DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC Client : G Environmental

Project Location : NJ Project Number : Freehold

Laboratory Sample ID(s) : Q2705 Sampling Date(s) : 7/25/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **6010D,NJEPH,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☑ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☑ Yes ☐ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

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Cover Page

Order ID : Q2705

Project ID : Freehold

Client : G Environmental

Lab Sample Number	Client Sample Number
Q2705-01	FG1A
Q2705-02	FG1B
Q2705-03	FG2A
Q2705-04	FG2B
Q2705-05	FG2C

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: 8/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

G Environmental
Project Name: Freehold
Project # N/A
Order ID # Q2705
Test Name: Metals Group5

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 07/25/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: EPH_NF and Metals Group5. This data package contains results for Metals Group5.

C. Analytical Techniques:
The analysis of Metals Group5 was based on method 6010D and digestion based on method 3050 (soils).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate analysis met criteria for all compounds.
The Matrix Spike analysis met criteria for all compounds.
The Matrix Spike Duplicate analysis met criteria for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Signature_____

Alliance TECHNICAL GROUP

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2705**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **08/06/2025**

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LAB CHRONICLE

OrderID:	Q2705	**OrderDate:**	7/25/2025 1:02:24 PM
Client:	G Environmental	**Project:**	Freehold
Contact:	Gary Landis	**Location:**	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2705-02	**FG1B**	**SOIL**			**07/25/25**			**07/25/25**
			Metals Group5	6010D		07/31/25	08/01/25	
Q2705-03	**FG2A**	**SOIL**			**07/25/25**			**07/25/25**
			Metals Group5	6010D		07/28/25	07/29/25	
Q2705-04	**FG2B**	**SOIL**			**07/25/25**			**07/25/25**
			Metals Group5	6010D		07/28/25	07/29/25	
Q2705-05	**FG2C**	**SOIL**			**07/25/25**			**07/25/25**
			Metals Group5	6010D		07/28/25	07/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2705 **Order ID:** Q2705

Client: G Environmental **Project ID:** Freehold

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : FG1B								
Q2705-02	FG1B	SOIL	Arsenic	20.9		0.21	1.08	mg/Kg
Client ID : FG2A								
Q2705-03	FG2A	SOIL	Arsenic	1.06		0.18	0.92	mg/Kg
Client ID : FG2B								
Q2705-04	FG2B	SOIL	Arsenic	20.6		0.19	0.97	mg/Kg
Client ID : FG2C								
Q2705-05	FG2C	SOIL	Arsenic	22.4		0.19	0.98	mg/Kg



SAMPLE DATA

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Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1B	SDG No.:	Q2705
Lab Sample ID:	Q2705-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	20.9		1	0.21	1.08	mg/Kg	07/31/25 10:10	08/01/25 12:43	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group5				

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG2A	SDG No.:	Q2705
Lab Sample ID:	Q2705-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	97.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	1.06		1	0.18	0.92	mg/Kg	07/28/25 10:30	07/29/25 14:46	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group5				

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG2B	SDG No.:	Q2705
Lab Sample ID:	Q2705-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	20.6		1	0.19	0.97	mg/Kg	07/28/25 10:30	07/29/25 15:19	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group5				

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

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

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Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG2C	SDG No.:	Q2705
Lab Sample ID:	Q2705-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	22.4		1	0.19	0.98	mg/Kg	07/28/25 10:30	07/29/25 15:23	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group5				

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

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

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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	Arsenic	3840	4000	96	90 - 110	P	07/29/2025	12:20	LB136648

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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	Arsenic	18.5	20.0	93	80 - 120	P	07/29/2025	13:01	LB136648

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5080	5000	102	90 - 110	P	07/29/2025	14:21	LB136648
CCV02	Arsenic	5120	5000	102	90 - 110	P	07/29/2025	15:11	LB136648
CCV03	Arsenic	5110	5000	102	90 - 110	P	07/29/2025	16:14	LB136648
CCV04	Arsenic	5240	5000	105	90 - 110	P	07/29/2025	17:20	LB136648
CCV05	Arsenic	5170	5000	103	90 - 110	P	07/29/2025	18:11	LB136648
CCV06	Arsenic	5140	5000	103	90 - 110	P	07/29/2025	18:31	LB136648

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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	Arsenic	3920	4000	98	90- 110	P	08/01/2025	11:43	LB136688

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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	Arsenic	22.0	20.0	110	80 - 120	P	08/01/2025	11:54	LB136688

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4930	5000	99	90 - 110	P	08/01/2025	12:26	LB136688
CCV02	Arsenic	4870	5000	97	90 - 110	P	08/01/2025	13:16	LB136688
CCV03	Arsenic	4920	5000	98	90 - 110	P	08/01/2025	14:07	LB136688
CCV04	Arsenic	4830	5000	97	90 - 110	P	08/01/2025	15:32	LB136688
CCV05	Arsenic	4870	5000	98	90 - 110	P	08/01/2025	16:35	LB136688
CCV06	Arsenic	4800	5000	96	90 - 110	P	08/01/2025	17:01	LB136688

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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	Arsenic	18.9	20.0	94	65 - 135	P	07/29/2025	13:09	LB136648
CRI01	Arsenic	22.7	20.0	114	65 - 135	P	08/01/2025	12:04	LB136688

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	13:05	LB136648

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	14:25	LB136648
CCB02	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	15:15	LB136648
CCB03	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	16:20	LB136648
CCB04	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	17:24	LB136648
CCB05	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	18:15	LB136648
CCB06	Arsenic	5.12	+/-10	U	20.0	P	07/29/2025	18:36	LB136648

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	11:59	LB136688

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	12:30	LB136688
CCB02	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	13:22	LB136688
CCB03	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	14:16	LB136688
CCB04	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	15:36	LB136688
CCB05	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	16:40	LB136688
CCB06	Arsenic	5.12	+/-10	U	20.0	P	08/01/2025	17:05	LB136688

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q2705

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169029BL		**SOLID**		**Batch Number:**	**PB169029**		**Prep Date:**	**07/28/2025**	
	Arsenic	0.19	<0.5	U	1.00	P	07/29/2025	14:29	LB136648

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB169062BL		**SOLID**		**Batch Number:**	**PB169062**		**Prep Date:**	**07/31/2025**	
	Arsenic	0.19	<0.5	U	1.00	P	08/01/2025	12:35	LB136688

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

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

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	7.46			-20	20	07/29/2025	13:14	LB136648
ICSAB01	Arsenic	104	104	100	88.4	120	07/29/2025	13:20	LB136648
ICSA01	Arsenic	8.00			-20	20	08/01/2025	12:09	LB136688
ICSAB01	Arsenic	104	104	100	88.4	120	08/01/2025	12:14	LB136688

METAL
QC
DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2705

contract: GENV01 **lab code:** ACE

matrix: Solid **sample id:** Q2705-02 **client id:** FG1BMS

Percent Solids for Sample: 85.9 **Spiked ID:** Q2705-02MS **Percent Solids for Spike Sample:** 85.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	53.9		20.9		40.8	81		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2705

contract: GENV01 **lab code:** ACE

matrix: Solid **sample id:** Q2705-02 **client id:** FG1BMSD

Percent Solids for Sample: 85.9 **Spiked ID:** Q2705-02MSD **Percent Solids for Spike Sample:** 85.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	54.0		20.9		41.0	81		P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2705

contract: GENV01 **lab code:** ACE

matrix: Solid **sample id:** Q2705-03 **client id:** FG2AMS

Percent Solids for Sample: 97.4 **Spiked ID:** Q2705-03MS **Percent Solids for Spike Sample:** 97.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.2		1.06		37.9	90		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q2705

contract: GENV01 **lab code:** ACE

matrix: Solid **sample id:** Q2705-03 **client id:** FG2AMSD

Percent Solids for Sample: 97.4 **Spiked ID:** Q2705-03MSD **Percent Solids for Spike Sample:** 97.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	34.6		1.06		36.0	93		P

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Metals
- 5b -

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2705-02 **Client ID:** FG1BDUP

Percent Solids for Sample: 85.9 **Duplicate ID** Q2705-02DUP **Percent Solids for Spike Sample:** 85.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	20.9		19.2		8		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2705-02MS **Client ID:** FG1BMSD

Percent Solids for Sample: 85.9 **Duplicate ID** Q2705-02MSD **Percent Solids for Spike Sample:** 85.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	53.9		54.0		0		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2705-03 **Client ID:** FG2ADUP

Percent Solids for Sample: 97.4 **Duplicate ID** Q2705-03DUP **Percent Solids for Spike Sample:** 97.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	1.06		0.85	J	22		P

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: G Environmental **Level:** LOW **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2705-03MS **Client ID:** FG2AMSD

Percent Solids for Sample: 97.4 **Duplicate ID** Q2705-03MSD **Percent Solids for Spike Sample:** 97.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	35.2		34.6		2		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169029BS							
Arsenic	mg/Kg	40.0	39.3		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169062BS							
Arsenic	mg/Kg	40.0	38.1		95	80 - 120	P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

FG1BL

Lab Name: Alliance **Contract:** GENV01

Lab Code: ACE **Lb No.:** lb136688 **Lab Sample ID :** Q2705-02L **SDG No.:** Q2705

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	20.9		23.2		11		P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

FG2AL

Lab Name: Alliance **Contract:** GENV01

Lab Code: ACE **Lb No.:** lb136648 **Lab Sample ID :** Q2705-03L **SDG No.:** Q2705

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	1.06		4.60	U	100.0		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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:	**PB169029**						
PB169029BL	PB169029BL	MB	SOLID	07/28/2025	2.00	100.0	100.00
PB169029BS	PB169029BS	LCS	SOLID	07/28/2025	2.00	100.0	100.00
Q2705-03	FG2A	SAM	SOLID	07/28/2025	2.23	100.0	97.40
Q2705-03DUP	FG2ADUP	DUP	SOLID	07/28/2025	2.34	100.0	97.40
Q2705-03MS	FG2AMS	MS	SOLID	07/28/2025	2.17	100.0	97.40
Q2705-03MSD	FG2AMSD	MSD	SOLID	07/28/2025	2.28	100.0	97.40
Q2705-04	FG2B	SAM	SOLID	07/28/2025	2.36	100.0	87.10
Q2705-05	FG2C	SAM	SOLID	07/28/2025	2.38	100.0	85.40

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: G Environmental **SDG No.:** Q2705

Contract: GENV01 **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:	**PB169062**						
PB169062BL	PB169062BL	MB	SOLID	07/31/2025	2.00	100.0	100.00
PB169062BS	PB169062BS	LCS	SOLID	07/31/2025	2.00	100.0	100.00
Q2705-02	FG1B	SAM	SOLID	07/31/2025	2.16	100.0	85.90
Q2705-02DUP	FG1BDUP	DUP	SOLID	07/31/2025	2.27	100.0	85.90
Q2705-02MS	FG1BMS	MS	SOLID	07/31/2025	2.28	100.0	85.90
Q2705-02MSD	FG1BMSD	MSD	SOLID	07/31/2025	2.27	100.0	85.90

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: ACE **Sdg no.:** Q2705

Instrument id number: **Method:** **Run number:** LB136648

Start date: 07/29/2025 **End date:** 07/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1120	As
S1	S1	1	1124	As
S2	S2	1	1128	As
S3	S3	1	1132	As
S4	S4	1	1137	As
S5	S5	1	1141	As
ICV01	ICV01	1	1220	As
LLICV01	LLICV01	1	1301	As
ICB01	ICB01	1	1305	As
CRI01	CRI01	1	1309	As
ICSA01	ICSA01	1	1314	As
ICSAB01	ICSAB01	1	1320	As
CCV01	CCV01	1	1421	As
CCB01	CCB01	1	1425	As
PB169029BL	PB169029BL	1	1429	As
PB169029BS	PB169029BS	1	1434	As
Q2705-03	FG2A	1	1446	As
Q2705-03DUP	FG2ADUP	1	1450	As
Q2705-03L	FG2AL	5	1454	As
Q2705-03MS	FG2AMS	1	1459	As
Q2705-03MSD	FG2AMSD	1	1503	As
CCV02	CCV02	1	1511	As
CCB02	CCB02	1	1515	As
Q2705-04	FG2B	1	1519	As
Q2705-05	FG2C	1	1523	As
CCV03	CCV03	1	1614	As
CCB03	CCB03	1	1620	As
CCV04	CCV04	1	1720	As
CCB04	CCB04	1	1724	As
CCV05	CCV05	1	1811	As
CCB05	CCB05	1	1815	As
CCV06	CCV06	1	1831	As
CCB06	CCB06	1	1836	As

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metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental **Contract:** GENV01

Lab code: ACE **Sdg no.:** Q2705

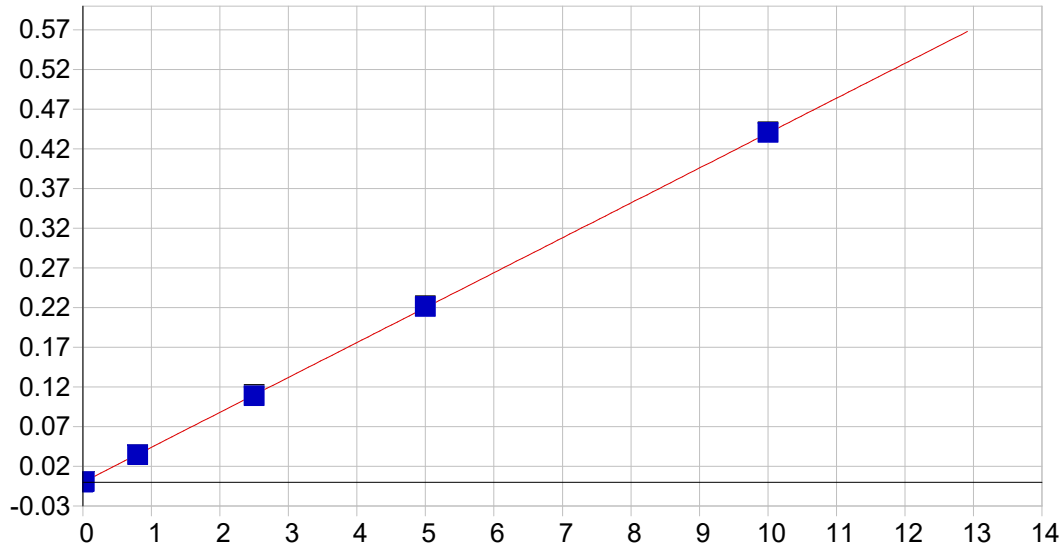
Instrument id number: **Method:** **Run number:** LB136688

Start date: 08/01/2025 **End date:** 08/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1118	As
S1	S1	1	1122	As
S2	S2	1	1126	As
S3	S3	1	1130	As
S4	S4	1	1134	As
S5	S5	1	1138	As
ICV01	ICV01	1	1143	As
LLICV01	LLICV01	1	1154	As
ICB01	ICB01	1	1159	As
CRI01	CRI01	1	1204	As
ICSA01	ICSA01	1	1209	As
ICSAB01	ICSAB01	1	1214	As
CCV01	CCV01	1	1226	As
CCB01	CCB01	1	1230	As
PB169062BL	PB169062BL	1	1235	As
PB169062BS	PB169062BS	1	1239	As
Q2705-02	FG1B	1	1243	As
Q2705-02DUP	FG1BDUP	1	1247	As
Q2705-02L	FG1BL	5	1251	As
Q2705-02MS	FG1BMS	1	1255	As
Q2705-02MSD	FG1BMSD	1	1259	As
CCV02	CCV02	1	1316	As
CCB02	CCB02	1	1322	As
CCV03	CCV03	1	1407	As
CCB03	CCB03	1	1416	As
CCV04	CCV04	1	1532	As
CCB04	CCB04	1	1536	As
CCV05	CCV05	1	1635	As
CCB05	CCB05	1	1640	As
CCV06	CCV06	1	1701	As
CCB06	CCB06	1	1705	As

METAL
RAW DATA

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



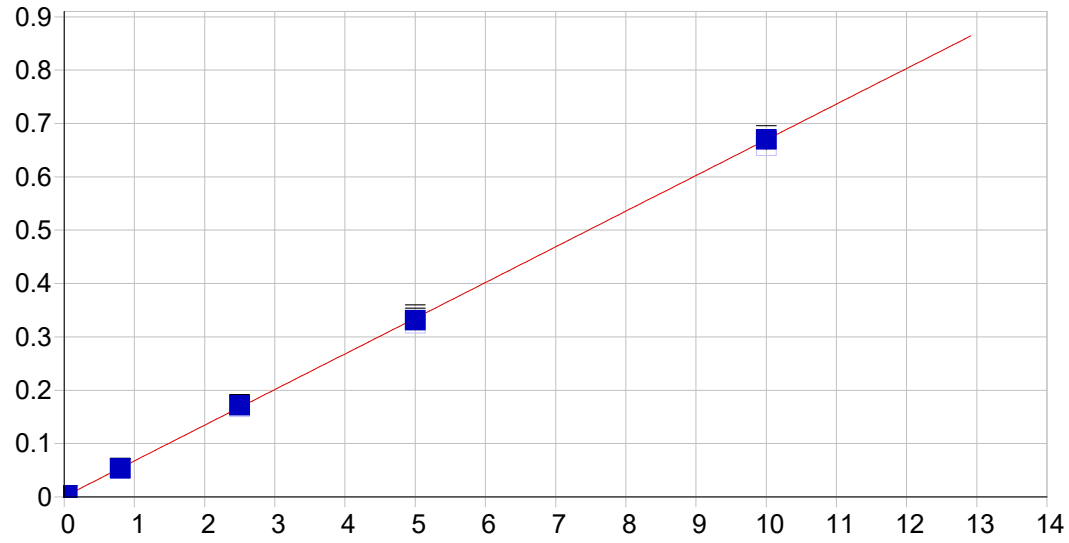
As 189.042 {479}

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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002506		
Predicted MQL:	0.008352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00004	.000	1
S1	.02000	.01744	-.003	-12.8	.00080	.000	1
S3	2.5000	2.4727	-.027	-1.09	.10869	.001	1
S4	5.0000	5.0249	.025	.498	.22085	.001	1
S5	10.000	10.020	.020	.203	.44037	.001	1
S2	.80000	.78465	-.015	-1.92	.03452	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



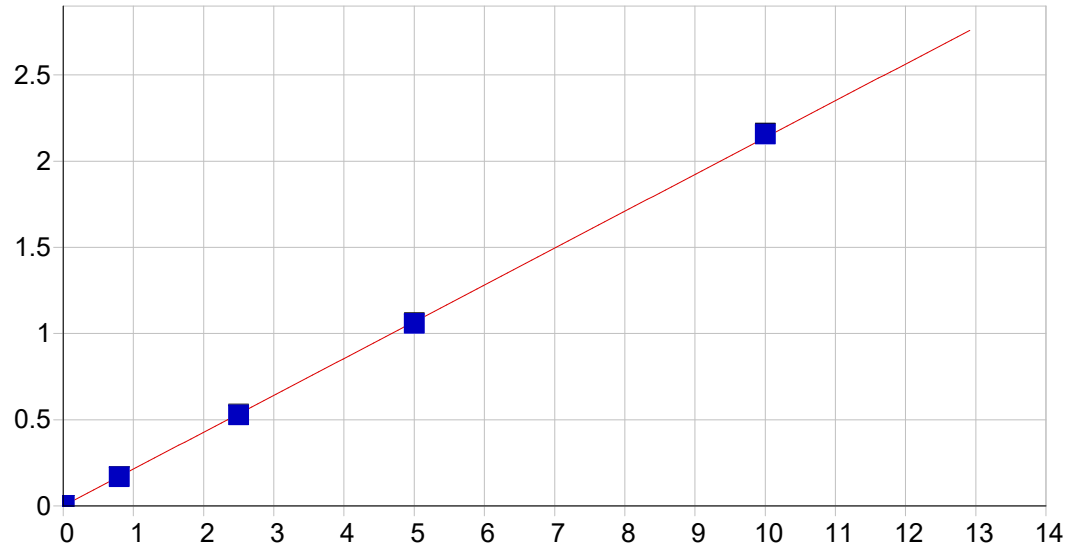
Tl 190.856 {477}

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A1 (Gain):	0.066874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.001430		
Predicted MQL:	0.004766		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00059	.000	1
S1	.04000	.03862	-.001	-3.45	.00300	.000	1
S3	2.5000	2.5561	.056	2.24	.16845	.002	1
S4	5.0000	4.9411	-.059	-1.18	.32488	.010	1
S5	10.000	10.013	.013	.130	.65791	.007	1
S2	.80000	.79114	-.009	-1.11	.05251	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



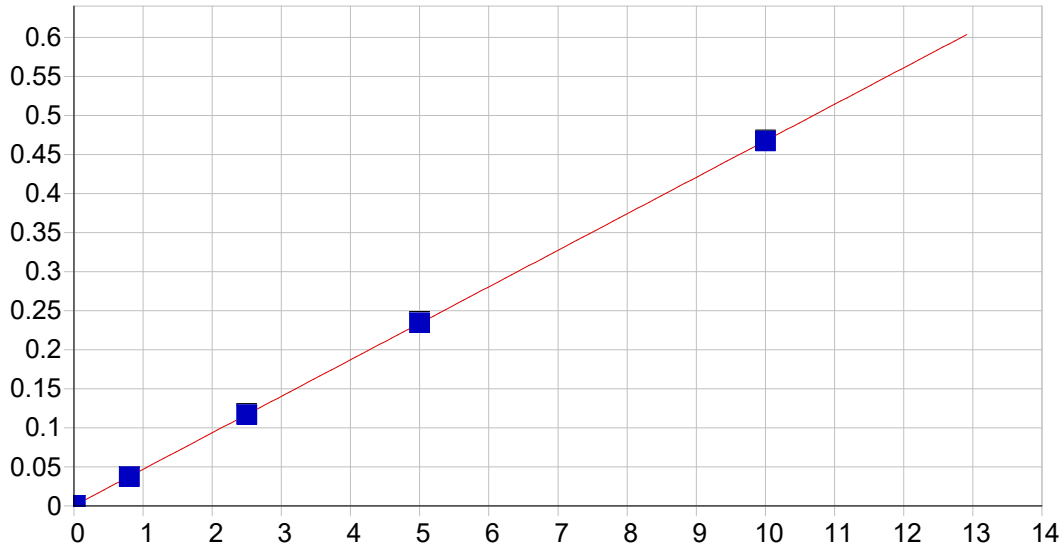
Pb 220.353 {453}

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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.001251		
Predicted MQL:	0.004171		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.01200	.01270	.001	5.81	.00271	.000	1
S3	2.5000	2.4681	-.032	-1.28	.52683	.005	1
S4	5.0000	4.9509	-.049	-.982	1.0568	.004	1
S5	10.000	10.093	.093	.935	2.1544	.006	1
S2	.80000	.78683	-.013	-1.65	.16798	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



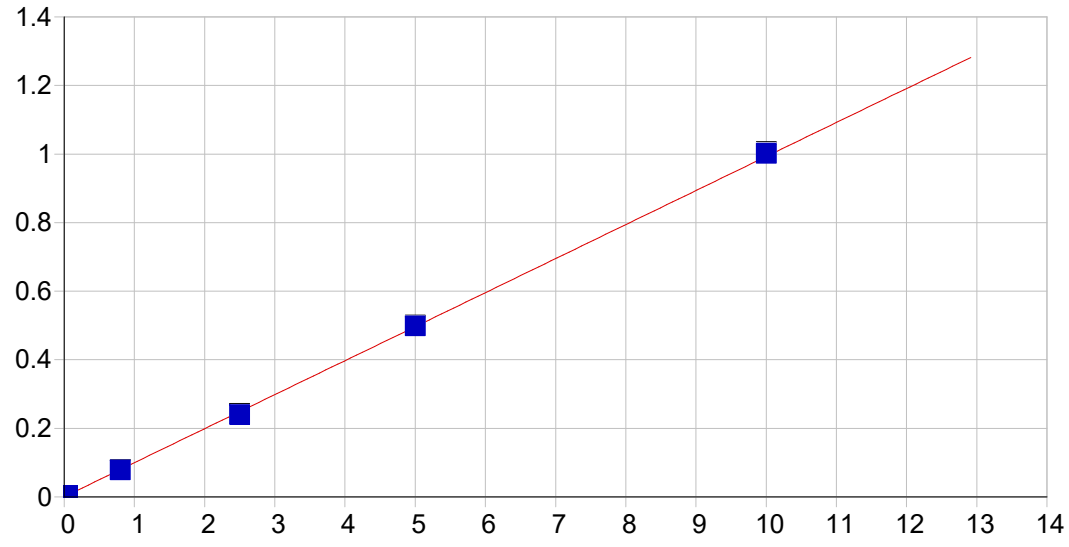
Se 196.090 {472}

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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.002995		
Predicted MQL:	0.009984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00017	.000	1
S1	.02000	.01918	-.001	-4.11	.00107	.000	1
S3	2.5000	2.4960	-.004	-.160	.11677	.001	1
S4	5.0000	5.0116	.012	.232	.23429	.002	1
S5	10.000	9.9953	-.005	-.047	.46710	.001	1
S2	.80000	.79791	-.002	-.261	.03745	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



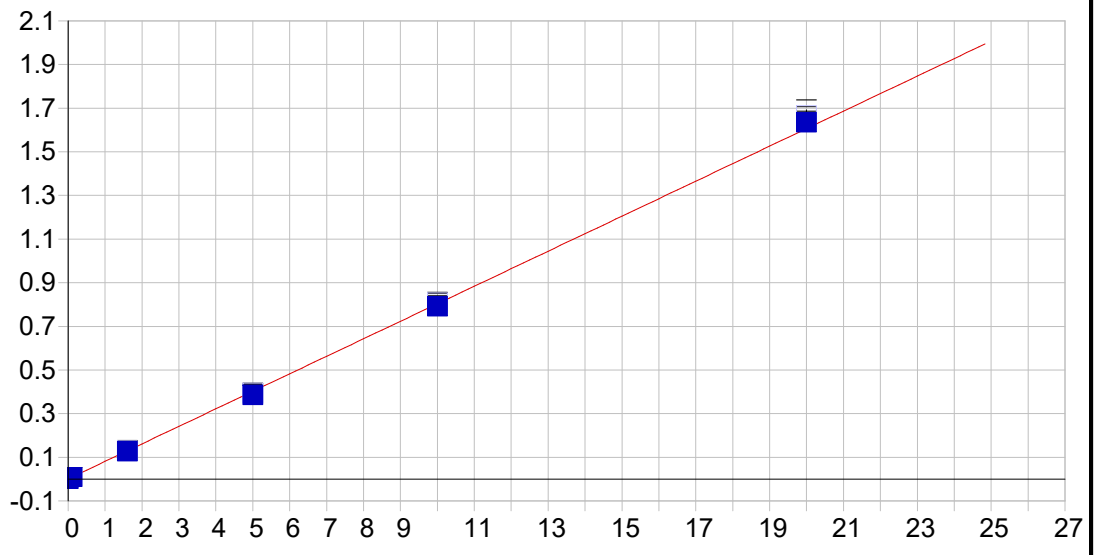
Sb 206.833 {463}

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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.001861		
Predicted MQL:	0.006202		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.05000	.04996	-.000	-.085	.00546	.000	1
S3	2.5000	2.4113	-.089	-3.55	.24042	.003	1
S4	5.0000	5.0138	.014	.275	.49930	.002	1
S5	10.000	10.087	.087	.873	1.0040	.003	1
S2	.80000	.78767	-.012	-1.54	.07886	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



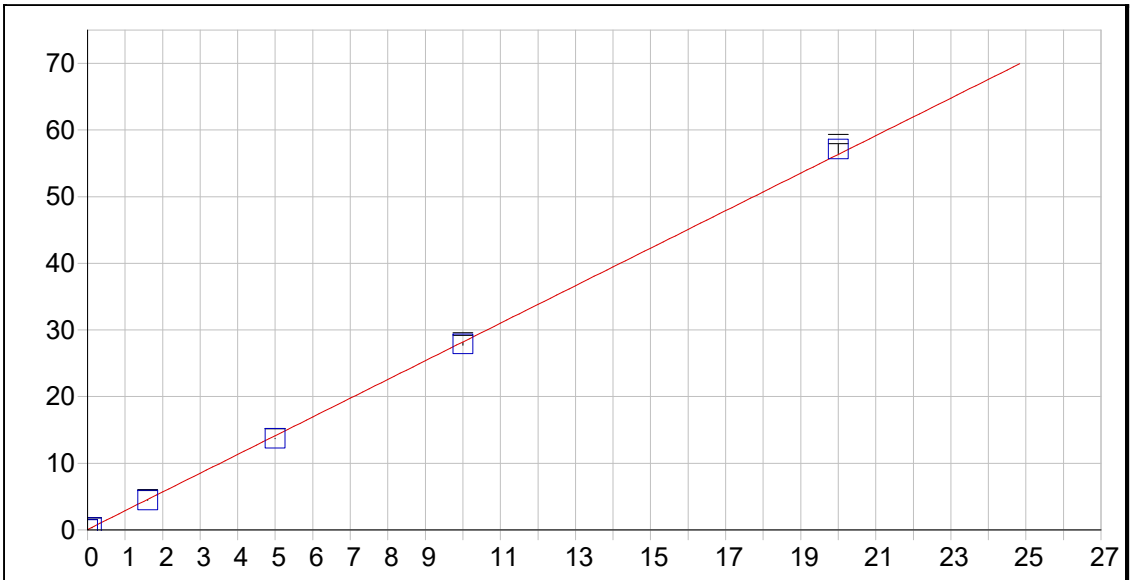
Al 396.152 { 85}

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A1 (Gain):	0.080266	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999775	Status:	OK.
Std Error of Est:	0.000129		
Predicted MDL:	0.011630		
Predicted MQL:	0.038765		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00093	.001	1
S1	.10000	.10423	.004	4.23	.00991	.000	1
S3	5.0000	4.7993	-.201	-4.01	.39393	.001	1
S4	10.000	9.8611	-.139	-1.39	.80801	.003	1
S5	20.000	20.362	.362	1.81	1.6664	.026	1
S2	1.6000	1.5735	-.026	-1.65	.12972	.003	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



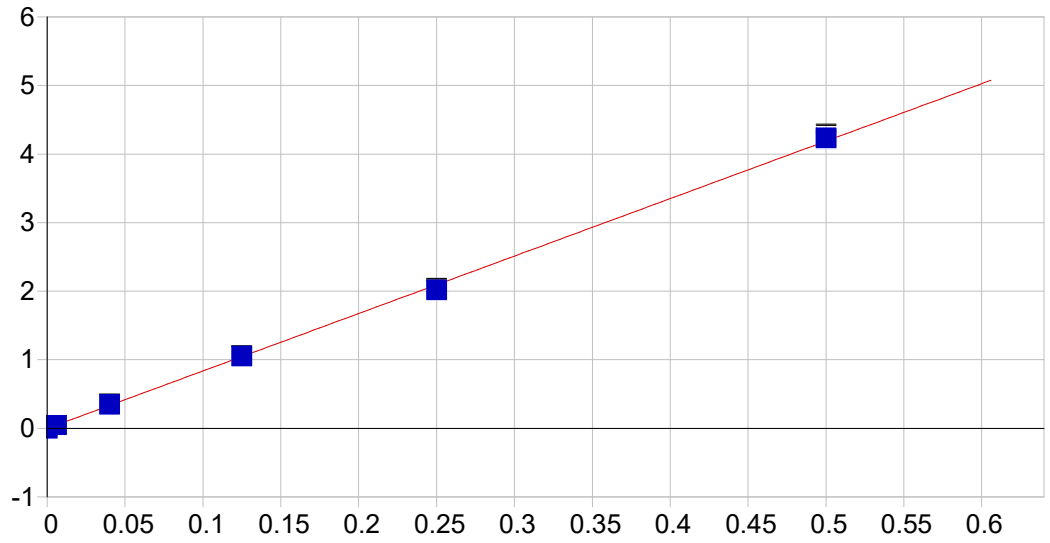
Ba 493.409 { 68}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.066503	Re-Slope:	1.000000
A1 (Gain):	2.813763	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.003523		
Predicted MDL:	0.000879		
Predicted MQL:	0.002930		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.06652	.001	1
S1	.10000	.09869	-.001	-1.31	.34420	.003	1
S3	5.0000	4.8520	-.148	-2.96	13.719	.014	1
S4	10.000	9.8893	-.111	-1.11	27.893	.193	1
S5	20.000	20.291	.291	1.46	57.161	.690	1
S2	1.6000	1.5690	-.031	-1.94	4.4812	.061	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



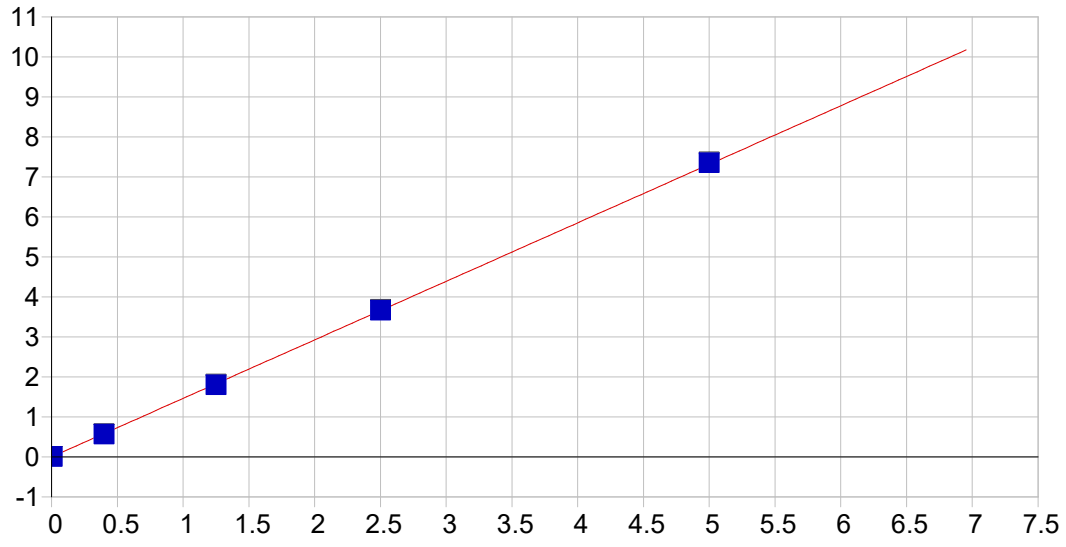
Be 234.861 {144}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001374	Re-Slope:	1.000000
A1 (Gain):	8.378548	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999749	Status:	OK.
Std Error of Est:	0.000537		
Predicted MDL:	0.000069		
Predicted MQL:	0.000229		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00138	.000	1
S1	.00600	.00608	.000	1.31	.04918	.000	1
S3	.12500	.12592	.001	.732	1.0489	.004	1
S4	.25000	.24133	-.009	-3.47	2.0112	.020	1
S5	.50000	.50590	.006	1.18	4.2186	.053	1
S2	.04000	.04178	.002	4.45	.34719	.005	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



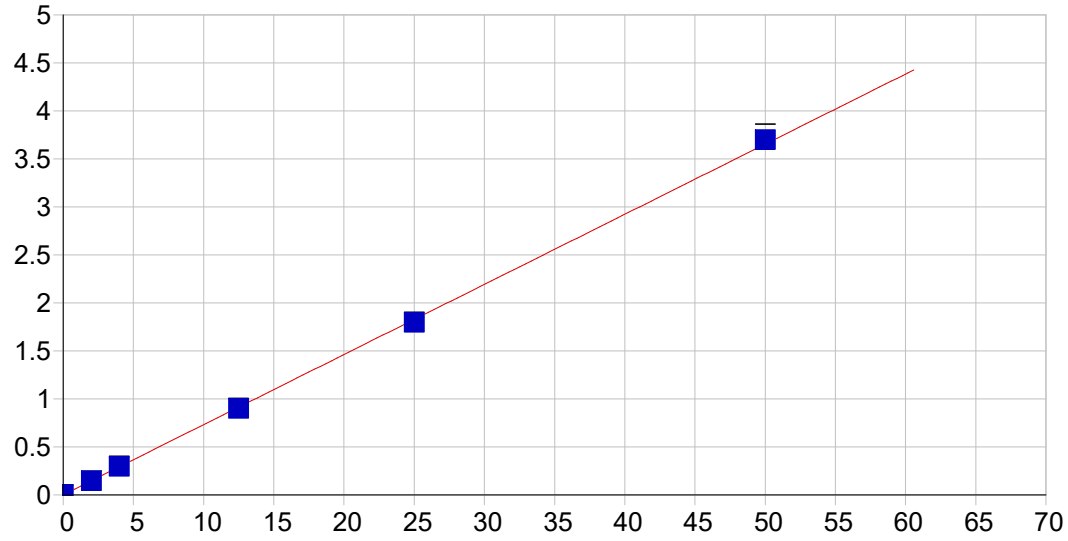
Cd 226.502 {449}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000818	Re-Slope:	1.000000
A1 (Gain):	1.463286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000113		
Predicted MDL:	0.000168		
Predicted MQL:	0.000561		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00082	.000	1
S1	.00600	.00583	-.000	-2.83	.00775	.000	1
S3	1.2500	1.2309	-.019	-1.53	1.8018	.015	1
S4	2.5000	2.5070	.007	.280	3.6706	.019	1
S5	5.0000	5.0223	.022	.446	7.3542	.017	1
S2	.40000	.38999	-.010	-2.50	.57031	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



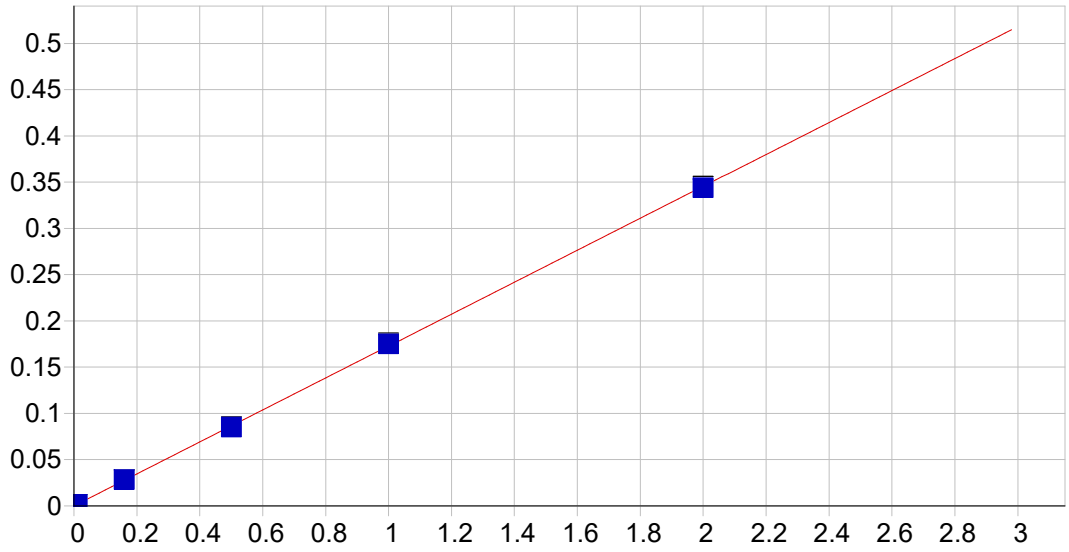
Ca 373.690 { 90}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001690	Re-Slope:	1.000000
A1 (Gain):	0.073039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000559		
Predicted MDL:	0.010738		
Predicted MQL:	0.035795		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00169	.001	1
S2	4.0000	4.0168	.017	.420	.29507	.004	1
S3	12.500	12.283	-.217	-1.74	.89882	.006	1
S4	25.000	24.562	-.438	-1.75	1.7956	.004	1
S5	50.000	50.634	.634	1.27	3.6999	.060	1
S1	2.0000	2.0047	.005	.235	.14811	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



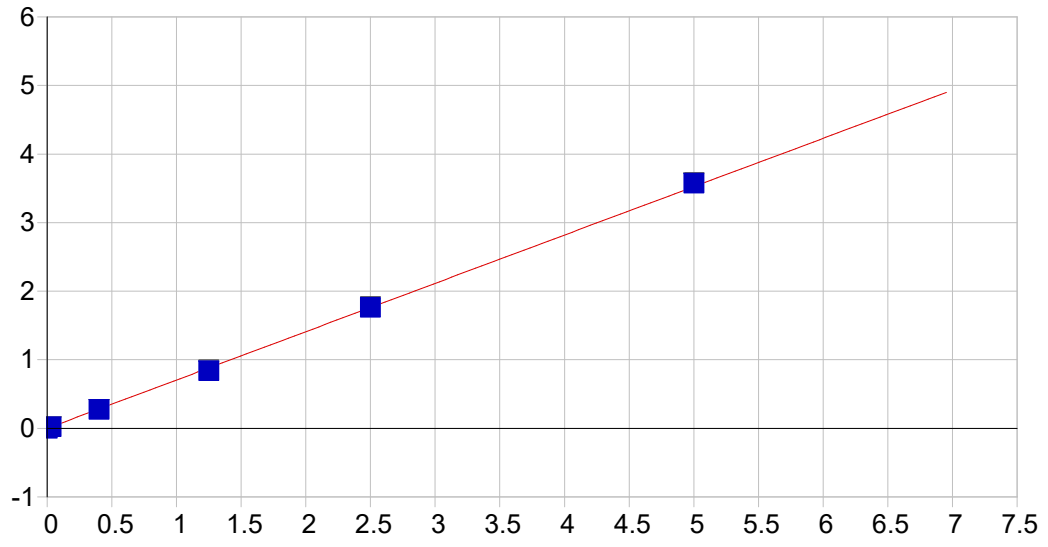
Cr 267.716 {126}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000161	Re-Slope:	1.000000
A1 (Gain):	0.172676	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.000373		
Predicted MQL:	0.001242		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.01000	.01098	.001	9.83	.00206	.000	1
S3	.50000	.49226	-.008	-1.55	.08520	.000	1
S4	1.0000	1.0131	.013	1.31	.17518	.001	1
S5	2.0000	1.9909	-.009	-.454	.34408	.002	1
S2	.16000	.16270	.003	1.69	.02827	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



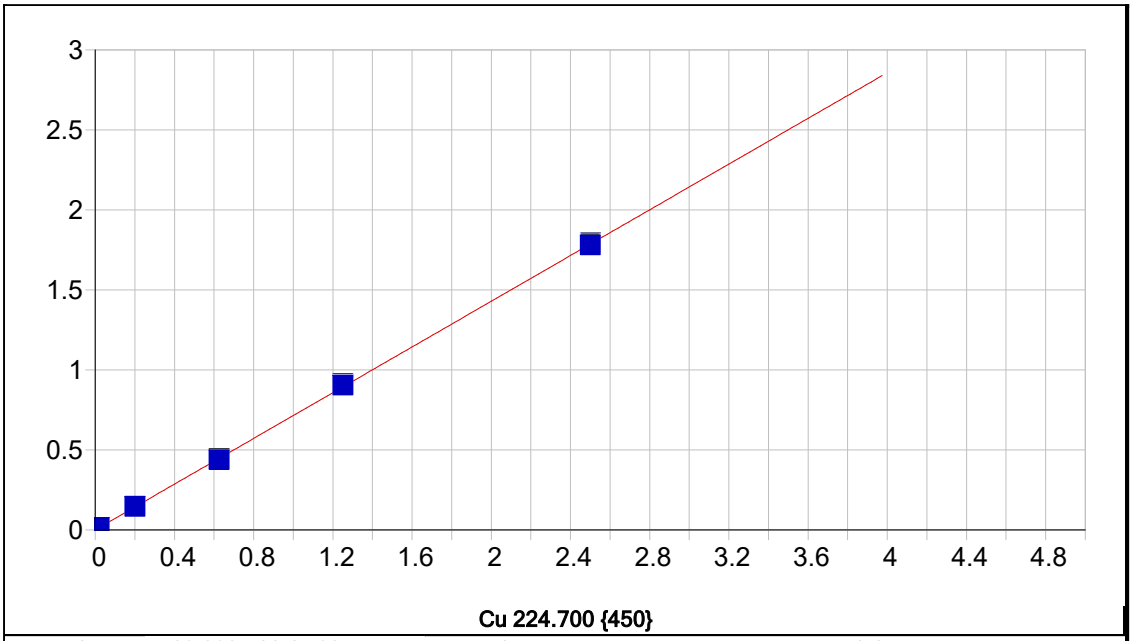
Co 228.616 {448}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000036	Re-Slope:	1.000000
A1 (Gain):	0.704826	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999772	Status:	OK.
Std Error of Est:	0.000307		
Predicted MDL:	0.000264		
Predicted MQL:	0.000880		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00004	.000	1
S1	.03000	.02971	-.000	-.955	.02089	.000	1
S3	1.2500	1.1894	-.061	-4.85	.83984	.008	1
S4	2.5000	2.5009	.001	.035	1.7657	.006	1
S5	5.0000	5.0705	.070	1.41	3.5798	.004	1
S2	.40000	.38956	-.010	-2.61	.27509	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



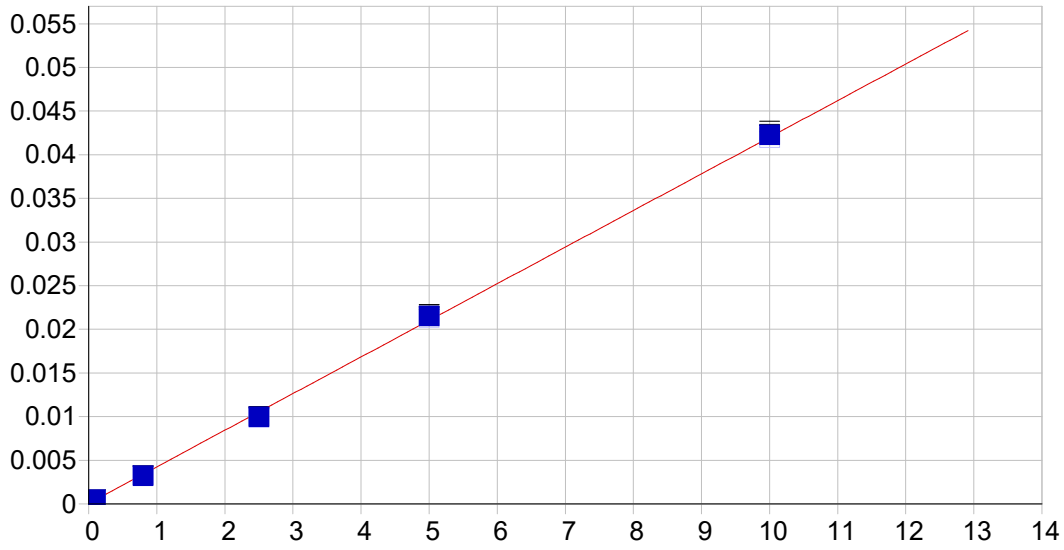
Cu 224.700 {450}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000451	Re-Slope:	1.000000
A1 (Gain):	0.714405	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.000391		
Predicted MQL:	0.001303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00045	.000	1
S1	.02000	.02375	.004	18.7	.01756	.000	1
S3	.62500	.61271	-.012	-1.97	.44154	.005	1
S4	1.2500	1.2642	.014	1.14	.91034	.004	1
S5	2.5000	2.4909	-.009	-.365	1.7934	.002	1
S2	.20000	.20344	.003	1.72	.14687	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



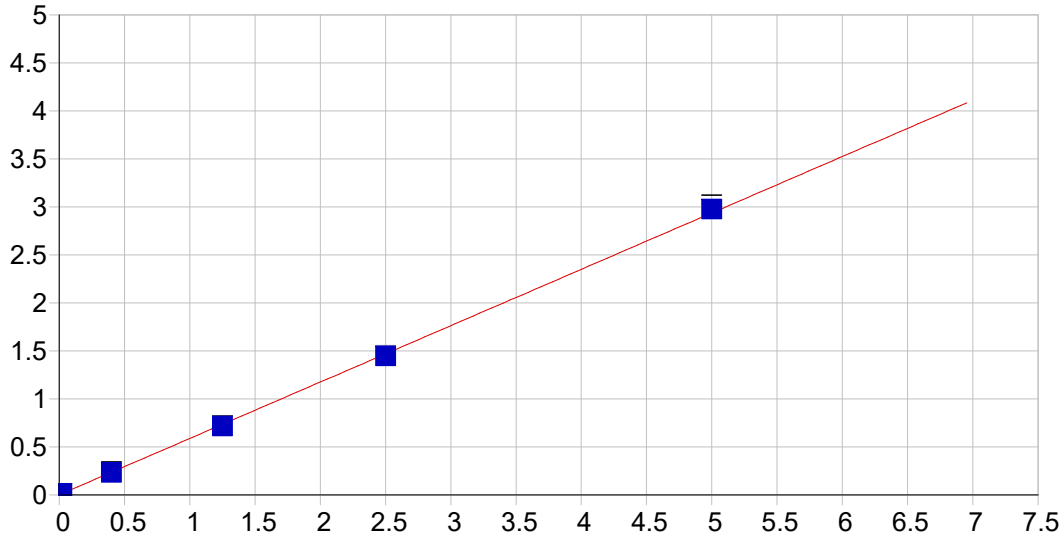
Fe 240.488 {140}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000051	Re-Slope:	1.000000
A1 (Gain):	0.004195	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999630	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.005529		
Predicted MQL:	0.018430		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00005	.000	1
S1	.10000	.10297	.003	2.97	.00048	.000	1
S3	2.5000	2.3614	-.139	-5.54	.00987	.000	1
S4	5.0000	5.1150	.115	2.30	.02133	.000	1
S5	10.000	10.066	.066	.657	.04192	.000	1
S2	.80000	.75496	-.045	-5.63	.00319	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



