	120	130	140	150	160	170	180	190	200
2.0E7										
m/z ->	210	220	230	240	250	260				
1.0E7										

Absolute Standards, Inc.

800-368-1131
www.absolutestandards.com



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	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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- * 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).



CERTIFIED WEIGHT REPORT:

Part Number: 57004
Lot Number: 102523
Description: Beryllium (Be)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

102526

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty

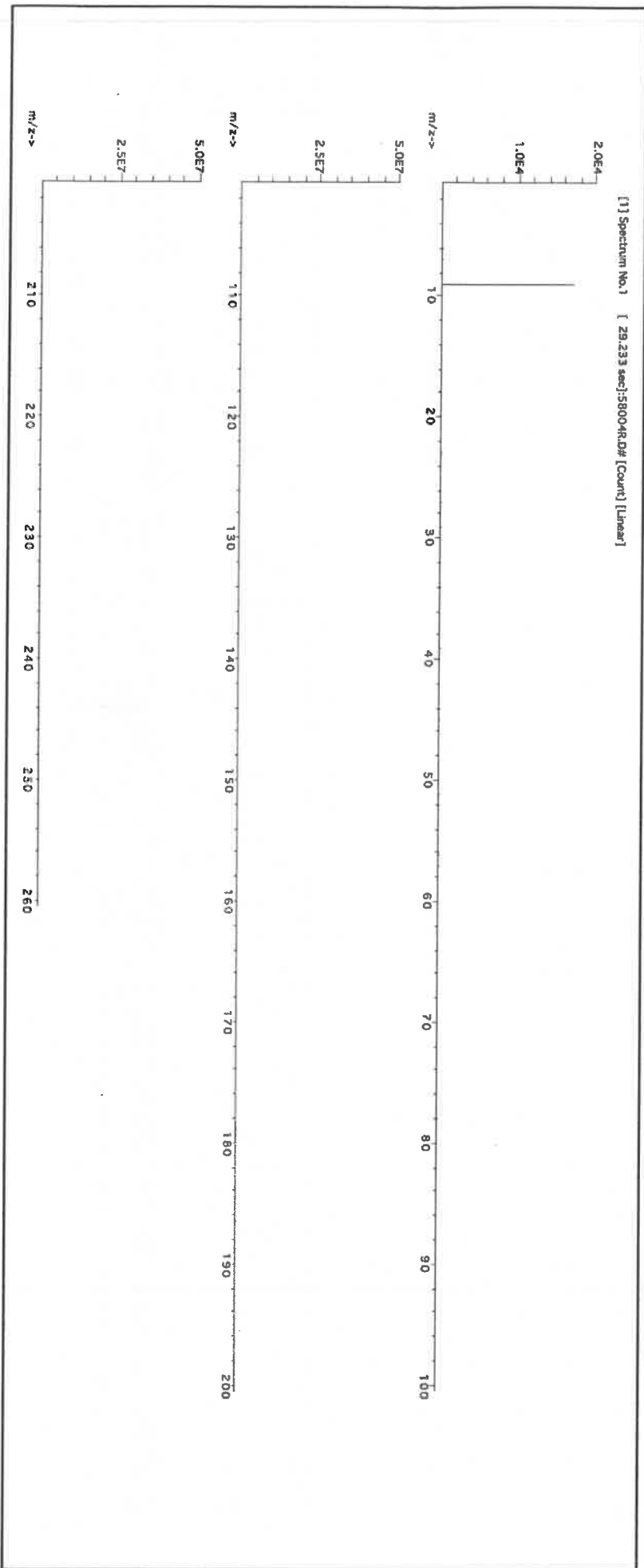
0.058 Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

SDS Information

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13597-99-4	0.2µg/m3	intrinsc-rat 3.16mg/kg	NA
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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	Pt	<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	Tc	<0.02	U	<0.02
As	<0.02	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<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	<0.02	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	Ta	<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	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

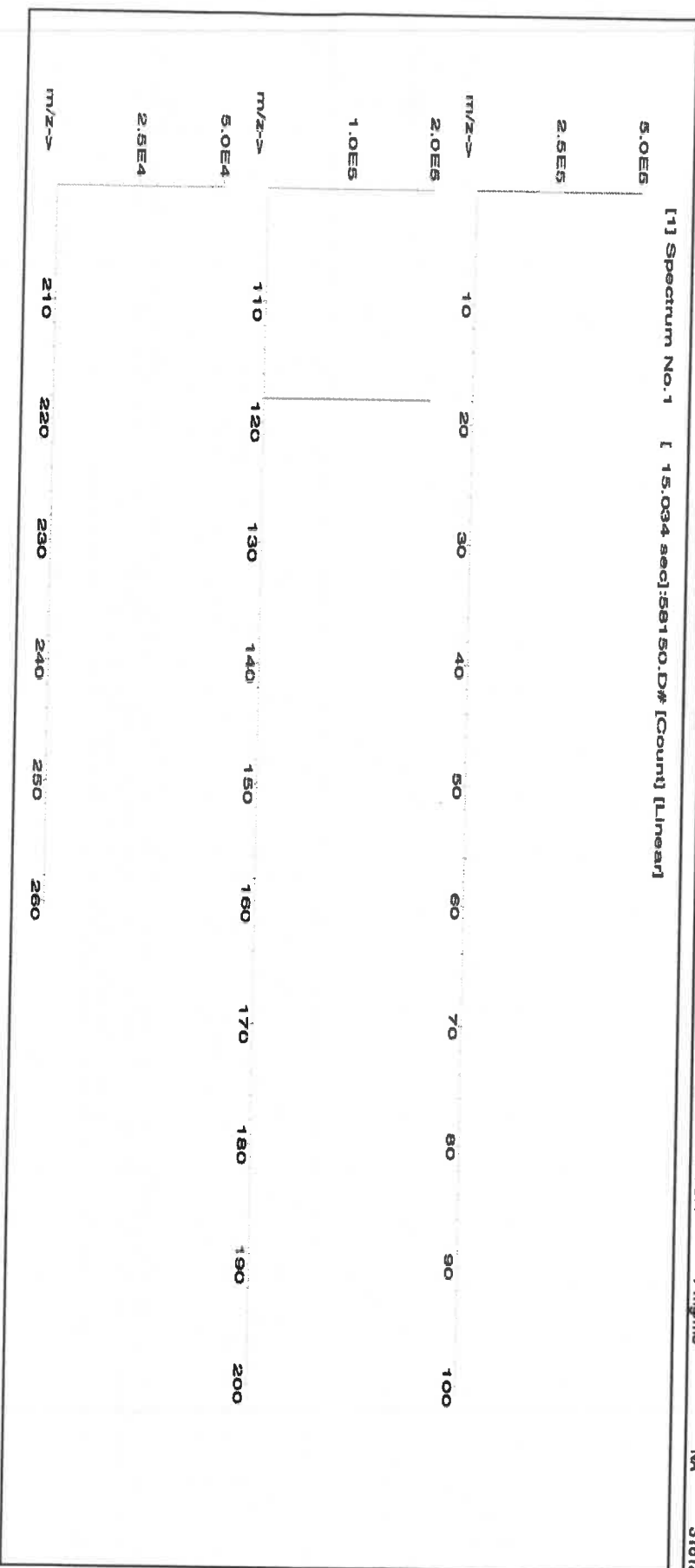
Weight shown below was diluted to (mL): 499.93
5E-05 Balance Uncertainty
0.0058 Flask Uncertainty

Formulated By: Benson Chan		071123
Reviewed By: Pedro L. Rientas		071123

Compound		Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information		
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	(µg/mL)	CAS#	OSHA PEL (TWA)	LD50 SRM

1. Ammonium hexafluoroantimonate(V) (Sn) INO10 SMD042023A1 1000 99.999 0.10 44.2 1.13107 1.13286 1001.6 2.0 16919-24-7 7 mg/m3 NA 3161a

[1] Spectrum No. 1 [15.034 sec] :56150.D# [Count] [Linear]





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	Ta	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027
Lot Number: 091923
Description: Cobalt (Co)

Expiration Date: 091926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot # 24002546
Solvent: Nitric Acid

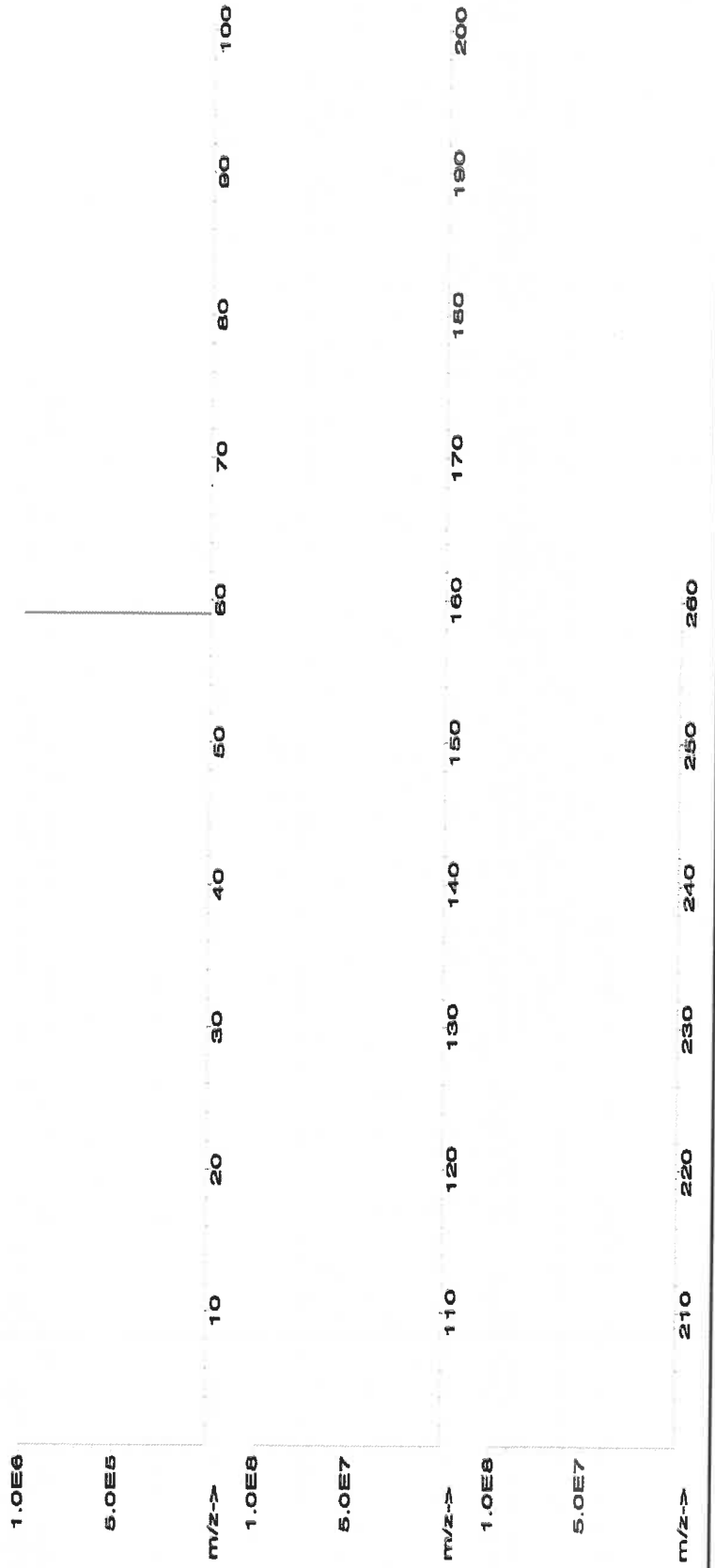
Formulated By: Lawrence Barry 091923
Reviewed By: Pedro L. Rentas 091923

SDS Information

Expanded Uncertainty +/- (µg/mL)
(Solvent Safety Info. On Attached pg.)
NIST SRM LD50 CAS# OSHA PEL (TWA)

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

[1] Spectrum No.1 [34.243 sec]:58027.D# [Count] [Linear]





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	<0.02	Os	<0.01	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	<0.2	Na	<0.02	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	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.
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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).



Certified Reference Material CRM

AR: 02/09/24

M5801

BA



CERTIFIED WEIGHT REPORT:

Part Number: 57033
Lot Number: 111323
Description: Arsenic (As)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

111326

2.0%

80.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6LUTB

Volume shown below was diluted to (mL):

4000.0

5E-05

Balance Uncertainty
Flask Uncertainty

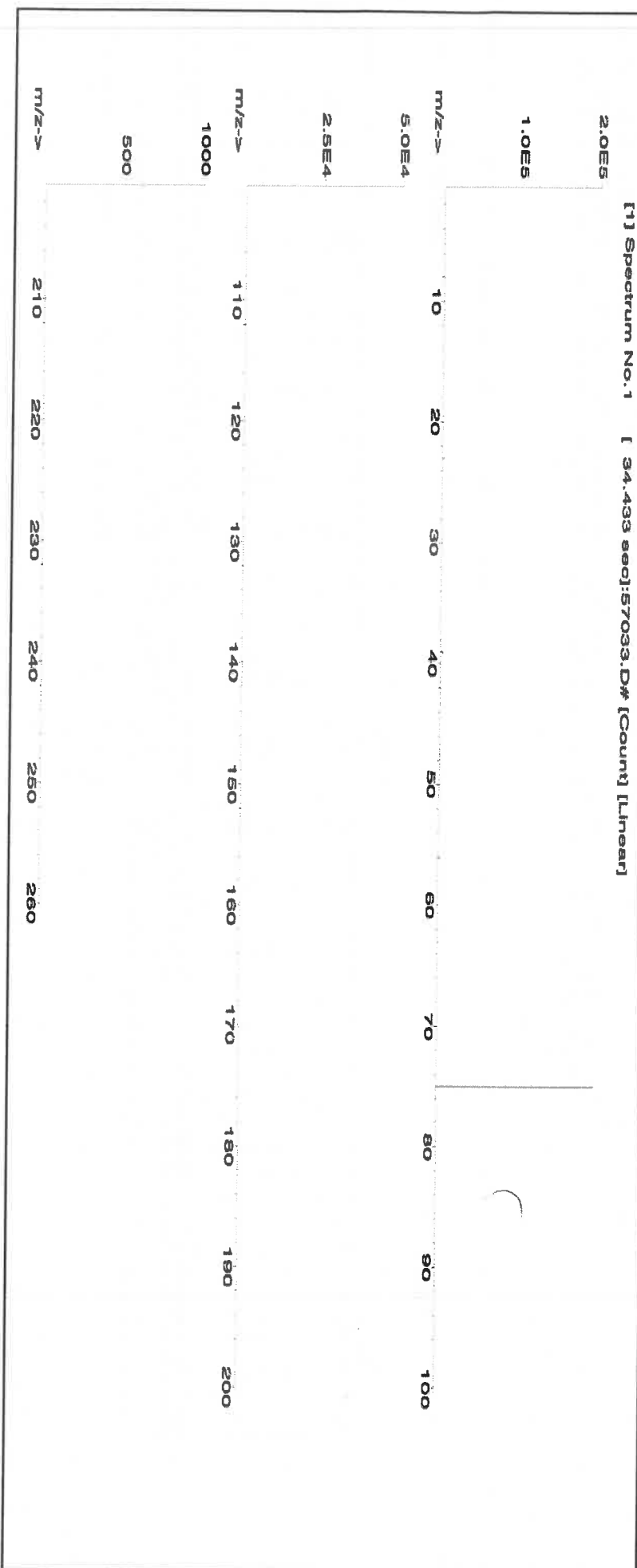
<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
	111323
<i>Pedro L. Rendas</i>	
Reviewed By:	Pedro L. Rendas
	111323

SDS Information

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)	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	or-rat 500 mg/kg	3103a
-----------------	-------	--------	--------	-------	-------	------	---------	--------	-----	-----------	-----------	------------------	-------

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]





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	Tl _h	<0.02	Yb	<0.02
Bc	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge [*]	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57005**
Lot Number: **071123**
Description: **Boron (B)**

Solvent: MKB0857V Ammonium hydroxide

Lot #

AI: 021009124 M5814

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

2.0% 40.0 Ammonium hydroxide (mL)

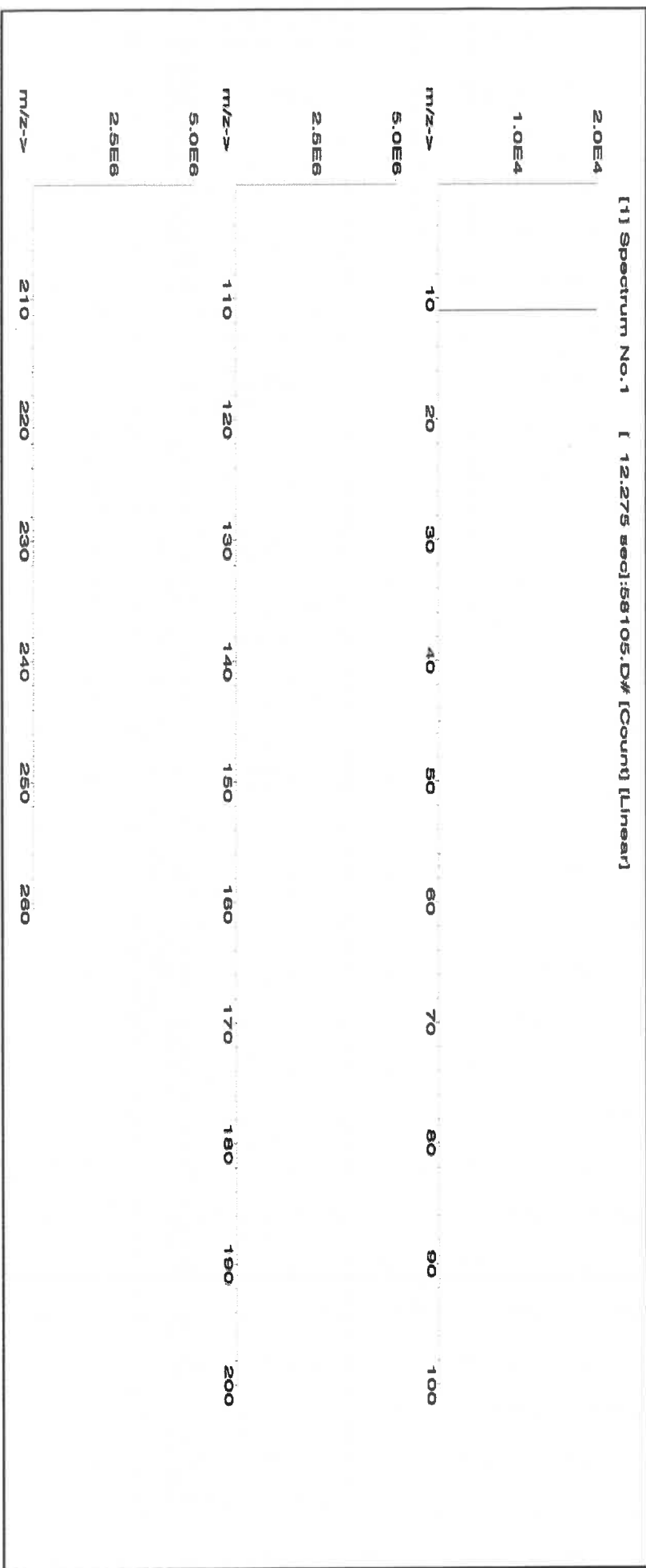
Weight shown below was diluted to (mL): 1999.48 0.058 Balance Uncertainty Flask Uncertainty