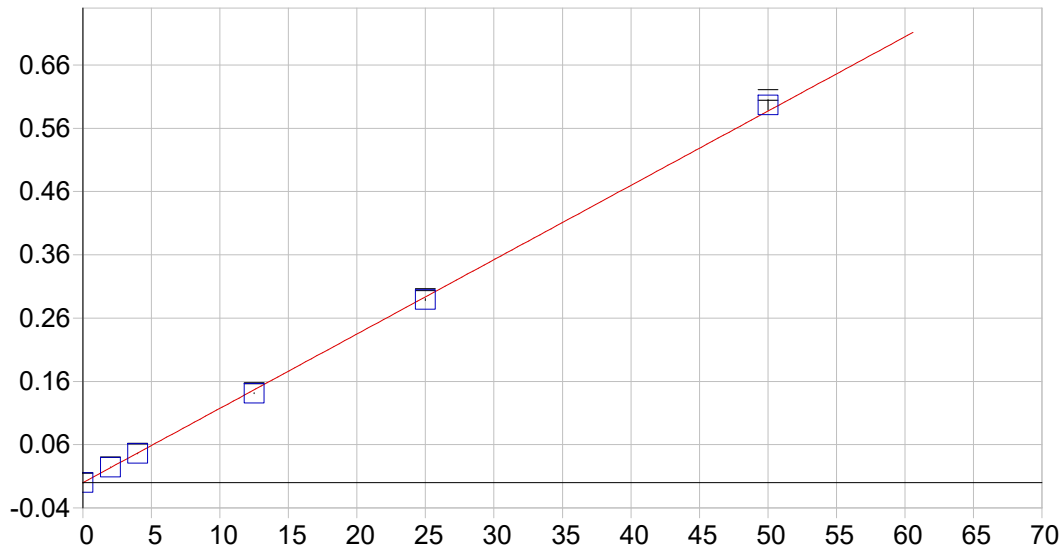
Mn 257.610 {131}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000805	Re-Slope:	1.000000
A1 (Gain):	0.587284	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.000508		
Predicted MQL:	0.001693		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00080	.000	1
S1	.02000	.02103	.001	5.15	.01316	.000	1
S3	1.2500	1.2210	-.029	-2.32	.71802	.003	1
S4	2.5000	2.4647	-.035	-1.41	1.4486	.003	1
S5	5.0000	5.0648	.065	1.30	2.9759	.044	1
S2	.40000	.39844	-.002	-.391	.23485	.004	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



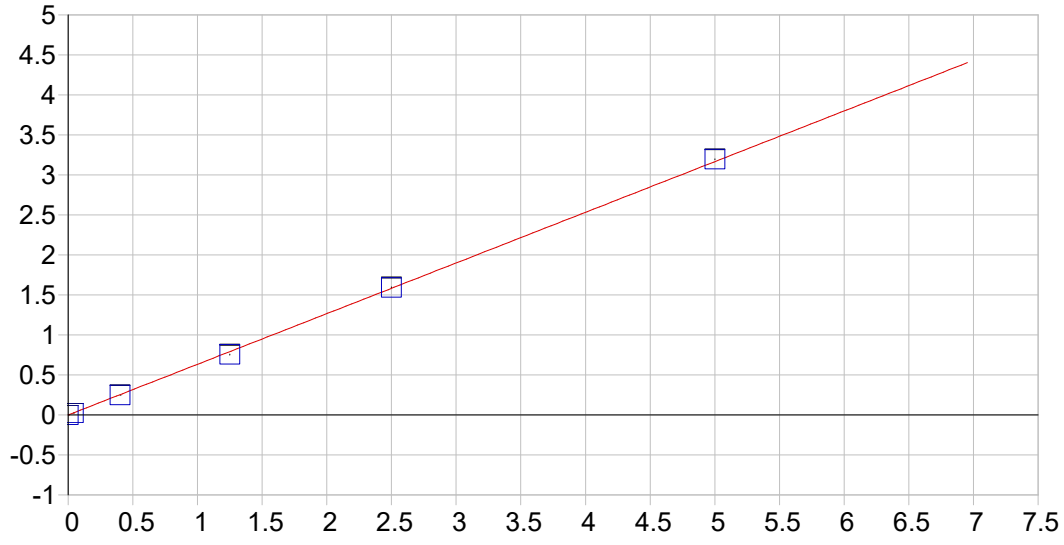
Mg 279.079 {121}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000099	Re-Slope:	1.000000
A1 (Gain):	0.011746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999771	Status:	OK.
Std Error of Est:	0.000133		
Predicted MDL:	0.028555		
Predicted MQL:	0.095183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00010	.000	1
S2	4.0000	3.9351	-.065	-1.62	.04612	.000	1
S3	12.500	12.024	-.476	-3.81	.14113	.001	1
S4	25.000	24.623	-.377	-1.51	.28911	.001	1
S5	50.000	50.825	.825	1.65	.59687	.008	1
S1	2.0000	2.0927	.093	4.64	.02448	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



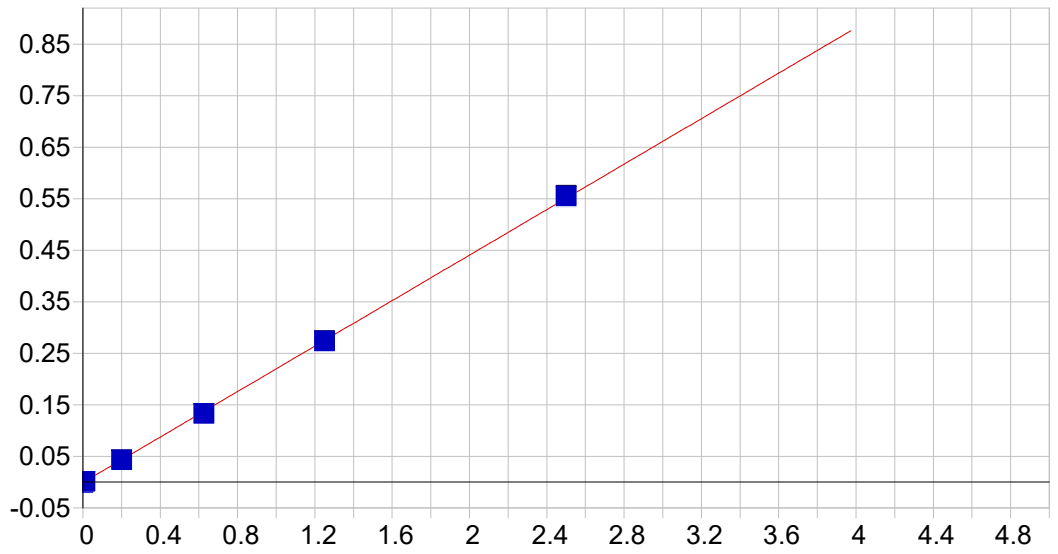
Ni 231.604 {446}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000534	Re-Slope:	1.000000
A1 (Gain):	0.633268	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999819	Status:	OK.
Std Error of Est:	0.000283		
Predicted MDL:	0.000340		
Predicted MQL:	0.001134		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00053	.000	1
S1	.04000	.04058	.001	1.45	.02516	.000	1
S3	1.2500	1.1926	-.057	-4.60	.75467	.007	1
S4	2.5000	2.5152	.015	.609	1.5923	.006	1
S5	5.0000	5.0486	.049	.971	3.1966	.005	1
S2	.40000	.39310	-.007	-1.72	.24840	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



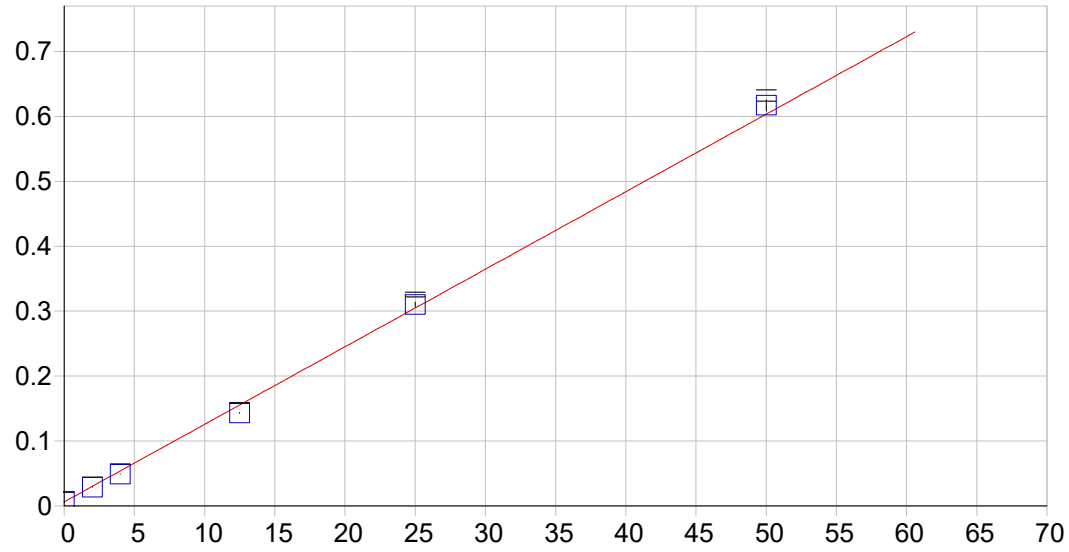
Ag 328.068 {103}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000820	Re-Slope:	1.000000
A1 (Gain):	0.220696	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000501		
Predicted MQL:	0.001668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00082	.000	1
S1	.01000	.01083	.001	8.28	.00155	.000	1
S3	.62500	.60754	-.017	-2.79	.13259	.000	1
S4	1.2500	1.2449	-.005	-.406	.27259	.000	1
S5	2.5000	2.5215	.021	.860	.55299	.001	1
S2	.20000	.20021	.000	.106	.04315	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



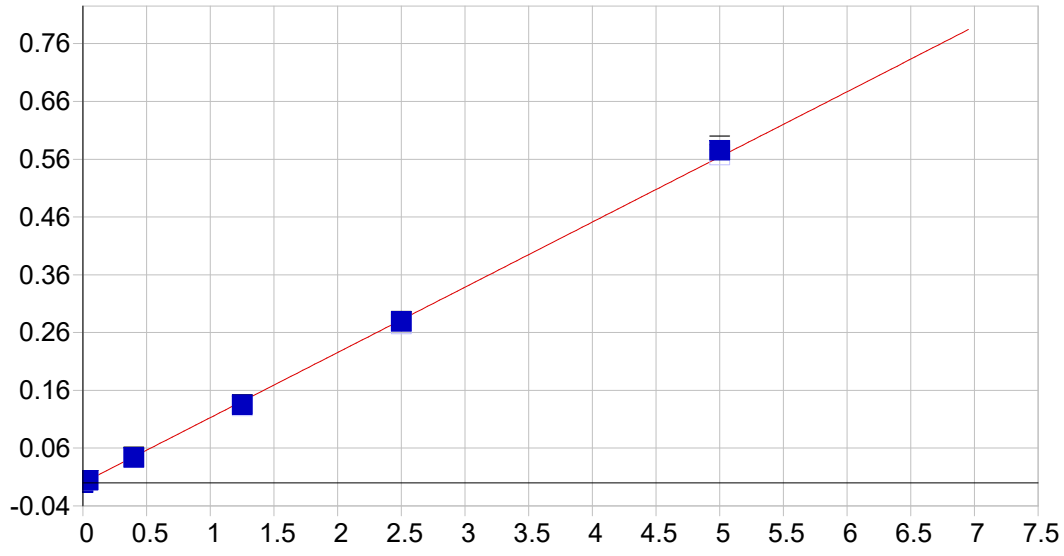
Na 589.592 { 57}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006262	Re-Slope:	1.000000
A1 (Gain):	0.011944	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999066	Status:	OK.
Std Error of Est:	0.000273		
Predicted MDL:	0.013356		
Predicted MQL:	0.044519		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00042	.000	.000	.00627	.000	1
S2	4.0000	3.5726	-.427	-10.7	.04893	.000	1
S3	12.500	11.452	-1.05	-8.39	.14304	.001	1
S4	25.000	25.452	.452	1.81	.31026	.004	1
S5	50.000	51.142	1.14	2.28	.61710	.009	1
S1	2.0000	1.8824	-.118	-5.88	.02875	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



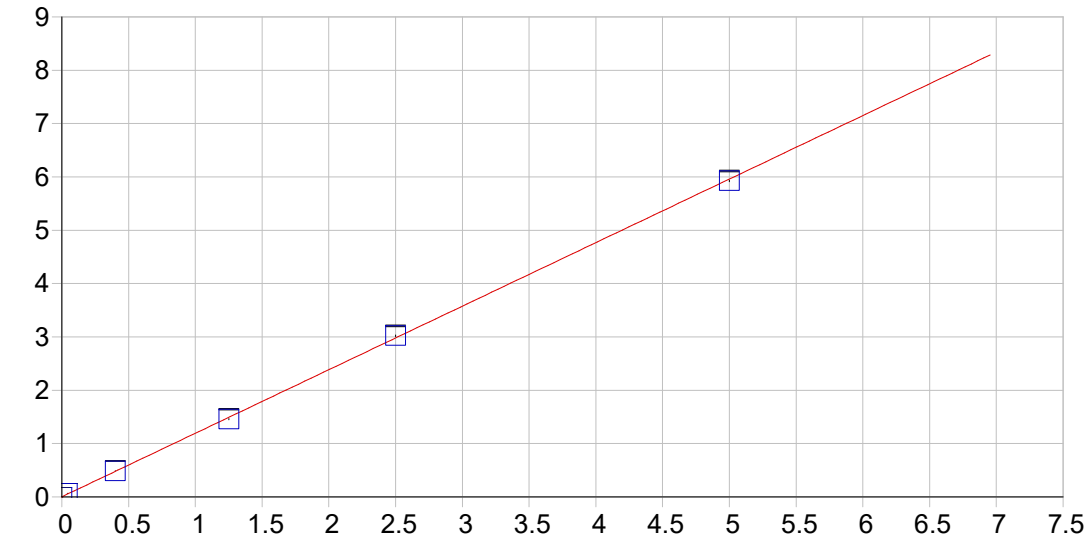
V 292.402 {115}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000023	Re-Slope:	1.000000
A1 (Gain):	0.112803	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999705	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.003238		
Predicted MQL:	0.010794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.04000	.03861	-.001	-3.47	.00416	.000	1
S3	1.2500	1.1945	-.055	-4.44	.13267	.000	1
S4	2.5000	2.4710	-.029	-1.16	.27461	.001	1
S5	5.0000	5.0993	.099	1.99	.56696	.008	1
S2	.40000	.38650	-.014	-3.38	.04292	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



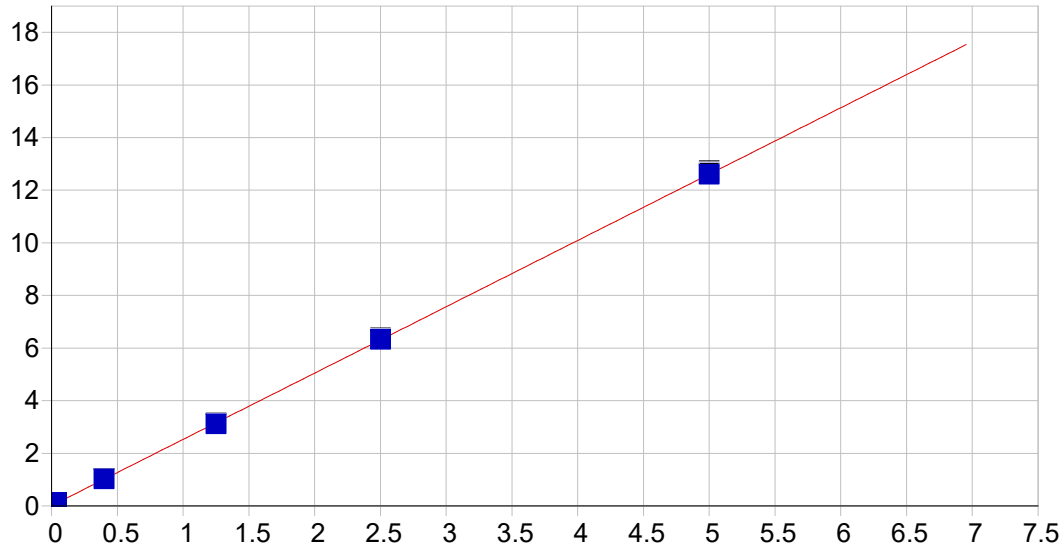
Zn 206.200 {464}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001933	Re-Slope:	1.000000
A1 (Gain):	1.191462	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999704	Status:	OK.
Std Error of Est:	0.000680		
Predicted MDL:	0.000141		
Predicted MQL:	0.000469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00192	.000	1
S1	.04000	.05265	.013	31.6	.06466	.000	1
S3	1.2500	1.2215	-.029	-2.28	1.4572	.013	1
S4	2.5000	2.5340	.034	1.36	3.0211	.014	1
S5	5.0000	4.9735	-.027	-.531	5.9276	.015	1
S2	.40000	.40844	.008	2.11	.48857	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



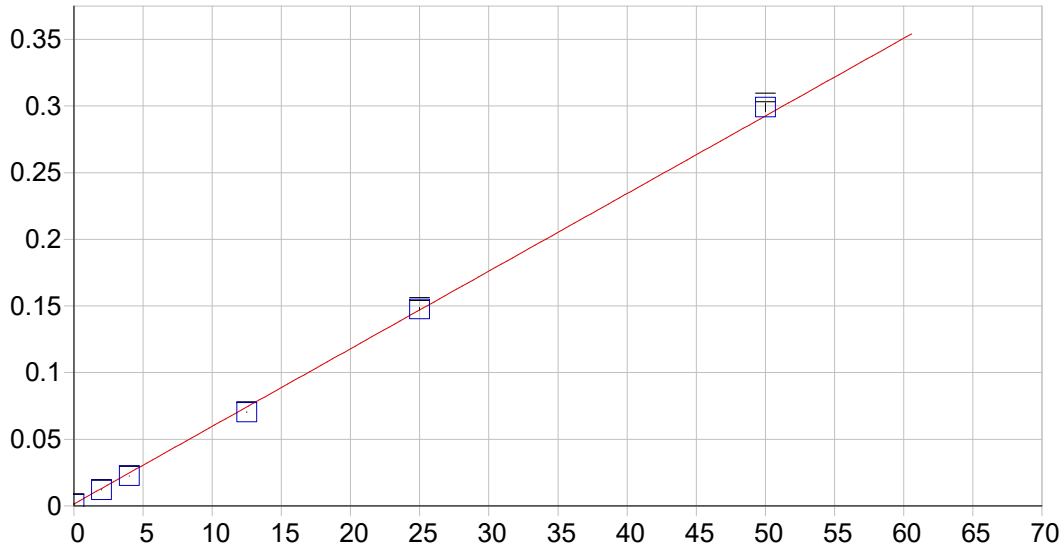
Zn 213.856 {158}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005884	Re-Slope:	1.000000
A1 (Gain):	2.521156	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999795	Status:	OK.
Std Error of Est:	0.001205		
Predicted MDL:	0.000219		
Predicted MQL:	0.000730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00585	.000	1
S1	.04000	.05187	.012	29.7	.13736	.001	1
S3	1.2500	1.2340	-.016	-1.28	3.1390	.008	1
S4	2.5000	2.5048	.005	.192	6.3647	.020	1
S5	5.0000	4.9941	-.006	-.119	12.684	.049	1
S2	.40000	.40524	.005	1.31	1.0346	.001	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



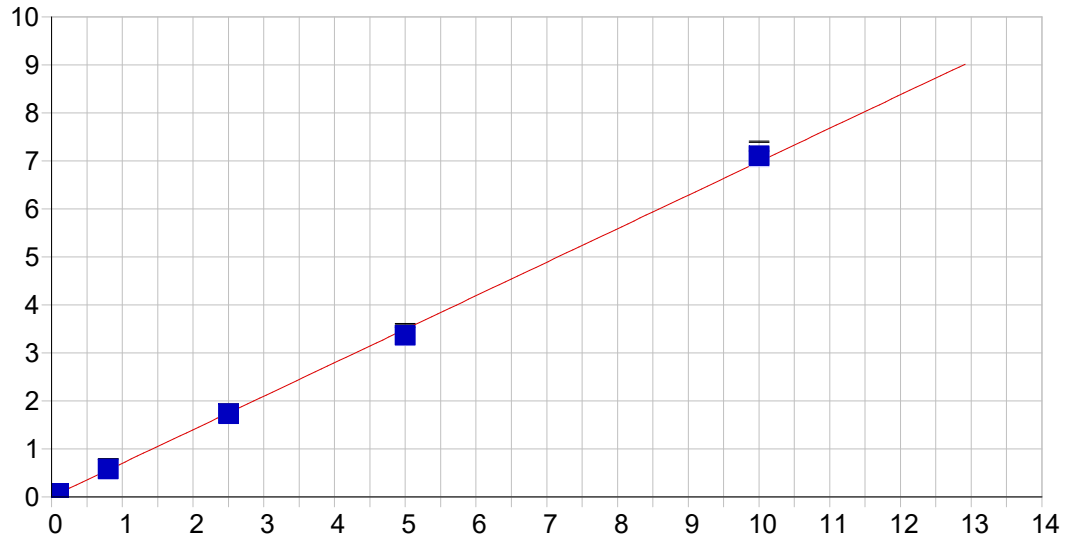
K 766.490 { 44}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001471	Re-Slope:	1.000000
A1 (Gain):	0.005822	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999387	Status:	OK.
Std Error of Est:	0.000108		
Predicted MDL:	0.032083		
Predicted MQL:	0.106943		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00042	.000	.000	.00147	.000	1
S2	4.0000	3.6214	-.379	-9.46	.02255	.000	1
S3	12.500	11.818	-.682	-5.45	.07027	.000	1
S4	25.000	25.117	.117	.468	.14769	.001	1
S5	50.000	51.122	1.12	2.24	.29909	.003	1
S1	2.0000	1.8215	-.178	-8.92	.01208	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



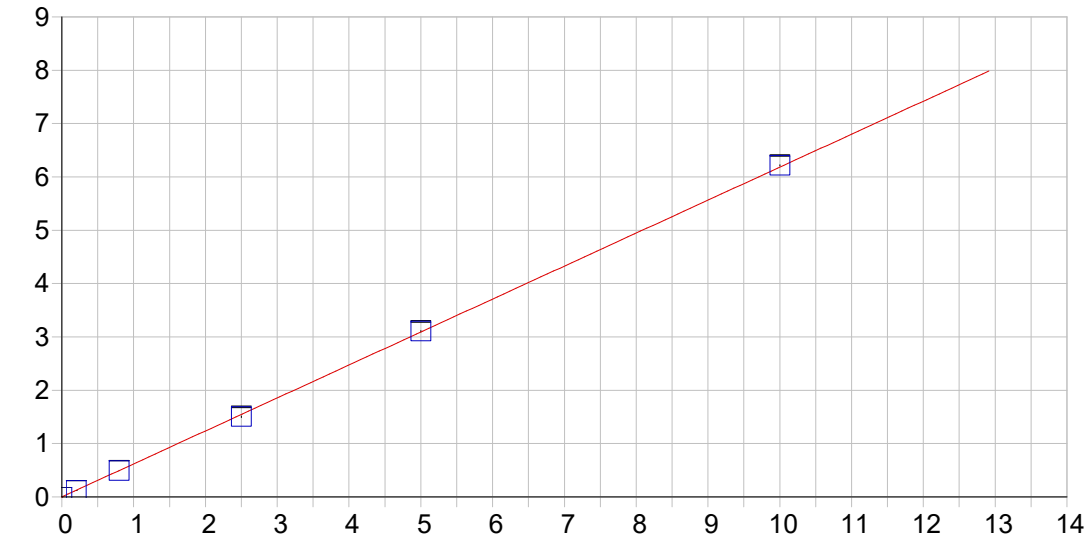
B 249.678 {135}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003775	Re-Slope:	1.000000
A1 (Gain):	0.697894	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999714	Status:	OK.
Std Error of Est:	0.000874		
Predicted MDL:	0.000864		
Predicted MQL:	0.002880		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00378	.000	1
S1	.10000	.09788	-.002	-2.12	.07167	.001	1
S3	2.5000	2.4780	-.022	-.882	1.7268	.008	1
S4	5.0000	4.8219	-.178	-3.56	3.3564	.036	1
S5	10.000	10.179	.179	1.79	7.0824	.098	1
S2	.80000	.82336	.023	2.92	.57638	.010	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



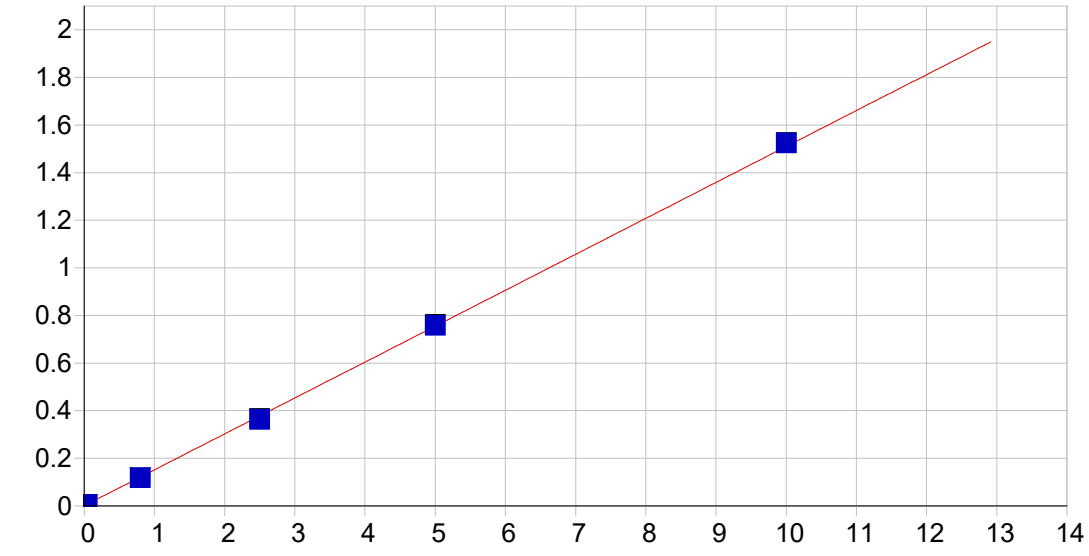
Mo 202.030 {467}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000434	Re-Slope:	1.000000
A1 (Gain):	0.618248	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000521		
Predicted MDL:	0.000275		
Predicted MQL:	0.000918		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00044	.000	1
S1	.20000	.19454	-.005	-2.73	.12071	.000	1
S3	2.5000	2.4321	-.068	-2.72	1.5041	.016	1
S4	5.0000	5.0224	.022	.449	3.1055	.015	1
S5	10.000	10.052	.052	.519	6.2150	.012	1
S2	.80000	.79902	-.001	-.123	.49442	.002	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



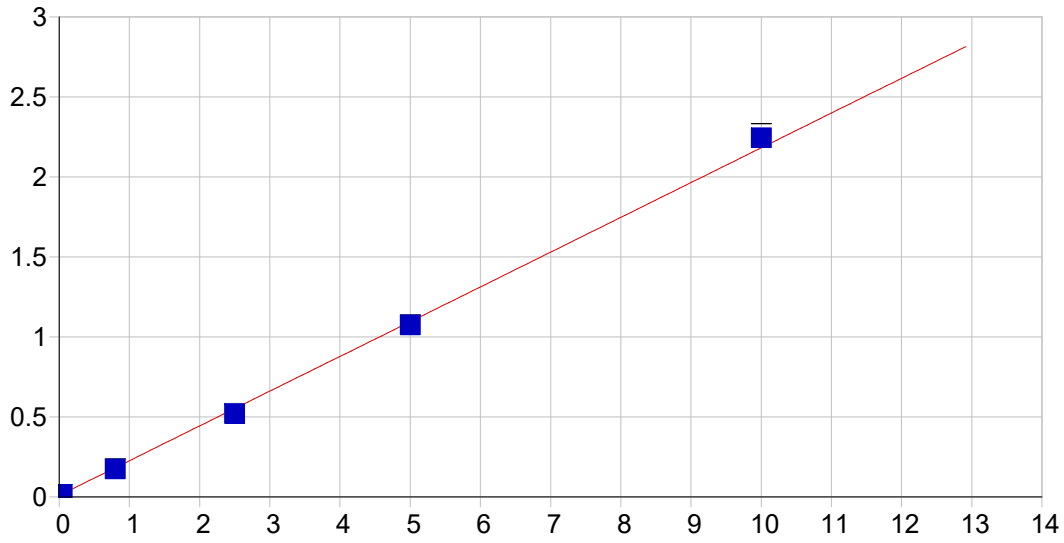
Sn 189.989 {478}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000496	Re-Slope:	1.000000
A1 (Gain):	0.150935	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.000643		
Predicted MQL:	0.002144		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.04000	.03908	-.001	-2.29	.00639	.000	1
S3	2.5000	2.3984	-.102	-4.06	.36212	.003	1
S4	5.0000	5.0224	.022	.448	.75778	.004	1
S5	10.000	10.096	.096	.957	1.5228	.002	1
S2	.80000	.78435	-.016	-1.96	.11876	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



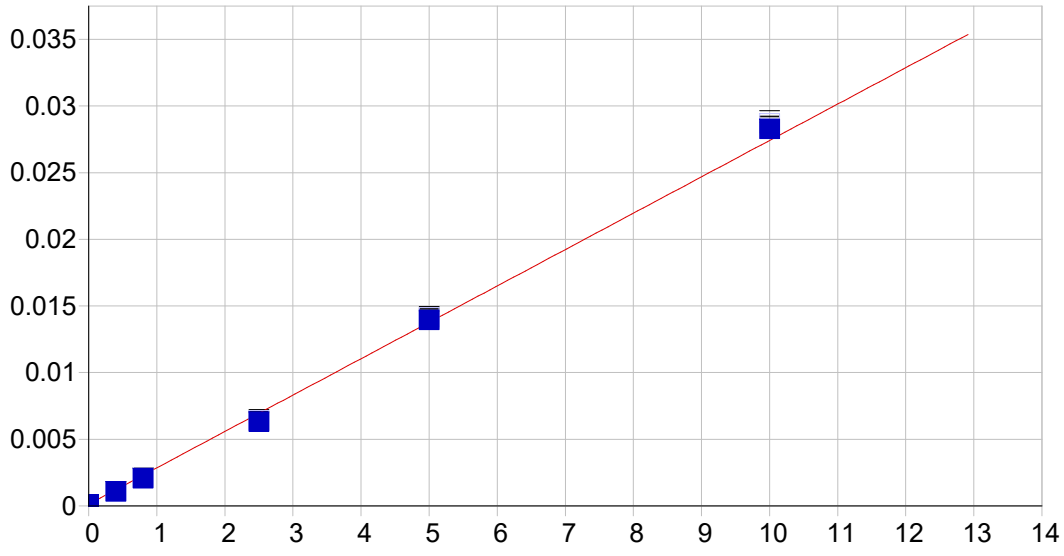
Ti 336.121 {100}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008911	Re-Slope:	1.000000
A1 (Gain):	0.217265	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999420	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.002090		
Predicted MQL:	0.006966		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00891	.000	1
S1	.04000	.03465	-.005	-13.4	.01643	.000	1
S3	2.5000	2.3524	-.148	-5.90	.51981	.001	1
S4	5.0000	4.9036	-.096	-1.93	1.0739	.002	1
S5	10.000	10.287	.287	2.87	2.2431	.027	1
S2	.80000	.76246	-.038	-4.69	.17450	.002	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



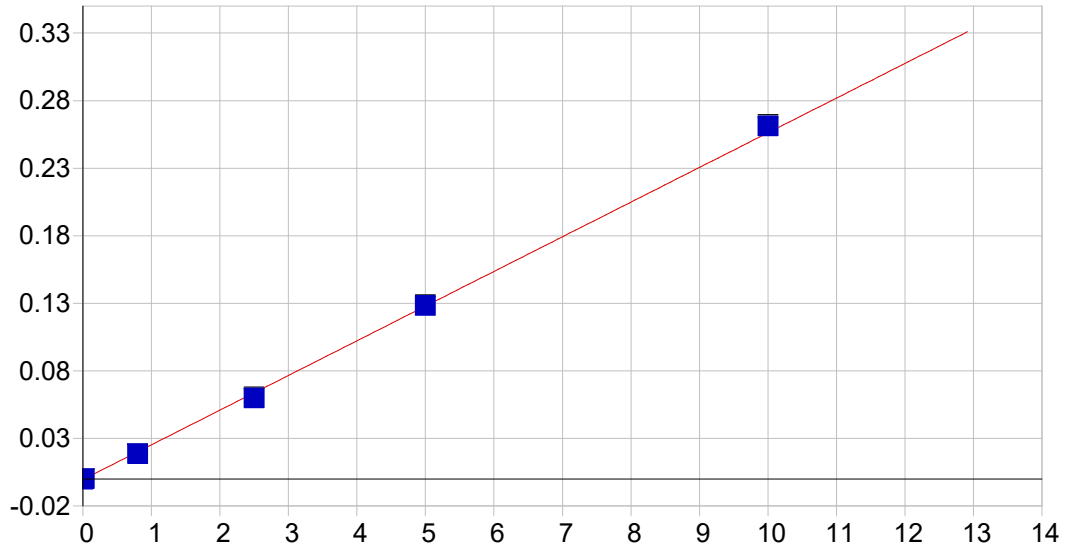
Si 288.158 {117}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.002729	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998725	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.012966		
Predicted MQL:	0.043222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00013	.000	1
S1	.40000	.34893	-.051	-12.8	.00108	.000	1
S3	2.5000	2.2638	-.236	-9.45	.00641	.000	1
S4	5.0000	5.0633	.063	1.27	.01415	.000	1
S5	10.000	10.312	.312	3.12	.02868	.000	1
S2	.80000	.71156	-.088	-11.1	.00210	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



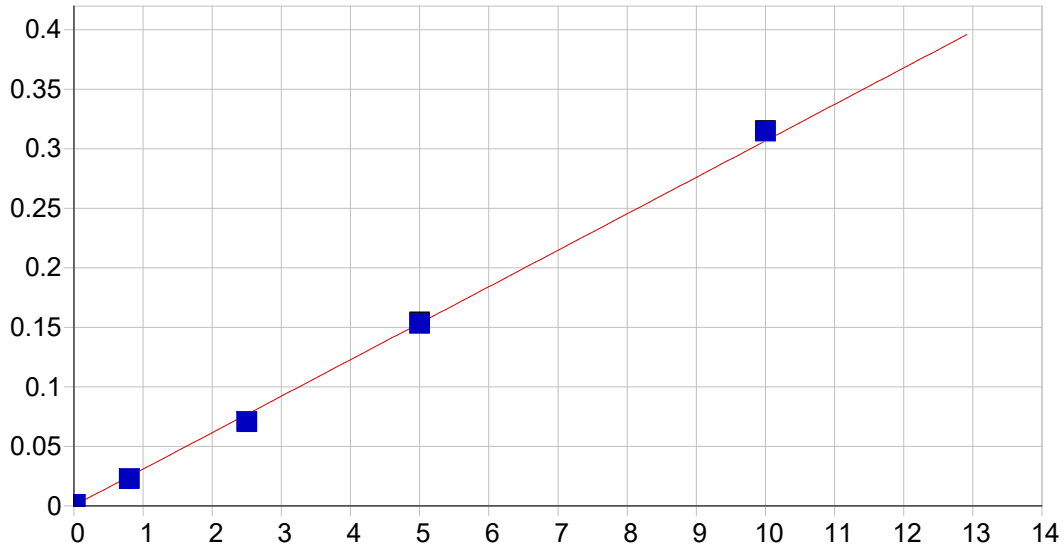
P 177.495 {490}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000449	Re-Slope:	1.000000
A1 (Gain):	0.025665	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999543	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.002727		
Predicted MQL:	0.009090		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.02000	.02221	.002	11.1	.00012	.000	1
S3	2.5000	2.3513	-.149	-5.95	.05989	.001	1
S4	5.0000	5.0118	.012	.237	.12816	.001	1
S5	10.000	10.191	.191	1.91	.26106	.001	1
S2	.80000	.74366	-.056	-7.04	.01863	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



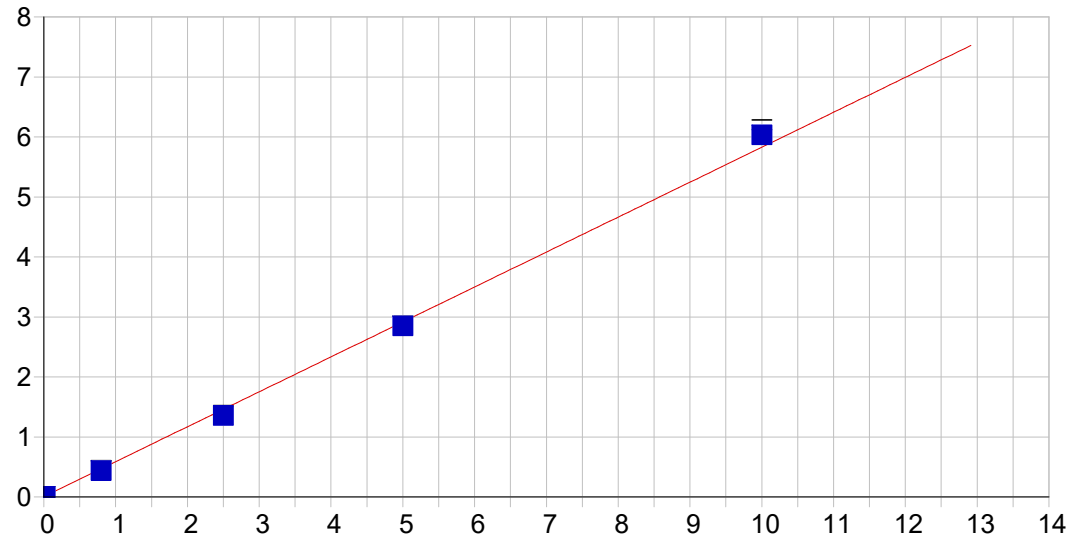
S 182.034 {485}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000285	Re-Slope:	1.000000
A1 (Gain):	0.030642	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999208	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.002850		
Predicted MQL:	0.009500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00029	.000	1
S1	.02000	.02232	.002	11.6	.00094	.000	1
S3	2.5000	2.2954	-.205	-8.18	.07042	.000	1
S4	5.0000	4.9954	-.005	-.093	.15296	.001	1
S5	10.000	10.268	.268	2.68	.31413	.000	1
S2	.80000	.73875	-.061	-7.66	.02286	.000	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



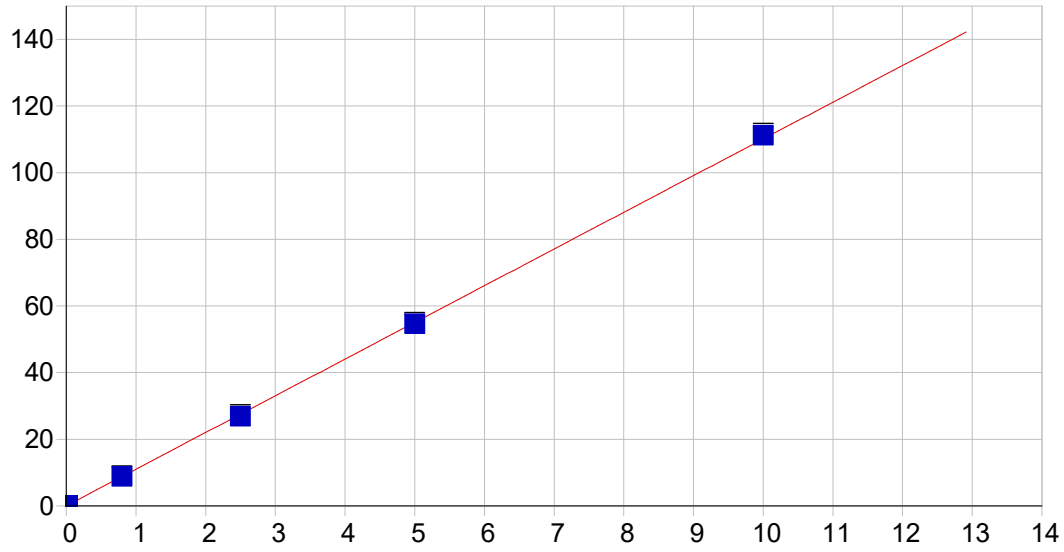
Li 670.784 { 50}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004427	Re-Slope:	1.000000
A1 (Gain):	0.582349	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999114	Status:	OK.
Std Error of Est:	0.000575		
Predicted MDL:	0.003364		
Predicted MQL:	0.011212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00443	.002	1
S5	10.000	10.355	.355	3.55	6.0373	.082	1
S4	5.0000	4.8854	-.115	-2.29	2.8509	.005	1
S3	2.5000	2.3182	-.182	-7.27	1.3551	.003	1
S1	.02000	.01849	-.002	-7.57	.01538	.001	1
S2	.80000	.74345	-.057	-7.07	.43761	.006	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648



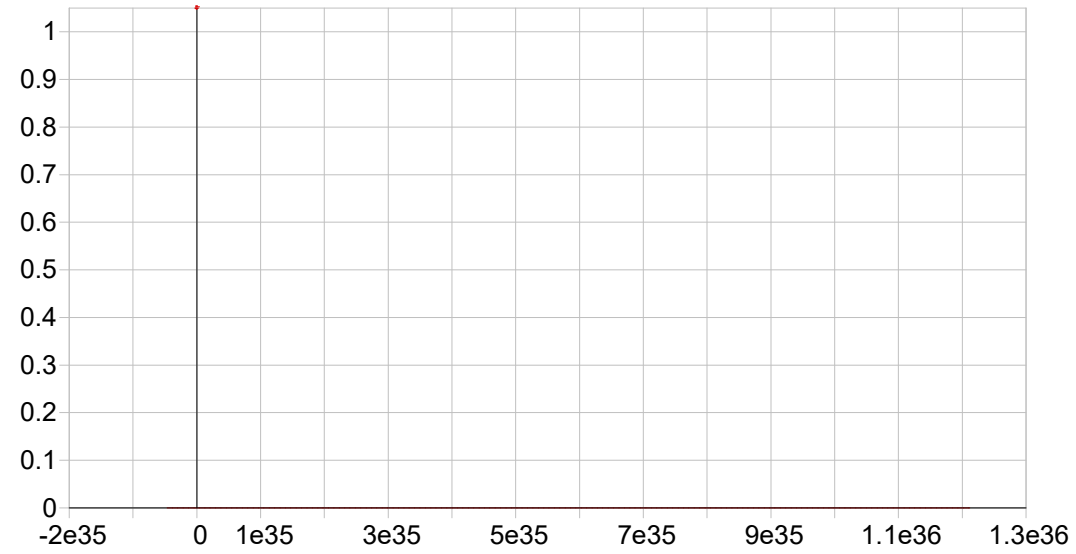
Sr 407.771 { 83}

Date of Fit:	7/29/2025 11:45:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001429	Re-Slope:	1.000000
A1 (Gain):	11.012730	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.003114		
Predicted MDL:	0.000090		
Predicted MQL:	0.000301		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00142	.000	1
S1	.02000	.02070	.001	3.52	.23049	.001	1
S3	2.5000	2.4414	-.059	-2.35	26.914	.466	1
S4	5.0000	4.9587	-.041	-.826	54.663	.458	1
S5	10.000	10.095	.095	.951	111.28	.572	1
S2	.80000	.80415	.004	.519	8.8658	.120	1

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

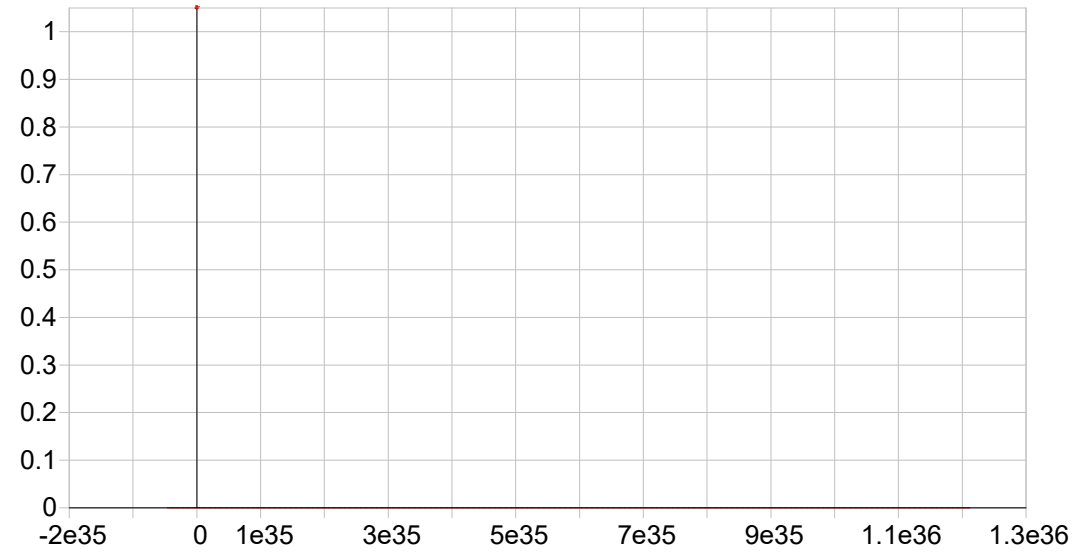


Y 224.306 {450}*

Date of Fit:	7/29/2025 11:17:28	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

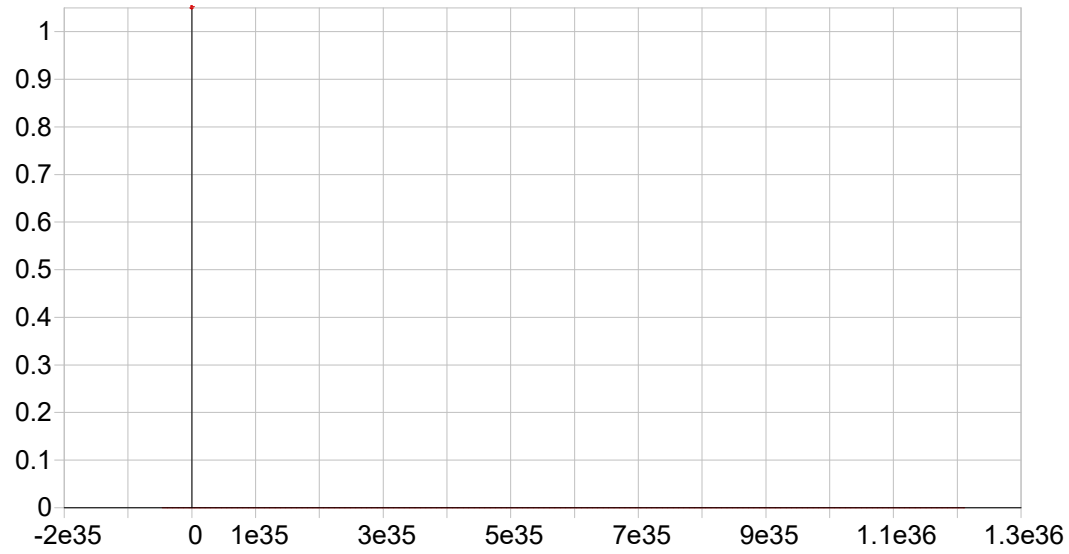
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

A2 (Curvature):	0.000000						
n (Exponent):	1.000000						
Correlation:	0.000000			Status:	Warning	Zero Gain	
Std Error of Est:	0.000000						
Predicted MDL:	n/a						
Predicted MQL:	n/a						

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

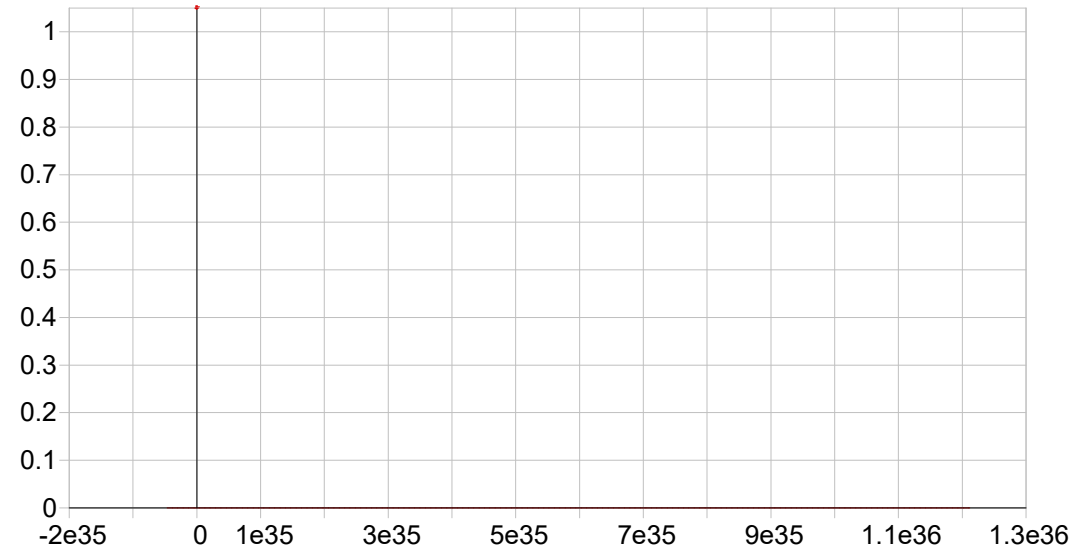


Y 371.030 { 91}*

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

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

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

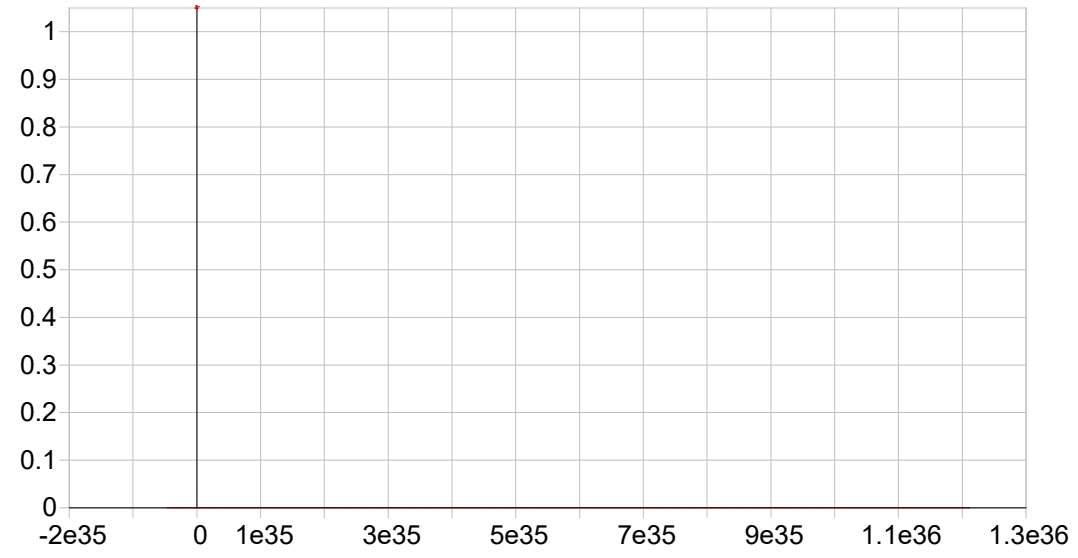


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

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

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

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S0 Acquired: 7/29/2025 11:20:13 Type: Cal
Method: 6010-200.7 NEW(v66) 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	**.00004**	**.00059**	**.00004**	**.00017**	**.00050**	**.00093**	**.06652**	**-.00138**
Stddev	.00010	.00009	.00002	.00009	.00011	.00093	.00096	.00046
%RSD	264.25	15.826	43.074	54.763	21.749	100.03	1.4446	33.607
#1	-.00005	.00051	.00004	.00008	.00062	.00168	.06541	-.00182
#2	.00014	.00057	.00006	.00027	.00041	.00120	.06714	-.00141
#3	.00002	.00069	.00003	.00016	.00047	-.00011	.06700	-.00090

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	**-.00082**	**.00169**	**.00016**	**.00004**	**.00045**	**.00005**	**.00080**	**-.00010**
Stddev	.00023	.00058	.00006	.00004	.00026	.00001	.00025	.00023
%RSD	28.547	34.465	34.502	102.50	57.719	21.287	30.626	235.63
#1	-.00055	.00236	.00010	.00005	.00071	.00006	.00071	-.00033
#2	-.00092	.00141	.00019	.00007	.00043	.00005	.00062	.00014
#3	-.00098	.00130	.00019	-.00001	.00020	.00004	.00109	-.00010

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	**-.00053**	**-.00082**	**.00627**	**-.00002**	**.00585**	**.00147**	**.00378**	**.00044**
Stddev	.00012	.00004	.00014	.00005	.00028	.00023	.00047	.00006
%RSD	22.881	4.6841	2.1940	231.34	4.7002	15.461	12.319	14.654
#1	-.00044	-.00086	.00624	-.00003	.00555	.00164	.00419	.00045
#2	-.00049	-.00079	.00641	-.00007	.00591	.00157	.00387	.00050
#3	-.00067	-.00081	.00614	.00003	.00610	.00121	.00327	.00037

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	**.00050**	**.00891**	**.00013**	**-.00045**	**.00029**	**.00443**	**.00142**
Stddev	.00004	.00032	.00003	.00006	.00005	.00215	.00020
%RSD	7.6188	3.6158	23.165	12.740	18.026	48.648	14.015
#1	.00051	.00871	.00010	-.00040	.00028	.00668	.00120
#2	.00045	.00874	.00016	-.00044	.00024	.00239	.00158
#3	.00052	.00928	.00012	-.00051	.00034	.00422	.00149

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S0 Acquired: 7/29/2025 11:20:13 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5583.9	93365.	8057.5	4845.0	6994.5
Stddev	33.2	64.	21.1	16.4	43.3
%RSD	.59413	.06835	.26167	.33772	.61848
#1	5608.3	93353.	8064.6	4860.9	7023.4
#2	5597.3	93434.	8074.2	4845.8	7015.3
#3	5546.1	93308.	8033.8	4828.2	6944.7

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S1 Acquired: 7/29/2025 11:24:35 Type: Cal
Method: 6010-200.7 NEW(v66) 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	**.00080**	**.00300**	**.00271**	**.00107**	**.00546**	**.00991**	**.34420**	**.04918**
Stddev	.00006	.00009	.00014	.00003	.00003	.00018	.00348	.00046
%RSD	7.8050	2.8975	5.0295	2.6837	.59426	1.8352	1.0121	.94389
#1	.00073	.00294	.00272	.00104	.00546	.00995	.34256	.04967
#2	.00080	.00296	.00256	.00107	.00543	.00972	.34820	.04912
#3	.00086	.00310	.00283	.00110	.00550	.01008	.34184	.04875

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	**.00775**	**.14811**	**.00206**	**.02089**	**.01756**	**.00048**	**.01316**	**.02448**
Stddev	.00012	.00093	.00005	.00024	.00012	.00001	.00004	.00040
%RSD	1.5165	.62598	2.6155	1.1280	.71075	2.1202	.28966	1.6140
#1	.00765	.14914	.00211	.02102	.01743	.00049	.01320	.02489
#2	.00788	.14786	.00207	.02062	.01768	.00047	.01313	.02410
#3	.00772	.14734	.00200	.02103	.01758	.00048	.01315	.02445

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	**.02516**	**.00155**	**.02875**	**.00416**	**.13736**	**.01208**	**.07167**	**.12071**
Stddev	.00012	.00007	.00009	.00019	.00139	.00007	.00058	.00036
%RSD	.45948	4.7878	.32431	4.5661	1.0123	.58464	.80461	.29737
#1	.02504	.00147	.02876	.00417	.13582	.01200	.07173	.12042
#2	.02527	.00161	.02865	.00435	.13851	.01215	.07222	.12059
#3	.02517	.00157	.02883	.00397	.13776	.01208	.07107	.12111

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	**.00639**	**.01643**	**.00108**	**.00012**	**.00094**	**.01538**	**.23049**
Stddev	.00012	.00020	.00001	.00006	.00005	.00086	.00126
%RSD	1.8105	1.2429	.87743	45.398	4.9385	5.5875	.54537
#1	.00627	.01620	.00109	.00012	.00100	.01480	.23033
#2	.00641	.01660	.00107	.00007	.00092	.01637	.23183
#3	.00649	.01650	.00108	.00018	.00091	.01496	.22933

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S1 Acquired: 7/29/2025 11:24:35 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5520.4	93159.	8766.3	4812.1	6778.5
Stddev	4.2	296.	35.7	14.3	14.6
%RSD	.07591	.31755	.40672	.29650	.21499
#1	5520.4	92992.	8726.0	4813.0	6794.3
#2	5524.7	93500.	8779.5	4826.0	6775.7
#3	5516.3	92983.	8793.5	4797.5	6765.5

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S2 Acquired: 7/29/2025 11:28:53 Type: Cal
Method: 6010-200.7 NEW(v66) 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	**.03452**	**.05251**	**.16798**	**.03745**	**.07886**	**.12972**	**4.4812**	**.34719**
Stddev	.00008	.00028	.00036	.00015	.00018	.00255	.0615	.00477
%RSD	.21851	.53065	.21235	.41204	.23330	1.9667	1.3720	1.3739
#1	.03454	.05282	.16805	.03728	.07885	.13178	4.4880	.34542
#2	.03457	.05228	.16760	.03749	.07868	.12686	4.4167	.34355
#3	.03443	.05244	.16830	.03757	.07905	.13051	4.5391	.35259

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	**.57031**	**.29507**	**.02827**	**.27509**	**.14687**	**.00319**	**.23485**	**.04612**
Stddev	.00138	.00392	.00022	.00062	.00043	.00002	.00398	.00047
%RSD	.24241	1.3302	.76276	.22479	.29412	.50180	1.6937	1.0253
#1	.57098	.29525	.02840	.27478	.14672	.00318	.23444	.04634
#2	.56872	.29106	.02838	.27469	.14653	.00318	.23109	.04558
#3	.57124	.29891	.02802	.27580	.14735	.00321	.23902	.04644

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	**.24840**	**.04315**	**.04893**	**.04292**	**1.0346**	**.02255**	**.57638**	**.49442**
Stddev	.00027	.00013	.00028	.00097	.0014	.00011	.00967	.00166
%RSD	.11044	.30265	.57170	2.2592	.13790	.49653	1.6770	.33491
#1	.24852	.04304	.04923	.04311	1.0359	.02268	.57253	.49361
#2	.24809	.04329	.04890	.04186	1.0330	.02248	.56924	.49334
#3	.24860	.04312	.04867	.04377	1.0348	.02249	.58738	.49633

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	**.11876**	**.17450**	**.00210**	**.01863**	**.02286**	**.43761**	**8.8658**
Stddev	.00026	.00240	.00002	.00002	.00004	.00650	.1196
%RSD	.21865	1.3752	1.1313	.11713	.18123	1.4849	1.3490
#1	.11878	.17512	.00212	.01866	.02291	.44068	8.8673
#2	.11849	.17186	.00207	.01863	.02283	.43014	8.7454
#3	.11901	.17653	.00211	.01862	.02284	.44200	8.9846

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S2 Acquired: 7/29/2025 11:28:53 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5529.9	91569.	8214.4	4777.6	6747.2
Stddev	7.6	348.	113.5	13.4	6.0
%RSD	.13749	.37970	1.3817	.28113	.08924
#1	5537.3	91485.	8254.6	4776.8	6753.5
#2	5530.3	91270.	8302.3	4791.4	6746.8
#3	5522.1	91950.	8086.3	4764.6	6741.4

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S3 Acquired: 7/29/2025 11:32:55 Type: Cal
Method: 6010-200.7 NEW(v66) 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	.10869	.16845	.52683	.11677	.24042	.39393	13.719	1.0489
Stddev	.00137	.00209	.00491	.00127	.00309	.00068	.014	.0045
%RSD	1.2638	1.2421	.93238	1.0868	1.2859	.17324	.10226	.42637
#1	.10718	.16970	.52120	.11539	.23699	.39326	13.709	1.0512
#2	.10903	.16603	.52907	.11705	.24127	.39462	13.735	1.0518
#3	.10987	.16961	.53023	.11788	.24300	.39392	13.712	1.0438

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	1.8018	.89882	.08520	.83984	.44154	.00987	.71802	.14113
Stddev	.0150	.00606	.00030	.00778	.00472	.00007	.00302	.00074
%RSD	.83221	.67384	.35381	.92612	1.0681	.68131	.42038	.52118
#1	1.7845	.89997	.08554	.83094	.43627	.00994	.71764	.14062
#2	1.8097	.90422	.08499	.84319	.44299	.00982	.72121	.14197
#3	1.8111	.89227	.08505	.84538	.44536	.00984	.71521	.14081

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	.75467	.13259	.14304	.13267	3.1390	.07027	1.7268	1.5041
Stddev	.00669	.00010	.00079	.00030	.0076	.00020	.0082	.0158
%RSD	.88606	.07280	.55329	.22857	.24193	.28700	.47309	1.0480
#1	.74703	.13248	.14366	.13232	3.1427	.07046	1.7243	1.4866
#2	.75756	.13265	.14215	.13281	3.1302	.07006	1.7360	1.5082
#3	.75943	.13265	.14330	.13288	3.1440	.07030	1.7203	1.5174

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	.36212	.51981	.00641	.05989	.07042	1.3551	26.914
Stddev	.00319	.00141	.00007	.00056	.00048	.0033	.466
%RSD	.88189	.27167	1.0439	.93635	.68102	.24265	1.7332
#1	.35848	.51979	.00648	.05924	.06987	1.3517	27.027
#2	.36339	.51840	.00635	.06015	.07064	1.3555	27.313
#3	.36447	.52123	.00639	.06027	.07075	1.3582	26.401

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S3 Acquired: 7/29/2025 11:32:55 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5464.5	88836.	8164.6	4617.4	6579.5
Stddev	52.8	284.	47.6	12.0	53.7
%RSD	.96680	.31963	.58286	.25997	.81672
#1	5523.1	88514.	8160.2	4623.2	6640.1
#2	5449.9	89051.	8119.3	4625.4	6560.4
#3	5420.6	88941.	8214.2	4603.6	6537.8

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S4 Acquired: 7/29/2025 11:37:00 Type: Cal
Method: 6010-200.7 NEW(v66) 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	**.22085**	**.32488**	**1.0568**	**.23429**	**.49930**	**.80801**	**27.893**	**2.0112**
Stddev	.00107	.01022	.0039	.00152	.00232	.00290	.193	.0199
%RSD	.48253	3.1469	.36923	.64964	.46415	.35875	.69051	.99164
#1	.22102	.32129	1.0572	.23428	.49824	.81066	27.784	1.9890
#2	.21971	.31693	1.0527	.23277	.49771	.80491	28.115	2.0168
#3	.22182	.33641	1.0604	.23582	.50196	.80845	27.780	2.0277

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	**3.6706**	**1.7956**	**.17518**	**1.7657**	**.91034**	**.02133**	**1.4486**	**.28911**
Stddev	.0193	.0039	.00105	.0062	.00357	.00018	.0035	.00142
%RSD	.52509	.21766	.59959	.35078	.39196	.85668	.24004	.49254
#1	3.6781	1.7940	.17533	1.7655	.91012	.02152	1.4448	.28748
#2	3.6487	1.7928	.17614	1.7596	.90688	.02130	1.4493	.29009
#3	3.6850	1.8001	.17406	1.7720	.91401	.02116	1.4516	.28976

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	**1.5923**	**.27259**	**.31026**	**.27461**	**6.3647**	**.14769**	**3.3564**	**3.1055**
Stddev	.0058	.00018	.00371	.00055	.0197	.00112	.0363	.0151
%RSD	.36708	.06504	1.1958	.20161	.30902	.75783	1.0811	.48479
#1	1.5927	.27272	.31454	.27411	6.3782	.14898	3.3147	3.1044
#2	1.5862	.27266	.30822	.27450	6.3422	.14711	3.3738	3.0911
#3	1.5979	.27239	.30801	.27520	6.3739	.14699	3.3807	3.1211

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	**.75778**	**1.0739**	**.01415**	**.12816**	**.15296**	**2.8509**	**54.663**
Stddev	.00382	.0024	.00007	.00061	.00125	.0049	.458
%RSD	.50370	.22610	.49174	.47974	.81620	.17069	.83808
#1	.75878	1.0761	.01423	.12854	.15281	2.8522	54.845
#2	.75357	1.0713	.01410	.12745	.15179	2.8455	55.002
#3	.76101	1.0742	.01413	.12849	.15427	2.8550	54.142

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S4 Acquired: 7/29/2025 11:37:00 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5188.1	87233.	8464.3	4514.8	6106.0
Stddev	13.2	312.	60.9	22.8	17.3
%RSD	.25426	.35783	.72004	.50418	.28399
#1	5183.8	86926.	8534.6	4495.5	6102.2
#2	5202.9	87224.	8427.1	4539.9	6124.9
#3	5177.5	87550.	8431.2	4509.0	6090.8

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S5 Acquired: 7/29/2025 11:41:11 Type: Cal
Method: 6010-200.7 NEW(v66) 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	.44037	.65791	2.1544	.46710	1.0040	1.6664	57.161	4.2186
Stddev	.00084	.00727	.0056	.00110	.0029	.0261	.690	.0525
%RSD	.19152	1.1053	.26071	.23548	.28495	1.5687	1.2069	1.2446
#1	.44006	.65078	2.1609	.46597	1.0017	1.6468	56.591	4.1587
#2	.43972	.66532	2.1510	.46718	1.0032	1.6961	57.928	4.2570
#3	.44132	.65762	2.1514	.46816	1.0072	1.6564	56.964	4.2399

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	7.3542	3.6999	.34408	3.5798	1.7934	.04192	2.9759	.59687
Stddev	.0171	.0600	.00156	.0036	.0024	.00044	.0439	.00829
%RSD	.23213	1.6207	.45431	.09961	.13193	1.0425	1.4749	1.3893
#1	7.3620	3.6470	.34539	3.5825	1.7957	.04222	2.9401	.59069
#2	7.3346	3.7651	.34450	3.5758	1.7910	.04212	3.0249	.60630
#3	7.3659	3.6877	.34235	3.5811	1.7934	.04142	2.9627	.59364

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	3.1966	.55299	.61710	.56696	12.684	.29909	7.0824	6.2150
Stddev	.0046	.00130	.00858	.00772	.049	.00320	.0982	.0118
%RSD	.14425	.23597	1.3908	1.3617	.38462	1.0714	1.3858	.19012
#1	3.2013	.55445	.62223	.56156	12.727	.30056	6.9702	6.2060
#2	3.1921	.55256	.62188	.57581	12.695	.30129	7.1526	6.2107
#3	3.1962	.55195	.60719	.56353	12.631	.29541	7.1243	6.2284

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	1.5228	2.2431	.02868	.26106	.31413	6.0373	111.28
Stddev	.0016	.0274	.00022	.00104	.00039	.0823	.57
%RSD	.10508	1.2236	.77975	.40002	.12313	1.3624	.51428
#1	1.5246	2.2233	.02881	.26176	.31442	5.9841	111.17
#2	1.5216	2.2744	.02881	.26156	.31369	6.1320	111.90
#3	1.5221	2.2316	.02842	.25986	.31428	5.9957	110.78

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: S5 Acquired: 7/29/2025 11:41:11 Type: Cal
Method: 6010-200.7 NEW(v66) 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	5141.3	85259.	7946.6	4332.5	5949.4
Stddev	16.9	843.	90.6	32.7	21.6
%RSD	.32834	.98839	1.1403	.75584	.36380
#1	5123.6	84551.	8021.8	4300.9	5926.7
#2	5143.2	85036.	7846.0	4330.4	5951.8
#3	5157.2	86191.	7972.0	4366.3	5969.8

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICV01 Acquired: 7/29/2025 12:20:54 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**3.838994**	**3.949864**	**4.000071**	**3.884675**	**4.192133**	**8.091095**
Stddev	.015254	.161016	.009952	.010429	.013170	.106269
%RSD	.3973342	4.076483	.2487986	.2684712	.3141697	1.313403
#1	3.853336	4.070651	4.008577	3.888181	4.196772	8.210973
#2	3.840679	4.011881	4.002509	3.892899	4.202356	8.053848
#3	3.822969	3.767062	3.989126	3.872944	4.177270	8.008464

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.182751**	**.2162207**	**2.054203**	**20.85531**	**.7915330**	**1.997968**
Stddev	.039876	.0024728	.006588	.19649	.0026154	.003632
%RSD	.4873175	1.143665	.3207257	.9421707	.3304258	.1817975
#1	8.224736	.2189247	2.061313	21.08209	.7923192	2.001081
#2	8.145386	.2156630	2.052992	20.74821	.7936652	1.998845
#3	8.178130	.2140743	2.048304	20.73564	.7886147	1.993977

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.022864**	**3.947184**	**2.056201**	**20.23398**	**1.989128**	**1.090318**
Stddev	.001471	.011936	.023706	.26169	.003172	.000820
%RSD	.1438570	.3023836	1.152889	1.293302	.1594504	.0752218
#1	1.024113	3.957472	2.083145	20.53495	1.991861	1.090045
#2	1.023238	3.949983	2.046911	20.10675	1.989873	1.091239
#3	1.021242	3.934098	2.038547	20.06023	1.985650	1.089668

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.04093**	**2.038383**	**2.060317**	**19.60295**	F **.0005702**	F **-.000145**
Stddev	.08902	.029402	.001595	.07276	.0009026	.000282
%RSD	.4230625	1.442402	.0773909	.3711916	158.2797	194.5972
#1	21.14129	2.072298	2.058488	19.68689	.0004004	-.000462
#2	20.97153	2.020084	2.061051	19.55773	-.000235	-.000052
#3	21.00997	2.022767	2.061412	19.56423	.001546	.000079

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICV01 Acquired: 7/29/2025 12:20:54 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0000476	F .0004183	F -.057756	F .0004810	F .0113131	F -.000893
Stddev	.0003308	.0010930	.014040	.0012895	.0012137	.003172
%RSD	695.0266	261.3162	24.30960	268.0825	10.72842	355.3115
#1	.0000690	-.000579	-.064870	.0019389	.0127112	-.003751
#2	.0003671	.000247	-.041583	.0000142	.0106976	.002520
#3	-.000293	.001587	-.066816	-.000510	.0105305	-.001447

Elem	Sr4077
Units	ppm
Avg	F -.003617
Stddev	.000094
%RSD	2.589629
#1	-.003695
#2	-.003642
#3	-.003513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5299.447	87773.39	7971.404	4419.497	6390.518
Stddev	14.560	148.31	82.825	12.125	19.729
%RSD	.2747467	.1689700	1.039025	.2743549	.3087181
#1	5295.331	87612.74	7875.836	4418.100	6374.835
#2	5287.388	87905.08	8016.044	4432.260	6384.051
#3	5315.622	87802.36	8022.334	4408.131	6412.669

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: LLICV01 Acquired: 7/29/2025 13:01:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.0185439**	**.0378263**	**.0121070**	**.0213282**	**.0524252**	**.1096726**
Stddev	.0004546	.0018303	.0009258	.0009569	.0002647	.0042058
%RSD	2.451500	4.838622	7.647056	4.486543	.5049388	3.834899
#1	.0185777	.0386042	.0114940	.0209659	.0523455	.1048440
#2	.0189807	.0391390	.0116550	.0224134	.0527206	.1116367
#3	.0180733	.0357355	.0131720	.0206054	.0522095	.1125370

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1049864**	**.0063975**	**.0051647**	**2.121906**	**.0099816**	**.0295458**
Stddev	.0010271	.0000761	.0000727	.021477	.0001439	.0001869
%RSD	.9783646	1.188911	1.406875	1.012134	1.441858	.6324264
#1	.1042880	.0063268	.0051508	2.104726	.0099265	.0293353
#2	.1061658	.0064779	.0052433	2.145984	.0098733	.0296922
#3	.1045054	.0063877	.0051000	2.115009	.0101449	.0296098

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0219381**	**.1070915**	**.0202557**	**2.100126**	**.0402692**	**.0105470**
Stddev	.0002989	.0025244	.0005553	.016419	.0003493	.0003062
%RSD	1.362249	2.357273	2.741536	.7817938	.8674345	2.903146
#1	.0216349	.1097994	.0200810	2.109597	.0406349	.0102847
#2	.0219471	.1066719	.0198088	2.109613	.0399390	.0104727
#3	.0222324	.1048031	.0208774	2.081167	.0402337	.0108835

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.696411**	**.0388239**	**.0418397**	**1.678148**	**.1021342**	**.1960907**
Stddev	.009760	.0012322	.0001806	.022548	.0010879	.0001791
%RSD	.5753042	3.173931	.4315330	1.343623	1.065192	.0913307
#1	1.696258	.0374014	.0419626	1.703703	.1016515	.1961192
#2	1.686729	.0395632	.0419241	1.669688	.1033800	.1958990
#3	1.706247	.0395071	.0416324	1.661054	.1013711	.1962538

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: LLICV01 Acquired: 7/29/2025 13:01:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0384649	.0425304	.3303040	.0176334	.0216744	F .0124684
Stddev	.0004052	.0022507	.0123601	.0010925	.0028276	.0010489
%RSD	1.053294	5.292051	3.742031	6.195368	13.04579	8.412220
#1	.0386209	.0432084	.3441026	.0174418	.0244144	.0130487
#2	.0387689	.0443642	.3265620	.0188089	.0218422	.0130990
#3	.0380049	.0400186	.3202472	.0166493	.0187667	.0112576

Elem	Sr4077
Units	ppm
Avg	.0215035
Stddev	.0002826
%RSD	1.314192
#1	.0213298
#2	.0218296
#3	.0213512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5285.987	89974.42	8156.919	4499.673	6572.310
Stddev	5.926	255.86	108.810	18.775	6.933
%RSD	.1121100	.2843694	1.333965	.4172553	.1054874
#1	5288.179	89880.20	8224.038	4521.038	6573.722
#2	5290.504	90264.03	8031.376	4485.806	6578.429
#3	5279.277	89779.03	8215.343	4492.174	6564.780

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICB01 Acquired: 7/29/2025 13:05:23 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001201**	**-.001159**	**.0001488**	**-.001194**	**.0015030**	**-.005917**	**.0024582**
Stddev	.001529	.000629	.0011116	.000590	.0027281	.008277	.0007452
%RSD	127.2359	54.28120	746.8722	49.46547	181.5165	139.8970	30.31377
#1	-.002781	-.000765	.0014103	-.000547	-.001521	-.011182	.0032737
#2	-.001094	-.001885	-.000688	-.001330	.002250	.003624	.0018127
#3	.000271	-.000827	-.000276	-.001704	.003780	-.010192	.0022883

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000893**	**.0000010**	**.0037782**	**-.000034**	**-.000165**	**-.000102**	**-.002066**
Stddev	.0000896	.0001313	.0052832	.000394	.000083	.000435	.001139
%RSD	100.4057	12855.10	139.8352	1149.694	50.01328	426.7492	55.12480
#1	.0001371	.0001221	-.002137	.000031	-.000166	-.000590	-.003160
#2	.0001448	.0000195	.005442	-.000457	-.000082	.000035	-.000887
#3	-.000014	-.000139	.008029	.000323	-.000248	.000248	-.002150

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002171**	**-.001002**	**.0000703**	**.0001015**	**-.235137**	**-.004935**	**-.000151**
Stddev	.0002085	.009925	.0001929	.0005326	.005608	.001453	.000102
%RSD	96.03323	990.2316	274.1968	524.7721	2.385026	29.43946	67.54174
#1	.0001578	.006846	.0002524	-.000476	-.241397	-.006470	-.000033
#2	.0000448	.002306	.0000905	.000573	-.230573	-.004755	-.000209
#3	.0004489	-.012159	-.000132	.000208	-.233441	-.003581	-.000211

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.270687**	**-.000721**	**-.000191**	**.0000670**	**.0069134**	**-.003586**	**-.001761**
Stddev	.019943	.000781	.000127	.0005677	.0009416	.009264	.001971
%RSD	7.367471	108.3069	66.61105	847.5112	13.61960	258.3430	111.9674
#1	-.247825	-.001595	-.000047	-.000481	.0058773	-.000710	-.003095
#2	-.279732	-.000092	-.000289	.000030	.0071459	-.013946	-.002691
#3	-.284505	-.000477	-.000237	.000652	.0077169	.003899	.000504

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICB01 Acquired: 7/29/2025 13:05:23 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0003569	-.007519	-.000103
Stddev	.0019391	.001403	.000037
%RSD	543.2233	18.66297	36.15881
#1	.0024755	-.006343	-.000131
#2	-.001330	-.007141	-.000061
#3	-.000075	-.009072	-.000117

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5391.906	84546.57	7946.614	4348.512	6876.961
Stddev	21.663	185.60	14.827	10.371	23.894
%RSD	.4017729	.2195290	.1865817	.2384954	.3474524
#1	5410.898	84710.98	7963.735	4350.601	6900.516
#2	5396.509	84583.43	7937.984	4357.679	6877.625
#3	5368.311	84345.30	7938.124	4337.255	6852.742

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CRI01 Acquired: 7/29/2025 13:09:47 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0188949**	**.0390312**	**.0115279**	**.0210047**	**.0491105**	**.1049337**	**.1049164**
Stddev	.0013762	.0011430	.0005684	.0008266	.0008934	.0100357	.0011615
%RSD	7.283566	2.928351	4.930385	3.935254	1.819060	9.563832	1.107096
#1	.0181168	.0390233	.0109055	.0200555	.0500130	.1023910	.1035963
#2	.0180839	.0401780	.0120194	.0213928	.0490920	.0964140	.1053706
#3	.0204839	.0378921	.0116589	.0215659	.0482266	.1159962	.1057821

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069441**	**.0051432**	**2.147565**	**.0100311**	**.0287791**	**.0211340**	**.1060289**
Stddev	.0001433	.0000703	.013960	.0000942	.0004201	.0008363	.0055297
%RSD	2.062962	1.366157	.6500376	.9390848	1.459621	3.957032	5.215297
#1	.0067921	.0050989	2.131448	.0099418	.0282972	.0201687	.0999785
#2	.0069637	.0051066	2.155371	.0101295	.0290682	.0215951	.1072871
#3	.0070766	.0052242	2.155876	.0100220	.0289718	.0216382	.1108211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0203941**	**2.075601**	**.0390482**	**.0109474**	**1.566630**	**.0385760**	**.0423876**
Stddev	.0003350	.010563	.0009643	.0006462	.011443	.0041798	.0001087
%RSD	1.642881	.5089102	2.469544	5.902573	.7303966	10.83532	.2564435
#1	.0200105	2.065089	.0379358	.0116388	1.559714	.0415819	.0423632
#2	.0205419	2.075501	.0396476	.0108446	1.579838	.0338028	.0425064
#3	.0206298	2.086214	.0395611	.0103588	1.560338	.0403433	.0422932

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.700385**	**.1084855**	**.1965915**	**.0376479**	**.0445641**	**.3122359**	**.0160343**
Stddev	.024590	.0005052	.0031181	.0007416	.0015457	.0102751	.0010595
%RSD	1.446144	.4656825	1.586080	1.969704	3.468513	3.290824	6.607925
#1	1.672071	.1080938	.1929980	.0367991	.0447624	.3135888	.0157400
#2	1.712694	.1083071	.1985820	.0379746	.0429288	.3217675	.0172099
#3	1.716389	.1090558	.1981946	.0381701	.0460011	.3013513	.0151531

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CRI01 Acquired: 7/29/2025 13:09:47 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0188880	.0143478	.0219989
Stddev	.0029820	.0022001	.0002408
%RSD	15.78782	15.33423	1.094507
#1	.0209645	.0168707	.0217219
#2	.0202285	.0128279	.0221170
#3	.0154710	.0133449	.0221578

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5455.149	86165.88	7489.963	4415.392	6959.615
Stddev	82.972	180.41	82.628	2.169	109.057
%RSD	1.520990	.2093751	1.103188	.0491201	1.567002
#1	5550.085	86238.41	7585.284	4413.351	7084.676
#2	5396.511	85960.50	7438.712	4417.670	6884.305
#3	5418.851	86298.74	7445.894	4415.156	6909.864

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSA01 Acquired: 7/29/2025 13:14:47 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.0074615**	**.0123153**	**-.004038**	**-.002674**	**-.002430**	**255.8305**
Stddev	.0030265	.0016369	.000917	.002744	.001322	1.9246
%RSD	40.56152	13.29128	22.71080	102.5819	54.40361	.7522920
#1	.0051316	.0132585	-.002998	.000365	-.003936	253.6518
#2	.0063707	.0132621	-.004730	-.003421	-.001894	257.2995
#3	.0108822	.0104252	-.004386	-.004968	-.001460	256.5401

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060167**	**.0012735**	**.0043541**	**247.4481**	**.0542475**	**.0013565**
Stddev	.0006557	.0000331	.0000899	.3207	.0000997	.0002276
%RSD	10.89879	2.598877	2.065160	.1295996	.1837348	16.77400
#1	.0057745	.0013095	.0042847	247.5667	.0541743	.0013490
#2	.0055164	.0012444	.0043219	247.0849	.0542071	.0015878
#3	.0067590	.0012666	.0044557	247.6925	.0543610	.0011329

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0216502**	**102.6116**	**.0074939**	**255.1288**	**.0037506**	**.0028116**
Stddev	.0004000	.6045	.0000341	1.4163	.0003235	.0001519
%RSD	1.847534	.5891013	.4553340	.5551454	8.626394	5.401675
#1	.0214603	103.2634	.0075332	254.1781	.0034410	.0028971
#2	.0213805	102.0694	.0074766	254.4517	.0040865	.0026363
#3	.0221097	102.5021	.0074719	256.7566	.0037243	.0029015

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.089907**	**-.000494**	**.0019821**	**-.133296**	**.0213613**	**.0003556**
Stddev	.002208	.000881	.0001990	.040709	.0052446	.0005627
%RSD	2.455509	178.5848	10.04172	30.54038	24.55200	158.2211
#1	-.088293	.000489	.0018526	-.087532	.0274126	.0001902
#2	-.089005	-.001214	.0018824	-.146880	.0181291	-.000106
#3	-.092423	-.000755	.0022113	-.165476	.0185423	.000983

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSA01 Acquired: 7/29/2025 13:14:47 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.003281**	**.0010720**	**.0116651**	**.0041697**	**-.008229**	F **.0529925**
Stddev	.000240	.0010298	.0081798	.0019155	.003353	.0002336
%RSD	7.325818	96.06307	70.12261	45.93898	40.74562	.4407181
#1	-.003068	.0022535	.0051544	.0024517	-.004495	.0527299
#2	-.003233	.0005971	.0208465	.0038222	-.009210	.0531772
#3	-.003541	.0003653	.0089943	.0062351	-.010983	.0530702

Elem	Sr4077
Units	ppm
Avg	**.0045814**
Stddev	.0004579
%RSD	9.995692
#1	.0040758
#2	.0047003
#3	.0049682

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4783.217**	**78978.92**	**7959.646**	**3942.768**	**5531.249**
Stddev	9.052	124.24	58.877	2.999	6.937
%RSD	.1892495	.1573082	.7396956	.0760541	.1254139
#1	4781.119	78897.46	8023.751	3939.600	5523.594
#2	4793.134	79121.92	7947.200	3943.142	5537.118
#3	4775.398	78917.38	7907.987	3945.562	5533.037

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSAB01 Acquired: 7/29/2025 13:20:15 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.1041313**	**.1089710**	**.0432068**	**.0444905**	**.6161438**	**256.0557**
Stddev	.0031115	.0029299	.0023614	.0039902	.0082448	2.3849
%RSD	2.988046	2.688675	5.465341	8.968740	1.338124	.9314022
#1	.1005417	.1073629	.0459251	.0462576	.6123664	253.3342
#2	.1060575	.1071974	.0416623	.0472920	.6104645	257.0519
#3	.1057947	.1123528	.0420331	.0399218	.6256005	257.7810

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5125734**	**.5061476**	**.8544225**	**250.1053**	**.5245217**	**.4943719**
Stddev	.0017980	.0016577	.0030783	1.4648	.0031591	.0021023
%RSD	.3507748	.3275048	.3602816	.5856800	.6022840	.4252372
#1	.5111371	.5050070	.8517013	249.0479	.5218181	.4925678
#2	.5119933	.5053867	.8538026	249.4907	.5279943	.4938675
#3	.5145898	.5080491	.8577636	251.7773	.5237527	.4966805

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5049799**	**98.52263**	**.5042577**	**255.5546**	**.9772079**	**.2155921**
Stddev	.0023356	.65287	.0024152	1.1654	.0017623	.0007693
%RSD	.4625037	.6626559	.4789519	.4560211	.1803366	.3568105
#1	.5027288	97.77043	.5015344	254.4555	.9758547	.2152753
#2	.5048193	98.85533	.5050990	255.4318	.9765684	.2150318
#3	.5073916	98.94212	.5061397	256.7766	.9792007	.2164692

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.145035**	**.4757031**	**1.050332**	**-.226193**	F **-.007504**	F **.0002775**
Stddev	.003832	.0043303	.003200	.010068	.002585	.0001737
%RSD	2.642264	.9102872	.3046772	4.451001	34.44311	62.61364
#1	-.141788	.4792113	1.047308	-.233471	-.009186	.0004685
#2	-.144054	.4708635	1.053683	-.230406	-.004528	.0001288
#3	-.149262	.4770345	1.050005	-.214703	-.008798	.0002351

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSAB01 Acquired: 7/29/2025 13:20:15 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.003802	F .0012420	F -.015321	F .0066378	F -.007124	F .0497702
Stddev	.000981	.0022151	.009464	.0012736	.001021	.0033474
%RSD	25.81199	178.3462	61.77109	19.18702	14.33435	6.725767
#1	-.004225	.0006470	-.010307	.0077259	-.007375	.0459050
#2	-.004502	-.000615	-.026237	.0052370	-.007997	.0517277
#3	-.002680	.003694	-.009419	.0069506	-.006001	.0516778

Elem	Sr4077
Units	ppm
Avg	F .0099504
Stddev	.0003958
%RSD	3.977934
#1	.0104007
#2	.0097937
#3	.0096570

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4733.200	80064.03	7681.680	3953.718	5498.236
Stddev	16.942	313.05	37.834	7.213	17.352
%RSD	.3579340	.3909957	.4925248	.1824287	.3155938
#1	4744.568	80407.60	7698.491	3960.250	5512.065
#2	4741.303	79989.53	7708.197	3954.927	5503.879
#3	4713.728	79794.95	7638.354	3945.978	5478.765

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSADLX20 Acquired: 7/29/2025 13:24:29 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.003036**	**-.000420**	**-.000791**	**.0000731**	**-.000658**	**12.42552**	**.0035785**
Stddev	.000920	.000871	.000663	.0037108	.000171	.02276	.0007873
%RSD	30.30501	207.5193	83.72439	5076.230	25.96287	.1832086	22.00183
#1	-.003427	-.000944	-.001554	-.002958	-.000852	12.40342	.0037308
#2	-.003696	.000585	-.000459	.004212	-.000529	12.44890	.0027261
#3	-.001985	-.000900	-.000361	-.001034	-.000593	12.42425	.0042785

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002257**	**.0001001**	**12.86255**	**.0027834**	**.0000569**	**.0010833**	**5.201629**
Stddev	.0000397	.0000330	.00908	.0003200	.0001954	.0004527	.101154
%RSD	17.58583	32.97329	.0706214	11.49701	343.3227	41.79127	1.944658
#1	.0001817	.0001018	12.87009	.0025424	.0002650	.0009294	5.163895
#2	.0002369	.0001321	12.86510	.0026614	.0000283	.0015928	5.124765
#3	.0002587	.0000662	12.85246	.0031465	-.000123	.0007275	5.316225

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000100**	**12.88041**	**.0005572**	**.0005499**	**-.240106**	**-.002155**	**.0000593**
Stddev	.000485	.02013	.0002172	.0001167	.005568	.002825	.0001493
%RSD	484.6540	.1562911	38.98333	21.22096	2.319133	131.1095	251.9628
#1	-.000455	12.89371	.0003103	.0004363	-.245838	-.000954	.0000527
#2	.000453	12.85725	.0007188	.0005439	-.239761	-.000129	-.000087
#3	-.000299	12.89026	.0006426	.0006694	-.234718	-.005382	.000212

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.342510**	**-.000266**	**-.000094**	**-.000537**	**.0074395**	**-.004007**	**-.000514**
Stddev	.007856	.000921	.000217	.000039	.0002146	.006487	.001299
%RSD	2.293619	346.3962	229.7618	7.201466	2.885177	161.9117	252.9035
#1	-.340483	-.001031	.000037	-.000581	.0072630	-.004993	.000986
#2	-.335866	-.000523	.000025	-.000523	.0076784	.002917	-.001280
#3	-.351180	.000756	-.000344	-.000507	.0073770	-.009944	-.001247

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSADLX20 Acquired: 7/29/2025 13:24:29 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.003032**	**-.008783**	**-.000000**
Stddev	.000908	.002519	.000098
%RSD	29.95752	28.67718	19689.76
#1	-.003851	-.007243	.000003
#2	-.002055	-.011690	.000096
#3	-.003189	-.007417	-.000101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5340.943**	**83382.65**	**8080.461**	**4251.368**	**6730.816**
Stddev	20.750	1949.48	21.486	102.595	19.512
%RSD	.3885054	2.337989	.2658954	2.413221	.2898922
#1	5363.878	84334.23	8098.761	4292.002	6752.365
#2	5335.481	84673.58	8085.818	4327.421	6725.736
#3	5323.471	81140.13	8056.804	4134.680	6714.346

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSABDLX20 Acquired: 7/29/2025 13:28:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0038819	.0044992	.0019013	.0016589	.0303753	12.34695	.0272193
Stddev	.0012364	.0002448	.0019951	.0023355	.0021248	.02523	.0006442
%RSD	31.84929	5.440124	104.9338	140.7875	6.995112	.2043052	2.366613
#1	.0038193	.0045792	.0040386	.0038137	.0280083	12.32155	.0275605
#2	.0026781	.0046939	.0000880	-.000823	.0309995	12.37200	.0264763
#3	.0051484	.0042244	.0015773	.001986	.0321180	12.34731	.0276212

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253423	.0422366	12.81461	.0269547	.0243066	.0266186	4.994273
Stddev	.0001074	.0003338	.04248	.0002231	.0002303	.0003279	.012422
%RSD	.4238175	.7902766	.3314650	.8275786	.9475872	1.231843	.2487170
#1	.0252777	.0423031	12.83612	.0267084	.0245457	.0263405	5.005482
#2	.0252829	.0418746	12.76568	.0271432	.0240862	.0265352	4.996418
#3	.0254663	.0425321	12.84202	.0270125	.0242879	.0269802	4.980918

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254759	12.78489	.0491378	.0110404	-.251411	.0236794	.0511481
Stddev	.0003990	.07238	.0001891	.0004190	.006943	.0006445	.0001265
%RSD	1.566243	.5661671	.3847626	3.794869	2.761783	2.721701	.2472892
#1	.0253718	12.70734	.0493470	.0105574	-.245751	.0240060	.0512881
#2	.0259166	12.79668	.0490876	.0112594	-.249322	.0229370	.0511141
#3	.0251393	12.85066	.0489790	.0113046	-.259159	.0240951	.0510421

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.324532	-.001628	-.000013	-.001107	.0073346	-.014590	-.000851
Stddev	.027360	.000645	.000119	.000216	.0010538	.003785	.002713
%RSD	8.430478	39.60621	920.3191	19.54953	14.36761	25.94223	318.9371
#1	-.294390	-.001371	.000027	-.001341	.0069145	-.010273	-.003960
#2	-.347798	-.002362	.000081	-.000913	.0065557	-.016162	.001037
#3	-.331408	-.001152	-.000146	-.001068	.0085337	-.017337	.000371

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: ICSABDLX20 Acquired: 7/29/2025 13:28:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0003078	-.006167	.0002555
Stddev	.0026969	.004234	.0000786
%RSD	876.0702	68.65134	30.76856
#1	.0008977	-.010067	.0001899
#2	-.002635	-.006771	.0003427
#3	.002661	-.001664	.0002340

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5147.568	87544.32	8156.492	4375.215	6372.271
Stddev	28.232	213.66	34.261	21.076	30.380
%RSD	.5484529	.2440547	.4200408	.4817226	.4767523
#1	5142.098	87373.80	8130.257	4352.156	6369.712
#2	5178.135	87475.17	8195.253	4393.485	6403.849
#3	5122.472	87783.98	8143.965	4380.002	6343.251

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV01 Acquired: 7/29/2025 14:21:13 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.076612**	**5.310575**	**4.935100**	**5.143401**	**5.204784**	**10.15402**	**10.45821**
Stddev	.028452	.024649	.024625	.030248	.027002	.04642	.18952
%RSD	.5604522	.4641491	.4989780	.5880892	.5187875	.4571509	1.812212
#1	5.098609	5.285115	4.960730	5.159985	5.224373	10.20758	10.65485
#2	5.044480	5.312286	4.911621	5.108489	5.173982	10.12907	10.44305
#3	5.086748	5.334324	4.932950	5.161730	5.215996	10.12541	10.27671

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2523064**	**2.451752**	**26.31168**	**.9645707**	**2.502710**	**1.271704**	**5.238009**
Stddev	.0031142	.015541	.07206	.0039632	.015376	.006023	.032066
%RSD	1.234291	.6338611	.2738564	.4108773	.6143547	.4736007	.6121818
#1	.2557392	2.469310	26.39348	.9667758	2.517916	1.277827	5.205550
#2	.2515172	2.446185	26.25763	.9669409	2.487170	1.265787	5.269667
#3	.2496626	2.439762	26.28392	.9599954	2.503044	1.271497	5.238809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.582518**	**24.91328**	**2.499392**	**1.296657**	**26.05138**	**2.521348**	**2.615247**
Stddev	.009884	.12833	.015514	.005997	.17636	.008765	.014819
%RSD	.3827266	.5151097	.6207158	.4625343	.6769593	.3476322	.5666506
#1	2.593185	25.05869	2.515333	1.300655	25.84778	2.530985	2.619858
#2	2.573669	24.86528	2.484343	1.299554	26.14970	2.519208	2.627212
#3	2.580700	24.81587	2.498499	1.289761	26.15665	2.513851	2.598670

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.19150**	**5.107121**	**5.193152**	**4.984085**	**5.042051**	**5.054994**	**4.895252**
Stddev	.23614	.061430	.026512	.022513	.013309	.039824	.021636
%RSD	.9015971	1.202829	.5105191	.4517030	.2639568	.7878123	.4419878
#1	25.92823	5.172244	5.214915	5.005022	5.056843	5.021575	4.913408
#2	26.26165	5.098909	5.163625	4.960272	5.038264	5.044349	4.871311
#3	26.38462	5.050211	5.200916	4.986960	5.031047	5.099059	4.901036

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV01 Acquired: 7/29/2025 14:21:13 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**4.934205**	**4.962465**	**5.329495**
Stddev	.023875	.013459	.113098
%RSD	.4838763	.2712114	2.122120
#1	4.951984	4.977905	5.458547
#2	4.907068	4.956278	5.247638
#3	4.943563	4.953213	5.282300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5085.283**	**85042.24**	**8136.221**	**4173.540**	**6127.176**
Stddev	30.077	90.16	78.639	15.723	40.253
%RSD	.5914472	.1060227	.9665275	.3767346	.6569632
#1	5052.998	85022.49	8048.959	4174.434	6084.431
#2	5112.509	84963.58	8158.099	4157.389	6164.359
#3	5090.343	85140.64	8201.603	4188.797	6132.739

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB01 Acquired: 7/29/2025 14:25:25 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001891**	**-.000527**	**.0005796**	**.0005070**	**.0005427**	**-.016217**	**.0021442**
Stddev	.002084	.000535	.0002273	.0008613	.0037009	.010469	.0001429
%RSD	110.2087	101.4432	39.21765	169.8787	681.9330	64.55886	6.664051
#1	-.002614	-.000237	.0003448	-.000388	.0045155	-.028179	.0019803
#2	-.003517	-.000200	.0005953	.000579	-.000080	-.011749	.0022423
#3	.000458	-.001144	.0007985	.001330	-.002807	-.008722	.0022102