Formulated By:	Benson Chan
071123	
Reviewed By:	Pedro L. Rientas
071123	

SDS Information

Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)		NIST
	RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

1. Boric acid (B) IN018 BV082018A1 1000 99.999 0.10 17.3 11.55772 11.56201 1000.4 2.0 10043-35-3 2 mg/m3 or-nat 2660 mg/kg 3107





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57016
122923
Sulfur (S)

Solvent: 122923

ASTM Type 1 Water

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas
122923	

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6L7B

Weight shown below was diluted to (mL): 4000.0

SE-05 Balance Uncertainty
0.06 Flask Uncertainty

Compound

RM#
Lot
Number

Nominal
Conc. (µg/mL)

Purity
(%)

Uncertainty
(%)

Assay
(%)

Target
Weight (g)

Actual
Weight (g)

Actual
Conc. (µg/mL)

Expanded
Uncertainty
+/- (µg/mL)

CAS#

OSHA PEL (TWA)

LD50

NIST
SRM

1. Ammonium sulfate (S)

IN117 SLBR725V

1000

99.9

0.10

24.3

16.4979

16.4980

1000.0

2.0

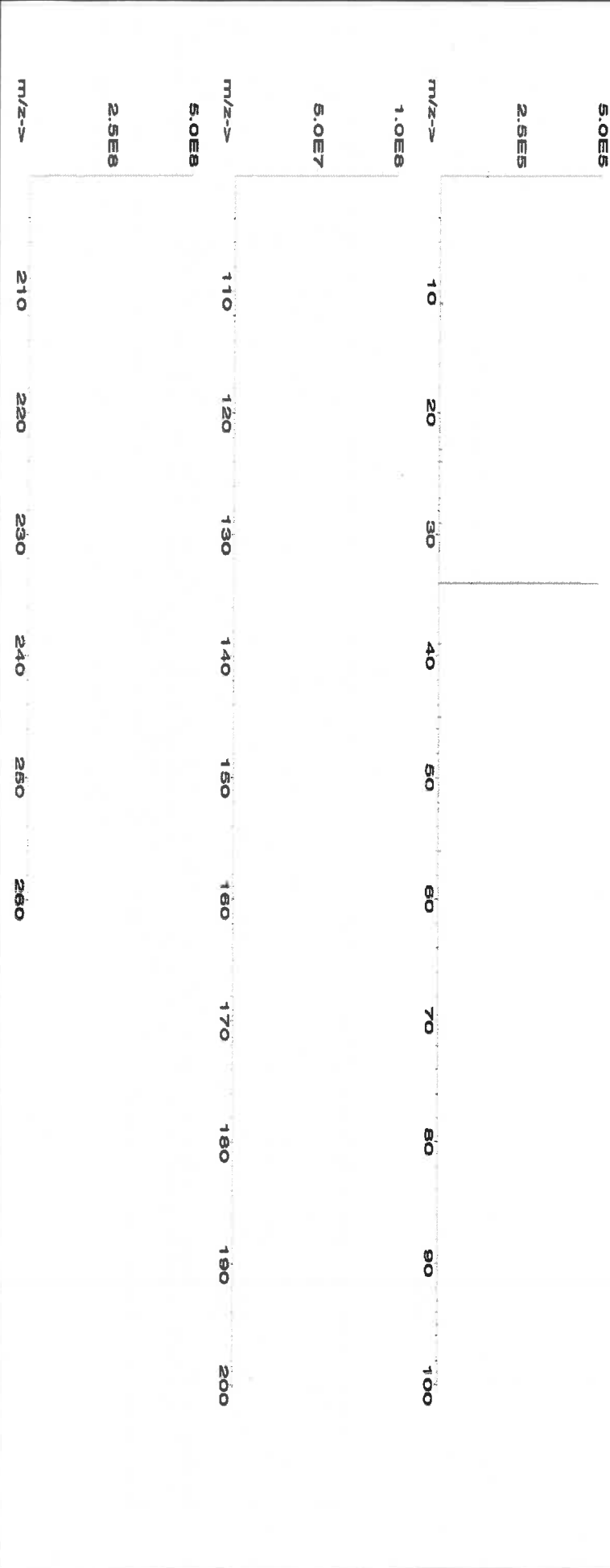
7783-20-2

NA

or-rel 4250mg/kg

3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]





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	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<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	Ru	<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	Sr	<0.02	S	<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	Ta	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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- * 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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: 57015
Lot Number: 091123
Description: Phosphorous (P)

Solvent: 24002546 Nitric Acid

Lot #

R: 02109124 M5820

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Expiration Date: 091126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6LUTB

2% 40.0 (mL) Nitric Acid

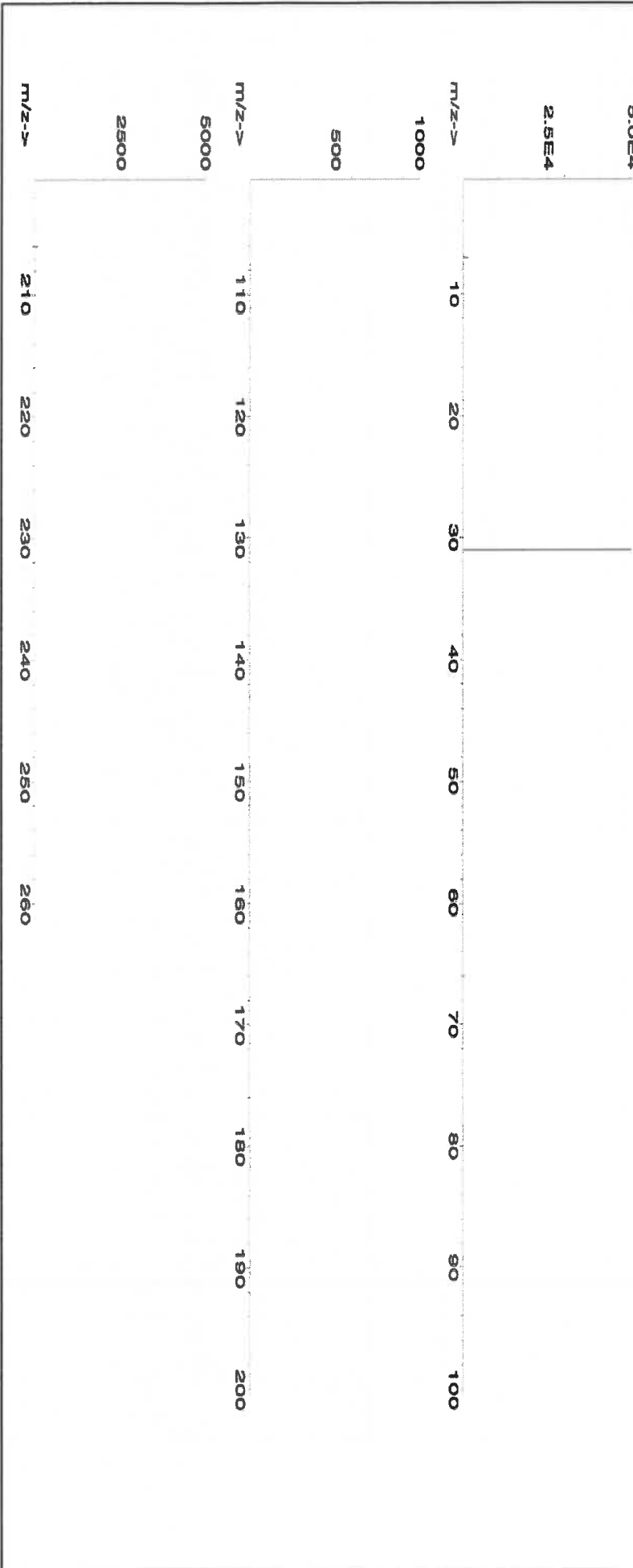
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Ammonium dihydrogen phosphate (P) IN008 PY062019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