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001530**	**.0001587**	**.0094870**	**-.000033**	**-.000028**	**.0001501**	**-.003891**
Stddev	.0000749	.0000777	.0067220	.000175	.000068	.0001667	.005312
%RSD	48.94827	48.98821	70.85478	532.3517	246.2769	111.0378	136.5205
#1	.0001489	.0002437	.0145531	.000148	-.000103	.0002675	-.005653
#2	.0002299	.0000913	.0120466	-.000044	.000028	-.000041	.002078
#3	.0000803	.0001409	.0018612	-.000202	-.000008	.000224	-.008098

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000005**	**.0131578**	**.0003818**	**.0009326**	**-.255850**	**-.001999**	**.0002230**
Stddev	.000453	.0093163	.0002558	.0002761	.013844	.000817	.0002060
%RSD	9231.870	70.80432	66.98901	29.60032	5.410855	40.83953	92.38179
#1	.000450	.0092278	.0006201	.0010379	-.262996	-.002553	.0000824
#2	-.000008	.0237952	.0004137	.0006194	-.239893	-.002384	.0004594
#3	-.000456	.0064504	.0001116	.0011406	-.264660	-.001062	.0001271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.268073**	**.0162858**	**.0008487**	**.0003758**	**.0081782**	**.0000614**	**-.000146**
Stddev	.032093	.0019540	.0000434	.0005527	.0004798	.0079934	.000865
%RSD	11.97171	11.99823	5.110521	147.0558	5.867335	13016.84	591.2104
#1	-.237585	.0184151	.0008006	-.000018	.0079062	.0060195	.000657
#2	-.301561	.0158673	.0008849	.000138	.0087323	.0031872	-.000034
#3	-.265074	.0145749	.0008606	.001008	.0078961	-.009023	-.001062

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB01 Acquired: 7/29/2025 14:25:25 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0005326	-.007707	.0003600
Stddev	.0006841	.002911	.0000084
%RSD	128.4400	37.76813	2.338385
#1	.0013137	-.010905	.0003659
#2	.0000396	-.007000	.0003637
#3	.0002446	-.005214	.0003503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5236.332	87658.47	8280.788	4351.024	6613.378
Stddev	2.423	318.26	192.196	21.445	13.486
%RSD	.0462781	.3630632	2.320990	.4928666	.2039143
#1	5233.707	87750.00	8188.129	4350.173	6598.988
#2	5238.485	87304.48	8152.475	4330.017	6615.418
#3	5236.803	87920.93	8501.761	4372.881	6625.727

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169029BL Acquired: 7/29/2025 14:29:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.002109**	**-.000898**	**.0007271**	**-.002601**	**.0015703**	**-.015988**	**.0001910**
Stddev	.000722	.001237	.0011529	.001725	.0006838	.005504	.0005631
%RSD	34.23602	137.8310	158.5679	66.30811	43.54921	34.42750	294.7496
#1	-.001436	.000515	.0004358	-.003914	.0008308	-.022192	-.000447
#2	-.002019	-.001790	.0019976	-.000648	.0021799	-.014083	.000401
#3	-.002872	-.001417	-.000252	-.003243	.0017000	-.011690	.000619

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001275**	**.0001814**	**.0128439**	**-.000132**	**.0001283**	**.0000701**	**-.003676**
Stddev	.0000235	.0000903	.0129941	.000335	.0000759	.0003991	.001875
%RSD	18.39747	49.76734	101.1695	252.9194	59.12237	569.0606	51.00145
#1	.0001496	.0001669	.0197950	.000167	.0001683	-.000089	-.002643
#2	.0001029	.0000993	.0208841	-.000071	.0000408	-.000225	-.005839
#3	.0001301	.0002781	-.002147	-.000494	.0001758	.000524	-.002545

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000656**	**.0102124**	**-.000160**	**.0006784**	**-.285849**	**-.001646**	**-.000134**
Stddev	.000568	.0195545	.000284	.0002427	.004071	.001345	.000097
%RSD	86.55191	191.4773	177.4084	35.77066	1.424106	81.74344	72.46689
#1	-.000378	.0316073	-.000127	.0006226	-.287872	-.001287	-.000023
#2	-.000281	.0057656	.000106	.0004685	-.288511	-.003134	-.000176
#3	-.001309	-.006736	-.000460	.0009442	-.281162	-.000516	-.000202

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.265954**	**.0105390**	**.0000455**	**.0004881**	**.0077275**	**-.007771**	**-.001652**
Stddev	.016336	.0011731	.0001714	.0000789	.0005109	.006486	.001981
%RSD	6.142297	11.13140	377.1684	16.17535	6.611734	83.46058	119.9025
#1	-.263570	.0115581	.0000107	.0004307	.0079499	-.015260	-.003920
#2	-.283351	.0108023	-.000106	.0004553	.0080896	-.004058	-.000258
#3	-.250942	.0092566	.000232	.0005781	.0071431	-.003995	-.000779

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169029BL Acquired: 7/29/2025 14:29:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0001296	-.007483	-.000112
Stddev	.0010096	.003533	.000074
%RSD	778.9342	47.21338	65.92197
#1	.0012815	-.003410	-.000131
#2	-.000291	-.009321	-.000174
#3	-.000601	-.009719	-.000030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5210.480	89918.89	8141.690	4431.128	6572.126
Stddev	2.638	209.52	209.635	10.825	10.573
%RSD	.0506202	.2330102	2.574838	.2442870	.1608828
#1	5209.897	89715.38	8270.394	4419.723	6561.413
#2	5213.360	90133.94	7899.790	4432.402	6582.554
#3	5208.183	89907.34	8254.887	4441.260	6572.410

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169029BS Acquired: 7/29/2025 14:34:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.7854803**	**2.057080**	**.9498442**	**2.006886**	**.8921309**	**2.046879**
Stddev	.0036082	.019574	.0059499	.014773	.0053169	.010385
%RSD	.4593690	.9515286	.6264048	.7361206	.5959745	.5073500
#1	.7891334	2.074530	.9565637	2.020993	.8980067	2.051867
#2	.7819186	2.035915	.9452445	1.991526	.8876517	2.053829
#3	.7853888	2.060795	.9477246	2.008139	.8907344	2.034942

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2135333**	**.2219577**	**.1695258**	**1.132387**	**.3951015**	**.2014806**
Stddev	.0023960	.0004466	.0002255	.004434	.0011226	.0008060
%RSD	1.122086	.2012085	.1330268	.3915450	.2841208	.4000184
#1	.2113483	.2219309	.1697858	1.128978	.3944005	.2024006
#2	.2160956	.2224171	.1694074	1.137399	.3963962	.2008991
#3	.2131560	.2215251	.1693842	1.130783	.3945077	.2011422

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3182853**	**2.967825**	**.2161673**	**2.070051**	**.5076107**	**.0787182**
Stddev	.0020927	.010555	.0024387	.052369	.0028175	.0003652
%RSD	.6574987	.3556587	1.128180	2.529855	.5550416	.4639690
#1	.3206717	2.956911	.2146552	2.102182	.5106256	.0786605
#2	.3167633	2.977980	.2189807	2.098351	.5050446	.0791088
#3	.3174208	2.968585	.2148659	2.009621	.5071617	.0783852

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.500731**	**.3043510**	**.2178001**	**9.628307**	**.3404152**	**.4460913**
Stddev	.023629	.0038747	.0010598	.042455	.0007127	.0030157
%RSD	.9448961	1.273091	.4865745	.4409437	.2093736	.6760194
#1	2.473492	.3063942	.2184037	9.579319	.3408692	.4492734
#2	2.515723	.3067764	.2184201	9.654414	.3407826	.4432755
#3	2.512978	.2998824	.2165764	9.651188	.3395937	.4457250

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169029BS Acquired: 7/29/2025 14:34:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7379193	.2207851	.8403137	5.679362	F .0003967	.1858256
Stddev	.0061314	.0026176	.0181520	.035749	.0020259	.0018448
%RSD	.8309079	1.185576	2.160147	.6294592	510.6616	.9927828
#1	.7445431	.2177758	.8585746	5.714157	-.000689	.1842771
#2	.7324421	.2220453	.8222726	5.642729	.002734	.1878667
#3	.7367727	.2225342	.8400939	5.681201	-.000855	.1853330

Elem	Sr4077
Units	ppm
Avg	.2143283
Stddev	.0015597
%RSD	.7277407
#1	.2129140
#2	.2160012
#3	.2140698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5261.508	88985.05	7747.032	4381.702	6564.544
Stddev	29.464	286.32	40.355	9.502	33.040
%RSD	.5599958	.3217672	.5209131	.2168577	.5033127
#1	5229.149	89299.07	7776.271	4386.394	6527.398
#2	5286.787	88738.45	7700.990	4370.767	6590.653
#3	5268.589	88917.63	7763.835	4387.946	6575.581

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2700-01 Acquired: 7/29/2025 14:38:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0486956	.0013407	.6063524	-.000315	-.010663	102.4314	.5047329
Stddev	.0016903	.0006216	.0005860	.000350	.001973	.3084	.0011162
%RSD	3.471131	46.36169	.0966491	111.0439	18.50297	.3010959	.2211546
#1	.0493220	.0006860	.6063740	-.000079	-.012937	102.6025	.5049242
#2	.0467815	.0014133	.6069274	-.000149	-.009409	102.0754	.5035334
#3	.0499833	.0019228	.6057559	-.000716	-.009641	102.6164	.5057412

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077994	.0235541	42.32255	.1689997	.1197704	.3277853	220.8532
Stddev	.0001017	.0000712	.28063	.0005558	.0003717	.0009772	1.1133
%RSD	1.303314	.3021396	.6630844	.3288670	.3103565	.2981178	.5040769
#1	.0077578	.0235428	42.30666	.1684852	.1196771	.3270091	219.6526
#2	.0077251	.0236302	42.05020	.1695892	.1201798	.3274640	221.8513
#3	.0079152	.0234893	42.61079	.1689247	.1194541	.3288826	221.0558

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.352034	30.97488	.2328166	.0054922	9.735627	.4365317	.5258257
Stddev	.018890	.15792	.0001867	.0008317	.060486	.0032025	.0017148
%RSD	.4340395	.5098206	.0801927	15.14311	.6212849	.7336169	.3261242
#1	4.350091	31.00181	.2326564	.0047312	9.683489	.4392704	.5262256
#2	4.334191	30.80523	.2327718	.0063800	9.801942	.4330105	.5239463
#3	4.371820	31.11760	.2330216	.0053653	9.721448	.4373143	.5273053

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.767398	.0034991	.0053383	.0162030	3.720114	1.430055	6.578784
Stddev	.013080	.0031342	.0002414	.0005453	.006970	.006942	.036591
%RSD	.1932846	89.57072	4.521969	3.365172	.1873571	.4854316	.5561954
#1	6.753451	.0022136	.0052958	.0160282	3.714472	1.429977	6.543815
#2	6.779391	.0070717	.0051210	.0168143	3.717964	1.437036	6.575732
#3	6.769353	.0012121	.0055981	.0157666	3.727905	1.423152	6.616805

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2700-01 Acquired: 7/29/2025 14:38:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.530349**	**.1631508**	**-.050814**
Stddev	.012682	.0024051	.001503
%RSD	.2293170	1.474129	2.957458
#1	5.528783	.1613312	-.049350
#2	5.543742	.1658775	-.052352
#3	5.518523	.1622439	-.050740

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6329.869**	**104343.1**	**9973.248**	**5127.174**	**6049.545**
Stddev	22.556	200.3	71.845	10.609	19.113
%RSD	.3563421	.1920049	.7203797	.2069152	.3159349
#1	6355.738	104574.3	9948.108	5121.242	6070.377
#2	6314.317	104221.4	10054.29	5139.422	6032.820
#3	6319.551	104233.5	9917.35	5120.858	6045.439

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2703-01 Acquired: 7/29/2025 14:42:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.3856665**	**.0013610**	**3.683126**	**.0437254**	**.1276217**	**38.59354**
Stddev	.0054436	.0009740	.008481	.0023194	.0023059	.05969
%RSD	1.411480	71.56986	.2302684	5.304431	1.806809	.1546504
#1	.3797597	.0022709	3.674520	.0410611	.1296905	38.58435
#2	.3867585	.0003335	3.683381	.0452933	.1251357	38.53898
#3	.3904814	.0014785	3.691476	.0448218	.1280389	38.65729

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.050522**	**.0127373**	**.0297368**	**20.29180**	**.1933291**	**.1478574**
Stddev	.002319	.0000359	.0005155	.03304	.0009083	.0006614
%RSD	.2207062	.2820991	1.733638	.1628068	.4698160	.4472931
#1	1.053196	.0127386	.0294204	20.32568	.1926704	.1471527
#2	1.049077	.0127007	.0294582	20.29004	.1929516	.1479548
#3	1.049292	.0127725	.0303317	20.25968	.1943653	.1484646

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.359427**	**469.6948**	**3.409593**	**4.487469**	**.3813274**	**.0113452**
Stddev	.001666	3.4789	.004817	.031155	.0004891	.0012351
%RSD	.1225160	.7406792	.1412880	.6942602	.1282588	10.88681
#1	1.360317	468.8784	3.412435	4.503076	.3808214	.0102402
#2	1.357506	473.5093	3.404031	4.451595	.3817976	.0126786
#3	1.360459	466.6966	3.412313	4.507735	.3813632	.0111169

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.35981**	**.2410702**	**2.684394**	**5.495354**	**-.081314**	**.0369468**
Stddev	.04816	.0026992	.003227	.011744	.012216	.0003803
%RSD	.2774019	1.119654	.1202298	.2137098	15.02258	1.029338
#1	17.30497	.2407434	2.684195	5.502271	-.088260	.0365268
#2	17.37921	.2385494	2.687716	5.481794	-.067210	.0370456
#3	17.39523	.2439179	2.681270	5.501997	-.088474	.0372679

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2703-01 Acquired: 7/29/2025 14:42:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.2554034	2.792543	2.680253	8.084298	F 23.23697	.2197666
Stddev	.0001460	.003093	.013305	.024978	.06445	.0005975
%RSD	.0571629	.1107752	.4963998	.3089688	.2773799	.2718894
#1	.2555638	2.793224	2.667474	8.104359	23.19524	.2192409
#2	.2552783	2.795240	2.679258	8.056322	23.20446	.2204164
#3	.2553681	2.789166	2.694028	8.092215	23.31120	.2196424

Elem	Sr4077
Units	ppm
Avg	-.098846
Stddev	.003333
%RSD	3.372027
#1	-.097776
#2	-.102582
#3	-.096179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5424.172	95003.15	9060.853	4590.283	5900.261
Stddev	1.447	101.91	39.352	12.727	3.470
%RSD	.0266858	.1072682	.4343068	.2772540	.0588043
#1	5423.363	94950.00	9015.523	4585.840	5900.853
#2	5423.310	94938.79	9080.781	4580.373	5896.533
#3	5425.843	95120.64	9086.255	4604.636	5903.396

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03 Acquired: 7/29/2025 14:46:24 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0230399	.0010745	.0262127	.0041598	-.006154	26.95671	.0502947
Stddev	.0021596	.0007402	.0017263	.0019585	.000572	.08682	.0011543
%RSD	9.373272	68.89393	6.585737	47.08241	9.287729	.3220733	2.295005
#1	.0254012	.0002562	.0269024	.0037404	-.005512	27.05693	.0516182
#2	.0211650	.0012697	.0242482	.0024449	-.006342	26.90454	.0497697
#3	.0225535	.0016975	.0274876	.0062940	-.006608	26.90865	.0494963

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023343	.0033570	2.166101	.0524734	.0030087	.0441380	97.80305
Stddev	.0000130	.0000619	.005583	.0001521	.0004111	.0004593	.13042
%RSD	.5566271	1.842796	.2577507	.2897896	13.66397	1.040674	.1333458
#1	.0023484	.0033263	2.169087	.0523618	.0025409	.0436107	97.92505
#2	.0023228	.0034282	2.159660	.0524118	.0031731	.0443520	97.81851
#3	.0023317	.0033164	2.169556	.0526466	.0033123	.0444512	97.66559

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483415	.2054923	.0083762	.0035085	1.047488	.0846695	.0373217
Stddev	.0006361	.0125509	.0000628	.0003116	.014488	.0017922	.0001542
%RSD	1.315940	6.107698	.7492963	8.879863	1.383147	2.116737	.4132107
#1	.0490627	.2171060	.0083267	.0034477	1.044664	.0862167	.0373108
#2	.0481015	.1921778	.0083551	.0038459	1.034620	.0850861	.0371732
#3	.0478602	.2071930	.0084468	.0032318	1.063181	.0827056	.0374810

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5869889	-.050681	.0176494	.0048039	.8005934	2.449480	1.114776
Stddev	.0122697	.001050	.0001572	.0000854	.0010781	.015305	.008678
%RSD	2.090287	2.072162	.8905434	1.777998	.1346583	.6248270	.7784292
#1	.5906087	-.051272	.0175392	.0047143	.8005306	2.465494	1.113757
#2	.5970415	-.049469	.0175796	.0048131	.7995480	2.434999	1.106653
#3	.5733164	-.051303	.0178294	.0048844	.8017014	2.447946	1.123918

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03 Acquired: 7/29/2025 14:46:24 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1450889	.0338726	-.083924
Stddev	.0020061	.0029012	.000066
%RSD	1.382653	8.564968	.0784111
#1	.1428746	.0305226	-.083953
#2	.1456072	.0355422	-.083849
#3	.1467850	.0355529	-.083971

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5335.056	89154.32	7852.095	4400.611	6590.619
Stddev	13.434	151.71	16.338	6.613	24.404
%RSD	.2518078	.1701702	.2080682	.1502676	.3702799
#1	5335.037	89210.74	7838.925	4405.505	6592.851
#2	5348.499	89269.74	7870.378	4403.240	6613.831
#3	5321.631	88982.48	7846.982	4393.088	6565.176

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03DUP Acquired: 7/29/2025 14:50:38 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0194360	-.000081	.0282349	.0028773	-.004996	24.45061	.0484185
Stddev	.0028845	.001597	.0013951	.0019655	.003294	.07122	.0007654
%RSD	14.84112	1975.648	4.941187	68.31097	65.93258	.2912955	1.580727
#1	.0221954	.001463	.0278090	.0020559	-.002755	24.52891	.0492900
#2	.0196718	-.001726	.0271024	.0014557	-.008777	24.38968	.0481094
#3	.0164409	.000020	.0297934	.0051203	-.003454	24.43323	.0478559

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022216	.0033645	1.977274	.0557510	.0029250	.0410607	90.19327
Stddev	.0000339	.0000845	.006718	.0002135	.0001333	.0004842	.42424
%RSD	1.525669	2.512423	.3397533	.3828546	4.557142	1.179288	.4703732
#1	.0021825	.0032958	1.970961	.0559948	.0029011	.0407975	90.17544
#2	.0022425	.0033388	1.976527	.0556604	.0030686	.0407651	90.62615
#3	.0022399	.0034589	1.984335	.0555977	.0028053	.0416195	89.77822

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494334	.1993488	.0085072	.0028713	.8611816	.0825718	.0383233
Stddev	.0007265	.0340321	.0004098	.0002151	.0035226	.0012807	.0001274
%RSD	1.469764	17.07166	4.816520	7.492743	.4090444	1.551023	.3323590
#1	.0495807	.1692221	.0089793	.0031058	.8652342	.0831748	.0383875
#2	.0500749	.2362633	.0082982	.0026830	.8588536	.0811009	.0381766
#3	.0486444	.1925610	.0082441	.0028250	.8594570	.0834396	.0384058

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5026041	-.049645	.0158010	.0048185	.8580543	2.472194	1.096283
Stddev	.0124627	.003512	.0001568	.0009727	.0049269	.011603	.004900
%RSD	2.479631	7.074631	.9924686	20.18612	.5741996	.4693207	.4469789
#1	.4915364	-.050594	.0157022	.0041679	.8630699	2.484676	1.090837
#2	.5001725	-.045755	.0159819	.0059367	.8578720	2.461738	1.097678
#3	.5161034	-.052584	.0157191	.0043510	.8532211	2.470169	1.100334

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03DUP Acquired: 7/29/2025 14:50:38 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1470372	.0301604	-.077163
Stddev	.0024933	.0027673	.000354
%RSD	1.695718	9.175396	.4585859
#1	.1498024	.0323647	-.077069
#2	.1449603	.0310617	-.077554
#3	.1463489	.0270547	-.076865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5240.255	88939.03	7805.256	4371.634	6451.600
Stddev	3.139	273.34	20.129	1.397	9.681
%RSD	.0598923	.3073302	.2578920	.0319631	.1500593
#1	5241.869	88921.57	7799.264	4370.280	6461.545
#2	5242.258	88674.84	7827.700	4373.071	6451.049
#3	5236.638	89220.68	7788.803	4371.550	6442.206

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03LX5 Acquired: 7/29/2025 14:54:51 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.0015878**	**-.000512**	**.0061156**	**.0020276**	**-.002338**	**5.944455**	**.0108860**
Stddev	.0025865	.001406	.0002350	.0005614	.000418	.007599	.0003927
%RSD	162.8957	274.5431	3.843000	27.68649	17.85983	.1278315	3.607490
#1	.0000088	.001070	.0059035	.0022334	-.002820	5.946768	.0110851
#2	.0001819	-.001619	.0063683	.0013924	-.002114	5.950629	.0104336
#3	.0045727	-.000987	.0060751	.0024570	-.002080	5.935968	.0111392

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004887**	**.0006227**	**.4494259**	**.0107674**	**.0006853**	**.0084332**	**20.60910**
Stddev	.0000232	.0001951	.0050982	.0000994	.0002514	.0004642	.09161
%RSD	4.741873	31.32839	1.134380	.9231225	36.69089	5.504858	.4445292
#1	.0005083	.0008044	.4503843	.0107158	.0009727	.0084432	20.58771
#2	.0004947	.0004166	.4539770	.0107045	.0005064	.0088924	20.70951
#3	.0004632	.0006469	.4439166	.0108820	.0005766	.0079641	20.53007

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093000**	**.0414118**	**.0017105**	**.0014164**	**.0058196**	**.0159071**	**.0069179**
Stddev	.0004552	.0056188	.0002744	.0003078	.0059701	.0043618	.0000148
%RSD	4.894344	13.56819	16.04418	21.72988	102.5866	27.42029	.2142639
#1	.0090147	.0427559	.0020204	.0011668	-.001069	.0109143	.0069031
#2	.0098250	.0352429	.0014985	.0017603	.009491	.0189773	.0069327
#3	.0090604	.0462368	.0016125	.0013221	.009036	.0178296	.0069180

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.021272**	**-.007726**	**.0029474**	**.0004534**	**.1783931**	**.8409419**	**.2187366**
Stddev	.008443	.000737	.0001344	.0008701	.0009976	.0073760	.0051921
%RSD	39.68792	9.536948	4.561482	191.9000	.5592293	.8771131	2.373674
#1	-.012126	-.008025	.0028761	.0013128	.1788570	.8470855	.2229243
#2	-.028767	-.006887	.0028637	.0004746	.1772479	.8429785	.2203582
#3	-.022925	-.008266	.0031025	-.000427	.1790742	.8327615	.2129272

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03LX5 Acquired: 7/29/2025 14:54:51 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0270071	-.002467	-.017817
Stddev	.0010035	.001866	.000094
%RSD	3.715660	75.62509	.5293571
#1	.0276330	-.001147	-.017753
#2	.0275385	-.004601	-.017925
#3	.0258496	-.001653	-.017772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5352.841	88475.93	7884.739	4391.731	6756.979
Stddev	13.626	145.55	40.124	12.912	16.141
%RSD	.2545641	.1645053	.5088816	.2940072	.2388830
#1	5352.849	88370.69	7852.752	4376.907	6765.128
#2	5366.463	88415.08	7929.760	4400.526	6767.421
#3	5339.210	88642.03	7871.707	4397.759	6738.387

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03MS Acquired: 7/29/2025 14:59:09 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7442874	2.010514	.9840282	1.791986	.5415719	35.85928	.2659806
Stddev	.0012538	.013477	.0011447	.004011	.0028779	.02570	.0009127
%RSD	.1684586	.6703214	.1163305	.2238526	.5313932	.0716784	.3431305
#1	.7439692	2.004925	.9829210	1.794397	.5423892	35.88401	.2670218
#2	.7432234	2.000730	.9852071	1.787356	.5383737	35.86114	.2653191
#3	.7456697	2.025886	.9839564	1.794206	.5439527	35.83270	.2656009

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2020679	.1674520	2.986439	.4654605	.2092207	.3511589	96.17608
Stddev	.0012085	.0003773	.016237	.0002233	.0002802	.0008939	.29694
%RSD	.5980760	.2253267	.5436762	.0479771	.1339303	.2545664	.3087505
#1	.2007518	.1678608	2.968766	.4657130	.2089386	.3514364	96.46648
#2	.2031277	.1671171	3.000695	.4653796	.2092245	.3501591	95.87299
#3	.2023242	.1673780	2.989855	.4652890	.2094989	.3518812	96.18876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545354	2.414555	.5253013	.0862303	4.201828	.3903390	.2536780
Stddev	.0007076	.024622	.0008555	.0008473	.002025	.0040619	.0007121
%RSD	.2779978	1.019750	.1628509	.9826075	.0481821	1.040616	.2806974
#1	.2551897	2.442805	.5245954	.0863266	4.203970	.3905871	.2529955
#2	.2546320	2.397653	.5250559	.0853389	4.201566	.3861587	.2544164
#3	.2537844	2.403208	.5262527	.0870253	4.199947	.3942712	.2536222

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.16677	.2848407	.4373440	.6728680	1.001782	4.080705	6.720778
Stddev	.05936	.0018172	.0012149	.0025216	.002679	.018488	.027553
%RSD	.5315935	.6379651	.2777967	.3747584	.2674503	.4530523	.4099729
#1	11.21123	.2841029	.4375564	.6703624	1.002358	4.098442	6.722331
#2	11.09936	.2835084	.4360369	.6728362	1.004127	4.061549	6.692481
#3	11.18973	.2869107	.4384387	.6754054	.998862	4.082123	6.747522

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03MS Acquired: 7/29/2025 14:59:09 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1376025	.2307897	.1356830
Stddev	.0006867	.0022950	.0004189
%RSD	.4990731	.9944114	.3087547
#1	.1376781	.2311695	.1355483
#2	.1382483	.2328712	.1353480
#3	.1368811	.2283286	.1361527

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5183.051	84469.71	8244.894	4216.330	6348.459
Stddev	14.309	222.45	53.333	10.003	10.236
%RSD	.2760760	.2633487	.6468659	.2372544	.1612332
#1	5178.347	84719.15	8304.584	4223.349	6349.833
#2	5199.120	84398.09	8201.926	4204.876	6357.939
#3	5171.685	84291.89	8228.171	4220.766	6337.606

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03MSD Acquired: 7/29/2025 15:03:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7689115	2.007572	1.008484	1.819322	.4825358	55.28476	.2803968
Stddev	.0048108	.026307	.003760	.009146	.0011767	.09662	.0005456
%RSD	.6256657	1.310412	.3728443	.5027004	.2438464	.1747722	.1945784
#1	.7652510	2.027161	1.008226	1.827764	.4812192	55.37504	.2804788
#2	.7671231	1.977670	1.004860	1.809606	.4834847	55.18285	.2798148
#3	.7743604	2.017884	1.012366	1.820597	.4829034	55.29638	.2808967

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2068270	.1731160	4.194504	.5077234	.2153297	.3792494	148.7929
Stddev	.0008151	.0007283	.019572	.0019295	.0008241	.0009952	.1676
%RSD	.3941195	.4207014	.4665996	.3800251	.3827397	.2624123	.1126621
#1	.2073779	.1736892	4.172194	.5065761	.2149254	.3790188	148.6666
#2	.2058906	.1722965	4.202534	.5099511	.2147857	.3783898	148.7291
#3	.2072124	.1733623	4.208782	.5066431	.2162779	.3803397	148.9831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2669234	2.514272	.5398037	.0881759	4.955013	.4299387	.2705999
Stddev	.0008997	.038424	.0011754	.0006144	.019520	.0048023	.0003141
%RSD	.3370537	1.528228	.2177475	.6967872	.3939458	1.116972	.1160810
#1	.2678338	2.534120	.5395111	.0875671	4.934787	.4326764	.2705552
#2	.2660348	2.538713	.5388022	.0887958	4.956511	.4243937	.2703105
#3	.2669015	2.469984	.5410977	.0881646	4.973741	.4327461	.2709340

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.28254	.2676500	.4518541	.6858784	1.032474	3.987868	7.374451
Stddev	.04825	.0019895	.0011792	.0029443	.002289	.017527	.026882
%RSD	.4276665	.7433216	.2609693	.4292690	.2217313	.4395091	.3645292
#1	11.22927	.2661779	.4528516	.6884136	1.030185	4.007407	7.373355
#2	11.32332	.2668587	.4505527	.6826491	1.032473	3.973531	7.348134
#3	11.29504	.2699134	.4521580	.6865725	1.034763	3.982664	7.401865

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03MSD Acquired: 7/29/2025 15:03:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.2184917	.2621420	.0917051
Stddev	.0065217	.0023733	.0002108
%RSD	2.984879	.9053430	.2299131
#1	.2183492	.2607319	.0919462
#2	.2120425	.2608121	.0916144
#3	.2250836	.2648821	.0915549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5144.130	86366.32	8239.247	4269.234	6214.038
Stddev	11.238	283.56	28.285	14.686	16.919
%RSD	.2184576	.3283261	.3432966	.3439947	.2722743
#1	5149.428	86466.91	8225.568	4276.177	6220.934
#2	5151.739	86585.87	8271.771	4279.161	6226.420
#3	5131.222	86046.17	8220.402	4252.364	6194.760

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03A Acquired: 7/29/2025 15:07:05 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7974604	1.998067	.9727171	1.921319	.8524702	28.98064	.2602082
Stddev	.0019142	.027123	.0040416	.004947	.0022081	.01505	.0004220
%RSD	.2400331	1.357472	.4154915	.2574899	.2590206	.0519144	.1621921
#1	.7975863	1.984307	.9699442	1.921932	.8545340	28.99631	.2603622
#2	.7954864	1.980581	.9708528	1.916094	.8501417	28.97931	.2597308
#3	.7993085	2.029312	.9773544	1.925931	.8527350	28.96630	.2605316

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2046883	.1664057	3.202727	.4470523	.2070221	.3522194	104.4256
Stddev	.0001319	.0004175	.013217	.0015317	.0005200	.0003998	.6270
%RSD	.0644245	.2508946	.4126914	.3426336	.2511777	.1135131	.6004559
#1	.2046749	.1664191	3.209786	.4461717	.2066559	.3523822	104.1429
#2	.2048263	.1659816	3.210916	.4461640	.2067932	.3517639	103.9897
#3	.2045636	.1668163	3.187479	.4488210	.2076173	.3525122	105.1443

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2604811	2.220801	.5197565	.0832503	4.057683	.3925603	.2486032
Stddev	.0004697	.024705	.0017911	.0007232	.026894	.0032804	.0007264
%RSD	.1803293	1.112441	.3445952	.8687111	.6628042	.8356441	.2921815
#1	.2608183	2.239181	.5183040	.0828233	4.032332	.3953943	.2486595
#2	.2599446	2.230504	.5192078	.0828423	4.054824	.3933200	.2478503
#3	.2606805	2.192717	.5217577	.0840853	4.085893	.3889667	.2492998

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.94710	.2693625	.4618702	.7278672	1.007250	3.598603	6.890978
Stddev	.06160	.0021182	.0012948	.0026862	.002966	.040633	.032391
%RSD	.5627378	.7863679	.2803343	.3690553	.2944400	1.129136	.4700470
#1	10.90889	.2686928	.4609627	.7269450	1.010097	3.563863	6.874024
#2	10.91424	.2676601	.4612950	.7257636	1.004178	3.588664	6.870583
#3	11.01816	.2717346	.4633529	.7308931	1.007474	3.643284	6.928327

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-03A Acquired: 7/29/2025 15:07:05 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1347746	.2266546	.1222436
Stddev	.0026995	.0022974	.0009246
%RSD	2.002995	1.013598	.7563436
#1	.1340279	.2254084	.1229543
#2	.1325270	.2252496	.1225783
#3	.1377689	.2293058	.1211983

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5234.696	89018.15	8241.542	4346.023	6398.046
Stddev	5.672	405.24	14.826	21.127	9.018
%RSD	.1083541	.4552341	.1798955	.4861151	.1409499
#1	5237.362	89277.17	8225.055	4351.002	6408.061
#2	5238.544	89226.13	8245.791	4364.216	6395.509
#3	5228.182	88551.15	8253.780	4322.852	6390.569

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV02 Acquired: 7/29/2025 15:11:04 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.122084**	**5.108885**	**5.003591**	**5.182846**	**5.249712**	**10.06448**
Stddev	.080862	.089499	.084504	.074704	.073942	.00569
%RSD	1.578688	1.751826	1.688875	1.441379	1.408498	.0565128
#1	5.039201	5.022586	4.921527	5.108277	5.176357	10.06884
#2	5.200760	5.102797	5.090341	5.257686	5.324227	10.06656
#3	5.126290	5.201273	4.998906	5.182575	5.248551	10.05805

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.41642**	**.2746714**	**2.415560**	**26.92440**	**.9708383**	**2.531514**
Stddev	.05431	.0004282	.045036	.09644	.0128267	.040466
%RSD	.5213826	.1558988	1.864416	.3581722	1.321200	1.598485
#1	10.46317	.2748147	2.369552	26.81304	.9640275	2.492191
#2	10.35685	.2750095	2.459557	26.97987	.9856338	2.573034
#3	10.42924	.2741899	2.417572	26.98028	.9628536	2.529317

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.284952**	**4.939628**	**2.623583**	**24.85957**	**2.535426**	**1.305646**
Stddev	.020417	.062686	.004189	.05905	.040637	.015161
%RSD	1.588913	1.269037	.1596526	.2375366	1.602754	1.161213
#1	1.264574	4.873563	2.618817	24.92261	2.496023	1.293975
#2	1.305407	4.998274	2.625252	24.80555	2.577193	1.322782
#3	1.284877	4.947047	2.626679	24.85053	2.533062	1.300182

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.64915**	**2.515145**	**2.621934**	**25.09411**	F **5.546819**	**5.223779**
Stddev	.23409	.004475	.038878	.28334	.014664	.076513
%RSD	1.033571	.1779297	1.482806	1.129121	.2643756	1.464703
#1	22.40670	2.518408	2.594117	24.79134	5.554474	5.150754
#2	22.87388	2.510043	2.666358	25.35287	5.556073	5.303358
#3	22.66686	2.516983	2.605327	25.13812	5.529912	5.217225

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV02 Acquired: 7/29/2025 15:11:04 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.033536**	**4.981313**	**4.595312**	**5.045769**	**4.983059**	**4.970133**
Stddev	.079351	.011706	.057500	.085025	.083264	.003271
%RSD	1.576443	.2349915	1.251279	1.685072	1.670949	.0658160
#1	4.954208	4.977819	4.531892	4.965658	4.889004	4.969731
#2	5.112909	4.971753	4.644043	5.134976	5.047356	4.967081
#3	5.033492	4.994368	4.610001	5.036672	5.012817	4.973587

Elem	Sr4077
Units	ppm
Avg	**5.359541**
Stddev	.027483
%RSD	.5127833
#1	5.375946
#2	5.374865
#3	5.327813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5045.585**	**85141.93**	**7521.228**	**4171.884**	**6071.543**
Stddev	75.178	845.27	17.792	60.703	94.439
%RSD	1.489967	.9927772	.2365514	1.455042	1.555432
#1	5114.321	85885.76	7503.059	4225.045	6160.109
#2	4965.302	84222.73	7522.008	4105.740	5972.162
#3	5057.133	85317.29	7538.616	4184.867	6082.357

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB02 Acquired: 7/29/2025 15:15:14 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001273**	**.0010496**	**.0003196**	**-.000278**	**.0000002**	**-.015763**	**.0021633**
Stddev	.001017	.0004733	.0008159	.001519	.0008182	.010069	.0014714
%RSD	79.88705	45.09376	255.2629	545.6797	328480.0	63.87708	68.01595
#1	-.001998	.0007087	.0004951	.001320	.0002077	-.026987	.0038594
#2	-.000110	.0008502	.0010335	-.001702	-.000902	-.012777	.0014012
#3	-.001711	.0015900	-.000570	-.000453	.000695	-.007524	.0012293

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001076**	**.0002738**	**.0138937**	**-.000202**	**.0001696**	**.0000797**	**.0007215**
Stddev	.0000511	.0001588	.0020982	.000298	.0001534	.0003504	.0039601
%RSD	47.46907	58.00743	15.10144	147.4501	90.44405	439.5779	548.8245
#1	.0000488	.0003329	.0117370	-.000510	.0002180	.0004794	.0021954
#2	.0001406	.0003947	.0140162	.000084	.0002930	-.000066	-.003764
#3	.0001335	.0000939	.0159279	-.000180	-.000002	-.000174	.003733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004478**	**.0166104**	**.0002891**	**.0011626**	**-.268413**	**-.004228**	**-.000028**
Stddev	.0001942	.0349764	.0000381	.0003384	.002901	.003498	.000065
%RSD	43.35944	210.5695	13.17995	29.10972	1.080934	82.74692	234.1517
#1	.0004098	.0100836	.0003249	.0015515	-.267085	-.008150	-.000044
#2	.0002754	-.014643	.0002491	.0010013	-.266412	-.001430	.000044
#3	.0006582	.054390	.0002933	.0009350	-.271740	-.003104	-.000083

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.202755**	**.0082200**	**.0009962**	**.0001056**	**.0119799**	**-.010900**	**-.004106**
Stddev	.028613	.0012216	.0002154	.0005158	.0026726	.008855	.002180
%RSD	14.11194	14.86166	21.62132	488.6416	22.30945	81.23827	53.10774
#1	-.199037	.0095944	.0012428	.0001339	.0126304	-.003015	-.005612
#2	-.233045	.0072576	.0008448	-.000424	.0090420	-.020480	-.001605
#3	-.176183	.0078081	.0009010	.000607	.0142672	-.009205	-.005100

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB02 Acquired: 7/29/2025 15:15:14 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001377**	**-.009093**	**.0005833**
Stddev	.002822	.000276	.0001810
%RSD	204.9235	3.037083	31.02976
#1	.000686	-.009395	.0007076
#2	-.004592	-.009034	.0006667
#3	-.000224	-.008852	.0003756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5253.154**	**89297.91**	**7796.258**	**4376.951**	**6691.474**
Stddev	21.256	59.26	25.529	17.171	27.581
%RSD	.4046305	.0663582	.3274512	.3923152	.4121839
#1	5274.010	89231.89	7798.791	4358.160	6719.708
#2	5253.931	89315.37	7820.426	4380.865	6690.118
#3	5231.520	89346.48	7769.557	4391.827	6664.596

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-04 Acquired: 7/29/2025 15:19:33 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.4231550	.0011778	.1094584	.0275099	-.025983	131.5659	.1497608
Stddev	.0037083	.0013525	.0016309	.0050702	.000311	.2657	.0003170
%RSD	.8763537	114.8335	1.490009	18.43051	1.197251	.2019657	.2116929
#1	.4243310	.0001993	.1078403	.0322354	-.026145	131.2629	.1494456
#2	.4190013	.0027211	.1111019	.0281402	-.026179	131.7593	.1497572
#3	.4261328	.0006129	.1094329	.0221540	-.025624	131.6754	.1500796

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204457	.0374480	6.369846	1.713163	.0463216	.2130787	699.7120
Stddev	.0000659	.0010238	.024002	.004605	.0001505	.0019626	5.5120
%RSD	.3223193	2.733897	.3768138	.2687789	.3249636	.9210901	.7877490
#1	.0205021	.0362804	6.359038	1.711667	.0463396	.2108131	704.7516
#2	.0203732	.0378718	6.397353	1.718329	.0464624	.2141667	693.8257
#3	.0204617	.0381919	6.353148	1.709491	.0461629	.2142564	700.5587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4900406	9.781502	.0948662	.0174088	20.17114	1.362373	.6799925
Stddev	.0025162	.046030	.0003595	.0021969	.04058	.002891	.0027373
%RSD	.5134708	.4705832	.3789616	12.61923	.2011948	.2122070	.4025542
#1	.4872809	9.834653	.0952734	.0194629	20.20577	1.359502	.6775155
#2	.4922074	9.754945	.0947325	.0150927	20.18117	1.365284	.6795306
#3	.4906335	9.754909	.0945927	.0176709	20.12648	1.362333	.6829314

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.79172	^ *****	.0099440	.0153562	2.238283	2.924856	12.74919
Stddev	.01824	-----	.0002723	.0005769	.005671	.022548	.08433
%RSD	.0680723	-----	2.737983	3.756982	.2533449	.7709108	.6614707
#1	26.77259	^ -----	.0099706	.0147027	2.235136	2.936236	12.68904
#2	26.79367	^ -----	.0096593	.0157948	2.234885	2.898886	12.71295
#3	26.80891	^ -----	.0102019	.0155713	2.244830	2.939446	12.84559

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-04 Acquired: 7/29/2025 15:19:33 Type: Unk
Method: 6010-200.7 NEW(v66) 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	4.403966	.2990169	-.639629
Stddev	.025127	.0028546	.005472
%RSD	.5705583	.9546439	.8554889
#1	4.381830	.3017769	-.644625
#2	4.398791	.2960763	-.633781
#3	4.431278	.2991975	-.640482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5510.203	91214.09	9165.351	4453.987	5697.583
Stddev	16.653	106.62	25.406	15.220	18.985
%RSD	.3022260	.1168883	.2771999	.3417234	.3332115
#1	5514.645	91312.61	9194.488	4467.438	5703.113
#2	5524.186	91228.74	9153.745	4457.057	5713.189
#3	5491.780	91100.90	9147.821	4437.466	5676.447

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-05 Acquired: 7/29/2025 15:23:43 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.4546486	-.006176	.1265885	.0242784	-.025939	144.8618	.1834432
Stddev	.0026208	.002925	.0019825	.0030459	.001135	.1992	.0010208
%RSD	.5764494	47.37070	1.566067	12.54581	4.375603	.1375153	.5564906
#1	.4558541	-.009256	.1280987	.0245255	-.025380	145.0915	.1846209
#2	.4516419	-.003434	.1273232	.0211165	-.025193	144.7561	.1828104
#3	.4564497	-.005837	.1243436	.0271933	-.027245	144.7376	.1828983

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219511	.0422944	6.763922	1.815763	.0472660	.2318558	733.4025
Stddev	.0002508	.0008434	.051821	.004051	.0005693	.0029406	2.3659
%RSD	1.142550	1.994106	.7661342	.2231104	1.204411	1.268274	.3225922
#1	.0221210	.0418531	6.822327	1.816394	.0477353	.2310386	736.1339
#2	.0216631	.0417632	6.723449	1.819461	.0474300	.2294103	731.9913
#3	.0220693	.0432669	6.745990	1.811433	.0466328	.2351186	732.0824

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4416068	11.72492	.1063263	.0145687	19.77628	1.420085	.7233821
Stddev	.0017508	.03749	.0007075	.0011155	.14454	.003269	.0024553
%RSD	.3964684	.3197587	.6653684	7.656616	.7308522	.2302239	.3394173
#1	.4434887	11.76688	.1056033	.0155572	19.69739	1.416313	.7221795
#2	.4413057	11.71315	.1063584	.0133593	19.94310	1.422117	.7262068
#3	.4400261	11.69472	.1070171	.0147896	19.68837	1.421823	.7217599

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.55897	^ *****	.0103675	.0166608	2.303203	3.031881	13.33474
Stddev	.18717	-----	.0001820	.0003365	.001998	.014582	.00882
%RSD	.5748743	-----	1.755341	2.019969	.0867444	.4809402	.0661357
#1	32.60279	^ -----	.0102340	.0170410	2.301229	3.038222	13.34357
#2	32.72034	^ -----	.0105748	.0165407	2.305224	3.042219	13.32593
#3	32.35377	^ -----	.0102936	.0164008	2.303156	3.015203	13.33472

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2705-05 Acquired: 7/29/2025 15:23:43 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**4.618253**	**.3139132**	**-.670043**
Stddev	.032510	.0033092	.002210
%RSD	.7039445	1.054178	.3297772
#1	4.631713	.3141407	-.672594
#2	4.581174	.3104961	-.668728
#3	4.641871	.3171027	-.668807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5401.177**	**92238.16**	**9113.438**	**4468.449**	**5514.011**
Stddev	13.301	400.86	38.439	13.439	18.192
%RSD	.2462554	.4345970	.4217836	.3007481	.3299234
#1	5404.554	92143.84	9070.839	4463.392	5526.151
#2	5412.463	91892.87	9145.534	4458.271	5522.787
#3	5386.513	92677.77	9123.939	4483.682	5493.094

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-01 Acquired: 7/29/2025 15:27:53 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0877070	.0048032	.3333985	-.003179	-.016612	168.7015	1.854721
Stddev	.0026461	.0010179	.0012806	.003086	.002249	.2238	.005817
%RSD	3.017012	21.19324	.3840962	97.08445	13.53970	.1326456	.3136442
#1	.0902573	.0058365	.3344657	-.003721	-.016339	168.4901	1.851751
#2	.0849744	.0038014	.3337513	.000142	-.014513	168.6787	1.850990
#3	.0878892	.0047716	.3319785	-.005959	-.018986	168.9359	1.861424

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195723	.0448853	172.1752	.3203687	.2706573	.4138354	393.7506
Stddev	.0003156	.0006004	.1550	.0013053	.0011922	.0018697	1.7993
%RSD	1.612290	1.337733	.0900339	.4074314	.4404815	.4517921	.4569658
#1	.0198710	.0448835	172.3138	.3206618	.2708276	.4139185	391.7069
#2	.0196037	.0442858	172.0078	.3215025	.2693890	.4119256	394.4483
#3	.0192422	.0454867	172.2041	.3189418	.2717551	.4156622	395.0965

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.22003	95.51455	.5577481	-.001225	3.566256	.4510476	1.297624
Stddev	.01729	.12357	.0030016	.000742	.018402	.0010238	.002382
%RSD	.1540784	.1293754	.5381719	60.61365	.5160013	.2269876	.1835714
#1	11.20737	95.41846	.5578907	-.002082	3.545858	.4519468	1.297827
#2	11.21299	95.65394	.5546776	-.000807	3.571301	.4499333	1.299899
#3	11.23973	95.47124	.5606758	-.000786	3.581609	.4512626	1.295148

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.76289	-.110134	.0080742	.0137949	4.599848	2.450852	10.54776
Stddev	.07250	.008011	.0003768	.0006859	.013376	.021858	.04877
%RSD	.2814221	7.273548	4.666911	4.971844	.2908017	.8918378	.4623437
#1	25.68436	-.118271	.0077333	.0130067	4.584641	2.446217	10.54580
#2	25.77704	-.109873	.0080106	.0141224	4.609796	2.474655	10.50001
#3	25.82728	-.102256	.0084788	.0142557	4.605107	2.431684	10.59748

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-01 Acquired: 7/29/2025 15:27:53 Type: Unk
Method: 6010-200.7 NEW(v66) 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	1.127287	.9088462	.0524896
Stddev	.008613	.0042001	.0013626
%RSD	.7640824	.4621387	2.595977
#1	1.120482	.9045333	.0538684
#2	1.124408	.9090815	.0511437
#3	1.136971	.9129237	.0524567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5758.737	98461.86	8932.606	4763.277	5353.042
Stddev	6.247	233.21	20.902	12.693	13.755
%RSD	.1084853	.2368536	.2339920	.2664757	.2569541
#1	5760.279	98696.73	8911.241	4775.754	5356.381
#2	5764.069	98230.35	8933.565	4750.378	5364.819
#3	5751.863	98458.51	8953.011	4763.698	5337.925

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-03 Acquired: 7/29/2025 15:31:56 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0707513	.0051417	.2993881	-.001096	-.016175	140.0360	2.068672
Stddev	.0007268	.0041507	.0014812	.001329	.000965	.2057	.003050
%RSD	1.027215	80.72667	.4947568	121.2495	5.968415	.1469120	.1474614
#1	.0715722	.0044958	.2990733	.000115	-.016029	140.0430	2.066825
#2	.0704918	.0013518	.2980895	-.002517	-.015291	139.8268	2.066998
#3	.0701899	.0095776	.3010014	-.000885	-.017206	140.2381	2.072193