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	Tc	<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	Ti	<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	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- * All 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 certified (+/-) 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



M5824
M3

Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

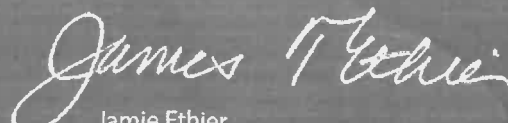
Retest Date: 2026-06-07

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


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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 02/22/24 M.5942

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: CGT11
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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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	<	0.000536	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



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://AbsoluteStandards.com>

CERTIFIED WEIGHT REPORT:

Part Number:

57034

Lot Number:

060624

Description:

Selenium (Se)

Lot #

24002546

Solvent:

Nitric Acid

Expiration Date:

060627

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

2000.07

SE-05 Balance Uncertainty
0.100 Flask Uncertainty

2.0%

40.0 (mL)

Nitric Acid

Formulated By: Benson Chan 060624

Reviewed By:

Pedro L. Rantas

060624

SDS Information

Compound

Part Number

Lot Number

Dilution Factor

Initial Vol. (mL)

Pipette (mL)

Uncertainty Conc. (µg/mL)

Nominal Conc. (µg/mL)

Initial Conc. (µg/mL)

Final Conc. (µg/mL)

Expanded Uncertainty +/- (µg/mL)

CAS# OSHA PEL (TWA)

LDSO

NIST SRM

1. Selenium (Se)

58134 071223

0.1000

200.0

0.084

1000

10002.5

1000.0

2.2

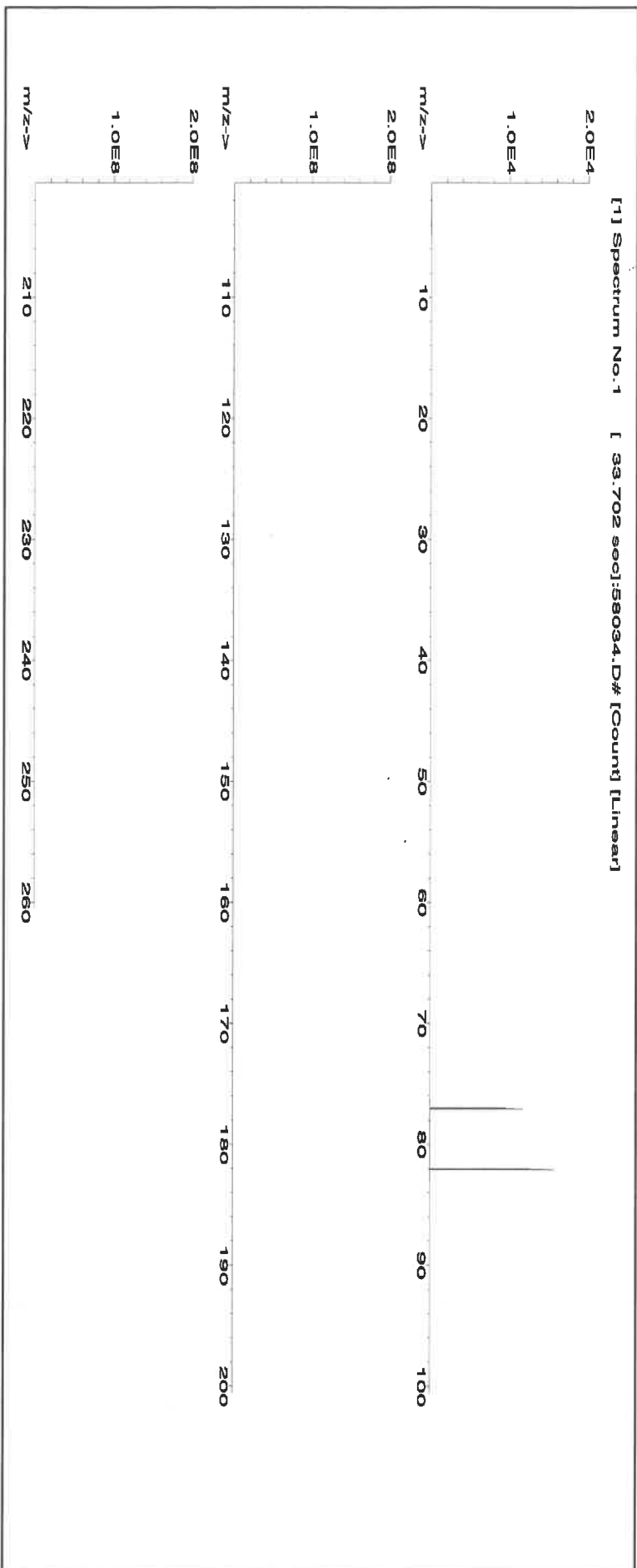
7782-49-2

0.2 mg/m3

or-tral 6700 mg/kg

3149

[1] Spectrum No.1 [33.702 sec]:58034.D# [Count] [Linear]





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	Pt	<0.02	Se	T	Tb	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	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	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	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	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	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	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 certified (+/-) 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.absolute-standards.com



Certified Reference Material CRM
M5970 M5971 R1 710124



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

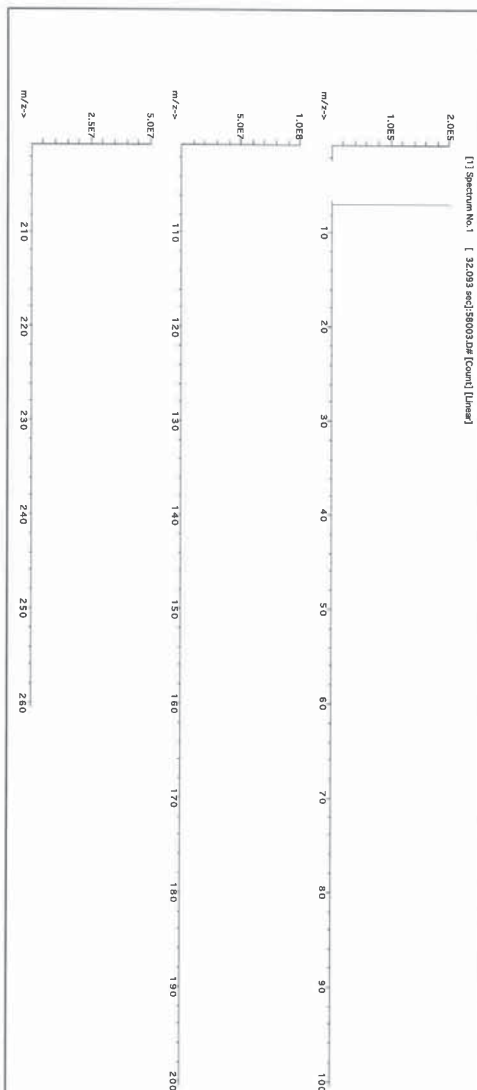
Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 06/27
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

Lot # 24002546
Solvent: Nitric Acid
Conc. (µg/mL) 2.0%
Initial 5.0 (mL)
Final Nitric Acid
SE-05 Balance Uncertainty 0.016
Fisk Uncertainty

Microscopic Exports	
Formulated By:	062124
Giovanni Esposito	
Reviewed By: <i>[Signature]</i>	
Petro L. Parias	

Compound		SDS Information														NEST					
		Part		Lot		Dilution		Initial		Uncertainty		Nominal		Expanded							
Number	Factor	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Vol. (mL)	Pipette (mL)	Conc. (µg/mL)	Conc. (µg/mL)	Vol. (mL)	Pipette (mL)	Uncertainty	± (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SN

1. Lithium nitrate (Li) 58103 070622 0.1000 25.0 0.004 1000 10000.4 1000.0 2.0 7790-68-4 5 mg/m3 or-hal 1428 mg/kg NA



Part # 57003 Lot # 062124

1 of 2

Printed: 6/24/2024, 11:20:08 PM

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

M5984
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).



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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2(u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a)(u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 PtO 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	<u>73Ge</u> <u>16O</u> , <u>178Hf</u> +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



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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M5985
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).



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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2(u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 PtO 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



Certificate of Analysis

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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).



2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution	
Catalog Number:	CLPP-CAL-1	
Lot Number:	T2-MEB714417	
Matrix:	5% (v/v) HNO ₃	
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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum (w_i)^2 (u_{\text{char } i}^2))^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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° $\pm$ 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



Certificate of Analysis

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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).



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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty (Z)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty (Z)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale. <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 21, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

R: 08/22/24 M6058, M6059

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: 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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = 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).