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155952	.0344294	65.56031	.2415474	.1951205	.3395568	325.7568
Stddev	.0001956	.0006761	.08193	.0025444	.0007097	.0024431	3.2219
%RSD	1.254394	1.963604	.1249632	1.053382	.3637496	.7194914	.9890370
#1	.0158169	.0343453	65.46822	.2422337	.1946103	.3382803	325.7209
#2	.0154468	.0337993	65.62509	.2436783	.1948201	.3380165	328.9964
#3	.0155218	.0351436	65.58764	.2387302	.1959310	.3423737	322.5530

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.025416	64.12379	.3869851	.0034842	2.387071	.3541390	1.128781
Stddev	.017394	.13238	.0014755	.0009272	.040985	.0011971	.015018
%RSD	.2167325	.2064479	.3812787	26.61098	1.716945	.3380281	1.330502
#1	8.010800	64.00580	.3860068	.0026244	2.401729	.3537178	1.139694
#2	8.020794	64.09862	.3862661	.0033616	2.418712	.3532095	1.134996
#3	8.044654	64.26695	.3886822	.0044665	2.340773	.3554898	1.111652

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.34362	-.092275	.0051519	.0170434	3.336249	2.389871	7.006703
Stddev	.21317	.009061	.0008327	.0007359	.007635	.021386	.030860
%RSD	1.229085	9.819472	16.16300	4.317784	.2288521	.8948565	.4404295
#1	17.34340	-.095920	.0059637	.0178029	3.328001	2.399379	7.020927
#2	17.55690	-.081959	.0051921	.0163336	3.343070	2.404854	6.971296
#3	17.13056	-.098946	.0042997	.0169937	3.337677	2.365380	7.027885

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-03 Acquired: 7/29/2025 15:31:56 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.6966117	.4980502	-.107822
Stddev	.0015813	.0038184	.003184
%RSD	.2270018	.7666675	2.952918
#1	.6948479	.4937552	-.107894
#2	.6979027	.4993346	-.110970
#3	.6970845	.5010608	-.104603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5926.936	104500.7	9499.222	4992.978	5596.750
Stddev	18.412	1093.2	8.830	66.857	28.838
%RSD	.3106560	1.046100	.0929595	1.339012	.5152609
#1	5936.678	104325.7	9498.136	4958.150	5609.722
#2	5938.432	103505.6	9508.545	4950.725	5616.823
#3	5905.700	105670.8	9490.985	5070.058	5563.704

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169032BL Acquired: 7/29/2025 15:36:01 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.002229**	**-.001150**	**.0000118**	**.0003224**	**-.001203**	**.0070023**
Stddev	.002557	.001024	.0008222	.0002355	.001546	.0051712
%RSD	114.6881	89.06089	6975.584	73.04193	128.5491	73.85002
#1	-.002425	-.000825	-.000413	.0005774	.000320	.0037855
#2	.000420	-.002297	.000960	.0002766	-.001157	.0042540
#3	-.004682	-.000327	-.000511	.0001132	-.002771	.0129673

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010449**	**.0000892**	**.0001235**	**.0166910**	**-.000200**	**.0000467**
Stddev	.0008862	.0000260	.0000443	.0134419	.000177	.0001827
%RSD	84.81886	29.08387	35.90565	80.53390	88.27672	391.4985
#1	.0003335	.0001082	.0001665	.0033332	-.000313	.0001278
#2	.0020376	.0000597	.0001259	.0165244	-.000291	-.000163
#3	.0007635	.0000999	.0000780	.0302155	.000003	.000175

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000088**	**.0411100**	**-.000049**	**.0293459**	**.0002755**	**.0007567**
Stddev	.000141	.0060862	.000524	.0392643	.0000550	.0001133
%RSD	161.1565	14.80476	1070.478	133.7980	19.97872	14.97496
#1	.000002	.0471798	.000535	.0497306	.0002674	.0008213
#2	-.000251	.0411428	-.000478	.0542255	.0002249	.0008228
#3	-.000015	.0350074	-.000204	-.015918	.0003341	.0006258

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.268123**	**-.006853**	**-.000013**	**-.204565**	**.0014236**	**-.000181**
Stddev	.010141	.001947	.000128	.019998	.0006466	.000095
%RSD	3.782279	28.41347	974.7531	9.775627	45.42160	52.48534
#1	-.271190	-.004933	.000112	-.216286	.0007524	-.000102
#2	-.256802	-.006799	-.000144	-.215935	.0020424	-.000155
#3	-.276376	-.008827	-.000008	-.181475	.0014758	-.000286

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169032BL Acquired: 7/29/2025 15:36:01 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.000248**	**.0150133**	**-.001702**	**-.001170**	**-.000419**	F **-.010059**
Stddev	.000072	.0013843	.004194	.001641	.002218	.003223
%RSD	29.03222	9.220458	246.4269	140.2267	528.8974	32.04573
#1	-.000314	.0142861	-.001741	-.002414	-.001772	-.010076
#2	-.000259	.0141441	.002512	.000690	.002141	-.013273
#3	-.000171	.0166096	-.005876	-.001787	-.001628	-.006826

Elem	Sr4077
Units	ppm
Avg	**-.000134**
Stddev	.000061
%RSD	45.11809
#1	-.000127
#2	-.000077
#3	-.000198

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5299.785**	**91063.41**	**7509.579**	**4420.856**	**6779.792**
Stddev	11.905	333.11	22.978	22.896	21.716
%RSD	.2246272	.3658028	.3059870	.5179114	.3203025
#1	5311.299	90968.12	7526.307	4415.523	6802.463
#2	5300.531	91433.78	7519.051	4445.948	6777.733
#3	5287.524	90788.33	7483.378	4401.097	6759.178

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-01 Acquired: 7/29/2025 15:44:20 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.005624**	**-.000991**	**.0034096**	**.0043497**	**-.000129**	**.0587142**	**.0046697**
Stddev	.000556	.000354	.0006367	.0011902	.000723	.0019366	.0016612
%RSD	9.877370	35.77196	18.67472	27.36303	561.0433	3.298308	35.57365
#1	-.005097	-.001384	.0041107	.0056960	.000683	.0608250	.0045104
#2	-.006204	-.000695	.0032506	.0039161	-.000704	.0570195	.0064047
#3	-.005570	-.000893	.0028674	.0034371	-.000365	.0582982	.0030938

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000189**	**.0003739**	**4.877673**	**.0008393**	**.0071706**	**.1955344**	**1.514942**
Stddev	.0000549	.0000161	.020091	.0001546	.0002266	.0003133	.013272
%RSD	291.4919	4.310532	.4118946	18.42320	3.160657	.1602160	.8761040
#1	.0000303	.0003567	4.855592	.0008788	.0073494	.1953171	1.518543
#2	-.000041	.0003886	4.894876	.0009703	.0069157	.1953927	1.500241
#3	.000067	.0003764	4.882551	.0006687	.0072468	.1958935	1.526042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189030**	**1.783082**	**.0098056**	**.0008152**	**14.44577**	**-.001452**	**.0360305**
Stddev	.0005240	.007873	.0001367	.0001387	.10134	.001661	.0000625
%RSD	2.771865	.4415144	1.394545	17.01145	.7015345	114.4092	.1735449
#1	.0194429	1.782010	.0097439	.0009590	14.48836	.000464	.0360886
#2	.0188696	1.775800	.0099624	.0006823	14.33008	-.002480	.0360387
#3	.0183966	1.791436	.0097106	.0008044	14.51886	-.002340	.0359643

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7511912**	**.0085360**	**.0001603**	**-.001714**	**.0120083**	**6.065339**	**.0050249**
Stddev	.0078956	.0002628	.0001288	.000442	.0022090	.062852	.0012611
%RSD	1.051076	3.079057	80.35737	25.80136	18.39598	1.036242	25.09679
#1	.7527384	.0085450	.0002201	-.001486	.0120886	6.133250	.0053385
#2	.7426364	.0087942	.0002484	-.002224	.0097602	6.009216	.0060996
#3	.7581986	.0082688	.0000125	-.001432	.0141760	6.053551	.0036366

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-01 Acquired: 7/29/2025 15:44:20 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.704935**	**-.011417**	**.0250535**
Stddev	.016591	.001059	.0000245
%RSD	.2908121	9.271490	.0976686
#1	5.693985	-.012618	.0250282
#2	5.696796	-.011015	.0250552
#3	5.724023	-.010618	.0250771

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5076.835**	**88793.66**	**7902.302**	**4294.118**	**6385.140**
Stddev	4.523	301.72	37.094	3.924	1.941
%RSD	.0890861	.3398044	.4694111	.0913811	.0304002
#1	5076.314	88692.49	7926.570	4297.982	6384.960
#2	5081.596	89132.97	7859.602	4290.136	6387.165
#3	5072.595	88555.53	7920.734	4294.235	6383.296

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-01 Acquired: 7/29/2025 15:48:36 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.006233**	**-.001990**	**.0011029**	**.0010256**	**.0018082**	**.0557903**	**.0068093**
Stddev	.002414	.002714	.0011602	.0020018	.0020938	.0100877	.0012634
%RSD	38.73791	136.3995	105.1881	195.1761	115.7923	18.08142	18.55472
#1	-.005992	-.002008	.0000975	.0005945	-.000587	.0498244	.0059156
#2	-.003948	.000733	.0023723	-.000725	.002718	.0501090	.0082548
#3	-.008758	-.004695	.0008390	.003208	.003293	.0674374	.0062575

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000038**	**.0003695**	**5.058157**	**.0005316**	**.0076141**	**.0056851**	**.1578134**
Stddev	.000029	.0001432	.011641	.0000189	.0000151	.0001820	.0094792
%RSD	75.73750	38.76843	.2301334	3.558575	.1983771	3.201635	6.006556
#1	-.000032	.0005175	5.071449	.0005468	.0076035	.0055886	.1549761
#2	-.000013	.0002316	5.049785	.0005376	.0076314	.0058951	.1500769
#3	-.000070	.0003593	5.053236	.0005104	.0076073	.0055717	.1683872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208943**	**1.858872**	**.0101056**	**.0007719**	**14.76689**	**-.002448**	**.0444905**
Stddev	.0000948	.039663	.0001932	.0004249	.10306	.001697	.0004831
%RSD	.4537818	2.133709	1.911304	55.05245	.6979405	69.32493	1.085857
#1	.0209806	1.891782	.0098884	.0009609	14.77233	-.001358	.0439327
#2	.0207928	1.870000	.0102582	.0002852	14.66121	-.001583	.0447759
#3	.0209095	1.814833	.0101701	.0010695	14.86712	-.004403	.0447629

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7985318**	**.0088977**	**.0003562**	**-.001541**	**.0103823**	**6.157076**	**.0050814**
Stddev	.0236800	.0007352	.0002530	.000428	.0006128	.063914	.0019777
%RSD	2.965437	8.262321	71.02381	27.78309	5.901889	1.038064	38.92148
#1	.8112811	.0083781	.0001801	-.002034	.0104018	6.151554	.0028090
#2	.7712089	.0097389	.0006460	-.001333	.0109850	6.096102	.0064140
#3	.8131056	.0085761	.0002424	-.001257	.0097600	6.223572	.0060212

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-01 Acquired: 7/29/2025 15:48:36 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.667967**	**-.011848**	**.0274887**
Stddev	.016375	.001958	.0000624
%RSD	.2888964	16.52783	.2269688
#1	5.655099	-.013220	.0275584
#2	5.662405	-.009606	.0274697
#3	5.686399	-.012719	.0274380

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5189.286**	**89872.23**	**7916.340**	**4317.489**	**6591.193**
Stddev	16.157	183.32	40.848	3.047	16.272
%RSD	.3113552	.2039769	.5160004	.0705651	.2468709
#1	5207.496	89931.64	7911.538	4314.432	6609.140
#2	5176.668	90018.48	7878.105	4320.526	6577.403
#3	5183.694	89666.58	7959.378	4317.509	6587.037

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-02 Acquired: 7/29/2025 15:52:52 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.007125**	**-.002105**	**.0012407**	**.0009583**	**.0007208**	**.0532295**	**.0061948**
Stddev	.002965	.001085	.0001192	.0003075	.0004931	.0046159	.0005565
%RSD	41.61243	51.55706	9.607121	32.09191	68.40914	8.671755	8.983257
#1	-.009046	-.000904	.0013768	.0006388	.0006607	.0483846	.0057515
#2	-.003710	-.002394	.0011554	.0009839	.0012412	.0537279	.0060135
#3	-.008619	-.003016	.0011897	.0012522	.0002605	.0575760	.0068193

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000031**	**.0002586**	**5.072276**	**.0003891**	**.0076330**	**.0058449**	**.1594412**
Stddev	.000044	.0002791	.026191	.0000967	.0000322	.0001532	.0031078
%RSD	141.9554	107.9423	.5163652	24.85896	.4212265	2.621370	1.949155
#1	-.000069	-.000042	5.090269	.0004045	.0075959	.0059156	.1566042
#2	.000017	.000309	5.084331	.0002855	.0076517	.0059499	.1627628
#3	-.000041	.000509	5.042227	.0004771	.0076514	.0056691	.1589566

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221731**	**1.833531**	**.0105573**	**.0008610**	**14.49790**	**-.004402**	**.0428572**
Stddev	.0005504	.045996	.0000651	.0004887	.12416	.003784	.0002245
%RSD	2.482311	2.508592	.6170089	56.76469	.8563847	85.96897	.5239126
#1	.0215833	1.868713	.0105067	.0002966	14.36006	-.003168	.0430193
#2	.0222631	1.850396	.0105343	.0011437	14.60095	-.008649	.0426009
#3	.0226731	1.781483	.0106308	.0011427	14.53270	-.001389	.0429514

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8187552**	**.0087269**	**.0004234**	**-.002023**	**.0130136**	**6.091813**	**.0066029**
Stddev	.0178660	.0004189	.0000999	.000215	.0016709	.026411	.0014132
%RSD	2.182091	4.800401	23.60386	10.62275	12.83971	.4335568	21.40210
#1	.8380793	.0091960	.0003612	-.001912	.0115148	6.063468	.0081400
#2	.8028379	.0085945	.0005386	-.002271	.0148152	6.115731	.0053601
#3	.8153485	.0083902	.0003702	-.001887	.0127109	6.096242	.0063084

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-02 Acquired: 7/29/2025 15:52:52 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.858083**	**-.012423**	**.0277541**
Stddev	.008729	.001448	.0001390
%RSD	.1490156	11.65842	.5007977
#1	5.848003	-.010751	.0278840
#2	5.863175	-.013234	.0277708
#3	5.863071	-.013285	.0276075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5062.207**	**87834.43**	**7652.976**	**4280.508**	**6357.412**
Stddev	5.885	491.96	40.227	14.710	7.047
%RSD	.1162468	.5601021	.5256426	.3436478	.1108479
#1	5055.497	88394.56	7616.400	4275.876	6351.598
#2	5066.489	87472.41	7646.467	4296.976	6355.388
#3	5064.635	87636.32	7696.061	4268.671	6365.249

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-03 Acquired: 7/29/2025 15:57:09 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.004209**	**-.001232**	**.0008783**	**.0017486**	**.0002920**	**.0030012**	**.0022580**
Stddev	.000135	.000172	.0010943	.0018679	.0009782	.0024305	.0008445
%RSD	3.197589	13.94770	124.5904	106.8254	334.9623	80.98422	37.39989
#1	-.004217	-.001251	.0010704	.0008212	-.000820	.0014431	.0032153
#2	-.004339	-.001052	-.000299	.0005258	.000674	.0058018	.0019401
#3	-.004071	-.001394	.001864	.0038987	.001021	.0017588	.0016186

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000157**	**.0000751**	**1.042283**	**-.000128**	**.0014347**	**.0012173**	**.0268360**
Stddev	.0000140	.0000548	.011402	.000219	.0002414	.0003016	.0106159
%RSD	89.33634	73.00028	1.093954	170.2831	16.82686	24.77553	39.55844
#1	.0000133	.0000826	1.054790	-.000162	.0016008	.0009452	.0380411
#2	.0000030	.0001259	1.032467	.000105	.0015456	.0011652	.0169285
#3	.0000307	.0000169	1.039592	-.000329	.0011578	.0015416	.0255385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035445**	**.3997799**	**.0022459**	**.0008138**	**2.476865**	**-.004615**	**.0087057**
Stddev	.0004305	.0117228	.0001744	.0003744	.002821	.000870	.0000677
%RSD	12.14537	2.932323	7.765659	46.01114	.1138952	18.85164	.7779144
#1	.0031159	.4130912	.0023639	.0009472	2.474155	-.003618	.0087066
#2	.0039768	.3909955	.0020456	.0011031	2.479786	-.005220	.0087730
#3	.0035407	.3952530	.0023282	.0003909	2.476655	-.005006	.0086376

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0519941**	**.0019947**	**-.000057**	**-.000883**	**.0148151**	**1.159989**	**-.000811**
Stddev	.0193956	.0011774	.000132	.000120	.0006822	.013504	.001739
%RSD	37.30343	59.02874	231.7843	13.62623	4.604955	1.164108	214.4351
#1	.0451019	.0032974	-.000170	-.000995	.0140320	1.169371	.001197
#2	.0369859	.0016801	-.000089	-.000899	.0152805	1.144512	-.001804
#3	.0738946	.0010065	.000088	-.000756	.0151329	1.166083	-.001826

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2704-03 Acquired: 7/29/2025 15:57:09 Type: Unk
Method: 6010-200.7 NEW(v66) 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	1.208162	-.010534	.0055581
Stddev	.002534	.001819	.0000593
%RSD	.2097473	17.26828	1.067735
#1	1.208261	-.010301	.0055710
#2	1.210645	-.012459	.0056099
#3	1.205580	-.008844	.0054934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5176.141	90440.33	7542.845	4367.282	6519.996
Stddev	16.319	203.33	66.321	11.103	22.923
%RSD	.3152678	.2248171	.8792569	.2542345	.3515839
#1	5185.343	90315.64	7512.939	4372.811	6534.190
#2	5185.782	90330.41	7496.743	4354.500	6532.248
#3	5157.300	90674.96	7618.853	4374.536	6493.550

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169032BS Acquired: 7/29/2025 16:06:31 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.7746013**	**1.993338**	**.9363660**	**1.985823**	**.8909240**	**2.021637**
Stddev	.0031853	.041758	.0017383	.012668	.0033533	.004232
%RSD	.4112185	2.094877	.1856478	.6379285	.3763816	.2093480
#1	.7779419	1.978787	.9377998	1.990584	.8926886	2.021991
#2	.7715982	1.960802	.9368658	1.971464	.8870569	2.017238
#3	.7742638	2.040424	.9344326	1.995420	.8930266	2.025681

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2125218**	**.2164651**	F **.1581242**	**1.126638**	**.3856804**	**.1982260**
Stddev	.0006391	.0007012	.0002515	.008428	.0007122	.0001915
%RSD	.3007076	.3239242	.1590392	.7480442	.1846465	.0966089
#1	.2125767	.2165811	.1584110	1.134464	.3861040	.1984355
#2	.2131317	.2157131	.1579416	1.127736	.3848582	.1981822
#3	.2118571	.2171010	.1580200	1.117716	.3860789	.1980601

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3139687**	**3.009790**	**.2145650**	**2.010626**	**.4981981**	**.0782721**
Stddev	.0003279	.014970	.0013304	.017335	.0002863	.0002663
%RSD	.1044484	.4973778	.6200410	.8621911	.0574587	.3402653
#1	.3143434	3.020715	.2149015	1.994205	.4979047	.0780271
#2	.3137340	2.992726	.2156948	2.008924	.4984766	.0785556
#3	.3138288	3.015929	.2130986	2.028750	.4982131	.0782336

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.859807**	**.2986748**	**.2164958**	**9.725010**	**.3214283**	**.4438794**
Stddev	.014505	.0018836	.0012181	.047828	.0024271	.0020544
%RSD	.5072162	.6306637	.5626417	.4918020	.7550962	.4628229
#1	2.860814	.2998704	.2156849	9.703302	.3189273	.4427320
#2	2.873782	.2996506	.2159059	9.779843	.3215836	.4426549
#3	2.844824	.2965035	.2178965	9.691887	.3237740	.4462511

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169032BS Acquired: 7/29/2025 16:06:31 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7173441	.2186970	.8575764	5.495100	F .0026914	.1764813
Stddev	.0012670	.0012656	.0054870	.013593	.0027904	.0046728
%RSD	.1766222	.5786962	.6398273	.2473716	103.6787	2.647764
#1	.7173556	.2174551	.8515823	5.489086	.0013272	.1733082
#2	.7160714	.2186508	.8587957	5.510663	.0008456	.1818472
#3	.7186052	.2199850	.8623511	5.485551	.0059014	.1742884

Elem	Sr4077
Units	ppm
Avg	.2125638
Stddev	.0005542
%RSD	.2607267
#1	.2129302
#2	.2128351
#3	.2119263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5277.320	88714.99	7892.010	4308.698	6684.079
Stddev	8.489	208.86	13.107	9.496	7.836
%RSD	.1608634	.2354292	.1660742	.2203901	.1172326
#1	5269.607	88497.63	7877.445	4314.280	6676.716
#2	5286.416	88733.16	7902.853	4314.080	6683.208
#3	5275.936	88914.17	7895.732	4297.734	6692.315

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV03 Acquired: 7/29/2025 16:14:53 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.111019**	**5.072546**	**4.861293**	**5.222495**	**5.288114**	**10.05643**	**10.56664**
Stddev	.067588	.039267	.041396	.064935	.077695	.01839	.12510
%RSD	1.322399	.7740988	.8515388	1.243368	1.469237	.1829018	1.183908
#1	5.073293	5.043026	4.847245	5.181013	5.241834	10.07030	10.69550
#2	5.070715	5.057502	4.828750	5.189144	5.244694	10.06344	10.55876
#3	5.189048	5.117110	4.907885	5.297328	5.377813	10.03557	10.44567

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2656642**	**2.285610**	**26.82148**	**.9425607**	**2.475271**	**1.270125**	**5.021890**
Stddev	.0022206	.026267	.01389	.0007844	.023918	.014661	.045278
%RSD	.8358567	1.149248	.0517922	.0832193	.9662974	1.154330	.9016219
#1	.2669550	2.275020	26.82899	.9421519	2.464810	1.261858	5.001656
#2	.2669376	2.266291	26.80545	.9420653	2.458365	1.261464	4.990257
#3	.2631002	2.315519	26.82999	.9434651	2.502638	1.287053	5.073758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.617050**	**24.63629**	**2.475527**	**1.293798**	**22.98671**	**2.502213**	**2.616125**
Stddev	.005536	.04551	.022448	.002559	.19966	.001574	.009616
%RSD	.2115372	.1847473	.9067810	.1977634	.8686015	.0629017	.3675541
#1	2.620897	24.66487	2.466226	1.293824	22.84884	2.500401	2.609072
#2	2.619547	24.66019	2.459224	1.291227	22.89562	2.503238	2.612224
#3	2.610705	24.58380	2.501130	1.296344	23.21567	2.503000	2.627078

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.42783**	**5.376524**	**5.200744**	**4.889036**	**4.993899**	**4.733208**	**4.736112**
Stddev	.18930	.036014	.057097	.043319	.006768	.024161	.037042
%RSD	.7444745	.6698293	1.097855	.8860408	.1355196	.5104469	.7821161
#1	25.31912	5.399706	5.167144	4.869539	4.990951	4.715290	4.728553
#2	25.31796	5.394832	5.168418	4.858892	5.001641	4.723649	4.703433
#3	25.64642	5.335034	5.266669	4.938677	4.989106	4.760686	4.776351

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV03 Acquired: 7/29/2025 16:14:53 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**4.888215**	**4.914668**	**5.415734**
Stddev	.056909	.008589	.028010
%RSD	1.164206	.1747538	.5171894
#1	4.868066	4.918470	5.443201
#2	4.844122	4.920699	5.416791
#3	4.952457	4.904834	5.387211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5081.040**	**86372.59**	**7820.231**	**4149.129**	**6191.278**
Stddev	51.275	267.96	47.037	15.202	54.095
%RSD	1.009137	.3102412	.6014842	.3663888	.8737342
#1	5107.689	86426.08	7785.494	4159.120	6213.085
#2	5113.502	86609.77	7801.440	4156.634	6231.066
#3	5021.928	86081.92	7873.760	4131.635	6129.683

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB03 Acquired: 7/29/2025 16:20:32 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002073**	**-.000945**	**.0005984**	**-.001797**	**-.001660**	**-.009678**
Stddev	.004551	.000678	.0001237	.001129	.000933	.013588
%RSD	219.5471	71.80008	20.67644	62.80239	56.17547	140.4072
#1	.002396	-.001139	.0005999	-.000914	-.000888	-.001589
#2	-.006702	-.000190	.0007214	-.003069	-.002696	-.025365
#3	-.001913	-.001505	.0004740	-.001408	-.001396	-.002078

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000922**	**.0000235**	**.0001614**	**.0164179**	**-.000066**	**.0000033**
Stddev	.000588	.0000562	.0001283	.0084893	.000131	.0000568
%RSD	63.76182	239.4412	79.48890	51.70796	199.0906	1740.545
#1	-.001597	-.000020	.0000404	.0262205	.000045	-.000023
#2	-.000521	.000087	.0002959	.0114861	-.000211	.000068
#3	-.000648	.000004	.0001478	.0115471	-.000032	-.000036

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000154**	**-.001098**	**.0003684**	**.0198040**	**.0005993**	**.0012802**
Stddev	.000201	.002366	.0004314	.0034128	.0003011	.0003672
%RSD	130.6466	215.4234	117.1055	17.23302	50.24789	28.68203
#1	-.000385	.000413	-.000130	.0217100	.0003278	.0014760
#2	-.000057	.000117	.000627	.0218382	.0005469	.0008566
#3	-.000020	-.003825	.000608	.0158639	.0009232	.0015079

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.230146**	**-.003587**	**.0002765**	**-.187013**	**.0078770**	**.0005085**
Stddev	.000817	.001890	.0000344	.009792	.0002445	.0000703
%RSD	.3552099	52.68848	12.44986	5.236273	3.104138	13.82346
#1	-.230595	-.001446	.0002784	-.197407	.0077266	.0005745
#2	-.230640	-.004295	.0002412	-.177960	.0077452	.0005166
#3	-.229202	-.005022	.0003100	-.185671	.0081591	.0004346

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB03 Acquired: 7/29/2025 16:20:32 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000565**	**.0125379**	**-.012757**	**-.000020**	**-.000443**	F **-.011110**
Stddev	.0002751	.0022584	.002940	.002365	.000780	.000890
%RSD	486.8928	18.01235	23.04418	11657.82	176.0816	8.013659
#1	.0003253	.0131467	-.016046	-.001926	-.001017	-.011434
#2	-.000225	.0100375	-.011837	.002627	-.000758	-.011794
#3	.000069	.0144294	-.010387	-.000762	.000445	-.010104

Elem	Sr4077
Units	ppm
Avg	**.0001752**
Stddev	.0000184
%RSD	10.52299
#1	.0001539
#2	.0001860
#3	.0001856

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5334.091**	**89549.54**	**8184.433**	**4333.855**	**6909.104**
Stddev	10.989	355.58	141.901	12.930	15.202
%RSD	.2060148	.3970796	1.733788	.2983431	.2200342
#1	5328.968	89414.60	8024.065	4333.264	6905.799
#2	5346.706	89952.84	8235.508	4321.230	6925.686
#3	5326.599	89281.18	8293.726	4347.069	6895.825

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02 Acquired: 7/29/2025 16:24:52 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.8004998	2.027527	.9330786	1.993698	.8713802	2.169338	.2244849
Stddev	.0030039	.007766	.0056216	.012491	.0017134	.014542	.0015360
%RSD	.3752566	.3830128	.6024768	.6265293	.1966323	.6703237	.6842130
#1	.7980702	2.035251	.9270439	1.985972	.8694038	2.183202	.2235049
#2	.7995709	2.019720	.9340251	1.987012	.8722888	2.154202	.2262551
#3	.8038585	2.027609	.9381669	2.008109	.8724479	2.170609	.2236948

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2210800	.1578821	6.062081	.3947726	.2109265	.3246138	3.224462
Stddev	.0019370	.0004067	.009407	.0014998	.0006892	.0009108	.026816
%RSD	.8761439	.2575936	.1551704	.3799240	.3267634	.2805857	.8316413
#1	.2196602	.1574561	6.072833	.3939556	.2102064	.3236195	3.245282
#2	.2232866	.1579239	6.058038	.3938586	.2109929	.3248142	3.194203
#3	.2202933	.1582663	6.055371	.3965035	.2115801	.3254078	3.233901

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445497	3.799264	.5161416	.0778415	16.80776	.3178428	.2904388
Stddev	.0004269	.022096	.0028629	.0004007	.18853	.0018707	.0009903
%RSD	.1745752	.5815924	.5546643	.5147280	1.121708	.5885482	.3409666
#1	.2442205	3.781671	.5129032	.0775173	16.91432	.3164720	.2901062
#2	.2450321	3.792058	.5171858	.0777176	16.59008	.3170825	.2896576
#3	.2443964	3.824064	.5183358	.0782894	16.91889	.3199739	.2915526

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.98350	.3179670	.4608463	.7005199	.2211287	6.665094	5.406758
Stddev	.08674	.0019702	.0017388	.0040614	.0010268	.089250	.020156
%RSD	.7897159	.6196256	.3773004	.5797697	.4643625	1.339072	.3727991
#1	11.03819	.3174195	.4590585	.6961619	.2216683	6.718803	5.385965
#2	10.88349	.3201531	.4609490	.7011987	.2199446	6.562068	5.408099
#3	11.02882	.3163285	.4625315	.7041992	.2217733	6.714412	5.426210

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02 Acquired: 7/29/2025 16:24:52 Type: Unk
Method: 6010-200.7 NEW(v66) 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	5.396637	.1795336	.2496223
Stddev	.024124	.0004883	.0002728
%RSD	.4470109	.2720036	.1092999
#1	5.371150	.1797283	.2493140
#2	5.399644	.1798946	.2498327
#3	5.419115	.1789780	.2497201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5132.835	89389.74	7764.441	4218.960	6539.839
Stddev	5.844	40.33	79.262	8.712	12.024
%RSD	.1138495	.0451148	1.020833	.2064911	.1838614
#1	5139.215	89359.11	7814.148	4221.801	6553.720
#2	5131.546	89374.69	7673.034	4209.183	6533.169
#3	5127.743	89435.43	7806.140	4225.897	6532.628

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02DUP Acquired: 7/29/2025 16:28:50 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7957791	2.005996	.9250691	1.990026	.8542629	2.143837	.2222857
Stddev	.0049654	.042058	.0017869	.012727	.0046003	.006379	.0008296
%RSD	.6239644	2.096609	.1931602	.6395498	.5385134	.2975521	.3732050
#1	.7915503	1.962038	.9231522	1.985727	.8522867	2.136615	.2214213
#2	.7945405	2.010096	.9253666	1.980004	.8509808	2.146193	.2230754
#3	.8012466	2.045853	.9266886	2.004345	.8595211	2.148703	.2223604

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2126149	.1563532	6.109849	.3983615	.2094816	.3222230	3.400221
Stddev	.0010599	.0005196	.015522	.0017711	.0008222	.0016847	.024520
%RSD	.4985095	.3323442	.2540534	.4445857	.3925135	.5228292	.7211276
#1	.2123644	.1559440	6.097949	.3971466	.2092250	.3218385	3.383582
#2	.2137776	.1561777	6.127407	.4003936	.2088184	.3207638	3.388702
#3	.2117027	.1569378	6.104192	.3975442	.2104016	.3240667	3.428380

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2439308	3.841215	.5118267	.0782886	18.34798	.3131314	.2749953
Stddev	.0003385	.035901	.0012546	.0004075	.14879	.0031253	.0007473
%RSD	.1387673	.9346389	.2451227	.5205227	.8109115	.9980696	.2717523
#1	.2440576	3.811993	.5112405	.0781810	18.36758	.3108531	.2758582
#2	.2441875	3.830362	.5109724	.0779457	18.19037	.3118470	.2745576
#3	.2435472	3.881291	.5132670	.0787391	18.48599	.3166943	.2745701

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.59038	.3043909	.4547211	.6997280	.2143343	7.210437	5.326387
Stddev	.11438	.0014351	.0030293	.0022996	.0021946	.074923	.018409
%RSD	.9868299	.4714484	.6661911	.3286374	1.023894	1.039088	.3456162
#1	11.55200	.3028025	.4524907	.6992682	.2120633	7.193755	5.308040
#2	11.50013	.3055939	.4535026	.6976930	.2164435	7.145262	5.326265
#3	11.71901	.3047763	.4581699	.7022227	.2144959	7.292295	5.344857

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02DUP Acquired: 7/29/2025 16:28:50 Type: Unk
Method: 6010-200.7 NEW(v66) 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	5.507835	.1799360	.2465798
Stddev	.034464	.0025261	.0007036
%RSD	.6257289	1.403906	.2853326
#1	5.483949	.1773583	.2463799
#2	5.492213	.1800425	.2459978
#3	5.547344	.1824072	.2473617

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5142.223	86065.98	7995.857	4146.022	6561.481
Stddev	34.383	246.08	34.035	11.069	40.825
%RSD	.6686352	.2859179	.4256525	.2669729	.6221936
#1	5162.800	86262.77	8015.766	4137.003	6586.249
#2	5161.338	86145.10	7956.558	4158.374	6583.833
#3	5102.530	85790.07	8015.245	4142.687	6514.361

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02LX5 Acquired: 7/29/2025 16:32:48 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.8163159	1.975027	.9407681	2.040993	.9330271	2.189595	.2264198
Stddev	.0054816	.016918	.0025922	.009590	.0050474	.020409	.0019758
%RSD	.6715059	.8566108	.2755351	.4698544	.5409662	.9320929	.8726163
#1	.8191078	1.983875	.9402741	2.036582	.9297071	2.178128	.2260166
#2	.8100004	1.985687	.9384585	2.034403	.9305387	2.213158	.2246767
#3	.8198395	1.955519	.9435716	2.051995	.9388355	2.177497	.2285661

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2175361	.1579556	6.213351	.4040047	.2133355	.3287166	3.358085
Stddev	.0004067	.0004273	.017426	.0028051	.0005967	.0021052	.004693
%RSD	.1869575	.2705148	.2804625	.6943194	.2796986	.6404361	.1397402
#1	.2178458	.1580706	6.206721	.4062762	.2136293	.3285491	3.363371
#2	.2176869	.1574826	6.200213	.4048687	.2126489	.3267001	3.356475
#3	.2170755	.1583136	6.233119	.4008693	.2137284	.3309005	3.354409

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2474327	3.866179	.5251042	.0785106	18.02960	.3186913	.2690836
Stddev	.0003522	.015072	.0017882	.0004449	.01520	.0035079	.0002027
%RSD	.1423480	.3898449	.3405502	.5666110	.0843108	1.100731	.0753202
#1	.2470593	3.881346	.5246339	.0787361	18.04110	.3149002	.2691732
#2	.2477590	3.851203	.5235980	.0779981	18.03533	.3193515	.2688516
#3	.2474798	3.865989	.5270805	.0787975	18.01236	.3218222	.2692261

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.40524	.3109622	.4923982	.7445154	.2325229	7.153964	5.441691
Stddev	.05794	.0019331	.0024604	.0031519	.0012908	.012084	.022513
%RSD	.5080211	.6216518	.4996737	.4233490	.5551225	.1689184	.4137063
#1	11.33980	.3126520	.4916089	.7421302	.2335695	7.152912	5.447480
#2	11.42593	.3113804	.4904293	.7433273	.2329186	7.166539	5.416849
#3	11.45000	.3088542	.4951564	.7480887	.2310806	7.142440	5.460744

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02LX5 Acquired: 7/29/2025 16:32:48 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.616585**	**.1818214**	**.2528360**
Stddev	.011201	.0013926	.0007480
%RSD	.1994253	.7659360	.2958240
#1	5.616877	.1813594	.2522979
#2	5.605242	.1807185	.2525200
#3	5.627638	.1833863	.2536901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5073.469**	**88437.30**	**7919.153**	**4176.692**	**6461.834**
Stddev	19.655	56.26	6.519	11.475	20.278
%RSD	.3874173	.0636104	.0823194	.2747357	.3138195
#1	5075.770	88374.65	7912.887	4184.186	6467.155
#2	5091.872	88483.49	7925.899	4182.408	6478.922
#3	5052.764	88453.76	7918.674	4163.482	6439.426

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02MS Acquired: 7/29/2025 16:36:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.0009806**	**-.000700**	**.0023823**	**-.006213**	**-.000672**	**2.198761**
Stddev	.0033197	.001877	.0016225	.001765	.000838	.028681
%RSD	338.5497	268.3696	68.10674	28.40047	124.6661	1.304396
#1	.0046116	.000554	.0036459	-.008125	-.000572	2.173764
#2	.0002290	-.002858	.0029485	-.005867	.000111	2.192445
#3	-.001899	.000206	.0005526	-.004647	-.001555	2.230073

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3054348**	**.0001367**	**.0022576**	**385.3742**	**.0039619**	**.0109215**
Stddev	.0013021	.0000318	.0001910	2.3988	.0002019	.0004325
%RSD	.4263077	23.22979	8.460336	.6224489	5.095496	3.960109
#1	.3060847	.0001233	.0022164	385.8701	.0037937	.0104530
#2	.3062841	.0001138	.0024658	387.4863	.0041858	.0110059
#3	.3039357	.0001730	.0020905	382.7663	.0039063	.0113056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0234386**	**48.92255**	**8.533795**	**52.24960**	**.0191654**	**.0029961**
Stddev	.0004765	.43378	.027436	.06130	.0002627	.0001511
%RSD	2.032989	.8866685	.3214961	.1173301	1.370516	5.044353
#1	.0238591	48.58177	8.544936	52.31794	.0188641	.0029035
#2	.0235357	48.77504	8.553908	52.19945	.0192861	.0031705
#3	.0229210	49.41085	8.502541	52.23141	.0193460	.0029144

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**462.5503**	**.0052161**	**.1071455**	**33.50003**	**.1080562**	**.0096291**
Stddev	.9758	.0028845	.0000882	.32913	.0016557	.0001323
%RSD	.2109707	55.30034	.0823224	.9824649	1.532274	1.373735
#1	463.4782	.0079328	.1070443	33.21560	.1062414	.0095359
#2	462.6401	.0021889	.1072063	33.42396	.1084429	.0097805
#3	461.5327	.0055264	.1071858	33.86054	.1094843	.0095709

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02MS Acquired: 7/29/2025 16:36:45 Type: Unk
Method: 6010-200.7 NEW(v66) 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	-.002405	.0621767	F 18.12476	.2704096	F 188.4406	.0576797
Stddev	.000656	.0016150	.14841	.0045641	.7740	.0040538
%RSD	27.26162	2.597489	.8188172	1.687847	.4107579	7.028199
#1	-.002788	.0631089	17.99201	.2651669	187.8938	.0559005
#2	-.001648	.0631094	18.09728	.2725659	188.1016	.0623189
#3	-.002780	.0603118	18.28499	.2734960	189.3263	.0548196

Elem	Sr4077
Units	ppm
Avg	1.245029
Stddev	.003515
%RSD	.2823184
#1	1.243432
#2	1.249059
#3	1.242596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4468.825	80088.28	7766.702	3680.949	5308.142
Stddev	12.710	165.01	71.635	4.981	14.647
%RSD	.2844247	.2060306	.9223296	.1353112	.2759439
#1	4467.486	80239.55	7724.429	3678.178	5301.743
#2	4482.153	80112.96	7726.264	3686.700	5324.900
#3	4456.838	79912.32	7849.411	3677.971	5297.783

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02MSD Acquired: 7/29/2025 16:41:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0050227	-.003379	.0035639	.0050183	.0105887	1.439190
Stddev	.0033159	.000841	.0016898	.0019932	.0028574	.011197
%RSD	66.01877	24.90289	47.41415	39.71889	26.98554	.7779842
#1	.0012155	-.003696	.0053965	.0044235	.0136814	1.434444
#2	.0072789	-.004016	.0032276	.0072412	.0100380	1.431148
#3	.0065737	-.002425	.0020675	.0033902	.0080468	1.451978

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2609855	-.000301	.0015901	135.8819	.0038278	.0018429
Stddev	.0011243	.000037	.0001596	.7658	.0000926	.0002280
%RSD	.4307798	12.39055	10.03924	.5636007	2.419619	12.37260
#1	.2621029	-.000258	.0014073	136.6393	.0039321	.0015799
#2	.2598544	-.000329	.0017018	135.1079	.0037958	.0019637
#3	.2609993	-.000314	.0016613	135.8986	.0037554	.0019850

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268512	3.493527	4.789826	11.44856	.0090464	.0013397
Stddev	.0001294	.028026	.034471	.18925	.0001165	.0002328
%RSD	.4819654	.8022343	.7196749	1.653020	1.287926	17.37815
#1	.0267514	3.463744	4.826342	11.66700	.0089365	.0015482
#2	.0269974	3.519382	4.757849	11.34457	.0091685	.0013824
#3	.0268049	3.497457	4.785286	11.33410	.0090342	.0010884

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1832.709	.0018055	.0750548	30.87864	.0847700	.1000741
Stddev	12.689	.0010961	.0007346	.58692	.0008257	.0008901
%RSD	.6923508	60.70914	.9787288	1.900745	.9740513	.8894320
#1	1823.700	.0010905	.0758567	30.21341	.0854960	.0998380
#2	1827.206	.0030675	.0748932	31.09908	.0838718	.0993258
#3	1847.220	.0012585	.0744144	31.32342	.0849424	.1010584

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02MSD Acquired: 7/29/2025 16:41:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	-.001504	.0415866	F 15.10780	.2581238	9.400865	.0173604
Stddev	.000964	.0013674	.12307	.0034725	.068174	.0023580
%RSD	64.08936	3.288011	.8146323	1.345292	.7251900	13.58240
#1	-.002539	.0400304	14.96627	.2582934	9.351426	.0187237
#2	-.000632	.0425958	15.18974	.2545696	9.372531	.0146377
#3	-.001342	.0421337	15.16738	.2615084	9.478637	.0187198

Elem	Sr4077
Units	ppm
Avg	.7235619
Stddev	.0015129
%RSD	.2090889
#1	.7219441
#2	.7237997
#3	.7249417

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4028.164	71107.88	7467.342	3290.495	4627.066
Stddev	27.468	213.24	124.586	8.021	22.477
%RSD	.6819087	.2998808	1.668415	.2437691	.4857705
#1	4055.971	70904.39	7324.880	3281.654	4646.415
#2	4027.472	71329.68	7555.902	3297.305	4632.373
#3	4001.048	71089.56	7521.242	3292.527	4602.411

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02A Acquired: 7/29/2025 16:45:28 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001478**	**-.002520**	**.0001946**	**.0064008**	**.0028797**	**.8746240**
Stddev	.004247	.000918	.0007001	.0017887	.0012792	.0107607
%RSD	287.2536	36.41414	359.8437	27.94540	44.42225	1.230325
#1	-.001251	-.001491	.0005420	.0043622	.0035596	.8870239
#2	-.005835	-.002816	.0006530	.0077078	.0036754	.8691133
#3	.002650	-.003253	-.000611	.0071324	.0014041	.8677349

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1729582**	**.0002403**	**.0017054**	**99.10455**	**.0020013**	**.0028022**
Stddev	.0002604	.0000082	.0001332	.29257	.0002733	.0004681
%RSD	.1505593	3.405373	7.811082	.2952101	13.65620	16.70474
#1	.1731955	.0002308	.0018566	99.00360	.0016983	.0026434
#2	.1729994	.0002455	.0016543	99.43422	.0022293	.0033291
#3	.1726796	.0002444	.0016054	98.87582	.0020762	.0024342

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186448**	**32.62348**	**1.479093**	**19.36200**	**.0133720**	**.0030886**
Stddev	.0002939	.03921	.003259	.05809	.0005513	.0004324
%RSD	1.576512	.1201802	.2203128	.3000085	4.122691	13.99972
#1	.0189811	32.59491	1.477931	19.36560	.0127423	.0026156
#2	.0185167	32.66818	1.482774	19.41821	.0137675	.0034636
#3	.0184367	32.60736	1.476575	19.30220	.0136062	.0031865

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1470.797**	**.0023514**	**.0865894**	**42.13128**	**.1199602**	**.0154460**
Stddev	15.099	.0022154	.0007867	.14859	.0002982	.0002615
%RSD	1.026597	94.21902	.9085329	.3526912	.2486129	1.693234
#1	1484.752	.0047656	.0866525	42.02806	.1202855	.0157400
#2	1472.869	.0018769	.0873427	42.30159	.1198957	.0153587
#3	1454.768	.0004116	.0857731	42.06419	.1196996	.0152393

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2696-02A Acquired: 7/29/2025 16:45:28 Type: Unk
Method: 6010-200.7 NEW(v66) 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	-.002789	.0356196	7.571498	.5919000	F 50.82580	.0322553
Stddev	.000356	.0014789	.033423	.0037723	.13880	.0004877
%RSD	12.74970	4.151801	.4414383	.6373215	.2730945	1.512104
#1	-.002821	.0347428	7.583800	.5912521	50.79979	.0328059
#2	-.003128	.0347890	7.597026	.5959543	50.97577	.0318773
#3	-.002419	.0373270	7.533667	.5884936	50.70185	.0320829

Elem	Sr4077
Units	ppm
Avg	.4355330
Stddev	.0013267
%RSD	.3046076
#1	.4343756
#2	.4369808
#3	.4352427

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4157.559	75238.40	8370.075	3464.128	4809.390
Stddev	17.192	509.53	43.351	22.218	10.305
%RSD	.4135088	.6772203	.5179291	.6413689	.2142627
#1	4151.507	74782.76	8325.880	3449.182	4805.159
#2	4144.211	75143.87	8371.815	3453.543	4801.874
#3	4176.958	75788.58	8412.530	3489.660	4821.137

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169048BL Acquired: 7/29/2025 16:55:40 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.004226**	**-.002062**	**.0011871**	**-.001574**	**-.000531**	**-.006710**
Stddev	.001922	.000844	.0005547	.000969	.001178	.006591
%RSD	45.49274	40.91836	46.73091	61.56688	221.7130	98.21843
#1	-.002024	-.002982	.0015425	-.002682	-.001289	-.013400
#2	-.005081	-.001324	.0014709	-.000886	-.001130	-.006509
#3	-.005573	-.001880	.0005479	-.001154	.000826	-.000223

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003341**	**.0000289**	**.0001080**	**.0079156**	**-.000073**	**.0000115**
Stddev	.001191	.0000623	.0000655	.0081942	.000100	.0001302
%RSD	35.65302	215.8402	60.66919	103.5187	137.5046	1135.051
#1	-.001976	-.000037	.0000367	-.000591	-.000128	.0001443
#2	-.004169	.000037	.0001219	.008580	.000043	-.000116
#3	-.003879	.000086	.0001655	.015757	-.000134	.000006

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000131**	**-.003521**	**.0000497**	**.0171506**	**.0001687**	**.0011413**
Stddev	.000102	.004882	.0001431	.0082240	.0003372	.0004726
%RSD	77.77206	138.6420	288.0179	47.95195	199.9194	41.41165
#1	-.000249	-.002476	-.000070	.0126704	.0003553	.0006381
#2	-.000069	.000753	.000011	.0266420	.0003713	.0012099
#3	-.000076	-.008842	.000208	.0121394	-.000221	.0015759

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7734169**	**-.001178**	**-.000303**	**.9386469**	**-.000648**	**-.000368**
Stddev	.0277844	.001829	.000181	.0514036	.000208	.000074
%RSD	3.592417	155.2743	59.62110	5.476351	32.17002	20.12258
#1	.7974489	.000888	-.000160	.9324648	-.000410	-.000283
#2	.7798078	-.001834	-.000243	.9928620	-.000731	-.000409
#3	.7429939	-.002588	-.000506	.8906140	-.000801	-.000414

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169048BL Acquired: 7/29/2025 16:55:40 Type: Unk
Method: 6010-200.7 NEW(v66) 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	-.000443	.0098314	-.009218	.0015258	F .0112840	.0052220
Stddev	.000319	.0014329	.000846	.0027942	.0042182	.0020671
%RSD	71.97542	14.57509	9.176548	183.1370	37.38191	39.58361
#1	-.000806	.0108382	-.010101	-.000780	.0157879	.0031926
#2	-.000310	.0104651	-.009139	.000724	.0106378	.0073247
#3	-.000212	.0081909	-.008415	.004633	.0074262	.0051487