<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



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

M6074
M6075
M6076
M6077

P: 800-669-6799/540-585-3030

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info@inorganicventures.com

EXP: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2(u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a)(u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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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Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

M6074
M6075
M6076
M6077

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

EXP: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2(u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a)(u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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





CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot # 24012496
Description: Magnesium (Mg) Nitric Acid

Expiration Date: 11/13/25
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6LUB

Weight shown below was diluted to (mL): 2000.07
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

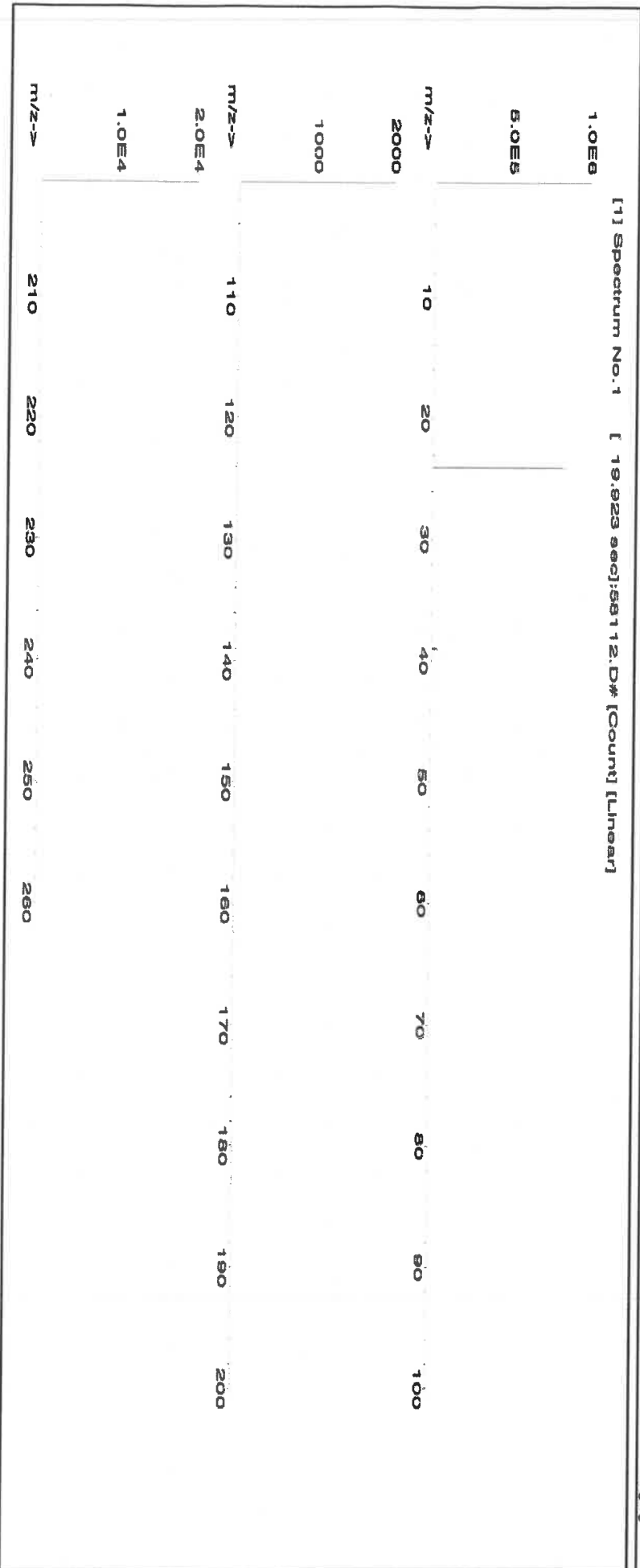
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Rentas
	112124

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	± (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 MG000023A1 10000 99.999 0.10 8.51 234.9183 234.9459 10001.2 20.0 13446-18-9 NA off-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.823 sec]:58112.D# [Count] [Linear]





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	Pt	<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	Rc	<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	Rb	<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	Ru	<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	Sm	<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	Sc	<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			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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58025
101124
Manganese (Mn)

Lot #
Solvent: Nitric Acid

24002546
2%
80.0 (mL)
Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

101127
Ambient (20 °C)
1000
6UTB

Weight shown below was diluted to (mL):

4000.2
0.10
5E-05 Balance Uncertainty
0.10 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Renteria</i>
	101124

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
-----	------------	-----------------------	------------	-----------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Manganese(II) nitrate hydrate (Mn) IN031 MMN02020A1 1000 99.999 0.10 20.8 19.2322 19.2344 1000.1 2.0 15710-66-4 5 mg/m3 or-rel >300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]

5.0E6													
2.5E6													
m/z->	10	20	30	40	50	60	70	80	90	100			
1.0E6													
5.0E7													
m/z->	110	120	130	140	150	160	170	180	190	200			
1.0E6													
5.0E7													
m/z->	210	220	230	240	250	260							



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).

Certificate of Analysis

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 Christiansburg, VA 24073 USA
 inorganicventures.com

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 F: 540-585-3012
 info@inorganicventures.com

M6137
 R-71013124

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: 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char\ i})^2 / (\sum (1/(u_{char\ i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char\ i})^2]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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, amorphous (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; Inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 10, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57119
103024
Potassium (K)

R-2113125

Lot #
Solvent: 24002546
Nitric Acid

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Renteria
	103024

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):

103027
Ambient (20 °C)
10000

M6141
M6142
M6143

2%
80.0
(mL)
Nitric Acid

Weight shown below was diluted to (mL):

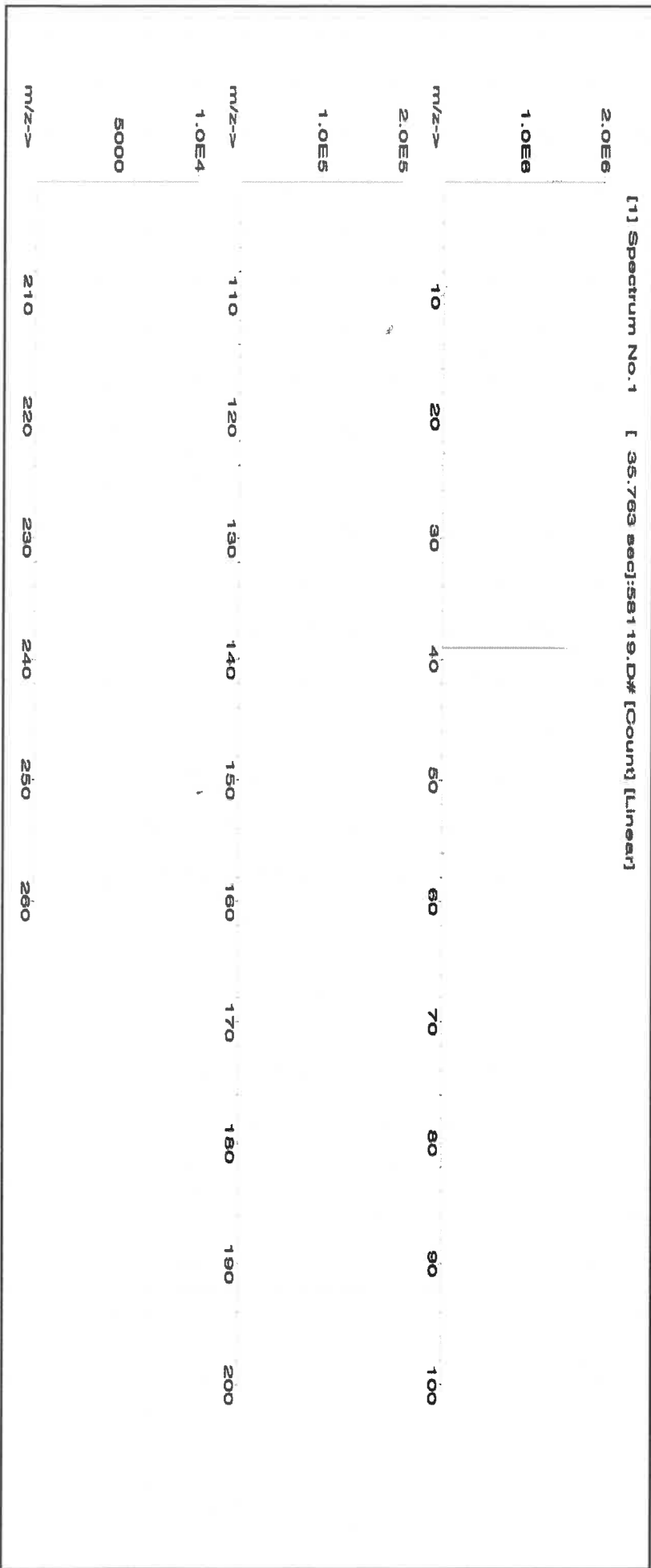
4000.1
0.15
Flask Uncertainty

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)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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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

[1] Spectrum No. 1 [35.763 sec]:58119.D# [Count] [Linear]





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	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: 58111 **Lot #** R-1113/25
Lot Number: 072424 **Solvent:** Nitric Acid
Description: Sodium (Na)

Expiration Date: 072427 **2%** 80.0 **Nitric Acid**
Recommended Storage: Ambient (20 °C) (mL)