Elem	Sr4077
Units	ppm
Avg	-.000205
Stddev	.000060
%RSD	29.16834
#1	-.000176
#2	-.000274
#3	-.000166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5123.528	92656.29	8622.717	4350.463	6571.619
Stddev	17.329	739.65	47.669	34.254	11.565
%RSD	.3382336	.7982710	.5528287	.7873726	.1759786
#1	5137.726	93456.40	8567.747	4384.581	6584.736
#2	5128.641	92515.01	8652.660	4350.733	6567.228
#3	5104.217	91997.48	8647.745	4316.074	6562.893

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169048BS Acquired: 7/29/2025 17:08:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.8182074**	**2.023562**	**.9608502**	**2.119376**	**.9136498**	**2.084257**
Stddev	.0026888	.034085	.0031619	.008818	.0018913	.010054
%RSD	.3286260	1.684385	.3290725	.4160814	.2070072	.4823977
#1	.8172080	1.990416	.9572728	2.114522	.9146041	2.092165
#2	.8161614	2.021757	.9632710	2.114051	.9114715	2.072942
#3	.8212528	2.058513	.9620067	2.129555	.9148739	2.087664

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2193413**	**.2244429**	**.1736869**	F **1.150739**	**.3931133**	**.2049406**
Stddev	.0011110	.0011862	.0005429	.005776	.0007232	.0005644
%RSD	.5065300	.5285179	.3125933	.5019592	.1839565	.2754069
#1	.2189674	.2240997	.1730765	1.157225	.3925131	.2043091
#2	.2184654	.2234661	.1741161	1.146150	.3939162	.2053959
#3	.2205910	.2257629	.1738679	1.148841	.3929108	.2051168

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3276809**	**3.139620**	**.2231219**	**2.065474**	**.5154972**	**.0815990**
Stddev	.0006472	.000680	.0013242	.024107	.0017822	.0001648
%RSD	.1975157	.0216651	.5934640	1.167119	.3457171	.2019306
#1	.3272547	3.139971	.2242494	2.044850	.5134438	.0816290
#2	.3273623	3.140053	.2216638	2.059595	.5166419	.0814213
#3	.3284256	3.138836	.2234526	2.091976	.5164059	.0817467

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.890624**	**.3125442**	**.2265402**	**10.59270**	**.3293937**	**.4504628**
Stddev	.033846	.0030886	.0006255	.08047	.0023464	.0011818
%RSD	1.170878	.9882113	.2761276	.7596653	.7123231	.2623509
#1	2.891559	.3160585	.2260513	10.60731	.3277187	.4498175
#2	2.923992	.3113129	.2263241	10.66485	.3283870	.4497442
#3	2.856320	.3102612	.2272451	10.50592	.3320754	.4518268

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: PB169048BS Acquired: 7/29/2025 17:08:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7135377	.2215817	.8627954	5.463625	F .0051848	.1964699
Stddev	.0031312	.0019297	.0161666	.014943	.0023968	.0012530
%RSD	.4388250	.8708900	1.873752	.2734975	46.22705	.6377498
#1	.7099916	.2237734	.8784110	5.446390	.0076719	.1971324
#2	.7159218	.2208340	.8638460	5.471532	.0049927	.1972526
#3	.7146995	.2201378	.8461290	5.472953	.0028899	.1950247

Elem	Sr4077
Units	ppm
Avg	.2239109
Stddev	.0005863
%RSD	.2618547
#1	.2242439
#2	.2232339
#3	.2242550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5198.730	90711.98	8134.471	4294.333	6640.082
Stddev	17.700	112.10	46.682	17.852	12.116
%RSD	.3404760	.1235825	.5738771	.4157039	.1824691
#1	5189.513	90735.99	8149.894	4297.626	6636.413
#2	5219.137	90589.82	8171.489	4310.309	6653.609
#3	5187.541	90810.14	8082.029	4275.064	6630.225

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02DLX5 Acquired: 7/29/2025 17:12:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001543**	**-.002596**	**.0077707**	**.0019039**	**.0042472**	**.3783242**	**.0126834**
Stddev	.002877	.001136	.0005872	.0031698	.0003591	.0066831	.0004841
%RSD	186.4135	43.75874	7.555952	166.4941	8.454361	1.766487	3.816968
#1	-.003745	-.003057	.0074415	.0055639	.0043872	.3858955	.0126599
#2	.001712	-.001302	.0084486	.0000419	.0045152	.3732464	.0131788
#3	-.002598	-.003430	.0074221	.0001059	.0038392	.3758307	.0122114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000386**	**.0007694**	**3.876125**	**.0060726**	**.0005356**	**.0592994**	**3.072393**
Stddev	.0000425	.0000304	.036201	.0000243	.0001019	.0003188	.027792
%RSD	109.9551	3.951621	.9339605	.3997343	19.02440	.5375536	.9045713
#1	.0000599	.0007397	3.911672	.0060578	.0004479	.0589450	3.099332
#2	-.000010	.0007682	3.877401	.0061006	.0005115	.0593902	3.043820
#3	.000066	.0008004	3.839302	.0060593	.0006474	.0595628	3.074027

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0294383**	**.7957350**	**.0083206**	**.0018614**	**120.2069**	**-.003556**	**.2019850**
Stddev	.0005982	.0222713	.0000605	.0003799	.9989	.001242	.0007956
%RSD	2.032096	2.798836	.7267723	20.40965	.8309975	34.92394	.3939023
#1	.0301264	.7712503	.0082852	.0017109	121.2287	-.003493	.2020904
#2	.0291467	.8147881	.0082862	.0022935	119.2326	-.002347	.2011419
#3	.0290418	.8011665	.0083904	.0015797	120.1592	-.004829	.2027226

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.565130**	**.0209736**	**.0030320**	**.0022341**	**.0239736**	**4.781823**	**.8052704**
Stddev	.045280	.0002548	.0002220	.0004034	.0012279	.022509	.0067605
%RSD	1.270075	1.214853	7.321210	18.05546	5.121879	.4707269	.8395293
#1	3.577892	.0210773	.0028011	.0020493	.0233773	4.798565	.7997770
#2	3.514838	.0206833	.0030511	.0019562	.0231577	4.756234	.8032138
#3	3.602659	.0211603	.0032438	.0026967	.0253857	4.790669	.8128203

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02DLX5 Acquired: 7/29/2025 17:12:12 Type: Unk
Method: 6010-200.7 NEW(v66) 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	1.989879	.0051629	.0210111
Stddev	.008418	.0028795	.0001708
%RSD	.4230602	55.77406	.8127593
#1	1.980821	.0052977	.0211913
#2	1.991353	.0079726	.0209906
#3	1.997463	.0022183	.0208516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4934.802	88522.13	8585.602	4134.572	6105.343
Stddev	21.892	280.41	39.656	28.917	25.023
%RSD	.4436160	.3167734	.4618934	.6993994	.4098482
#1	4957.234	88272.55	8553.227	4117.970	6126.711
#2	4933.679	88825.57	8573.744	4167.963	6111.503
#3	4913.494	88468.29	8629.834	4117.784	6077.816

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02DUPDLX5 Acquired: 7/29/2025 17:16:28 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.003105**	**-.000277**	**.0079672**	**.0029634**	**.0074513**	**.3992714**	**.0146172**
Stddev	.001522	.002428	.0006399	.0020525	.0015909	.0042167	.0014310
%RSD	49.01590	875.6891	8.032001	69.25916	21.35042	1.056104	9.789938
#1	-.004862	.002298	.0085488	.0017755	.0087989	.4038650	.0139982
#2	-.002218	-.000606	.0072816	.0053334	.0056963	.3983729	.0162535
#3	-.002234	-.002524	.0080712	.0017814	.0078587	.3955764	.0136000

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000424**	**.0005550**	**4.045066**	**.0090841**	**.0008277**	**.0622400**	**3.260273**
Stddev	.0000112	.0000851	.014343	.0003284	.0002104	.0003924	.016657
%RSD	26.31718	15.32749	.3545761	3.615105	25.41779	.6304149	.5109204
#1	.0000296	.0004569	4.031197	.0087461	.0006553	.0621353	3.261421
#2	.0000471	.0006000	4.059840	.0094019	.0007657	.0626741	3.276327
#3	.0000504	.0006080	4.044162	.0091043	.0010621	.0619106	3.243071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0312419**	**.8279617**	**.0102164**	**.0019287**	**127.7531**	**-.000313**	**.2119218**
Stddev	.0006082	.0288748	.0000393	.0005154	.2122	.001321	.0002626
%RSD	1.946900	3.487460	.3844158	26.72331	.1661032	422.4932	.1239118
#1	.0306062	.8200205	.0101718	.0014932	127.9573	.000673	.2117387
#2	.0318183	.8599762	.0102457	.0017951	127.7683	-.001813	.2118040
#3	.0313012	.8038884	.0102318	.0024978	127.5337	.000202	.2122227

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.771893**	**.0214455**	**.0034638**	**.0022266**	**.0254431**	**5.111502**	**.8585079**
Stddev	.051091	.0006276	.0005565	.0002741	.0012506	.033575	.0029343
%RSD	1.354521	2.926594	16.06750	12.30806	4.915368	.6568428	.3417954
#1	3.821872	.0216956	.0031688	.0019273	.0268581	5.145498	.8608444
#2	3.774049	.0219095	.0031169	.0024652	.0244859	5.078365	.8552146
#3	3.719758	.0207313	.0041058	.0022872	.0249853	5.110642	.8594647

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02DUPDLX5 Acquired: 7/29/2025 17:16:28 Type: Unk
Method: 6010-200.7 NEW(v66) 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	2.163843	.0069497	.0218351
Stddev	.010012	.0007616	.0000712
%RSD	.4626981	10.95827	.3262009
#1	2.155666	.0063622	.0218235
#2	2.175009	.0078101	.0219114
#3	2.160854	.0066766	.0217704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4734.669	85870.60	8438.686	4021.552	5828.642
Stddev	14.214	149.55	41.597	10.407	10.457
%RSD	.3002118	.1741556	.4929263	.2587877	.1794069
#1	4723.943	85930.41	8475.475	4020.234	5817.796
#2	4750.791	85700.40	8393.549	4011.866	5829.469
#3	4729.273	85980.99	8447.035	4032.555	5838.661

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV04 Acquired: 7/29/2025 17:20:44 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.236395**	**5.065383**	**4.968101**	**5.334195**	**5.378272**	**10.16881**	**10.64989**
Stddev	.008248	.128336	.013882	.006488	.005377	.04556	.14970
%RSD	.1575146	2.533590	.2794150	.1216294	.0999746	.4480659	1.405656
#1	5.226872	5.125283	4.963177	5.332897	5.374354	10.12095	10.48254
#2	5.241211	4.918048	4.957353	5.328454	5.376060	10.21166	10.69611
#3	5.241104	5.152817	4.983773	5.341234	5.384402	10.17382	10.77104

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2536742**	**2.268303**	**26.37756**	**.9563112**	**2.542530**	**1.302240**	**5.338097**
Stddev	.0011477	.007611	.04782	.0024659	.003509	.002977	.023173
%RSD	.4524461	.3355518	.1812951	.2578556	.1380289	.2286360	.4340972
#1	.2529893	2.267604	26.37465	.9576086	2.541561	1.298850	5.346663
#2	.2530341	2.261066	26.42676	.9578577	2.539606	1.303442	5.355767
#3	.2549992	2.276240	26.33125	.9534675	2.546422	1.304429	5.311861

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.614843**	**24.66577**	**2.545669**	**1.304490**	**24.16363**	**2.550520**	**2.651321**
Stddev	.007349	.13292	.004881	.001088	.08656	.006979	.002334
%RSD	.2810418	.5388703	.1917346	.0833851	.3582209	.2736470	.0880212
#1	2.606358	24.53900	2.546979	1.304194	24.18251	2.542874	2.650864
#2	2.619072	24.65425	2.540266	1.303581	24.23919	2.556548	2.649250
#3	2.619100	24.80408	2.549761	1.305695	24.06919	2.552140	2.653850

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.97858**	**5.060451**	**5.305789**	**5.019236**	**5.117452**	**5.026110**	**4.817743**
Stddev	.11282	.031017	.009542	.013565	.009195	.004584	.015118
%RSD	.4181740	.6129210	.1798393	.2702588	.1796811	.0912051	.3137926
#1	27.03421	5.040267	5.301045	5.025518	5.113159	5.031402	4.806587
#2	27.05278	5.044921	5.299550	5.003669	5.128009	5.023545	4.811693
#3	26.84875	5.096165	5.316774	5.028521	5.111190	5.023382	4.834949

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV04 Acquired: 7/29/2025 17:20:44 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.027639**	**5.017405**	**5.360607**
Stddev	.016886	.016149	.055238
%RSD	.3358717	.3218677	1.030450
#1	5.021161	4.999842	5.340971
#2	5.014951	5.020760	5.422981
#3	5.046805	5.031614	5.317869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4945.880**	**86608.59**	**8361.031**	**4144.081**	**5971.866**
Stddev	10.606	43.10	48.346	13.621	6.841
%RSD	.2144483	.0497671	.5782309	.3286950	.1145478
#1	4958.096	86628.97	8392.277	4150.069	5975.488
#2	4940.525	86637.72	8385.472	4153.682	5976.133
#3	4939.019	86559.08	8305.345	4128.491	5963.976

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB04 Acquired: 7/29/2025 17:24:55 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001873**	**.0026000**	**-.000030**	**-.000058**	**-.000021**	**-.006308**	**-.000863**
Stddev	.000943	.0007345	.000749	.000661	.000502	.007955	.000135
%RSD	50.33912	28.25037	2520.800	1141.589	2385.954	126.1183	15.69655
#1	-.002272	.0032398	.000260	.000523	.000317	.002070	-.000776
#2	-.000796	.0027621	.000531	-.000777	.000218	-.013759	-.000794
#3	-.002550	.0017979	-.000880	.000080	-.000598	-.007234	-.001019

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000579**	**.0002765**	**.0150975**	**.0003066**	**.0003878**	**.0004173**	**-.002654**
Stddev	.0000311	.0001090	.0068509	.0002962	.0000986	.0000878	.004574
%RSD	53.66318	39.43840	45.37814	96.60175	25.42540	21.02791	172.3159
#1	.0000713	.0003734	.0082850	.0003365	.0003036	.0005186	-.006887
#2	.0000224	.0001584	.0150212	-.000003	.0003634	.0003670	.002197
#3	.0000801	.0002976	.0219862	.000587	.0004963	.0003662	-.003273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012001**	**.0096881**	**.0007152**	**.0015629**	**.0227004**	**-.004683**	**.0003956**
Stddev	.0002404	.0179969	.0002693	.0002064	.0126579	.002990	.0001739
%RSD	20.03069	185.7616	37.65537	13.20844	55.76041	63.85118	43.96168
#1	.0013727	-.006592	.0004396	.0014956	.0337898	-.007980	.0005667
#2	.0013021	.029013	.0009777	.0017946	.0089101	-.003920	.0002190
#3	.0009255	.006643	.0007284	.0013986	.0254014	-.002148	.0004011

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0776846**	**.0061818**	**.0016395**	**.0004833**	**.0114574**	**-.004171**	**-.000526**
Stddev	.0148957	.0013179	.0003219	.0003276	.0017497	.003688	.001236
%RSD	19.17455	21.31898	19.63403	67.78698	15.27112	88.41130	235.0233
#1	.0686606	.0076732	.0018275	.0004603	.0106148	-.003329	-.001849
#2	.0695156	.0056979	.0012678	.0008218	.0134689	-.000977	-.000326
#3	.0948776	.0051743	.0018233	.0001678	.0102884	-.008207	.000598

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB04 Acquired: 7/29/2025 17:24:55 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0027971	-.004181	.0012751
Stddev	.0008294	.001664	.0002317
%RSD	29.65219	39.80188	18.16765
#1	.0020665	-.005781	.0015412
#2	.0026260	-.002459	.0011663
#3	.0036986	-.004304	.0011180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5126.371	89781.47	8223.919	4309.833	6528.583
Stddev	10.640	148.16	31.119	13.089	23.431
%RSD	.2075526	.1650178	.3783902	.3037053	.3589060
#1	5133.323	89621.44	8189.157	4300.456	6552.157
#2	5131.667	89913.85	8249.177	4304.255	6528.295
#3	5114.122	89809.12	8233.422	4324.787	6505.297

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02LDLX25 Acquired: 7/29/2025 17:29:15 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.003615**	**.0004166**	**.0021853**	**.0016822**	**.0000298**	**.0650489**	**.0011096**
Stddev	.001603	.0010561	.0003028	.0024659	.0003270	.0064773	.0006999
%RSD	44.32999	253.4792	13.85713	146.5846	1096.728	9.957592	63.07482
#1	-.003149	-.000507	.0019831	-.001092	-.000348	.0724348	.0019177
#2	-.005399	.001568	.0025334	.003623	.000224	.0603350	.0007163
#3	-.002297	.000189	.0020394	.002516	.000213	.0623770	.0006949

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000315**	**.0002173**	**.7995108**	**.0009985**	**.0000811**	**.0122656**	**.6181808**
Stddev	.0000305	.0000661	.0160403	.0002716	.0001007	.0004404	.0037502
%RSD	96.85368	30.41962	2.006265	27.19741	124.1994	3.590473	.6066460
#1	.0000637	.0001410	.7973660	.0008209	.0001902	.0126761	.6223909
#2	.0000031	.0002564	.7846508	.0008635	.0000613	.0123203	.6169533
#3	.0000275	.0002546	.8165156	.0013112	-.000008	.0118004	.6151982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057152**	**.1688074**	**.0019059**	**.0011152**	**24.42308**	**-.002838**	**.0416630**
Stddev	.0003892	.0068996	.0000546	.0001730	.06372	.000567	.0003407
%RSD	6.809991	4.087254	2.863351	15.51676	.2608874	19.97924	.8177339
#1	.0059669	.1766102	.0019677	.0010818	24.35053	-.002459	.0412919
#2	.0052669	.1662992	.0018857	.0009612	24.46995	-.003490	.0419617
#3	.0059117	.1635127	.0018643	.0013024	24.44876	-.002565	.0417353

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6668010**	**.0068219**	**.0007001**	**.0005793**	**.0129263**	**.9631175**	**.1611111**
Stddev	.0168165	.0006798	.0001696	.0022801	.0018818	.0202636	.0027384
%RSD	2.521964	9.965208	24.23004	393.6162	14.55824	2.103963	1.699699
#1	.6579425	.0065208	.0007815	-.000702	.0144007	.9674799	.1631802
#2	.6861948	.0076002	.0005051	-.000772	.0108067	.9808447	.1580058
#3	.6562656	.0063446	.0008138	.003212	.0135715	.9410280	.1621472

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02LDLX25 Acquired: 7/29/2025 17:29:15 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.3891388	-.005785	.0042488
Stddev	.0049600	.003277	.0000444
%RSD	1.274604	56.65575	1.043777
#1	.3944812	-.009549	.0042017
#2	.3882555	-.004237	.0042550
#3	.3846799	-.003568	.0042897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5187.864	87735.93	8345.345	4251.008	6553.930
Stddev	1.371	489.88	49.559	30.414	9.822
%RSD	.0264362	.5583595	.5938476	.7154577	.1498612
#1	5188.147	88298.09	8330.490	4276.179	6563.122
#2	5186.373	87509.39	8400.632	4217.213	6555.087
#3	5189.072	87400.32	8304.912	4259.632	6543.581

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02MSDLX5 Acquired: 7/29/2025 17:33:34 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1510446	.3641880	.1855374	.3955641	.1714539	.8016803	.0570433
Stddev	.0028112	.0041425	.0003965	.0007825	.0003924	.0052047	.0009758
%RSD	1.861196	1.137458	.2137022	.1978286	.2288640	.6492231	1.710666
#1	.1478155	.3611039	.1850802	.3951644	.1713462	.7956798	.0581439
#2	.1523713	.3625637	.1857875	.3950622	.1718889	.8043900	.0567021
#3	.1529469	.3688965	.1857444	.3964658	.1711266	.8049711	.0562839

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385873	.0297389	4.360855	.0802476	.0390514	.1329674	3.923322
Stddev	.0002829	.0001057	.012908	.0007422	.0003368	.0007630	.003555
%RSD	.7330224	.3555453	.2959886	.9248938	.8623692	.5738304	.0906089
#1	.0389138	.0298296	4.374169	.0810966	.0387425	.1323442	3.920089
#2	.0384313	.0296227	4.348396	.0799241	.0390013	.1327397	3.927129
#3	.0384169	.0297643	4.360002	.0797220	.0394104	.1338184	3.922749

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0724295	1.238306	.1048767	.0165134	131.5980	.0564309	.2602770
Stddev	.0003092	.021293	.0006073	.0001359	.3434	.0029820	.0015078
%RSD	.4268299	1.719550	.5790591	.8229199	.2609132	5.284339	.5793085
#1	.0725921	1.252455	.1049802	.0163569	131.9881	.0578296	.2620181
#2	.0726234	1.248645	.1042243	.0165821	131.4643	.0584565	.2594091
#3	.0720730	1.213817	.1054256	.0166013	131.3417	.0530067	.2594039

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.650202	.0808421	.0850133	.1110488	.0598653	5.302243	2.088493
Stddev	.017915	.0001224	.0005266	.0004062	.0017120	.006031	.000797
%RSD	.3170600	.1514727	.6193992	.3657692	2.859837	.1137476	.0381497
#1	5.655941	.0808658	.0849078	.1107656	.0616715	5.305672	2.088515
#2	5.630121	.0807095	.0845474	.1115142	.0596580	5.295279	2.087685
#3	5.664543	.0809509	.0855846	.1108666	.0582663	5.305778	2.089278

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02MSDLX5 Acquired: 7/29/2025 17:33:34 Type: Unk
Method: 6010-200.7 NEW(v66) 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	2.354176	.0360993	.0631127
Stddev	.010704	.0011047	.0001362
%RSD	.4546778	3.060107	.2158728
#1	2.342846	.0373269	.0632638
#2	2.355562	.0351854	.0629992
#3	2.364119	.0357856	.0630750

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4983.711	86725.35	8414.747	4085.449	6158.048
Stddev	20.231	378.60	42.517	13.756	22.942
%RSD	.4059455	.4365484	.5052694	.3367047	.3725567
#1	4994.187	86380.39	8373.927	4071.014	6166.631
#2	4996.555	86665.26	8411.535	4086.926	6175.461
#3	4960.390	87130.40	8458.779	4098.406	6132.052

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02MSDDLX5 Acquired: 7/29/2025 17:37:42 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1536157	.3587057	.1878546	.3958029	.1713627	.8142152	.0582163
Stddev	.0054436	.0090750	.0010284	.0025067	.0005622	.0039392	.0015582
%RSD	3.543613	2.529940	.5474502	.6333223	.3280647	.4838075	2.676568
#1	.1564644	.3619307	.1884417	.3931977	.1720088	.8187058	.0564182
#2	.1473390	.3657277	.1866671	.3981979	.1710936	.8113428	.0590600
#3	.1570438	.3484586	.1884549	.3960131	.1709856	.8125969	.0591707

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0387835	.0302017	4.393518	.1062437	.0401128	.1354971	4.041338
Stddev	.0004097	.0000760	.064633	.0013939	.0004351	.0006758	.027137
%RSD	1.056443	.2517750	1.471094	1.311943	1.084724	.4987853	.6714837
#1	.0383361	.0302710	4.324841	.1077418	.0403759	.1361417	4.020051
#2	.0391403	.0301203	4.453154	.1049851	.0396106	.1347939	4.032068
#3	.0388741	.0302137	4.402559	.1060043	.0403519	.1355557	4.071895

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0743955	1.221955	.1247414	.0164850	130.2234	.0591652	.2597031
Stddev	.0014234	.049959	.0007972	.0003179	.4895	.0029524	.0025683
%RSD	1.913230	4.088476	.6390978	1.928581	.3759309	4.990115	.9889533
#1	.0731629	1.166740	.1256475	.0167703	130.5828	.0557584	.2609634
#2	.0759533	1.264033	.1241476	.0161423	129.6658	.0609782	.2567480
#3	.0740701	1.235091	.1244292	.0165424	130.4216	.0607590	.2613977

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.734237	.0796940	.0884029	.1160755	.0668959	5.337106	2.145821
Stddev	.046534	.0003129	.0005170	.0002928	.0018401	.034991	.002213
%RSD	.8115169	.3926837	.5847849	.2522394	2.750735	.6556215	.1031447
#1	5.729471	.0798040	.0889783	.1157500	.0652070	5.377508	2.148356
#2	5.690269	.0799371	.0879774	.1161591	.0688569	5.317336	2.144270
#3	5.782971	.0793409	.0882531	.1163174	.0666238	5.316475	2.144838

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02MSDDLX5 Acquired: 7/29/2025 17:37:42 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**2.509723**	**.0437136**	**.0631058**
Stddev	.014708	.0021607	.0009025
%RSD	.5860230	4.942844	1.430110
#1	2.526482	.0424453	.0623541
#2	2.503723	.0462085	.0641067
#3	2.498964	.0424872	.0628565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4885.702**	**86223.04**	**8312.444**	**4093.870**	**5980.698**
Stddev	13.901	691.07	64.194	34.560	16.430
%RSD	.2845234	.8014940	.7722678	.8441807	.2747197
#1	4877.409	85639.41	8374.205	4076.419	5970.931
#2	4901.751	86986.15	8246.066	4133.675	5999.667
#3	4877.947	86043.57	8317.061	4071.515	5971.496

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02ADLX5 Acquired: 7/29/2025 17:41:49 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.1608583	.3812168	.1929323	.4093363	.1854471	.7650812	.0558245
Stddev	.0017987	.0120601	.0010583	.0024258	.0002315	.0055404	.0006740
%RSD	1.118214	3.163587	.5485469	.5926278	.1248610	.7241533	1.207332
#1	.1588997	.3858174	.1937920	.4099655	.1852927	.7665003	.0550613
#2	.1624362	.3675335	.1917503	.4066578	.1853353	.7589693	.0560743
#3	.1612390	.3902995	.1932546	.4113855	.1857134	.7697740	.0563379

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392360	.0315227	3.930517	.0824581	.0409573	.1196099	3.698364
Stddev	.0001929	.0001509	.008127	.0005458	.0001720	.0007552	.026014
%RSD	.4915797	.4786056	.2067576	.6619476	.4198999	.6313849	.7033894
#1	.0390137	.0313790	3.926356	.0825710	.0408377	.1187389	3.706425
#2	.0393589	.0315093	3.939882	.0818647	.0408799	.1200092	3.669274
#3	.0393354	.0316799	3.925314	.0829387	.0411544	.1200817	3.719394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0703325	1.133269	.1088627	.0173416	122.1280	.0594942	.2412943
Stddev	.0004134	.015160	.0005941	.0001325	.4869	.0002181	.0009803
%RSD	.5877537	1.337706	.5457515	.7642076	.3986699	.3665939	.4062570
#1	.0707303	1.134389	.1082797	.0174919	122.4550	.0593335	.2408186
#2	.0699051	1.147838	.1088409	.0172416	121.5685	.0594066	.2406426
#3	.0703620	1.117580	.1094674	.0172914	122.3607	.0597425	.2424216

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.527699	.0791354	.0911414	.1428815	.0677367	5.028730	1.906188
Stddev	.048174	.0010009	.0008534	.0008453	.0035411	.029840	.008574
%RSD	.8715094	1.264782	.9362987	.5916096	5.227671	.5933999	.4498016
#1	5.564511	.0789432	.0905912	.1424278	.0716817	5.048702	1.901038
#2	5.473176	.0782445	.0907085	.1423599	.0648330	4.994428	1.901440
#3	5.545410	.0802184	.0921244	.1438568	.0666955	5.043061	1.916086

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2417-02ADLX5 Acquired: 7/29/2025 17:41:49 Type: Unk
Method: 6010-200.7 NEW(v66) 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	1.953852	.0412818	.0618178
Stddev	.014465	.0007821	.0001075
%RSD	.7403140	1.894625	.1738751
#1	1.948974	.0421450	.0619029
#2	1.942457	.0406202	.0616970
#3	1.970125	.0410802	.0618535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4928.370	86340.99	8634.871	4071.110	6064.214
Stddev	20.123	230.37	25.032	10.104	23.102
%RSD	.4083122	.2668179	.2898963	.2481968	.3809555
#1	4946.958	86393.81	8663.631	4082.758	6079.350
#2	4931.153	86540.36	8617.990	4064.691	6075.670
#3	4907.001	86088.79	8622.993	4065.883	6037.623

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-02 Acquired: 7/29/2025 17:45:58 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.007117**	**-.003193**	**.0059142**	**.0049496**	**.0000108**	**.0825827**	**.4264566**
Stddev	.003305	.001263	.0005372	.0017447	.0012769	.0058775	.0012160
%RSD	46.43596	39.55224	9.082955	35.24924	11766.11	7.117145	.2851318
#1	-.010077	-.001737	.0057029	.0041231	-.000362	.0834587	.4256862
#2	-.007722	-.003853	.0065249	.0069540	.001433	.0879731	.4278584
#3	-.003551	-.003990	.0055148	.0037718	-.001038	.0763164	.4258253

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000079**	**.0005131**	**64.73400**	**.0000412**	**-.000093**	**.0064594**	**.0059899**
Stddev	.000039	.0001273	.15038	.0004176	.000188	.0003950	.0051654
%RSD	50.23148	24.81826	.2323050	1012.775	203.0543	6.114826	86.23548
#1	-.000034	.0004420	64.63329	-.000436	-.000073	.0064456	.0000287
#2	-.000110	.0006601	64.90686	.000219	.000085	.0068611	.0091432
#3	-.000092	.0004371	64.66186	.000340	-.000290	.0060715	.0087977

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7946614**	**4.352857**	**.0038513**	**.0009954**	**295.4093**	**-.003516**	**.0869807**
Stddev	.0013579	.003729	.0002556	.0002717	1.6806	.003336	.0000310
%RSD	.1708746	.0856709	6.637543	27.29315	.5688998	94.89594	.0356899
#1	.7947257	4.348552	.0037541	.0008931	295.9586	.000190	.0869646
#2	.7959860	4.355072	.0041413	.0007897	296.7465	-.006280	.0870165
#3	.7932725	4.354948	.0036585	.0013033	293.5228	-.004457	.0869610

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.534623**	**.0497138**	**.0005969**	**-.003266**	**.0105338**	**1.328818**	**.0227383**
Stddev	.010001	.0006685	.0001856	.000848	.0009463	.005472	.0024282
%RSD	.6516618	1.344683	31.08704	25.96027	8.983360	.4117610	10.67870
#1	1.543141	.0489472	.0004151	-.002952	.0099045	1.330872	.0244554
#2	1.523612	.0500191	.0007860	-.002620	.0100748	1.332964	.0237993
#3	1.537117	.0501751	.0005894	-.004226	.0116221	1.322616	.0199602

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-02 Acquired: 7/29/2025 17:45:58 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.4645358	-.003386	.1560113
Stddev	.0086647	.002525	.0005433
%RSD	1.865239	74.57559	.3482479
#1	.4744937	-.000507	.1563316
#2	.4587156	-.004429	.1563182
#3	.4603983	-.005224	.1553839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4783.813	82791.56	7287.489	3952.350	5721.443
Stddev	10.208	213.41	28.184	4.136	11.205
%RSD	.2133874	.2577712	.3867496	.1046385	.1958436
#1	4782.386	82764.08	7295.962	3948.658	5719.538
#2	4794.659	82593.22	7310.465	3956.819	5733.478
#3	4774.393	83017.38	7256.040	3951.573	5711.312

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-04 Acquired: 7/29/2025 17:50:23 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.002203**	**-.001751**	**.0127011**	**.0040282**	**.0014847**	**.1126852**	**.4374984**
Stddev	.001763	.001313	.0005654	.0023463	.0027147	.0086525	.0002025
%RSD	80.00814	74.97848	4.451921	58.24652	182.8438	7.678483	.0462805
#1	-.000293	-.003089	.0123290	.0030597	.0004710	.1181347	.4375472
#2	-.003767	-.001701	.0124225	.0067037	.0045603	.1172126	.4372760
#3	-.002550	-.000464	.0133518	.0023212	-.000577	.1027083	.4376720

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001141**	**.0007504**	**43.65409**	**.0004731**	**.0008901**	**.0114694**	**.8709065**
Stddev	.0000589	.0001322	.16593	.0003663	.0001928	.0001217	.0036585
%RSD	51.63725	17.62092	.3800948	77.43064	21.66335	1.061069	.4200767
#1	.0000517	.0007161	43.68652	.0008666	.0009480	.0115540	.8704973
#2	.0001689	.0006387	43.80141	.0004105	.0010474	.0113299	.8747524
#3	.0001218	.0008964	43.47435	.0001421	.0006750	.0115242	.8674699

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8454699**	**4.913086**	**.0090480**	**.0010250**	**392.6156**	**-.001785**	**.1630658**
Stddev	.0025561	.012931	.0000503	.0004874	3.6973	.000736	.0011207
%RSD	.3023316	.2631906	.5554275	47.54960	.9417099	41.21646	.6872901
#1	.8483255	4.898209	.0090481	.0006293	394.7204	-.002449	.1621191
#2	.8446885	4.921624	.0089976	.0015695	394.7800	-.000994	.1627749
#3	.8433957	4.919425	.0090982	.0008763	388.3465	-.001910	.1643032

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9289406**	**.0490538**	**.0003924**	**-.002931**	**.0075503**	**1.062030**	**.0211434**
Stddev	.0492421	.0002410	.0003681	.000719	.0013566	.014188	.0008583
%RSD	5.300891	.4912635	93.80275	24.52224	17.96792	1.335892	4.059580
#1	.9727883	.0492599	-.000020	-.002250	.0088455	1.068359	.0211931
#2	.8756668	.0491125	.000689	-.002861	.0076659	1.045780	.0219757
#3	.9383666	.0487888	.000508	-.003683	.0061396	1.071953	.0202612

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2706-04 Acquired: 7/29/2025 17:50:23 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.5973403	-.007465	.1446331
Stddev	.0024399	.003232	.0003162
%RSD	.4084545	43.29143	.2185936
#1	.5955851	-.004017	.1449948
#2	.6001264	-.007954	.1444096
#3	.5963095	-.010424	.1444948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4778.989	80913.88	8236.951	3918.674	5661.538
Stddev	1.499	90.72	56.632	9.764	5.418
%RSD	.0313578	.1121192	.6875343	.2491691	.0956980
#1	4778.914	80820.64	8233.772	3922.484	5658.130
#2	4780.524	81001.85	8181.976	3925.960	5667.785
#3	4777.530	80919.15	8295.105	3907.580	5658.698

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01 Acquired: 7/29/2025 17:54:48 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0430238	.0016295	.4250969	-.001820	-.006537	70.50659	.5845353
Stddev	.0033057	.0015881	.0013878	.000650	.000536	.56630	.0053153
%RSD	7.683407	97.46210	.3264787	35.72997	8.192160	.8031920	.9093270
#1	.0392114	.0017753	.4266959	-.002565	-.006599	70.69290	.5883110
#2	.0447660	.0031396	.4243889	-.001521	-.005973	69.87060	.5784569
#3	.0450940	-.000027	.4242058	-.001373	-.007039	70.95626	.5868379

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078028	.0141338	55.81494	.1646671	.0940326	.4180996	185.4302
Stddev	.0001061	.0002330	.32964	.0002440	.0006707	.0006860	.7706
%RSD	1.359095	1.648145	.5906009	.1482014	.7132351	.1640679	.4155735
#1	.0079252	.0140369	56.03955	.1644181	.0945241	.4178824	185.0517
#2	.0077434	.0143996	55.43650	.1649059	.0932686	.4175486	184.9221
#3	.0077397	.0139650	55.96876	.1646774	.0943053	.4188679	186.3169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.121762	38.91859	.1857504	.0038720	5.266305	.2866577	.7805025
Stddev	.020187	.31060	.0005091	.0001566	.012773	.0028824	.0013599
%RSD	.6466393	.7980865	.2740781	4.045229	.2425500	1.005518	.1742299
#1	3.128419	38.98542	.1857505	.0038159	5.260674	.2875016	.7820442
#2	3.099088	38.58001	.1852412	.0040489	5.257315	.2834475	.7799900
#3	3.137779	39.19033	.1862594	.0037511	5.280927	.2890239	.7794734

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.02855	-.038222	.0068293	.0300390	3.701803	4.653201	5.851409
Stddev	.07267	.003336	.0002484	.0010629	.016830	.041056	.022713
%RSD	.5577895	8.729110	3.637465	3.538363	.4546324	.8823087	.3881694
#1	13.07914	-.041846	.0066035	.0310268	3.705661	4.619319	5.859814
#2	12.94528	-.037543	.0067890	.0301760	3.683380	4.641427	5.825691
#3	13.06124	-.035278	.0070954	.0289143	3.716369	4.698857	5.868722

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01 Acquired: 7/29/2025 17:54:48 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**3.988330**	**.1860536**	**.0570265**
Stddev	.025987	.0052452	.0014261
%RSD	.6515761	2.819197	2.500732
#1	3.973749	.1920857	.0582654
#2	3.972908	.1825663	.0554676
#3	4.018333	.1835086	.0573466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5612.265**	**96426.77**	**8714.305**	**4673.450**	**5788.768**
Stddev	13.085	229.98	40.003	16.658	13.463
%RSD	.2331462	.2385054	.4590497	.3564494	.2325746
#1	5627.084	96635.62	8701.439	4670.390	5797.904
#2	5607.404	96464.39	8759.158	4691.426	5795.092
#3	5602.307	96180.29	8682.318	4658.533	5773.307

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01DUP Acquired: 7/29/2025 17:58:51 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0358565	.0040802	.5410219	.0000075	-.006827	68.65166	.5549671
Stddev	.0047425	.0017617	.0030772	.0030552	.002517	.06594	.0006366
%RSD	13.22644	43.17703	.5687827	40486.98	36.87239	.0960561	.1147065
#1	.0307488	.0029513	.5376906	-.003106	-.009630	68.72705	.5552664
#2	.0401207	.0061101	.5416171	.000128	-.006096	68.60472	.5542360
#3	.0367000	.0031790	.5437581	.003001	-.004757	68.62320	.5553988

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065199	.0134454	44.08322	.1462355	.0906658	.4536801	174.5283
Stddev	.0000314	.0001326	.10424	.0008681	.0001446	.0009602	.6422
%RSD	.4811853	.9863155	.2364637	.5936075	.1595142	.2116377	.3679461
#1	.0065545	.0134549	44.20333	.1454954	.0907872	.4545735	174.1067
#2	.0065118	.0133083	44.01636	.1471909	.0905058	.4526649	175.2674
#3	.0064933	.0135730	44.02998	.1460202	.0907044	.4538020	174.2108

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.649597	38.01120	.1663704	.0073465	4.937785	.2882087	.6826825
Stddev	.009880	.12156	.0002510	.0000705	.005030	.0017847	.0022349
%RSD	.2707264	.3197997	.1508505	.9599995	.1018588	.6192300	.3273739
#1	3.660901	38.14810	.1666126	.0073066	4.932885	.2897329	.6850432
#2	3.645286	37.91591	.1661114	.0074280	4.942934	.2886476	.6805993
#3	3.642605	37.96959	.1663871	.0073050	4.937535	.2862455	.6824049

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.61999	.1731636	.0050071	.0401451	3.991521	5.428921	5.798378
Stddev	.06528	.0036157	.0000653	.0006104	.017129	.050623	.009244
%RSD	.4793090	2.088019	1.303257	1.520454	.4291279	.9324630	.1594250
#1	13.56658	.1689994	.0049347	.0394473	4.009948	5.387487	5.791277
#2	13.69277	.1755062	.0050253	.0404080	3.988530	5.485346	5.795026
#3	13.60064	.1749852	.0050613	.0405799	3.976084	5.413931	5.808830

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01DUP Acquired: 7/29/2025 17:58:51 Type: Unk
Method: 6010-200.7 NEW(v66) 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	3.324573	.1763954	.0050114
Stddev	.004726	.0028405	.0008148
%RSD	.1421652	1.610277	16.25833
#1	3.319338	.1731398	.0058561
#2	3.325855	.1783680	.0042303
#3	3.328526	.1776784	.0049478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5694.921	98395.32	9412.796	4762.268	5831.764
Stddev	10.685	463.60	48.455	12.810	5.486
%RSD	.1876193	.4711556	.5147787	.2689922	.0940642
#1	5682.740	98854.96	9414.460	4769.485	5826.212
#2	5702.711	98403.12	9460.398	4769.842	5837.181
#3	5699.311	97927.87	9363.531	4747.478	5831.897

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01LX5 Acquired: 7/29/2025 18:02:54 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0072755	.0010636	.0847857	.0018854	-.002714	15.85714	.1322624
Stddev	.0007630	.0008842	.0008934	.0016258	.002463	.02608	.0001297
%RSD	10.48764	83.12825	1.053709	86.23088	90.74494	.1644866	.0980772
#1	.0069403	.0001088	.0856304	.0000492	.000109	15.87468	.1323571
#2	.0081487	.0018540	.0838505	.0031418	-.003831	15.82717	.1323155
#3	.0067374	.0012281	.0848762	.0024651	-.004422	15.86959	.1321145

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017890	.0011529	12.62562	.0375725	.0182038	.0956021	45.39305
Stddev	.0000195	.0001664	.06760	.0006173	.0003227	.0003725	.13668
%RSD	1.092489	14.43647	.5354080	1.642890	1.772594	.3896606	.3010995
#1	.0017671	.0011660	12.69839	.0381426	.0181477	.0960069	45.51675
#2	.0018047	.0013123	12.56477	.0376578	.0185508	.0955257	45.41608
#3	.0017951	.0009803	12.61371	.0369170	.0179128	.0952737	45.24632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7123317	9.002709	.0366546	.0030160	1.323729	.0625198	.1764634
Stddev	.0018554	.012342	.0006015	.0000579	.009609	.0024609	.0012199
%RSD	.2604674	.1370957	1.640879	1.919797	.7259077	3.936134	.6913268
#1	.7136735	9.010484	.0365109	.0030279	1.326267	.0632797	.1778216
#2	.7102144	8.988478	.0373149	.0030671	1.331814	.0645110	.1761078
#3	.7131073	9.009165	.0361380	.0029531	1.313106	.0597686	.1754608

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.069406	.0122063	.0011358	.0047528	.8597274	1.202070	1.137372
Stddev	.017445	.0013213	.0001778	.0005155	.0040240	.016459	.003600
%RSD	.5683349	10.82454	15.65574	10.84611	.4680515	1.369247	.3165599
#1	3.049269	.0117558	.0011939	.0053253	.8626490	1.189041	1.141074
#2	3.079046	.0136939	.0009362	.0046078	.8551376	1.220567	1.133883
#3	3.079903	.0111691	.0012773	.0043254	.8613956	1.196601	1.137158

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01LX5 Acquired: 7/29/2025 18:02:54 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.7822281	.0393840	.0091447
Stddev	.0058406	.0043302	.0002373
%RSD	.7466599	10.99492	2.595063
#1	.7884303	.0441628	.0090952
#2	.7814209	.0357205	.0089360
#3	.7768331	.0382687	.0094028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5253.766	89790.16	8659.149	4407.889	6312.878
Stddev	15.261	196.13	19.892	12.445	22.352
%RSD	.2904760	.2184362	.2297266	.2823263	.3540634
#1	5251.343	89685.92	8658.692	4393.764	6307.260
#2	5270.093	89668.15	8679.265	4412.665	6337.502
#3	5239.861	90016.40	8639.488	4417.239	6293.871

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01MS Acquired: 7/29/2025 18:07:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.7263615**	**2.008498**	**1.413858**	**1.672002**	**.4161810**	**78.17299**	**.7771051**
Stddev	.0007020	.049646	.004094	.001683	.0017323	.10142	.0013030
%RSD	.0966402	2.471786	.2895413	.1006852	.4162409	.1297374	.1676757
#1	.7259186	2.015591	1.418069	1.671370	.4151165	78.18854	.7784843
#2	.7271708	2.054216	1.409893	1.670725	.4152466	78.26574	.7758947
#3	.7259950	1.955688	1.413611	1.673910	.4181799	78.06470	.7769364

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1855969**	**.1759943**	**66.51520**	**.4957307**	**.3098278**	**.7300992**	**186.9734**
Stddev	.0004535	.0004513	.11457	.0021617	.0004376	.0003111	1.2410
%RSD	.2443614	.2564391	.1722502	.4360569	.1412561	.0426162	.6637111
#1	.1853610	.1763010	66.64216	.4955680	.3101870	.7304522	188.0587
#2	.1861197	.1762059	66.48395	.4936550	.3099562	.7298646	185.6205
#3	.1853099	.1754761	66.41950	.4979691	.3093404	.7299809	187.2411

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.291469**	**50.78612**	**.7204997**	**.0784472**	**8.675850**	**.5786186**	**7.647658**
Stddev	.002747	.20557	.0014873	.0009149	.054120	.0046721	.009519
%RSD	.0834462	.4047744	.2064263	1.166218	.6237988	.8074597	.1244642
#1	3.294200	50.57571	.7215199	.0793647	8.726669	.5745010	7.652094
#2	3.288707	50.98648	.7211861	.0775350	8.618944	.5836961	7.636731
#3	3.291501	50.79616	.7187932	.0784419	8.681938	.5776588	7.654148

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.89081**	**.7476798**	**.3805577**	**.7261920**	**4.711648**	**6.832932**	**10.90828**
Stddev	.17386	.0020950	.0002707	.0030648	.010757	.096073	.01800
%RSD	.7942192	.2802033	.0711451	.4220361	.2283116	1.406024	.1650257
#1	22.05944	.7491039	.3802464	.7291104	4.721468	6.917813	10.92845
#2	21.71215	.7452743	.3806881	.7264663	4.713327	6.852348	10.90253
#3	21.90083	.7486614	.3807386	.7229992	4.700151	6.728634	10.89385

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01MS Acquired: 7/29/2025 18:07:07 Type: Unk
Method: 6010-200.7 NEW(v66) 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	3.307119	.3517440	.2490130
Stddev	.011842	.0033136	.0013123
%RSD	.3580672	.9420461	.5269901
#1	3.313047	.3480477	.2483268
#2	3.314826	.3544484	.2505261
#3	3.293484	.3527359	.2481860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5575.381	96356.76	9369.190	4612.193	5831.068
Stddev	.692	345.33	35.802	6.267	8.009
%RSD	.0124115	.3583869	.3821249	.1358761	.1373531
#1	5576.000	96090.28	9396.986	4604.965	5823.570
#2	5574.634	96746.90	9328.791	4616.096	5830.129
#3	5575.510	96233.12	9381.794	4615.519	5839.505

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV05 Acquired: 7/29/2025 18:11:03 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.171926**	**5.168875**	**4.988344**	**5.250356**	**5.293614**	**10.21676**	**10.57215**
Stddev	.004625	.067583	.011792	.002086	.009581	.01075	.06650
%RSD	.0894278	1.307506	.2363910	.0397357	.1809878	.1052175	.6289916
#1	5.173412	5.098352	4.985020	5.250529	5.283472	10.22876	10.62520
#2	5.175625	5.233075	5.001442	5.252350	5.294858	10.21348	10.59370
#3	5.166740	5.175198	4.978571	5.248188	5.302512	10.20802	10.49755

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2649070**	**2.319425**	**26.79354**	**.9745738**	**2.541030**	**1.293558**	**5.287422**
Stddev	.0017784	.008539	.06041	.0005371	.005191	.001404	.044498
%RSD	.6713199	.3681371	.2254782	.0551143	.2042976	.1085205	.8415732
#1	.2630391	2.324315	26.73361	.9739647	2.540870	1.293271	5.281540
#2	.2651020	2.324395	26.85442	.9749797	2.546299	1.295083	5.334568
#3	.2665798	2.309566	26.79260	.9747769	2.535921	1.292320	5.246158

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.636660**	**25.04071**	**2.547413**	**1.307074**	**23.55986**	**2.548268**	**2.643298**
Stddev	.002279	.13499	.004678	.002800	.21035	.014130	.008696
%RSD	.0864466	.5390773	.1836566	.2141905	.8928359	.5545065	.3289651
#1	2.634970	24.89164	2.549321	1.307178	23.74369	2.547287	2.633834
#2	2.639252	25.15470	2.550836	1.309820	23.60544	2.562863	2.650936
#3	2.635759	25.07578	2.542082	1.304224	23.33046	2.534654	2.645123

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.33715**	**5.224000**	**5.266348**	**5.030360**	**5.091000**	**4.975407**	**4.980400**
Stddev	.22357	.031505	.006531	.013711	.006269	.044856	.010488
%RSD	.8488883	.6030749	.1240205	.2725611	.1231306	.9015514	.2105807
#1	26.50774	5.190863	5.259120	5.035188	5.083995	5.010697	4.984960
#2	26.41965	5.227568	5.271827	5.041003	5.096081	4.990594	4.987836
#3	26.08405	5.253569	5.268098	5.014888	5.092923	4.924929	4.968405

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV05 Acquired: 7/29/2025 18:11:03 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**5.028386**	**4.953943**	**5.393887**
Stddev	.009137	.010226	.060898
%RSD	.1817061	.2064119	1.129023
#1	5.035116	4.963429	5.354144
#2	5.032057	4.955290	5.463998
#3	5.017984	4.943111	5.363520

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4992.711**	**84610.86**	**7947.969**	**4124.114**	**6003.910**
Stddev	7.237	247.75	47.900	5.539	8.775
%RSD	.1449506	.2928119	.6026651	.1343140	.1461596
#1	5000.977	84497.58	7997.927	4124.877	6010.382
#2	4987.515	84440.00	7943.545	4118.233	5993.922
#3	4989.642	84895.00	7902.435	4129.232	6007.426

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB05 Acquired: 7/29/2025 18:15:14 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001282**	**.0010494**	**.0010092**	**-.000354**	**-.000464**	**.0136636**	**.0014084**
Stddev	.001755	.0004978	.0013376	.002111	.001384	.0074571	.0003273
%RSD	136.8585	47.43694	132.5369	597.0414	298.1646	54.57619	23.23986
#1	-.003180	.0006064	.0009499	-.002748	.001104	.0072638	.0016315
#2	.000283	.0015880	.0023755	.001240	-.001515	.0218525	.0010327
#3	-.000950	.0009537	-.000298	.000447	-.000982	.0118745	.0015611

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000557**	**.0003164**	**.0143861**	**.0000721**	**.0002634**	**.0000938**	**.0005194**
Stddev	.0000604	.0000852	.0080287	.0001326	.0002207	.0001316	.0029331
%RSD	108.3652	26.94340	55.80846	183.9966	83.76674	140.3558	564.6833
#1	.0000041	.0003068	.0186835	.0000676	.0000156	.0002381	.0039043
#2	.0001222	.0004061	.0051234	-.000058	.0004387	-.000019	-.001072
#3	.0000410	.0002364	.0193514	.000207	.0003360	.000063	-.001274

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009813**	**.0083476**	**.0003861**	**.0011437**	**-.040959**	**-.003712**	**.0002311**
Stddev	.0003233	.0287380	.0001612	.0002354	.002865	.001131	.0001148
%RSD	32.94896	344.2644	41.75953	20.57921	6.995944	30.47144	49.66838
#1	.0011116	.0073819	.0002153	.0009622	-.041573	-.005002	.0000986
#2	.0006132	-.019895	.0005356	.0014096	-.043468	-.003243	.0002927
#3	.0012192	.037556	.0004074	.0010592	-.037836	-.002891	.0003018

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.036315**	**.0043334**	**.0012389**	**.0001470**	**.0107531**	**-.012064**	**-.000594**
Stddev	.008587	.0013940	.0002962	.0005558	.0005150	.003875	.000625
%RSD	23.64473	32.16891	23.90580	378.1018	4.789633	32.12126	105.2149
#1	-.046198	.0027586	.0015806	.0007763	.0106795	-.015370	-.001249
#2	-.030687	.0048323	.0010788	-.000058	.0102788	-.013023	-.000529
#3	-.032060	.0054093	.0010572	-.000277	.0113010	-.007800	-.000004

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB05 Acquired: 7/29/2025 18:15:14 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0015698	-.004697	.0005066
Stddev	.0010804	.002958	.0001023
%RSD	68.82563	62.97770	20.18924
#1	.0004374	-.001338	.0005980
#2	.0025895	-.005843	.0005256
#3	.0016826	-.006911	.0003961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5257.723	90005.91	7947.169	4345.411	6752.719
Stddev	8.431	651.44	15.279	6.256	15.191
%RSD	.1603466	.7237780	.1922510	.1439738	.2249602
#1	5265.296	89615.31	7955.546	4350.012	6765.048
#2	5259.234	89644.47	7929.534	4338.287	6757.360
#3	5248.639	90757.94	7956.427	4347.932	6735.749

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01MSD Acquired: 7/29/2025 18:19:34 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.7475058**	**2.013496**	**1.372655**	**1.718068**	**.4259905**	**76.16642**	**.7632661**
Stddev	.0033009	.013388	.002843	.006369	.0015173	.19322	.0022850
%RSD	.4415847	.6649211	.2071227	.3707197	.3561739	.2536824	.2993668
#1	.7440966	1.998384	1.375894	1.717378	.4247622	76.00645	.7607841
#2	.7477343	2.018229	1.371494	1.712071	.4255227	76.38110	.7652822
#3	.7506865	2.023874	1.370575	1.724754	.4276865	76.11172	.7637321

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1979550**	**.1811893**	**67.84237**	**.5063445**	**.3094578**	**.6929363**	**172.7456**
Stddev	.0022115	.0003946	.20193	.0025523	.0007809	.0015292	.6387
%RSD	1.117158	.2177985	.2976470	.5040711	.2523425	.2206798	.3697520
#1	.1955548	.1807369	67.61260	.5033982	.3094263	.6913056	173.1428
#2	.1999099	.1813678	67.99160	.5077524	.3086931	.6931654	172.0088
#3	.1984002	.1814631	67.92290	.5078828	.3102540	.6943381	173.0852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.199889**	**44.51810**	**.7214249**	**.0779855**	**7.796440**	**.5449203**	**1.154364**
Stddev	.009353	.17395	.0018107	.0001495	.030686	.0023299	.006893
%RSD	.2922989	.3907460	.2509840	.1916633	.3935883	.4275615	.5970937
#1	3.190462	44.34649	.7208740	.0780575	7.811595	.5460733	1.149739
#2	3.209167	44.51350	.7199536	.0780853	7.761125	.5464488	1.162286
#3	3.200037	44.69431	.7234470	.0778137	7.816600	.5422387	1.151067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.42919**	**.2958585**	**.3925941**	**.7412423**	**4.305204**	**5.768719**	**11.36691**
Stddev	.10235	.0028971	.0007422	.0014162	.008938	.172548	.02362
%RSD	.4563444	.9792175	.1890518	.1910520	.2075998	2.991092	.2078141
#1	22.33838	.2979417	.3919030	.7409051	4.299095	5.617412	11.33990
#2	22.40908	.2925501	.3925008	.7400251	4.315462	5.732112	11.37711
#3	22.54010	.2970836	.3933785	.7427966	4.301054	5.956633	11.38371

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01MSD Acquired: 7/29/2025 18:19:34 Type: Unk
Method: 6010-200.7 NEW(v66) 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	3.150789	.3509395	.2576289
Stddev	.016731	.0018064	.0015621
%RSD	.5310130	.5147260	.6063382
#1	3.147684	.3530187	.2560073
#2	3.135827	.3497561	.2591237
#3	3.168854	.3500437	.2577558

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5470.476	95736.90	8959.698	4583.985	5751.199
Stddev	9.524	435.98	72.856	28.716	9.117
%RSD	.1741072	.4553903	.8131493	.6264376	.1585209
#1	5481.376	96201.77	9040.952	4609.023	5761.530
#2	5466.296	95671.82	8900.194	4552.640	5744.281
#3	5463.756	95337.13	8937.950	4590.293	5747.786

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01A Acquired: 7/29/2025 18:23:31 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**.7454222**	**1.901792**	**1.358871**	**1.725435**	**.7689099**	**70.98742**	**.7599489**
Stddev	.0006851	.061660	.001304	.006708	.0038109	.26198	.0024550
%RSD	.0919118	3.242199	.0959844	.3887719	.4956258	.3690487	.3230455
#1	.7460612	1.845648	1.357639	1.719202	.7672709	71.28918	.7617441
#2	.7455067	1.891944	1.358736	1.724570	.7661927	70.85499	.7609514
#3	.7446988	1.967783	1.360237	1.732534	.7732661	70.81810	.7571514

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1911993**	**.1754554**	**55.08533**	**.5047050**	**.2990845**	**.6699504**	**193.5657**
Stddev	.0006285	.0012241	.28683	.0015757	.0004105	.0009639	.0859
%RSD	.3287091	.6976701	.5206974	.3122090	.1372642	.1438710	.0443950
#1	.1917444	.1742035	55.24226	.5058527	.2986492	.6705382	193.4985
#2	.1913416	.1755130	55.25944	.5029084	.2991398	.6688381	193.6625
#3	.1905119	.1766496	54.75428	.5053538	.2994646	.6704751	193.5360

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.216302**	**39.60548**	**.6957736**	**.0779095**	**7.810677**	**.5500074**	**.9503339**
Stddev	.007686	.18293	.0013354	.0004593	.014495	.0008194	.0043838
%RSD	.2389740	.4618921	.1919266	.5895583	.1855730	.1489715	.4612885
#1	3.224999	39.81286	.6944396	.0774013	7.825996	.5504146	.9453013
#2	3.213484	39.53660	.6957708	.0780321	7.808854	.5490642	.9533215
#3	3.210423	39.46699	.6971104	.0782950	7.797180	.5505433	.9523791

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.58933**	**.2971592**	**.3991638**	**.7620814**	**3.832403**	**5.756083**	**11.29324**
Stddev	.06183	.0026211	.0011201	.0035554	.000170	.024504	.01956
%RSD	.2736926	.8820483	.2806007	.4665441	.0044404	.4257044	.1731594
#1	22.54114	.2952108	.3980983	.7592235	3.832216	5.741691	11.27958
#2	22.65904	.2961277	.3990618	.7609577	3.832549	5.742183	11.28450
#3	22.56781	.3001391	.4003314	.7660629	3.832444	5.784377	11.31564

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: Q2710-01A Acquired: 7/29/2025 18:23:31 Type: Unk
Method: 6010-200.7 NEW(v66) 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	3.805557	.3476916	.2355587
Stddev	.029095	.0034362	.0019138
%RSD	.7645286	.9882870	.8124672
#1	3.773208	.3479768	.2370843
#2	3.813879	.3509762	.2361804
#3	3.829584	.3441216	.2334113

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5728.673	96472.44	9221.890	4677.511	5973.007
Stddev	5.057	66.21	27.149	23.174	6.739
%RSD	.0882694	.0686303	.2943951	.4954405	.1128274
#1	5726.351	96515.10	9193.453	4699.750	5979.261
#2	5734.474	96396.17	9224.682	4653.503	5973.890
#3	5725.194	96506.05	9247.535	4679.278	5965.870

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV06 Acquired: 7/29/2025 18:31:54 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.135795**	**5.233562**	**4.953967**	**5.210410**	**5.268378**	**10.19791**
Stddev	.007187	.064695	.002790	.014240	.009044	.01797
%RSD	.1399365	1.236164	.0563184	.2733000	.1716594	.1761765
#1	5.132176	5.187488	4.950999	5.199121	5.263107	10.21670
#2	5.131138	5.205673	4.956537	5.226408	5.278821	10.19612
#3	5.144072	5.307524	4.954364	5.205700	5.263207	10.18090

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.69846**	F **.2965975**	**2.315306**	**27.46993**	**.9712002**	**2.525649**
Stddev	.11129	.0018437	.006681	.08468	.0011618	.001111
%RSD	1.040198	.6216095	.2885458	.3082554	.1196282	.0439750
#1	10.82097	.2987256	2.311048	27.54694	.9698616	2.525715
#2	10.60362	.2954823	2.311864	27.48359	.9717933	2.526725
#3	10.67079	.2955847	2.323006	27.37925	.9719459	2.524507

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.282112**	**4.786174**	**2.694468**	**25.24735**	**2.525420**	**1.304256**
Stddev	.000782	.022778	.003452	.07173	.001403	.002424
%RSD	.0609688	.4759063	.1281161	.2841092	.0555437	.1858327
#1	1.281237	4.759874	2.698374	25.30188	2.526857	1.306136
#2	1.282740	4.799538	2.693203	25.16609	2.525349	1.301520
#3	1.282359	4.799111	2.691827	25.27407	2.524055	1.305110

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.97512**	**2.588016**	**2.652071**	**24.56074**	F **5.838614**	**5.257025**
Stddev	.11394	.006160	.007614	.12718	.035721	.006915
%RSD	.5431976	.2380054	.2871081	.5178159	.6118135	.1315331
#1	20.84411	2.593639	2.649845	24.41733	5.879825	5.249242
#2	21.05107	2.588977	2.645817	24.60505	5.816503	5.262459
#3	21.03019	2.581433	2.660550	24.65983	5.819513	5.259375

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCV06 Acquired: 7/29/2025 18:31:54 Type: Unk
Method: 6010-200.7 NEW(v66) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.008903**	**5.089590**	F **4.484519**	**5.030418**	**4.989133**	**4.976661**
Stddev	.004718	.008636	.023417	.029759	.017545	.006330
%RSD	.0941900	.1696721	.5221832	.5915714	.3516581	.1272029
#1	5.005198	5.098780	4.459632	5.059743	4.978006	4.975893
#2	5.007297	5.088348	4.506119	5.031267	4.980035	4.983340
#3	5.014214	5.081644	4.487806	5.000244	5.009358	4.970749

Elem	Sr4077
Units	ppm
Avg	F **5.545476**
Stddev	.020819
%RSD	.3754191
#1	5.562896
#2	5.522419
#3	5.551112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5057.150**	**84287.72**	**7076.828**	**4111.331**	**6088.792**
Stddev	3.252	138.68	43.207	8.733	4.349
%RSD	.0643046	.1645317	.6105400	.2124027	.0714311
#1	5055.972	84338.34	7027.994	4105.991	6085.773
#2	5060.826	84130.84	7092.396	4106.593	6093.778
#3	5054.650	84393.97	7110.093	4121.409	6086.827

Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB06 Acquired: 7/29/2025 18:36:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	**-.001194**	**.0004010**	**.0004750**	**.0006738**	**.0002619**	**-.006915**	**.0004214**
Stddev	.000602	.0014042	.0007219	.0032960	.0005311	.003715	.0012148
%RSD	50.38747	350.2090	151.9975	489.1631	202.8150	53.71971	288.2893
#1	-.000995	.0015515	.0010717	-.002813	.0008450	-.011132	.0017414
#2	-.000717	-.001164	.0006807	.001095	-.000194	-.004125	-.000650
#3	-.001870	.000815	-.000327	.003739	.000135	-.005490	.000172

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000701**	**.0002707**	**.0193462**	**.0000464**	**.0002364**	**.0000978**	**-.000200**
Stddev	.0000376	.0000404	.0048568	.0001253	.0003708	.0004867	.002535
%RSD	53.65772	14.93745	25.10479	270.4414	156.8489	497.6447	1269.686
#1	.0001136	.0003152	.0185613	.0001348	.0006643	.0006347	.002445
#2	.0000478	.0002609	.0149296	.0001013	.0000083	-.000027	-.000436
#3	.0000489	.0002361	.0245476	-.000097	.0000367	-.000315	-.002608

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004308**	**.0178132**	**.0003177**	**.0009535**	**-.067805**	**-.003357**	**.0003627**
Stddev	.0004786	.0112417	.0000381	.0002841	.013224	.001117	.0002047
%RSD	111.0923	63.10847	11.99579	29.79952	19.50214	33.26182	56.45573
#1	.0009723	.0166905	.0003617	.0006263	-.052566	-.002087	.0005985
#2	.0002554	.0071751	.0002951	.0011378	-.074607	-.004184	.0002590
#3	.0000646	.0295742	.0002962	.0010964	-.076244	-.003800	.0002305

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.078514**	**.0054824**	**.0010117**	**.0001793**	**.0092044**	**-.004959**	**-.002495**
Stddev	.011223	.0003524	.0002423	.0004717	.0019547	.004328	.002314
%RSD	14.29429	6.428456	23.94715	263.1563	21.23652	87.27491	92.75464
#1	-.089192	.0058749	.0012778	-.000182	.0113801	-.007163	-.004066
#2	-.066816	.0053795	.0009534	.000713	.0075963	.000027	-.003581
#3	-.079535	.0051929	.0008039	.000007	.0086369	-.007742	.000162

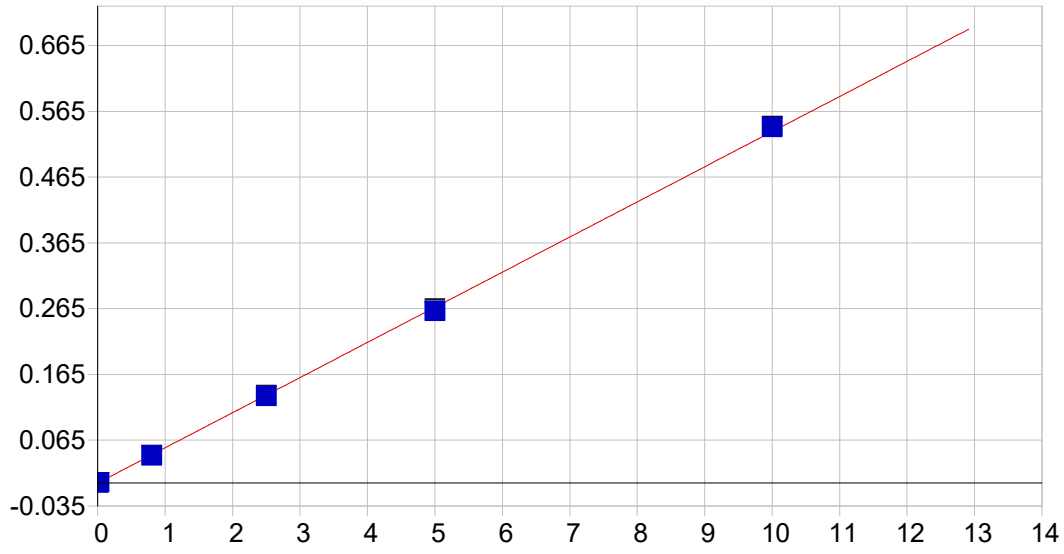
Reviewed By:MOHAN
On:8/1/2025 5:25:28 PM
Inst Id :P4
LB :LB136648

Sample Name: CCB06 Acquired: 7/29/2025 18:36:06 Type: Unk
Method: 6010-200.7 NEW(v66) 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	.0017866	-.004996	.0006605
Stddev	.0020476	.001405	.0000701
%RSD	114.6089	28.11692	10.60967
#1	.0041322	-.006367	.0007414
#2	.0003556	-.005063	.0006178
#3	.0008721	-.003560	.0006222

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5245.998	89011.25	8304.180	4343.884	6718.282
Stddev	8.249	451.55	35.938	17.105	20.578
%RSD	.1572514	.5072908	.4327721	.3937722	.3062938
#1	5251.336	89528.45	8263.405	4356.153	6725.674
#2	5250.162	88809.86	8317.892	4351.155	6734.142
#3	5236.497	88695.44	8331.244	4324.345	6695.029

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



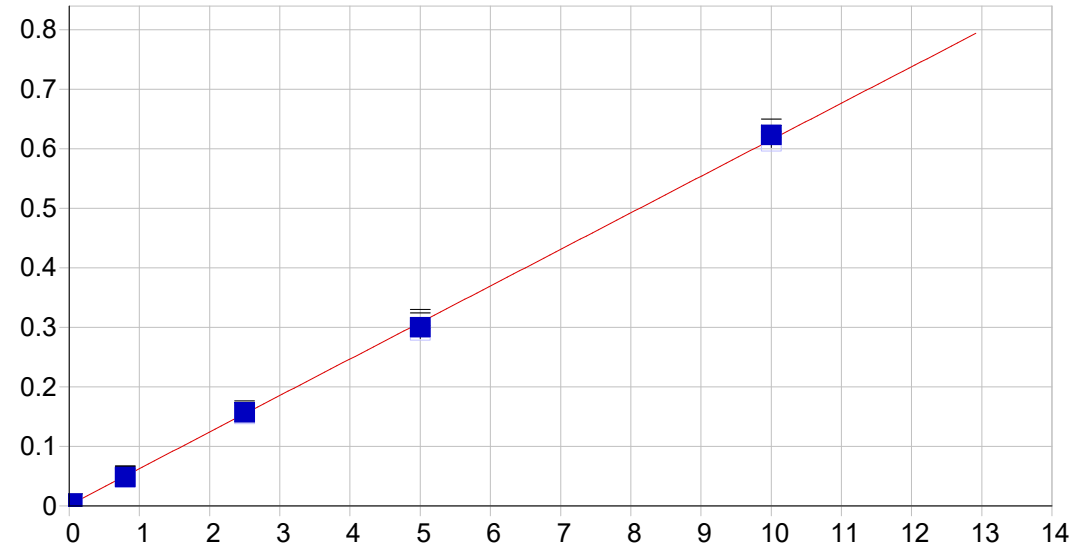
As 189.042 {479}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000048	Re-Slope:	1.000000
A1 (Gain):	0.053424	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.002408		
Predicted MQL:	0.008027		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00005	.000	1
S1	.02000	.01967	-.000	-1.65	.00100	.000	1
S3	2.5000	2.4766	-.023	-.936	.13212	.001	1
S4	5.0000	4.9017	-.098	-1.97	.26153	.003	1
S5	10.000	10.135	.135	1.35	.54081	.001	1
S2	.80000	.78725	-.013	-1.59	.04196	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



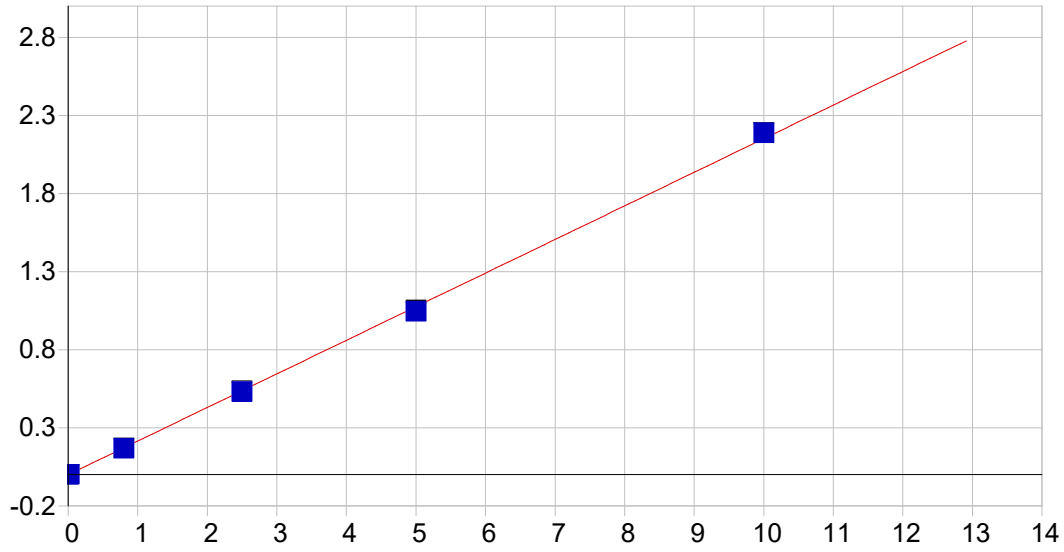
Tl 190.856 {477}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001276	Re-Slope:	1.000000
A1 (Gain):	0.061396	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999792	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.002136		
Predicted MQL:	0.007121		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00128	.000	1
S1	.04000	.03973	-.000	-.676	.00356	.000	1
S3	2.5000	2.5355	.035	1.42	.15422	.003	1
S4	5.0000	4.8663	-.134	-2.67	.29460	.013	1
S5	10.000	10.133	.133	1.33	.61253	.010	1
S2	.80000	.76526	-.035	-4.34	.04739	.002	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



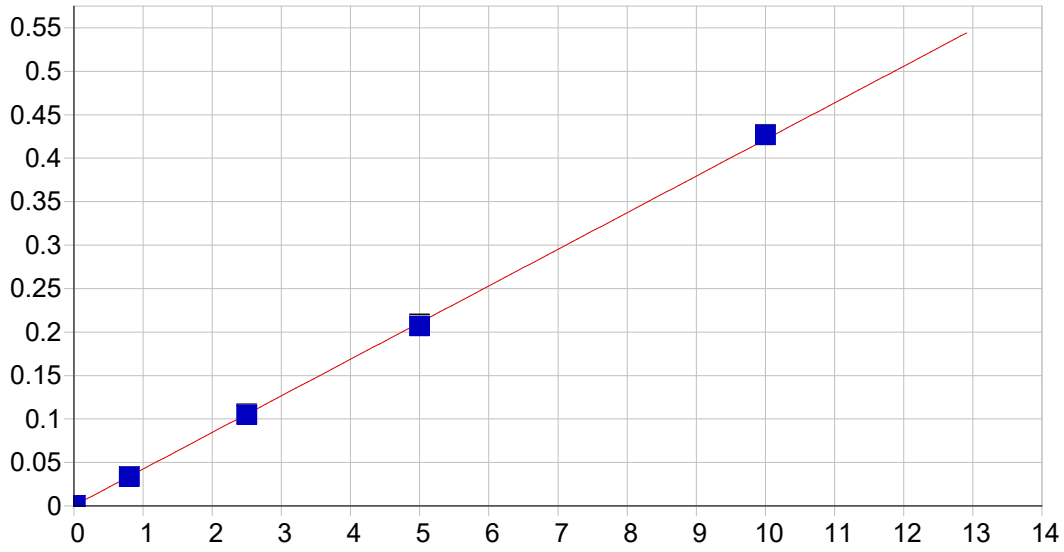
Pb 220.353 {453}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.215087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999800	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.001392		
Predicted MQL:	0.004639		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.01200	.01335	.001	11.2	.00283	.000	1
S3	2.5000	2.4722	-.028	-1.11	.53120	.005	1
S4	5.0000	4.8658	-.134	-2.68	1.0455	.006	1
S5	10.000	10.174	.174	1.74	2.1861	.003	1
S2	.80000	.78651	-.013	-1.69	.16900	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



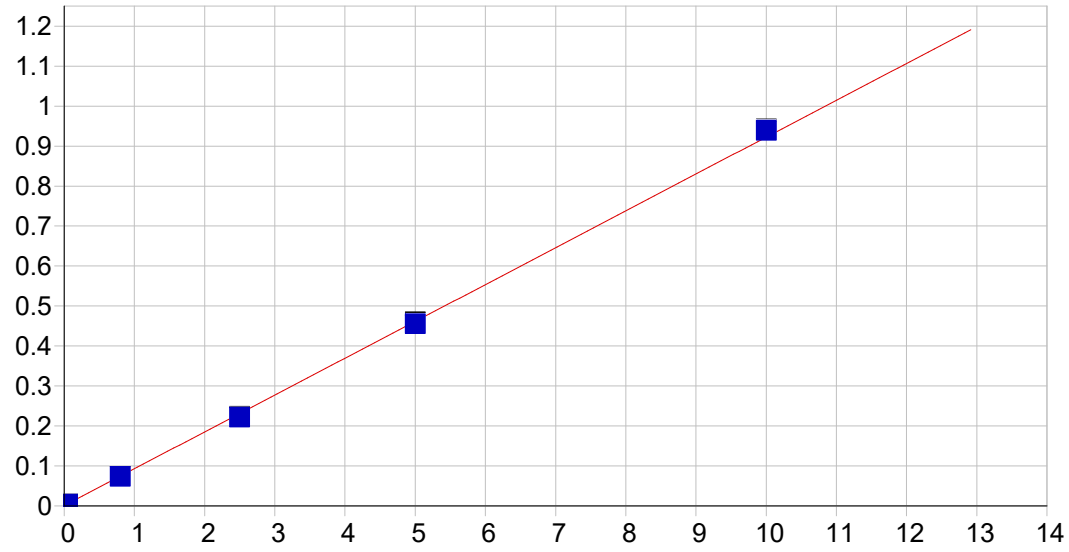
Se 196.090 {472}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000251	Re-Slope:	1.000000
A1 (Gain):	0.042126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003695		
Predicted MQL:	0.012316		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00025	.000	1
S1	.02000	.01819	-.002	-9.07	.00102	.000	1
S3	2.5000	2.4841	-.016	-.637	.10486	.001	1
S4	5.0000	4.9034	-.097	-1.93	.20675	.002	1
S5	10.000	10.126	.126	1.26	.42671	.000	1
S2	.80000	.78796	-.012	-1.51	.03343	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



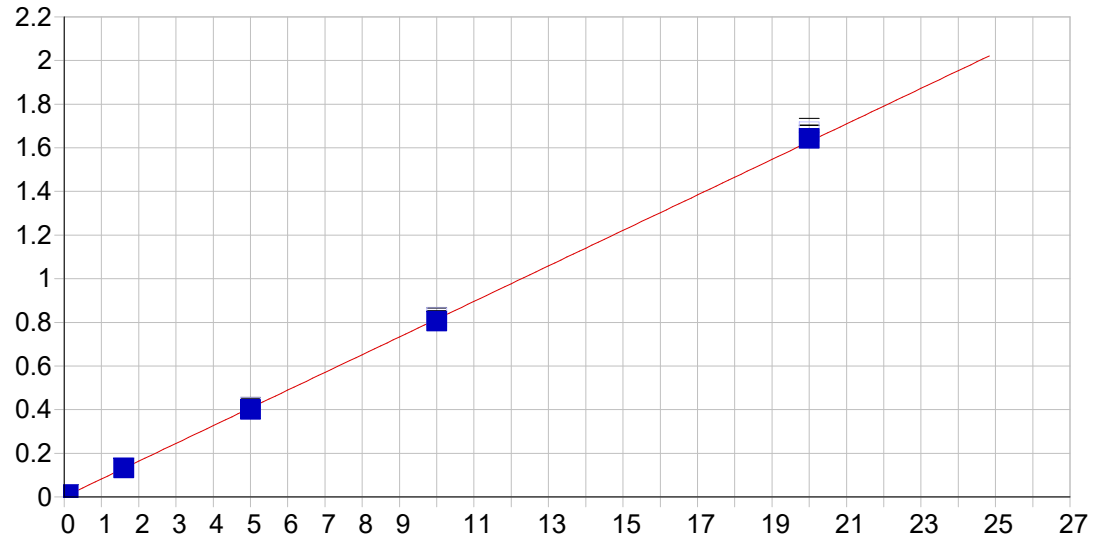
Sb 206.833 {463}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000715	Re-Slope:	1.000000
A1 (Gain):	0.092159	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999780	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.002249		
Predicted MQL:	0.007497		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00072	.000	1
S1	.05000	.04869	-.001	-2.61	.00521	.000	1
S3	2.5000	2.4012	-.099	-3.95	.22264	.001	1
S4	5.0000	4.9323	-.068	-1.35	.45653	.004	1
S5	10.000	10.177	.177	1.77	.94117	.002	1
S2	.80000	.79031	-.010	-1.21	.07375	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



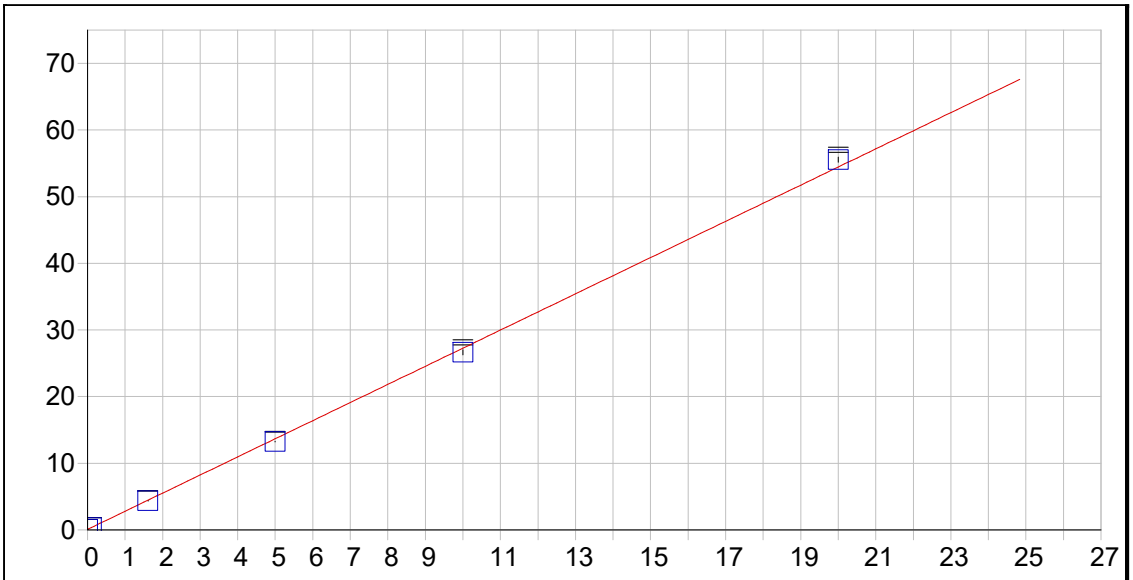
Al 396.152 { 85}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001079	Re-Slope:	1.000000
A1 (Gain):	0.081355	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.013993		
Predicted MQL:	0.046642		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00108	.001	1
S1	.10000	.11546	.015	15.5	.01110	.001	1
S3	5.0000	4.9127	-.087	-1.75	.40864	.002	1
S4	10.000	9.8904	-.110	-1.10	.82149	.002	1
S5	20.000	20.172	.172	.861	1.6737	.016	1
S2	1.6000	1.6083	.008	.519	.13445	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



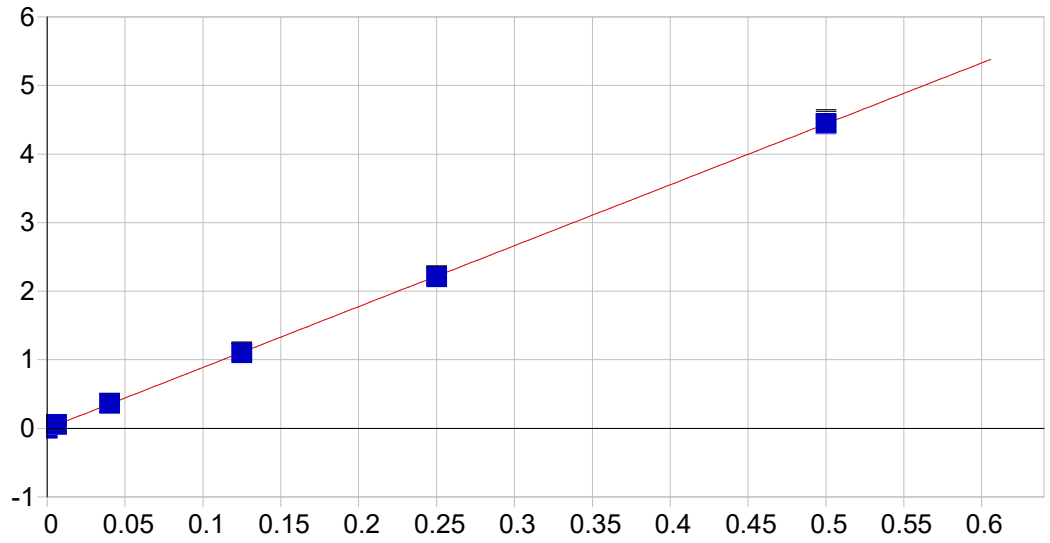
Ba 493.409 { 68}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.083822	Re-Slope:	1.000000
A1 (Gain):	2.718552	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999751	Status:	OK.
Std Error of Est:	0.004500		
Predicted MDL:	0.001021		
Predicted MQL:	0.003403		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.08383	.003	1
S1	.10000	.10144	.001	1.44	.35959	.006	1
S3	5.0000	4.8482	-.152	-3.04	13.264	.036	1
S4	10.000	9.7706	-.229	-2.29	26.646	.388	1
S5	20.000	20.402	.402	2.01	55.548	.394	1
S2	1.6000	1.5777	-.022	-1.39	4.3730	.013	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



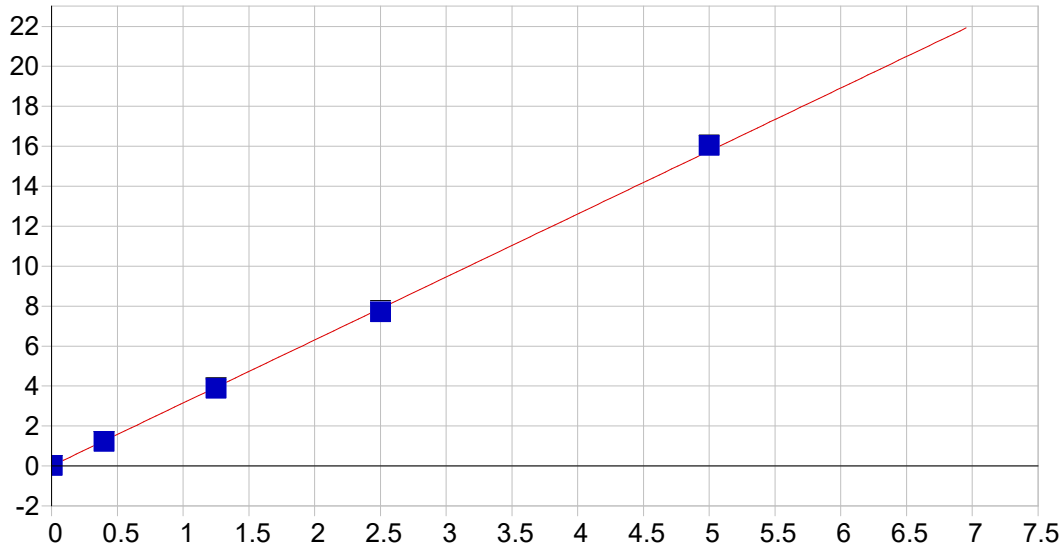
Be 234.861 {144}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001227	Re-Slope:	1.000000
A1 (Gain):	8.883295	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000187		
Predicted MDL:	0.000076		
Predicted MQL:	0.000253		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00123	.001	1
S1	.00600	.00635	.000	5.77	.05475	.001	1
S3	.12500	.12394	-.001	-.848	1.0948	.015	1
S4	.25000	.24910	-.001	-.359	2.2017	.012	1
S5	.50000	.50081	.001	.163	4.4277	.052	1
S2	.04000	.04080	.001	2.00	.35963	.005	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



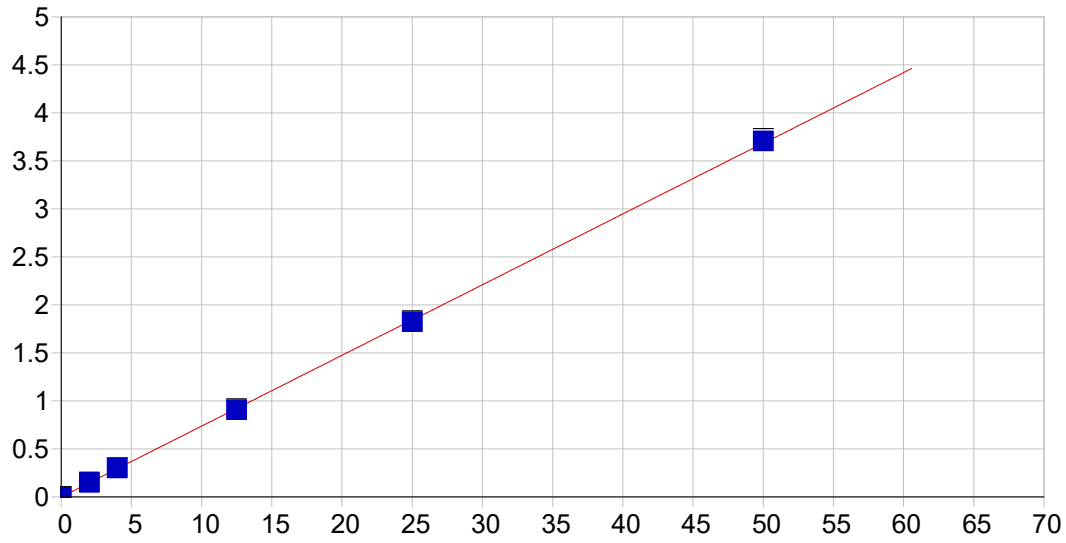
Cd 226.502 {449}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000394	Re-Slope:	1.000000
A1 (Gain):	3.152791	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000552		
Predicted MDL:	0.000080		
Predicted MQL:	0.000266		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00039	.000	1
S1	.00600	.00567	-.000	-5.49	.01755	.000	1
S3	1.2500	1.2324	-.018	-1.40	3.8879	.034	1
S4	2.5000	2.4454	-.055	-2.18	7.7148	.053	1
S5	5.0000	5.0861	.086	1.72	16.045	.014	1
S2	.40000	.38632	-.014	-3.42	1.2184	.003	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



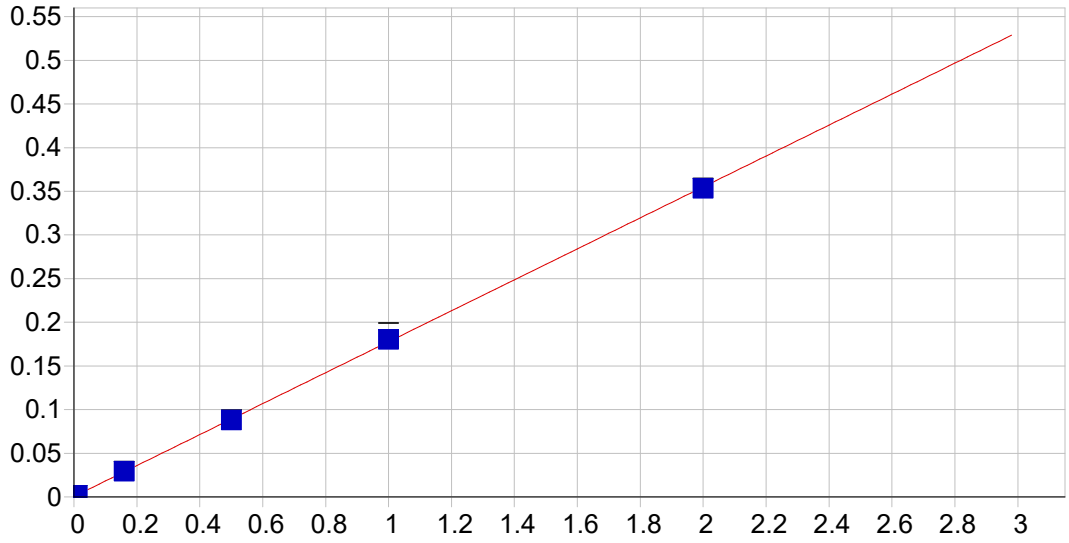
Ca 373.690 { 90}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001453	Re-Slope:	1.000000
A1 (Gain):	0.073643	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000394		
Predicted MDL:	0.012869		
Predicted MQL:	0.042897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00145	.000	1
S2	4.0000	4.0734	.073	1.83	.30143	.002	1
S3	12.500	12.305	-.195	-1.56	.90765	.008	1
S4	25.000	24.755	-.245	-.979	1.8245	.009	1
S5	50.000	50.331	.331	.663	3.7080	.024	1
S1	2.0000	2.0347	.035	1.73	.15129	.002	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



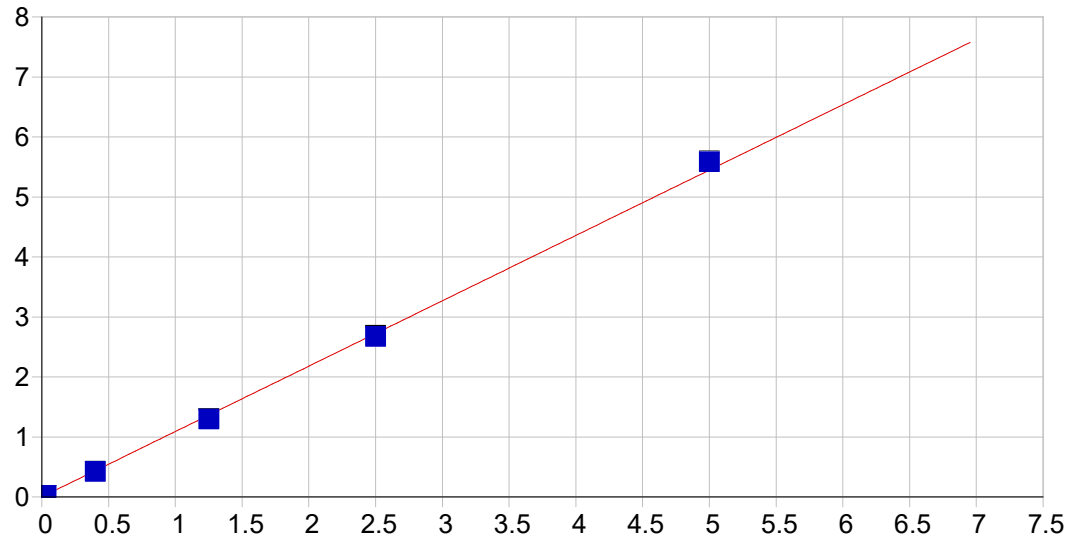
Cr 267.716 {126}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000484	Re-Slope:	1.000000
A1 (Gain):	0.177250	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.000426		
Predicted MQL:	0.001420		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00048	.000	1
S1	.01000	.00865	-.001	-13.5	.00202	.000	1
S3	.50000	.49433	-.006	-1.13	.08814	.000	1
S4	1.0000	1.0138	.014	1.38	.18025	.008	1
S5	2.0000	1.9915	-.009	-.427	.35361	.000	1
S2	.16000	.16177	.002	1.10	.02917	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



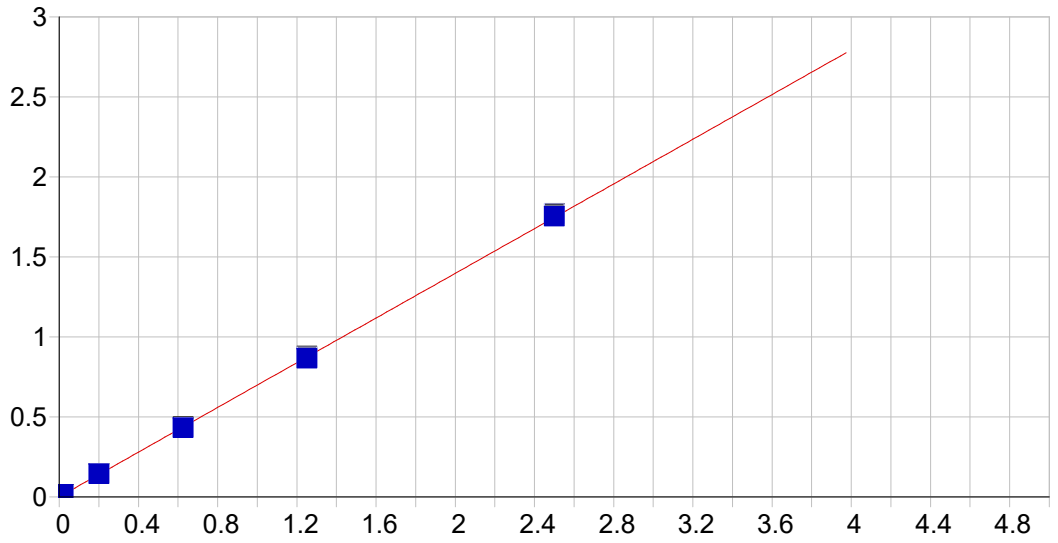
Co 228.616 {448}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000501	Re-Slope:	1.000000
A1 (Gain):	1.089386	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999600	Status:	OK.
Std Error of Est:	0.000627		
Predicted MDL:	0.000209		
Predicted MQL:	0.000697		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.03000	.02938	-.001	-2.06	.03237	.000	1
S3	1.2500	1.1888	-.061	-4.90	1.2979	.011	1
S4	2.5000	2.4504	-.050	-1.98	2.6746	.017	1
S5	5.0000	5.1231	.123	2.46	5.5908	.010	1
S2	.40000	.38828	-.012	-2.93	.42423	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