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

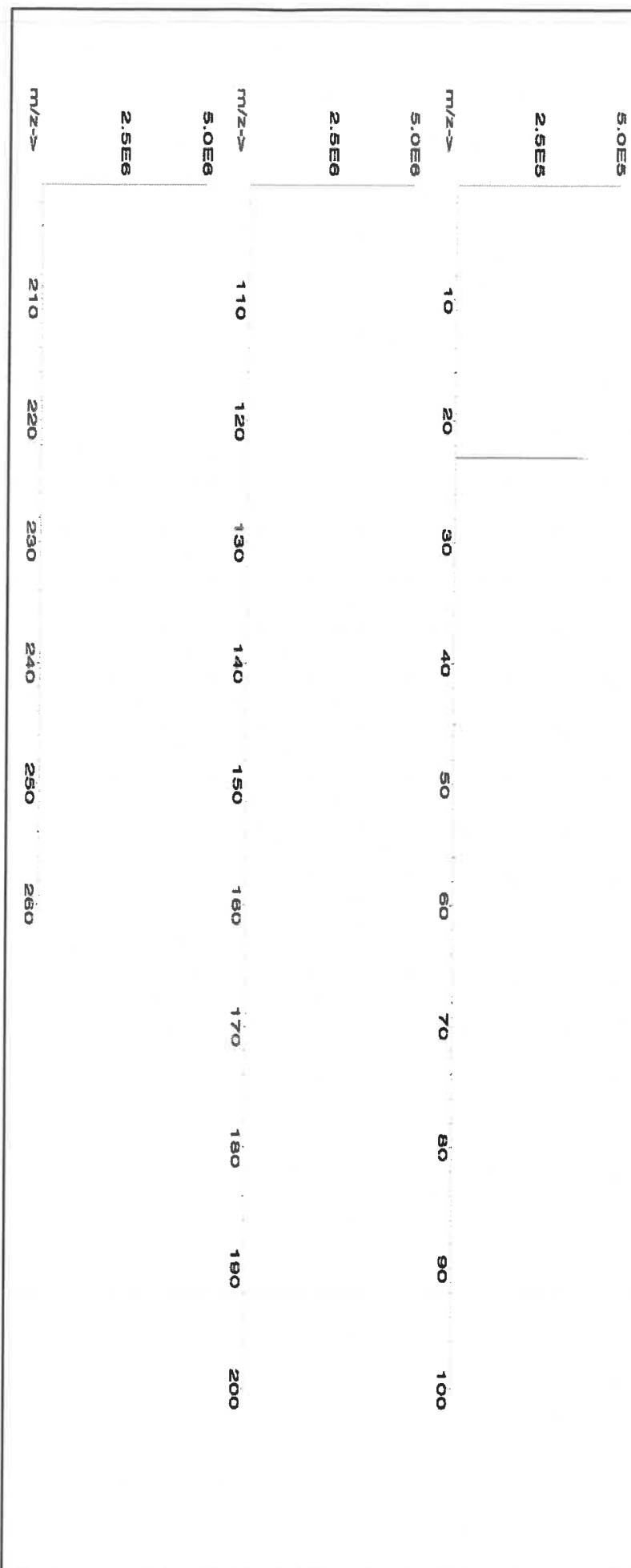
Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Renteria	072424

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
----------	------------	-----------------------	------------	------------------------	-----------	-------------------	-------------------	----------------------	----------------------------------	------	----------------	------	----------

1. Sodium nitrate (Na) IN036 NAV01201511 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

[1] Spectrum No. 1 [8.935 sec]:58111.D# [Count] [Linear]





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	Pt	<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	<0.02	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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58030
121724
Zinc (Zn)

R → 11/13/25 Solvent: 24012496 Nitric Acid

Lot #

Expiration Date:

121727

M6145

2%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

2000.1

5E-05 Balance Uncertainty
0.10 Flask Uncertainty

<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
Reviewed By:	<i>Pedro L. Rentias</i>
	Pedro L. Rentias
	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)

CAS#

OSHA PEL (TWA)

LD50

NIST SRM

SDS Information

(Solvent Safety Info. On Attached pg.)

1. Zinc nitrate hexahydrate (Zn)

IN016 ZNE032021A1

1000

99.999

0.10

24.3

8.2308

8.2311

1000.0

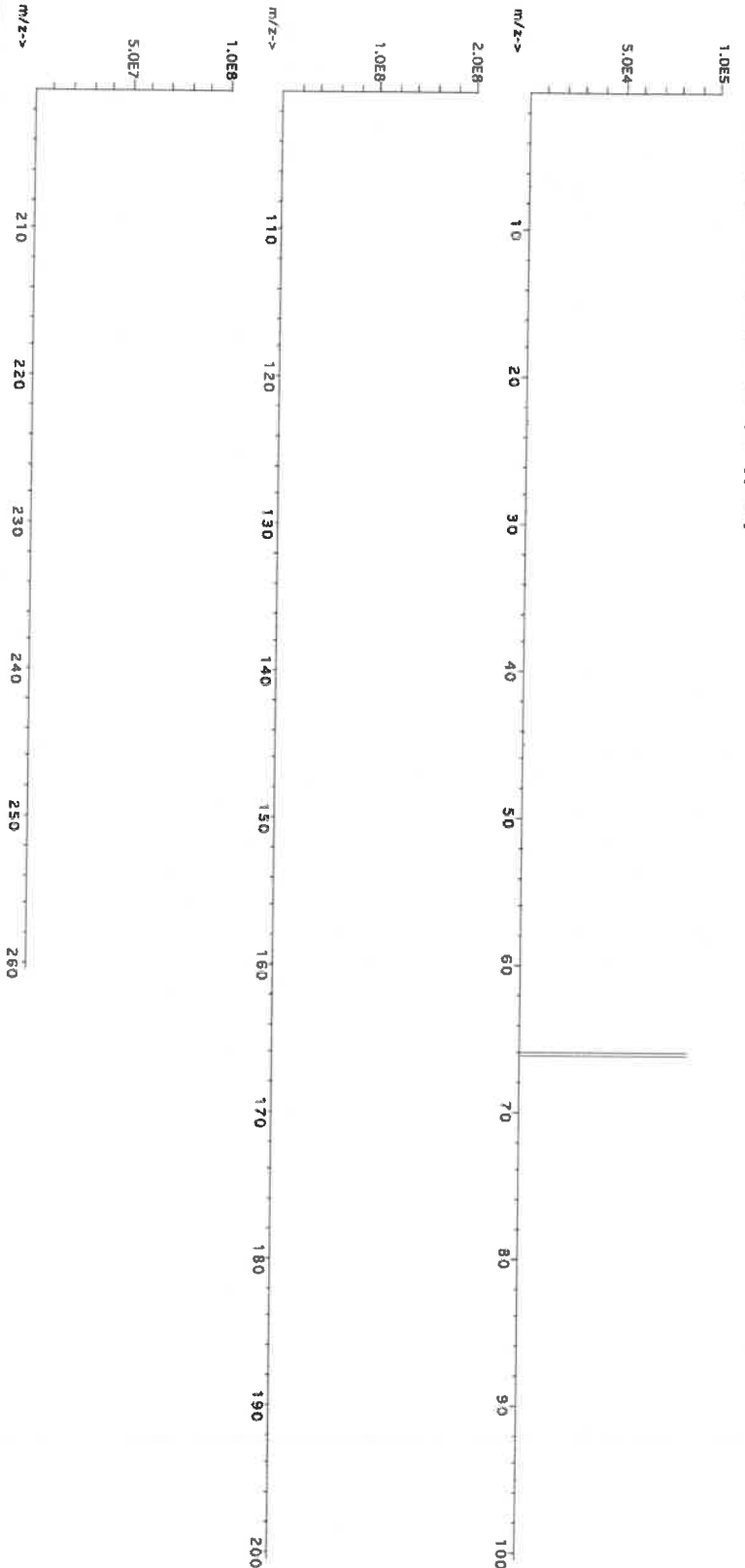
2.0

10196-18-6

1 mg/m3

or-rat 1190mg/kg 3168

[1] Spectrum No.1 [31.103 sec;58130.D# [Count] [Lines]





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	Bu	<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 certified (+/-) 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).

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

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™



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

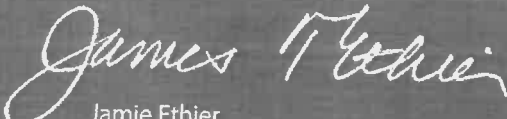


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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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


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



R- 0210212025

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

avantorsTM



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



m-6162

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

R. Date :- 04/27/2025

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™



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 >>>



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:	Multi Analyte Custom Grade Solution		
Catalog Number:	QCP-CICV-1		
Lot Number:	V2-MEB744107		
Matrix:	7% (v/v) HNO ₃		
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 °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
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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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), <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).



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 °C)

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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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). <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



300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

P: 800-669-6799/540-585-3030
 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).



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 °C)

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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

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Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

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X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

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- All 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.

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7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

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- 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

avantor™



R.Date . 8-05/20/2025

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™



Material No.: 2190-03
Batch No.: 24D1961001

Test	Specification	Result
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For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales

Michelle Bales
Sr. Manager, Quality Assurance

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™



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 ₂ O 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 >>>



Certified Reference Material CRM

M6030



CERTIFIED WEIGHT REPORT:

Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**

Solvent: 24002546 Nitric Acid
Lot #

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

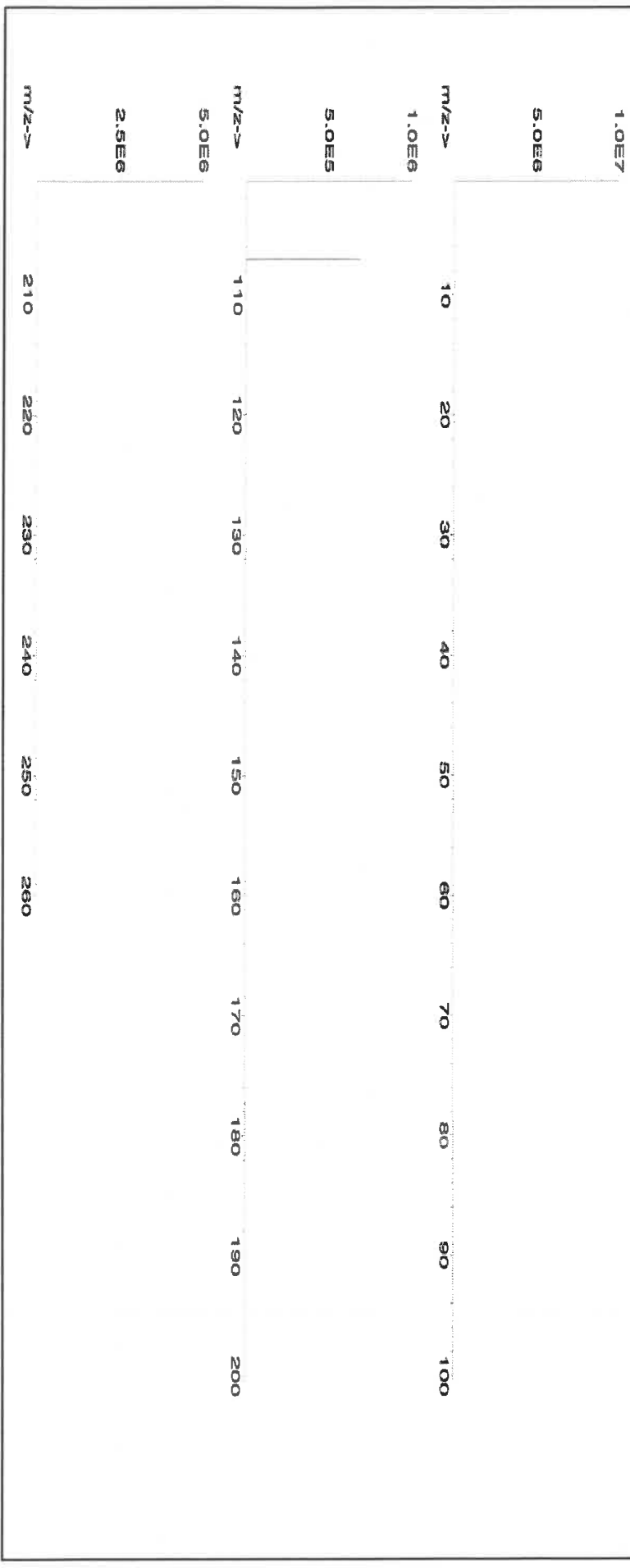
2% 80.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 4000.30 0.058 Balance Uncertainty
Flask Uncertainty

Formulated By:	Benson Chan
122823	
Reviewed By:	Pedro L. Rentas
122823	

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Silver nitrate (Ag)	IN035	J0612AGAI	1000.0	99.999	0.10	63.7	6.27992	6.27998	1000.0
							2.0	7761-88-8	10 µg/mL
									NA
									3151

[1] Spectrum No. 1 [14.044 sec]:58147.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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

Physical Characterization:

(T)= Target analyte

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 meghom 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 10/18/24
Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number:

57051

Lot #

24002546

Solvent:

Nitric Acid

Lot Number:

071724

Description:

Antimony (Sb)

Expiration Date:

071727

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UJB

Volume shown below was diluted to (mL):

2000.26

Balance Uncertainty

0.058

Flask Uncertainty

0.058

Compound

Part

Lot

Dilution

Initial

Uncertainty

Nominal

Initial

Final

Expanded

Uncertainty

CAS#

OSHA PEL (TWA)

LD50

NIST

SRM

58151

060324

0.1000

200.0

0.084

1000

10001.4

1000.0

2.2

7440-36-0

0.5 mg/m3

or-rat 7000 mg/kg

3102a

SDS Information

Formulated By:

Giovanni Esposito

071724

Reviewed By:

Pedro L. Rentas

071724

1. Antimony (Sb)

58151

060324

0.1000

200.0

0.084

1000

10001.4

1000.0

2.2

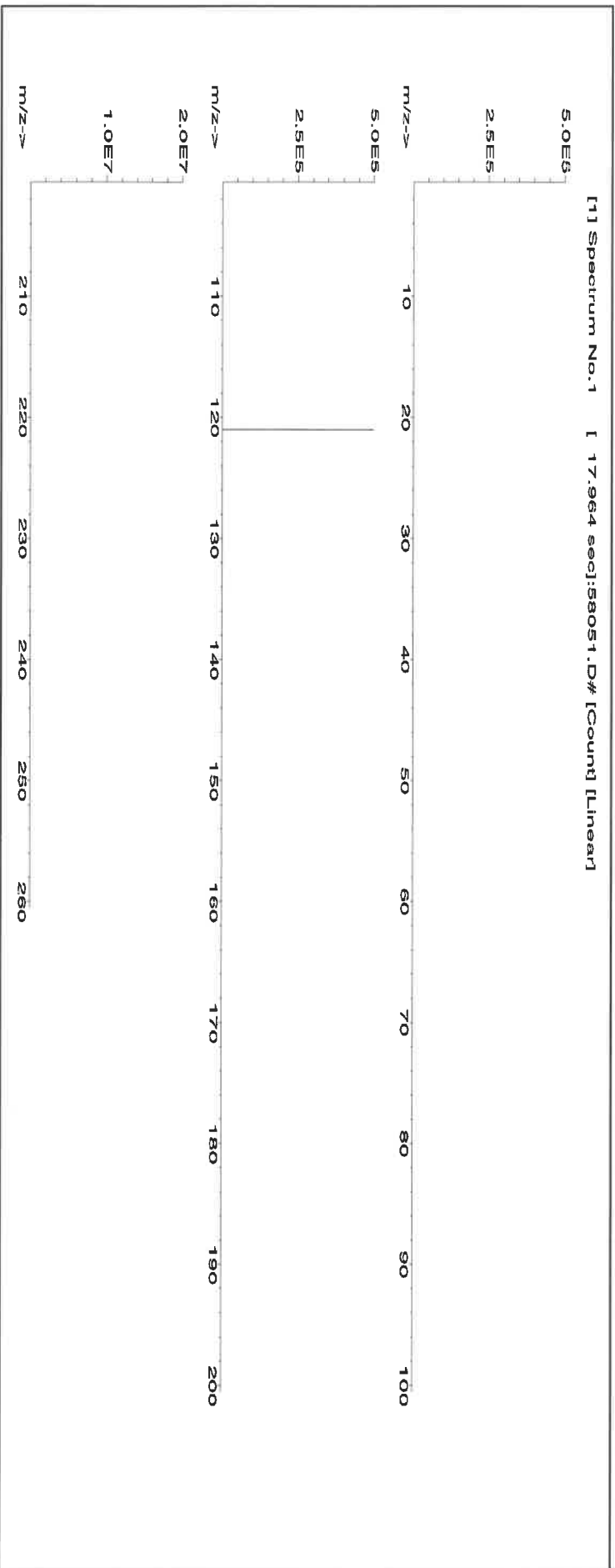
7440-36-0

0.5 mg/m3

or-rat 7000 mg/kg

3102a

[1] Spectrum No.1 [17.964 sec]:58051.D# [Count] [Linear]





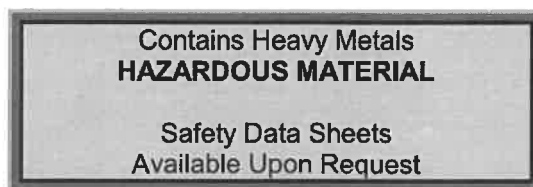
Instructions for QATS Reference Material: ICP-AES ICS

**QATS LABORATORY INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



M6152

(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,





Instructions for QATS Reference Material: ICP-AES ICS

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 HNO₃. 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 HNO₃. 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"

R: 04/20/21

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

(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,





APTIM

Instructions for QATS Reference Material: ICP-AES ICS

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 HNO₃. 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 HNO₃. 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.

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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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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	<	0.001980	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(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, and HNO₃. Avoid H₂SO₄, 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% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO₃ / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO₃); Ores (Carbonate fusion in PtO 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





Certified Reference Material CRM

M6023



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (TI)

Lot #

Solvent: 24002546 Nitric Acid

Aleah O'Brady
Formulated By: Aleah O'Brady 062724

Expiration Date:

062727

2%

40.0

Nitric Acid

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

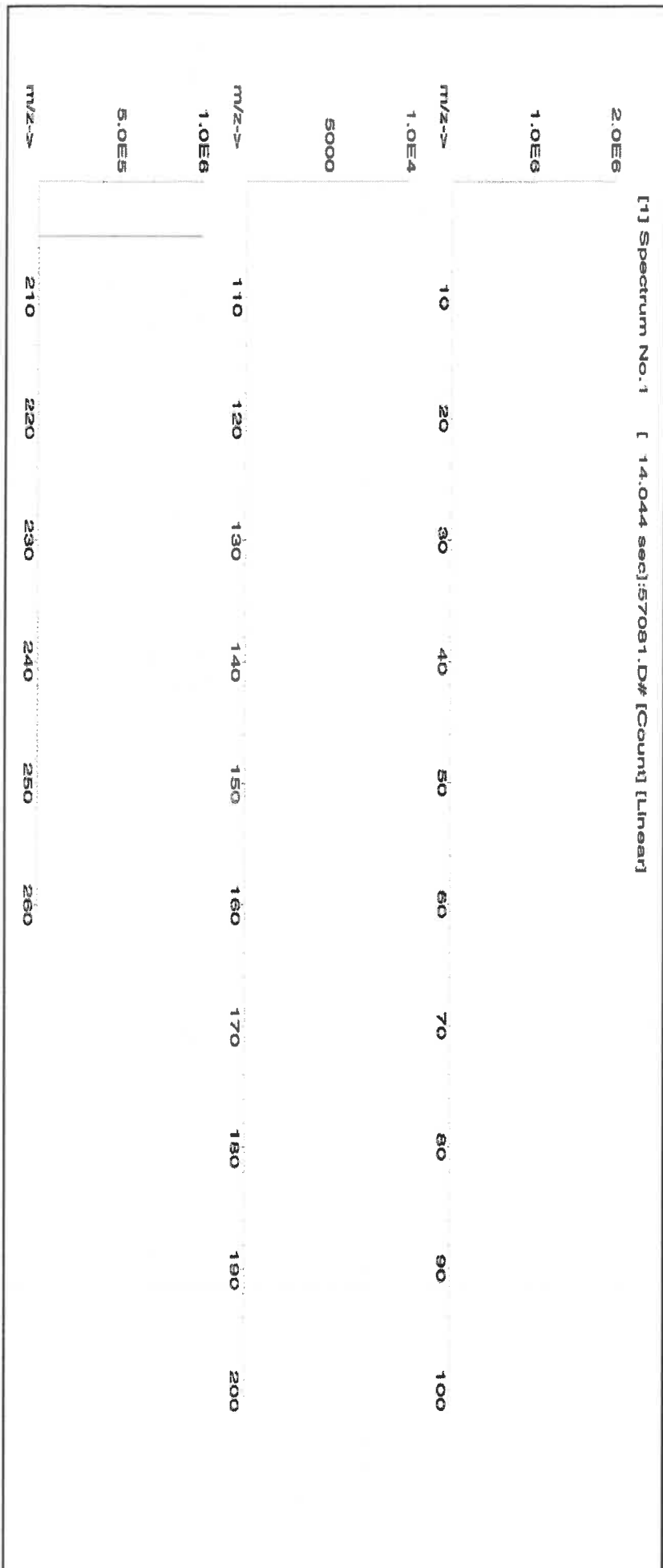
Pedro L. Renteria
Reviewed By: Pedro L. Renterias 062724

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
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1. Thallium nitrate (TI) 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

[1] Spectrum No.1 [14.044 sec]:57081.D# [Count] [Linear]





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	Pt	<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	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	Tm	<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	Sn	<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	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Se	<0.02	Ta	<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 certified (+/-) 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).



Certified Reference Material CRM

M6021



CERTIFIED WEIGHT REPORT:

Part Number: 57023
Lot Number: 062424
Description: Vanadium (V)

Lot # 24002546
Solvent: Nitric Acid

Aleah O'Brady	
Formulated By:	Aleah O'Brady
Reviewed By:	Pedro L. Rantas
	062424

Expiration Date: 062427
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

2.0% 40.0 (mL) Nitric Acid

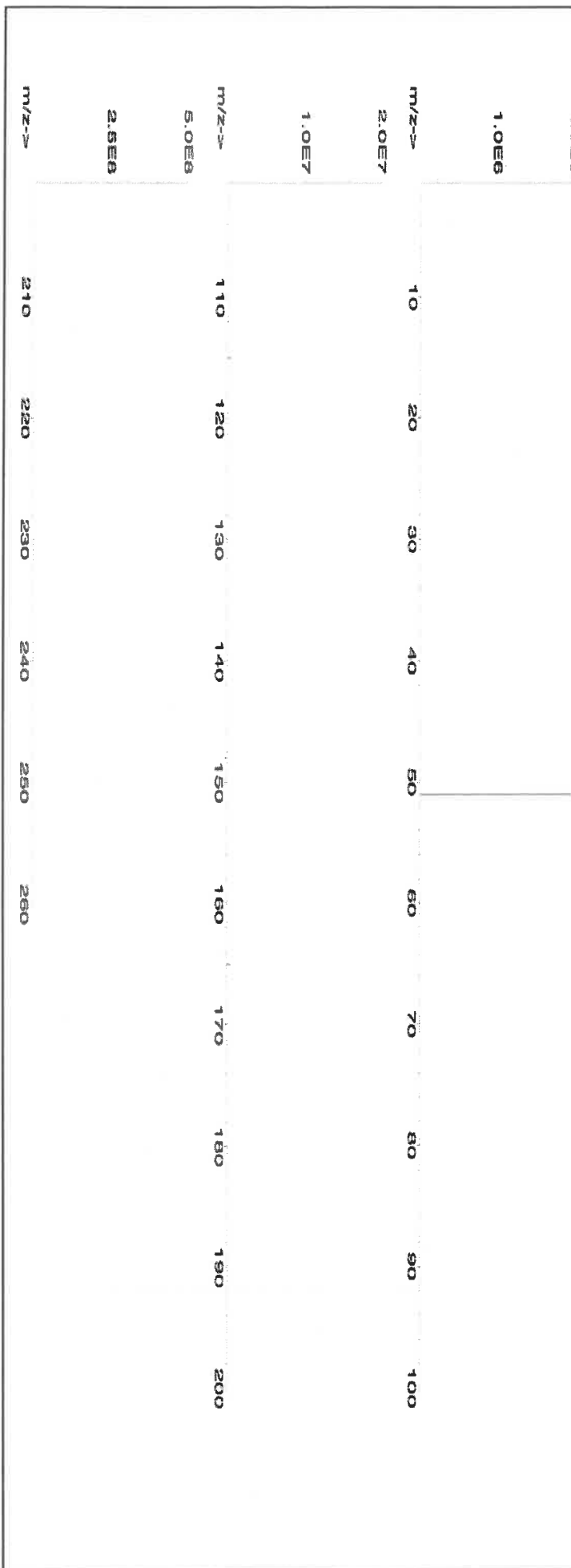
Volume shown below was diluted to (mL): 2000.3

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.)	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 or-at 58.1mg/kg 3165

[1] Spectrum No.1 [34.243 sec]:58023.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<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	Ru	<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	Sr	<0.02	S	<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	Ta	<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			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 certified (+/-) 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

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Requested Turnaround Time		Dissolved Metals Samples	
5-Day ☐	10-Day ☒	☐	Field Filtered
PFAS 10-Day (std) ☐	Due Date:	☐	Lab to Filter
Rush-Approval Required		Orthophosphate Samples	
1-Day ☐	3-Day ☐	☐	Field Filtered
2-Day ☐	4-Day ☐	☐	Lab to Filter
Data Delivery			
Format:	PDF ☒	EXCEL ☒	PCB ONLY
Other:			
CLP Like Data Pkg Required:	☐ No	SOXHLET ☒	
Email To:	aroy@nobis-group.com		NON SOXHLET ☐
Fax To #:			

[illegible]

Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	7/17/25 1500

Received by: (signature) 	Date/Time: 7/18/25 0955
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Relinquished by: (signature)	Date/Time:
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Received by: (signature)	Date/Time:
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Relinquished by: (signature)	Date/Time:

Received by: (signature)	Date/Time:

Relinquished by: (signature)	Date/Time:

Received by: (signature)	Date/Time:
Lab Comments:	

Client Comments:										
Detection Limit Requirements		Special Requirements				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				
MA		☐	MA MCP Required							
			MCP Certification Form Required							
CT		☒	CT RCP Required							
			RCP Certification Form Required							
		☐	MA State DW Required							
Other:		PWSID #					NELAC and AIHA-LAP, LLC Accredited			
Project Entity										Other ☐ Chromatogram ☐ AIHA-LAP, LLC
Government	☐	Municipality	☐	MWRA	☐	WRTA	☐			
Federal	☐	21 J	☐	School	☐					
City	☐	Brownfield	☐	MBTA	☐					

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.

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639	NOBI03	Order Date : 7/18/2025 10:22:00 AM	Project Mgr :
Client Name : Nobis Group		Project Name : Raymark Superfund Site	Report Type : Level 4
Client Contact : Adam Roy		Receive DateTime : 7/18/2025 9:55:00 AM	EDD Type : EQUIS
Invoice Name : Nobis Group		Purchase Order :	Hard Copy Date :
Invoice Contact : Adam Roy			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	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639	NOBI03	Order Date : 7/18/2025 10:22:00 AM	Project Mgr :
Client Name : Nobis Group		Project Name : Raymark Superfund Site	Report Type : Level 4
Client Contact : Adam Roy		Receive DateTime : 7/18/2025 9:55:00 AM	EDD Type : EQUIS
Invoice Name : Nobis Group		Purchase Order :	Hard Copy Date :
Invoice Contact : Adam Roy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time :

[Signature]
7/18/25 1100

Received By :

Date / Time :

[Signature]
07/18/25 11:00 *Rg #6*
FZ2

Storage Area : VOA Refridgerator Room