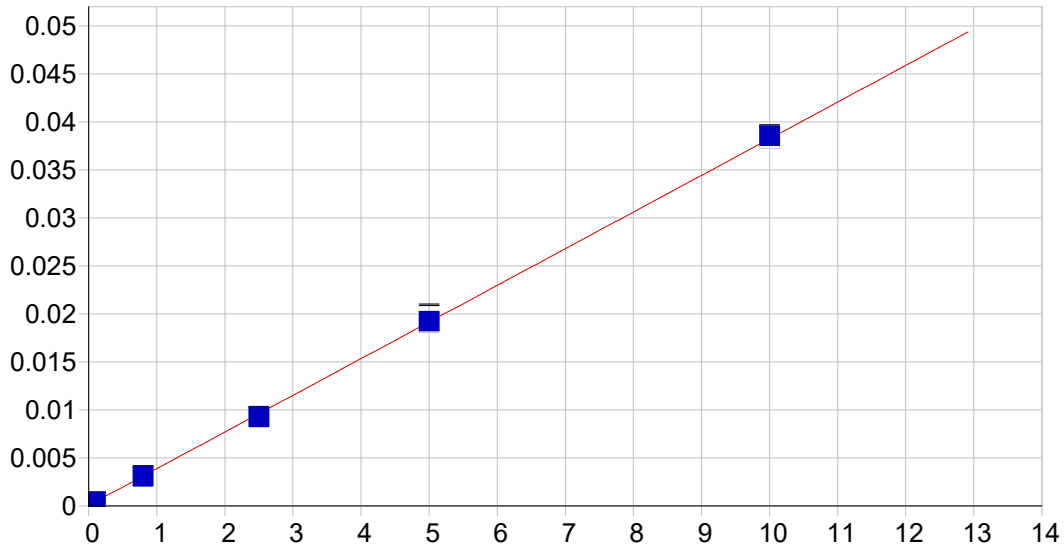
Cu 224.700 {450}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000755	Re-Slope:	1.000000
A1 (Gain):	0.698350	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.000457		
Predicted MQL:	0.001523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00075	.000	1
S1	.02000	.02176	.002	8.79	.01611	.000	1
S3	.62500	.61632	-.009	-1.39	.43480	.004	1
S4	1.2500	1.2399	-.010	-.805	.87394	.006	1
S5	2.5000	2.5114	.011	.457	1.7692	.002	1
S2	.20000	.20555	.006	2.77	.14546	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



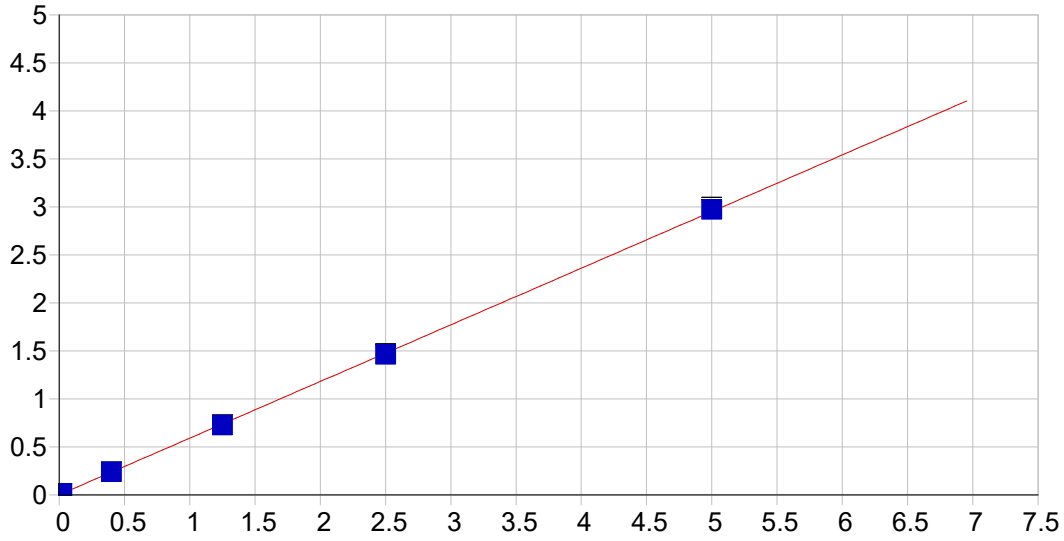
Fe 240.488 {140}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000062	Re-Slope:	1.000000
A1 (Gain):	0.003819	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.007080		
Predicted MQL:	0.023601		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00006	.000	1
S1	.10000	.09809	-.002	-1.91	.00043	.000	1
S3	2.5000	2.4121	-.088	-3.52	.00919	.000	1
S4	5.0000	5.0200	.020	.401	.01907	.001	1
S5	10.000	10.080	.080	.801	.03823	.000	1
S2	.80000	.78965	-.010	-1.29	.00305	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



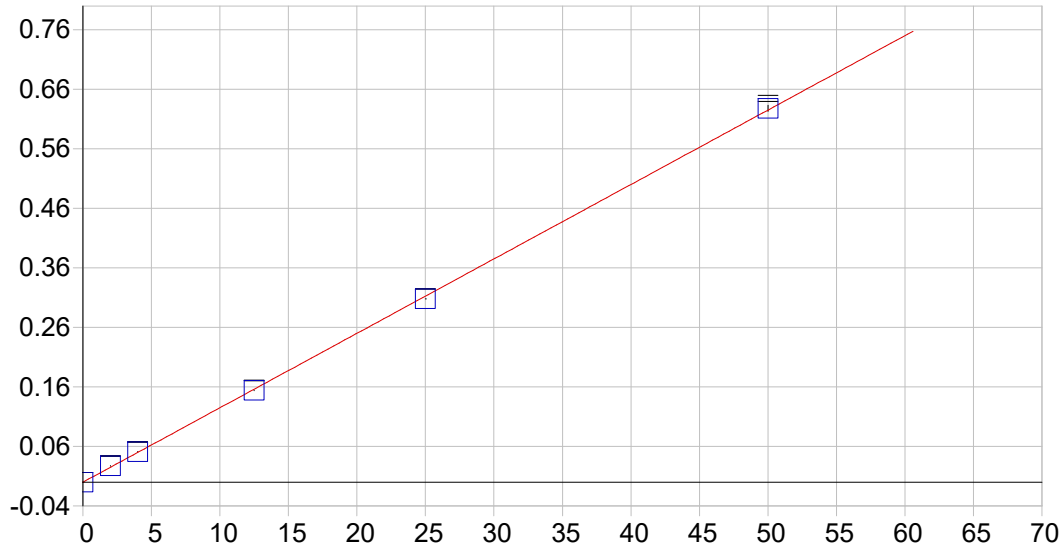
Mn 257.610 {131}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001126	Re-Slope:	1.000000
A1 (Gain):	0.590057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.000602		
Predicted MQL:	0.002008		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00113	.000	1
S1	.02000	.02011	.000	.572	.01300	.000	1
S3	1.2500	1.2304	-.020	-1.57	.72726	.004	1
S4	2.5000	2.4769	-.023	-.925	1.4629	.006	1
S5	5.0000	5.0364	.036	.728	2.9735	.023	1
S2	.40000	.40624	.006	1.56	.24088	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



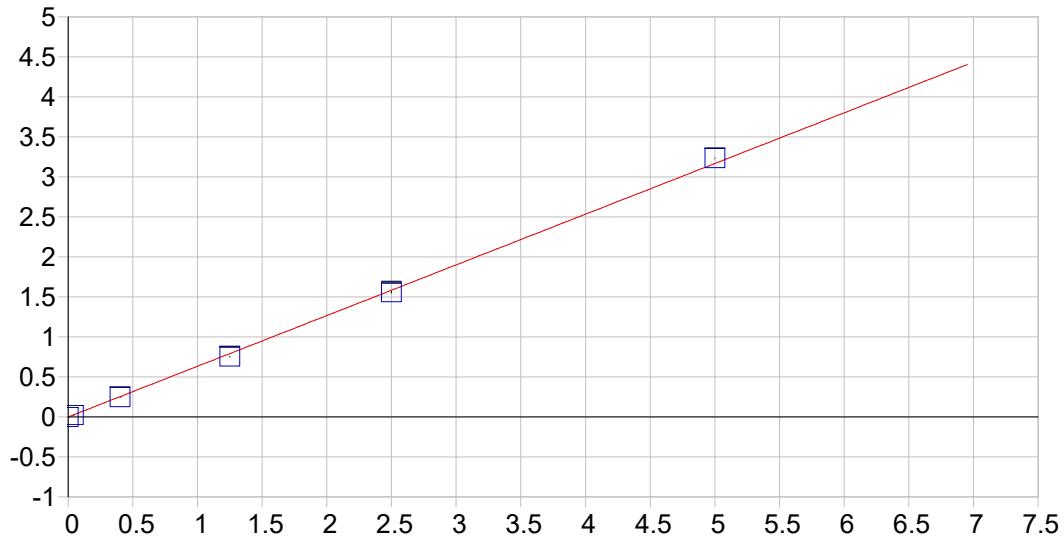
Mg 279.079 {121}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000169	Re-Slope:	1.000000
A1 (Gain):	0.012508	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.032441		
Predicted MQL:	0.108138		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00019	-.000	.000	-.00017	.000	1
S2	4.0000	4.0956	.096	2.39	.05106	.000	1
S3	12.500	12.335	-.165	-1.32	.15412	.001	1
S4	25.000	24.643	-.357	-1.43	.30806	.000	1
S5	50.000	50.234	.234	.468	.62814	.005	1
S1	2.0000	2.1916	.192	9.58	.02724	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



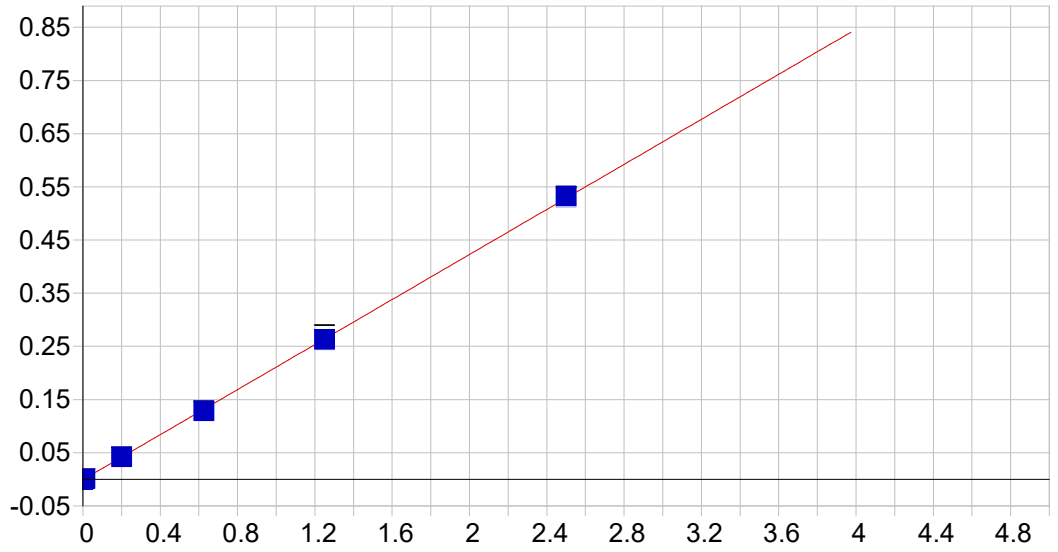
Ni 231.604 {446}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000427	Re-Slope:	1.000000
A1 (Gain):	0.633572	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.000370		
Predicted MDL:	0.000382		
Predicted MQL:	0.001274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00042	.000	1
S1	.04000	.03973	-.000	-.673	.02475	.000	1
S3	1.2500	1.1920	-.058	-4.64	.75481	.006	1
S4	2.5000	2.4619	-.038	-1.52	1.5594	.011	1
S5	5.0000	5.1054	.105	2.11	3.2342	.003	1
S2	.40000	.39098	-.009	-2.25	.24729	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



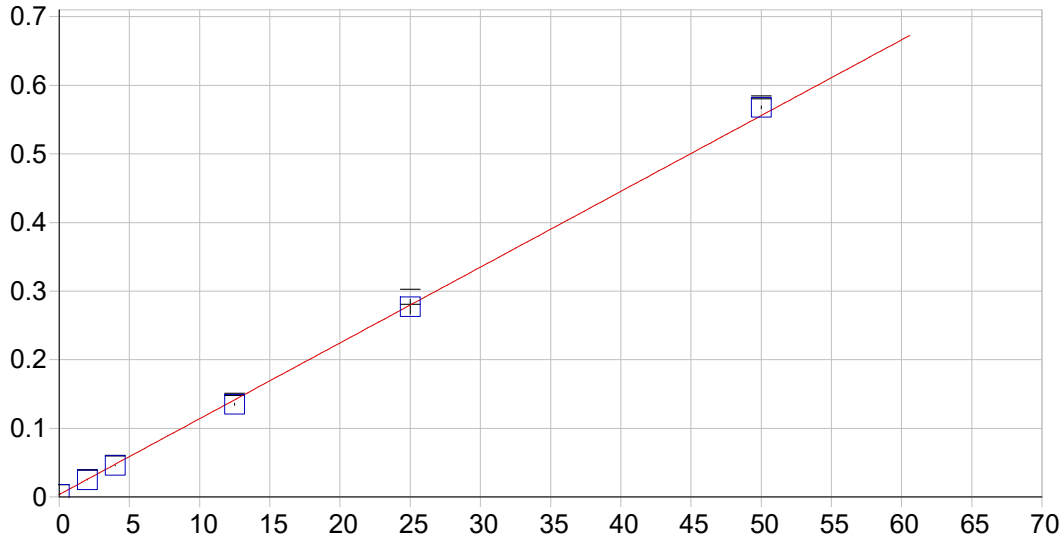
Ag 328.068 {103}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000781	Re-Slope:	1.000000
A1 (Gain):	0.211805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.000612		
Predicted MQL:	0.002041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00078	.000	1
S1	.01000	.01000	.000	.045	.00132	.000	1
S3	.62500	.61087	-.014	-2.26	.12796	.000	1
S4	1.2500	1.2454	-.005	-.369	.26172	.009	1
S5	2.5000	2.5166	.017	.663	.52967	.000	1
S2	.20000	.20217	.002	1.09	.04183	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



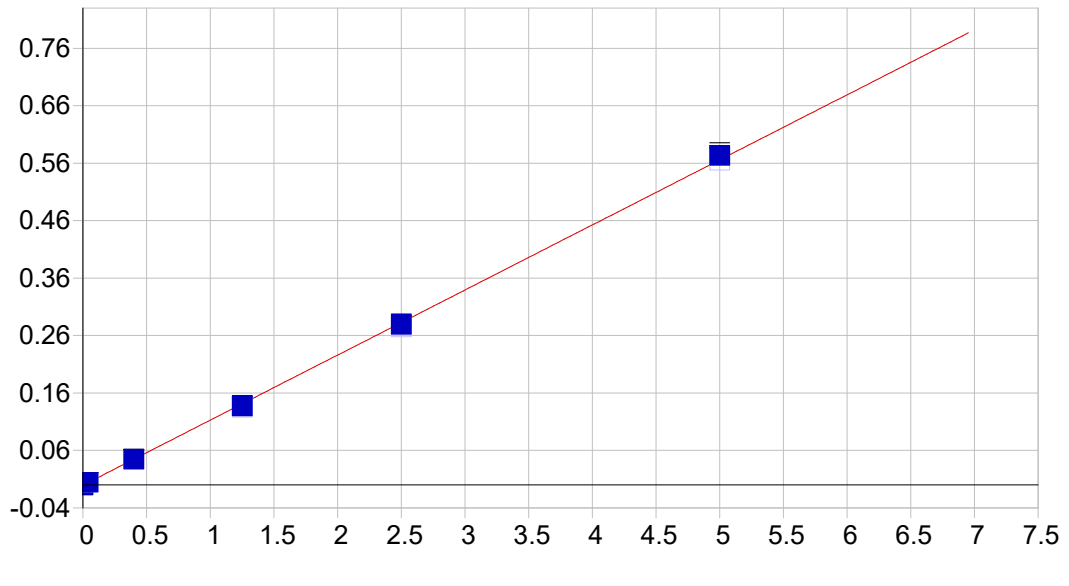
Na 589.592 { 57}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003550	Re-Slope:	1.000000
A1 (Gain):	0.011046	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999647	Status:	OK.
Std Error of Est:	0.000155		
Predicted MDL:	0.015454		
Predicted MQL:	0.051513		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00023	.000	.000	.00355	.000	1
S2	4.0000	3.8167	-.183	-4.58	.04571	.000	1
S3	12.500	11.894	-.606	-4.85	.13493	.002	1
S4	25.000	24.769	-.231	-.923	.27714	.011	1
S5	50.000	51.088	1.09	2.18	.56786	.002	1
S1	2.0000	1.9315	-.069	-3.43	.02488	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



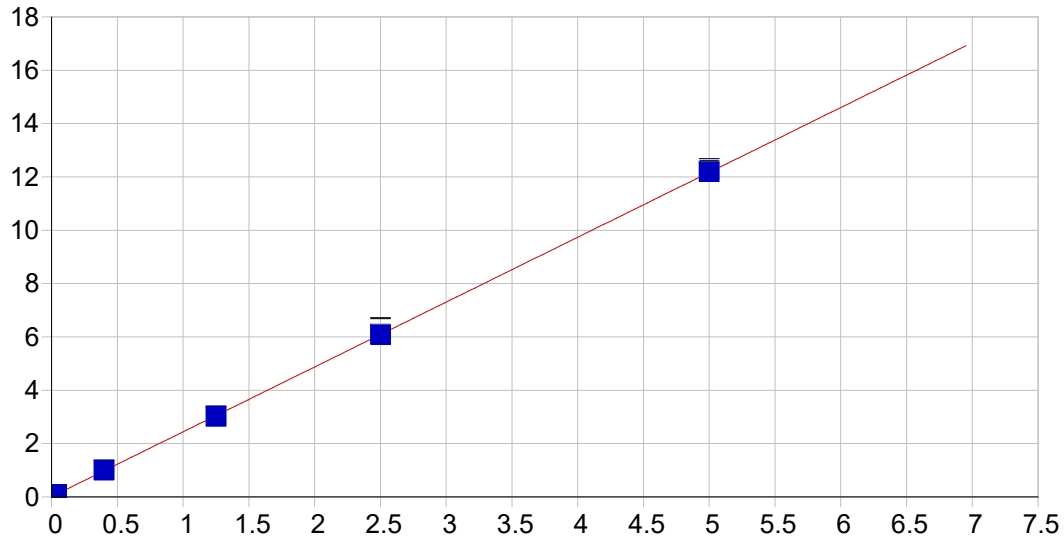
V 292.402 {115}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000449	Re-Slope:	1.000000
A1 (Gain):	0.113243	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.003917		
Predicted MQL:	0.013058		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.04000	.04378	.004	9.46	.00434	.000	1
S3	1.2500	1.2156	-.034	-2.75	.13515	.001	1
S4	2.5000	2.4685	-.032	-1.26	.27496	.001	1
S5	5.0000	5.0648	.065	1.30	.56485	.005	1
S2	.40000	.39745	-.003	-.639	.04390	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



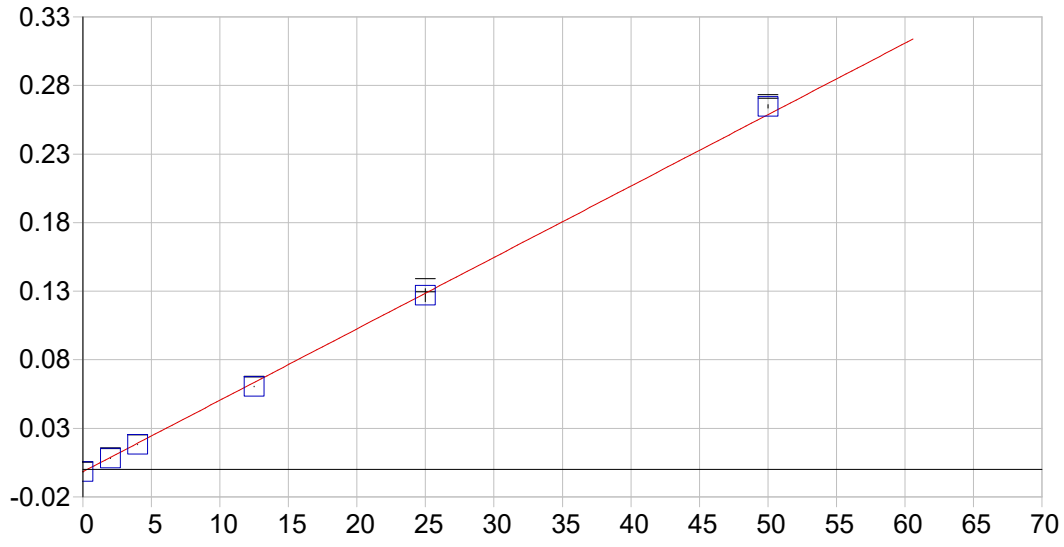
Zn 213.856 {158}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008797	Re-Slope:	1.000000
A1 (Gain):	2.432222	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000354		
Predicted MDL:	0.000257		
Predicted MQL:	0.000855		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00879	.000	1
S1	.04000	.04117	.001	2.93	.10962	.001	1
S3	1.2500	1.2355	-.015	-1.16	3.0349	.014	1
S4	2.5000	2.4978	-.002	-.090	6.1262	.228	1
S5	5.0000	5.0082	.008	.165	12.275	.036	1
S2	.40000	.40734	.007	1.84	1.0063	.003	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



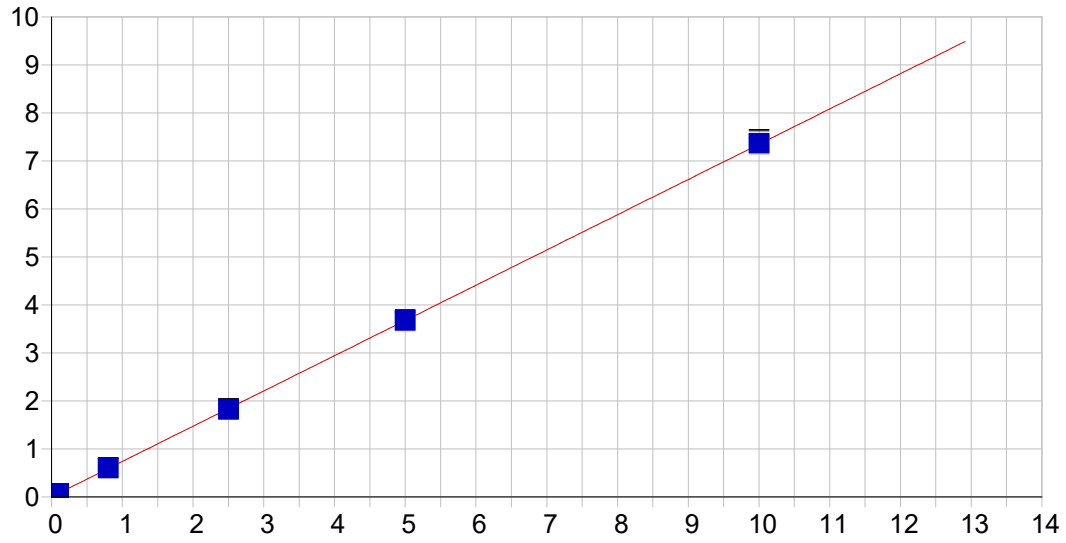
K 766.490 { 44}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001617	Re-Slope:	1.000000
A1 (Gain):	0.005207	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999626	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.042625		
Predicted MQL:	0.142083		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00026	.000	.000	-.00162	.000	1
S2	4.0000	3.8007	-.199	-4.98	.01817	.000	1
S3	12.500	11.933	-.567	-4.54	.06052	.000	1
S4	25.000	24.711	-.289	-1.15	.12705	.005	1
S5	50.000	51.150	1.15	2.30	.26471	.001	1
S1	2.0000	1.9054	-.095	-4.73	.00830	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



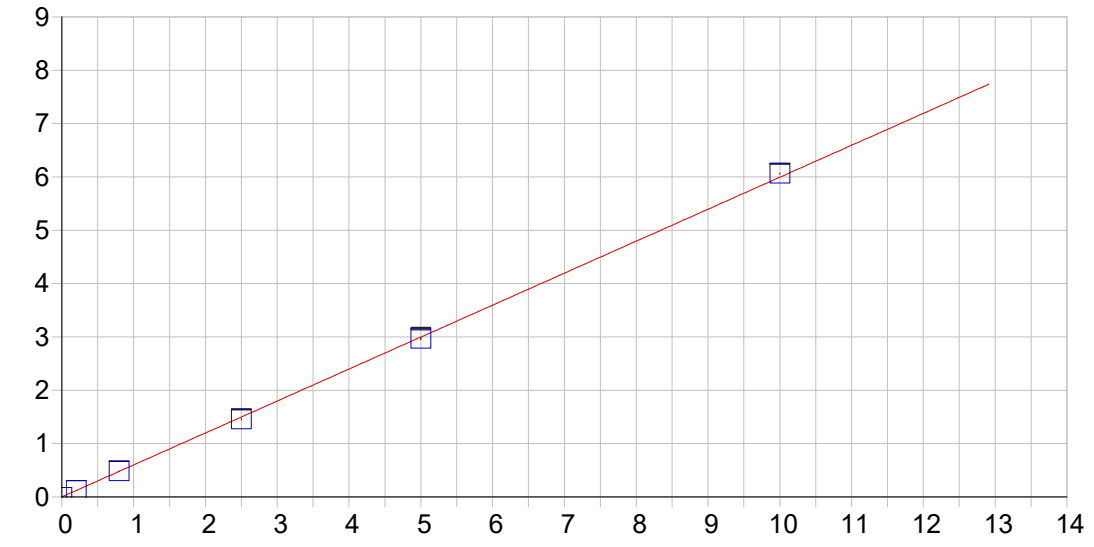
B 249.678 {135}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004456	Re-Slope:	1.000000
A1 (Gain):	0.734330	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.000975		
Predicted MQL:	0.003251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00445	.000	1
S1	.10000	.10286	.003	2.86	.07956	.001	1
S3	2.5000	2.4735	-.026	-1.06	1.8142	.021	1
S4	5.0000	4.9931	-.007	-.138	3.6578	.025	1
S5	10.000	10.021	.021	.213	7.3369	.080	1
S2	.80000	.80923	.009	1.15	.59658	.008	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



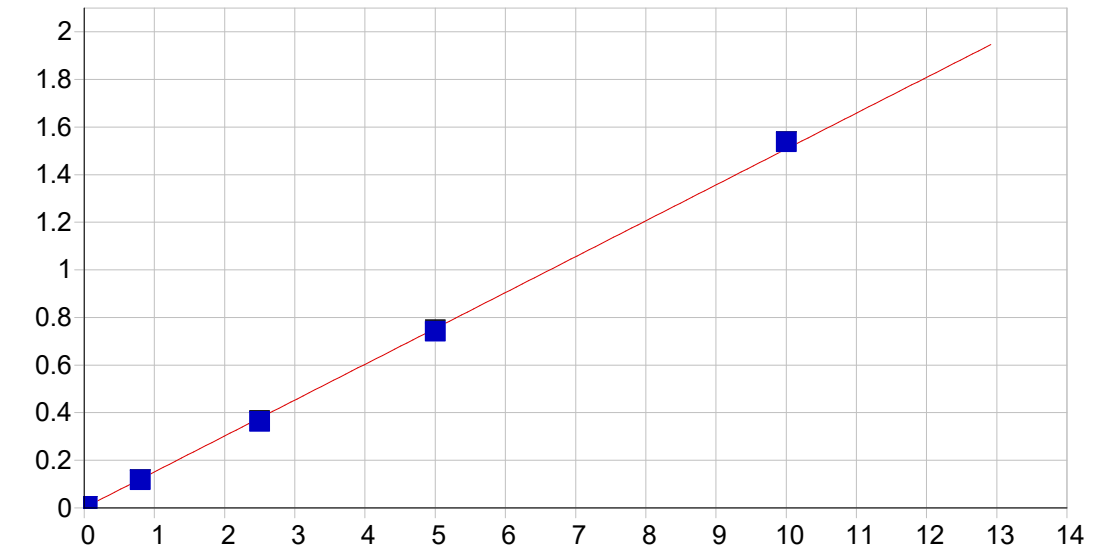
Mo 202.030 {467}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000249	Re-Slope:	1.000000
A1 (Gain):	0.599352	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000654		
Predicted MDL:	0.000318		
Predicted MQL:	0.001060		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00025	.000	1
S1	.20000	.19833	-.002	-.837	.11912	.000	1
S3	2.5000	2.4277	-.072	-2.89	1.4553	.011	1
S4	5.0000	4.9518	-.048	-.965	2.9681	.024	1
S5	10.000	10.117	.117	1.17	6.0637	.008	1
S2	.80000	.80556	.006	.695	.48306	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



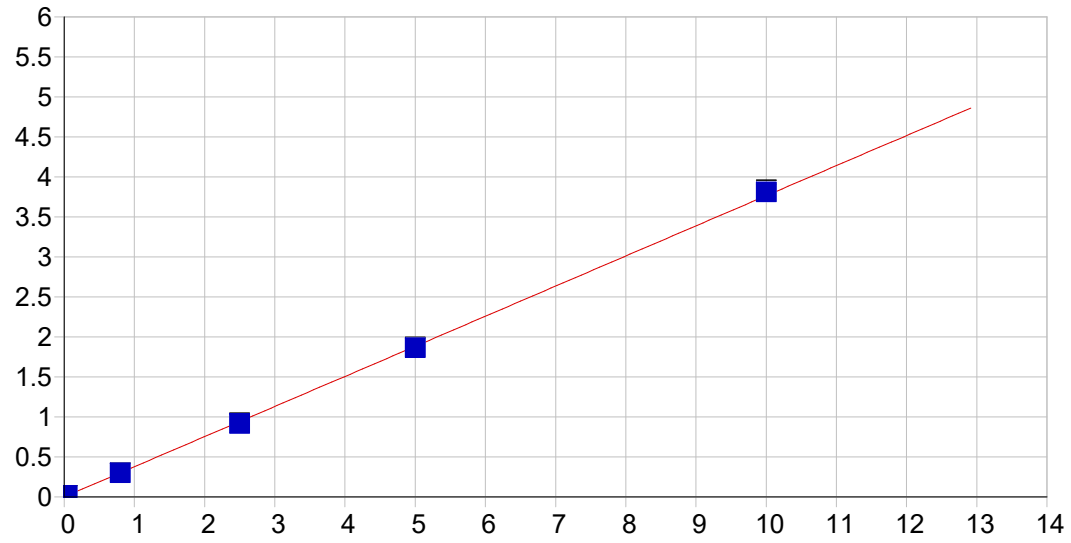
Sn 189.989 {478}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000479	Re-Slope:	1.000000
A1 (Gain):	0.150709	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999730	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000702		
Predicted MQL:	0.002340		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00048	.000	1
S1	.04000	.03843	-.002	-3.91	.00627	.000	1
S3	2.5000	2.4019	-.098	-3.92	.36209	.003	1
S4	5.0000	4.9203	-.080	-1.59	.74124	.006	1
S5	10.000	10.202	.202	2.02	1.5364	.002	1
S2	.80000	.77759	-.022	-2.80	.11755	.001	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



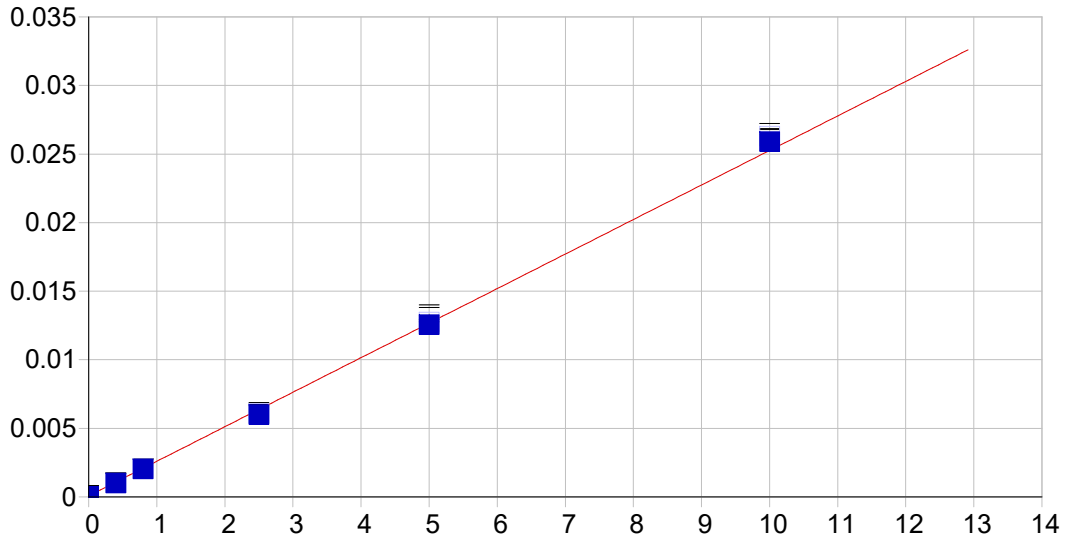
Ti 336.121 {100}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001039	Re-Slope:	1.000000
A1 (Gain):	0.376312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000183		
Predicted MDL:	0.001824		
Predicted MQL:	0.006079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00104	.001	1
S1	.04000	.03898	-.001	-2.56	.01570	.000	1
S3	2.5000	2.4333	-.067	-2.67	.91640	.006	1
S4	5.0000	4.9501	-.050	-.999	1.8631	.009	1
S5	10.000	10.125	.125	1.25	3.8099	.024	1
S2	.80000	.79243	-.008	-.947	.29913	.002	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



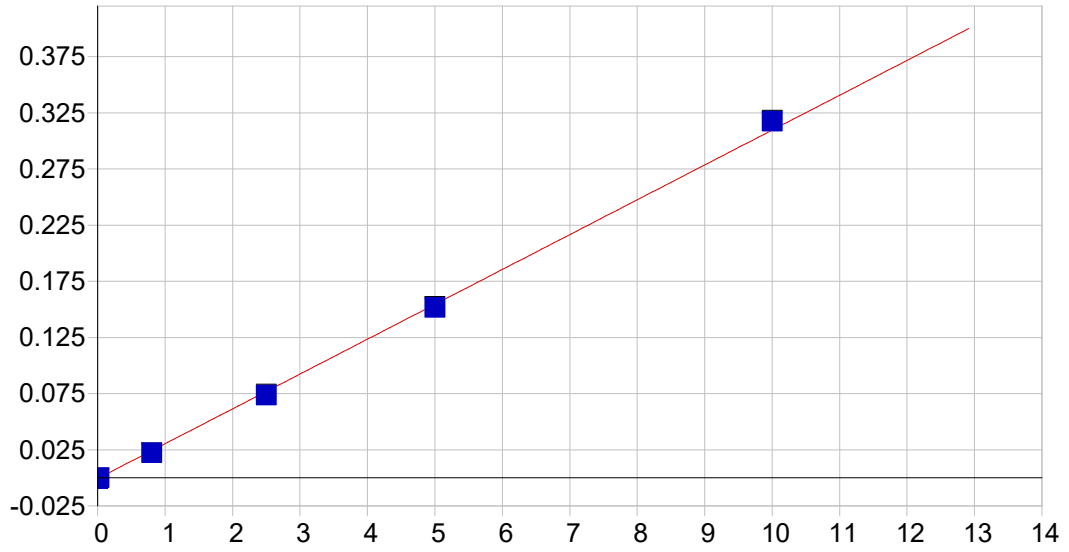
Si 288.158 {117}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000080	Re-Slope:	1.000000
A1 (Gain):	0.002518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999479	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.016847		
Predicted MQL:	0.056156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00008	.000	1
S1	.40000	.36465	-.035	-8.84	.00100	.000	1
S3	2.5000	2.3508	-.149	-5.97	.00609	.000	1
S4	5.0000	4.9570	-.043	-.860	.01275	.001	1
S5	10.000	10.257	.257	2.57	.02629	.000	1
S2	.80000	.77043	-.030	-3.70	.00205	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



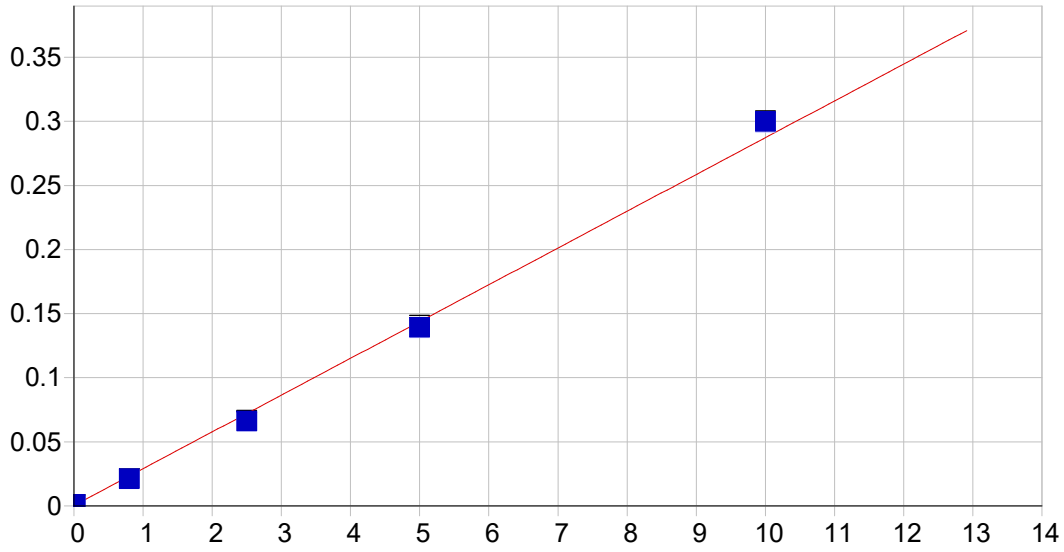
P 177.495 {490}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000665	Re-Slope:	1.000000
A1 (Gain):	0.031031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999549	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.002541		
Predicted MQL:	0.008471		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00067	.000	1
S1	.02000	.01991	-.000	-.429	-.00005	.000	1
S3	2.5000	2.3937	-.106	-4.25	.07360	.001	1
S4	5.0000	4.9094	-.091	-1.81	.15165	.001	1
S5	10.000	10.253	.253	2.53	.31745	.001	1
S2	.80000	.74381	-.056	-7.02	.02241	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



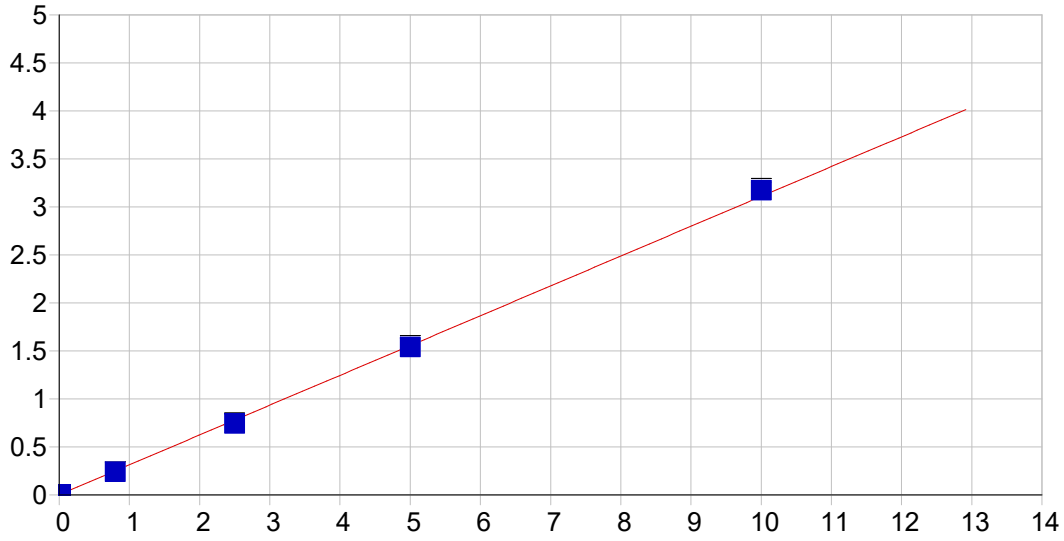
S 182.034 {485}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000369	Re-Slope:	1.000000
A1 (Gain):	0.028693	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998672	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.003291		
Predicted MQL:	0.010970		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00037	.000	1
S1	.02000	.01851	-.001	-7.46	.00088	.000	1
S3	2.5000	2.2950	-.205	-8.20	.06603	.001	1
S4	5.0000	4.8423	-.158	-3.15	.13893	.002	1
S5	10.000	10.440	.440	4.40	.29918	.001	1
S2	.80000	.72390	-.076	-9.51	.02108	.000	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



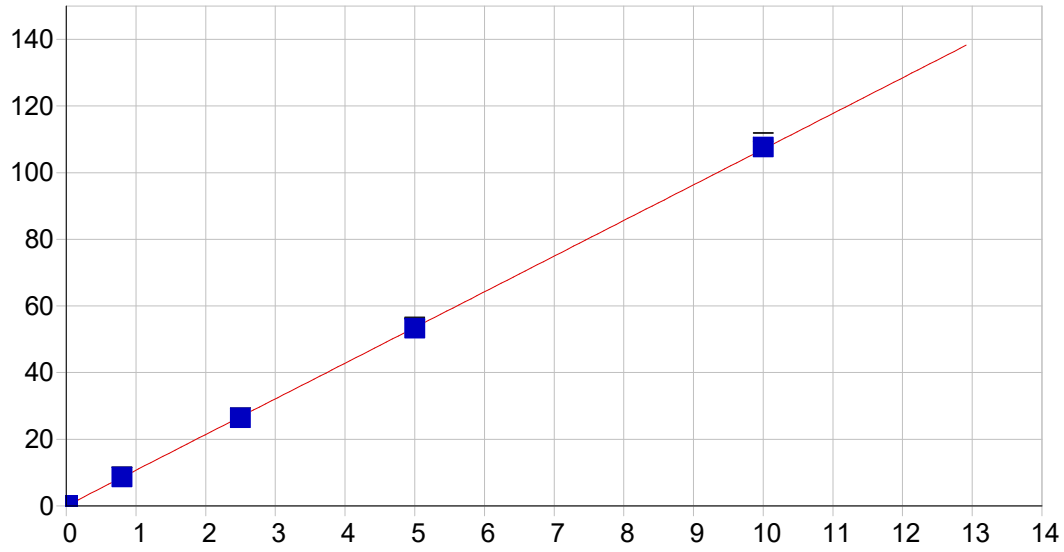
Li 670.784 { 50}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002889	Re-Slope:	1.000000
A1 (Gain):	0.310612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999680	Status:	OK.
Std Error of Est:	0.000184		
Predicted MDL:	0.008266		
Predicted MQL:	0.027553		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00289	.002	1
S5	10.000	10.204	.204	2.04	3.1738	.020	1
S4	5.0000	4.9492	-.051	-1.02	1.5409	.017	1
S3	2.5000	2.3832	-.117	-4.67	.74353	.005	1
S1	.02000	.01810	-.002	-9.49	.00861	.002	1
S2	.80000	.76601	-.034	-4.25	.24095	.002	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688



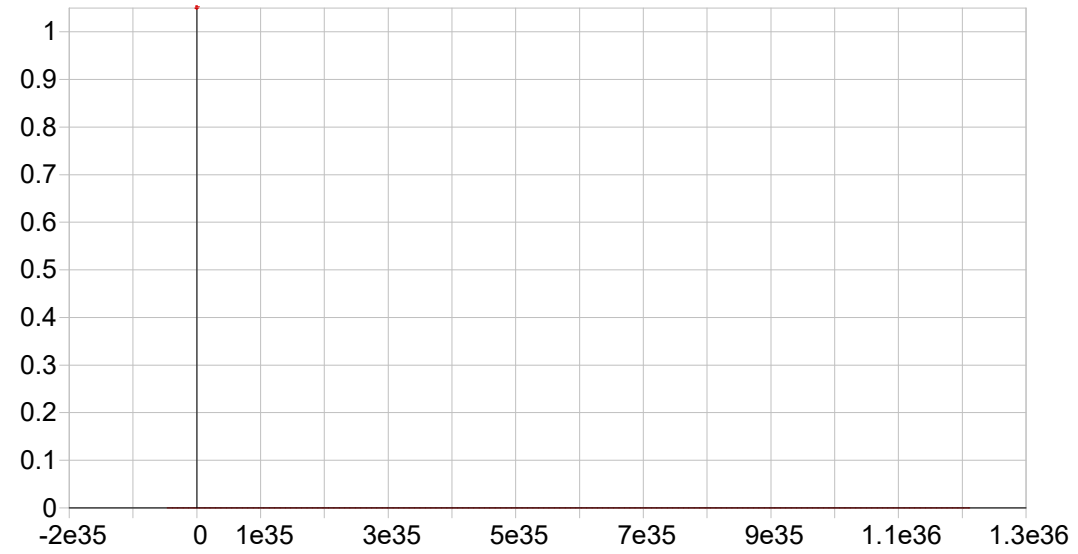
Sr 407.771 { 83}

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002092	Re-Slope:	1.000000
A1 (Gain):	10.705228	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.001880		
Predicted MDL:	0.000113		
Predicted MQL:	0.000376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00208	.001	1
S1	.02000	.02137	.001	6.84	.23186	.003	1
S3	2.5000	2.4655	-.035	-1.38	26.421	.104	1
S4	5.0000	4.9740	-.026	-.520	53.302	.360	1
S5	10.000	10.054	.054	.539	107.73	1.28	1
S2	.80000	.80520	.005	.650	8.6301	.019	1

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

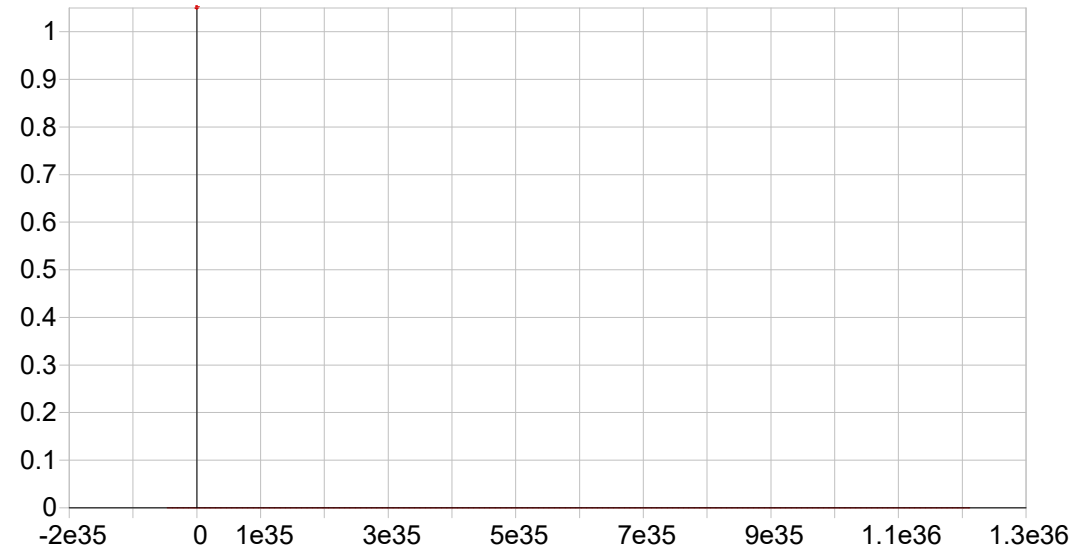


Y 224.306 {450}*

Date of Fit:	8/1/2025 13:53:44	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

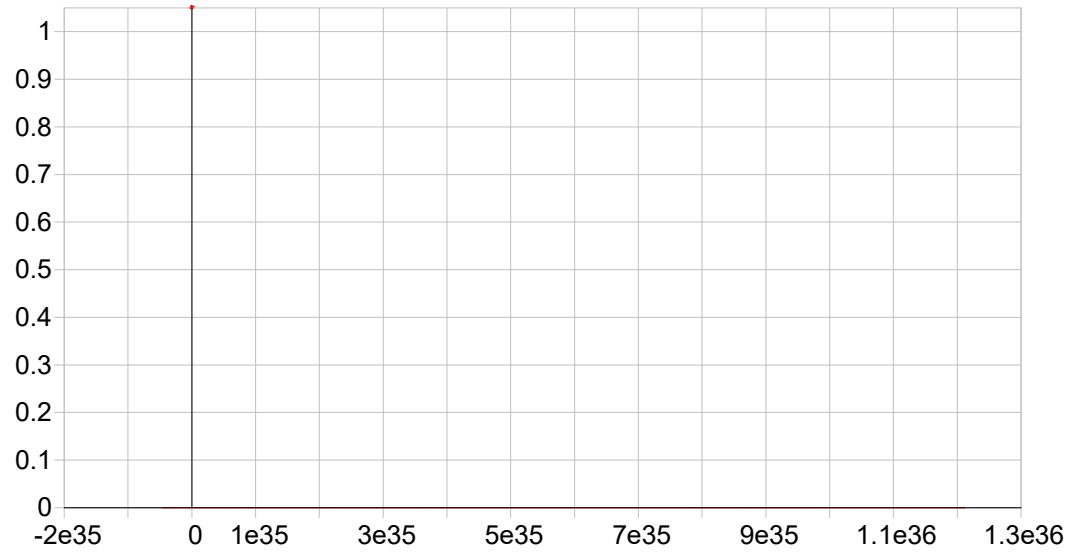
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



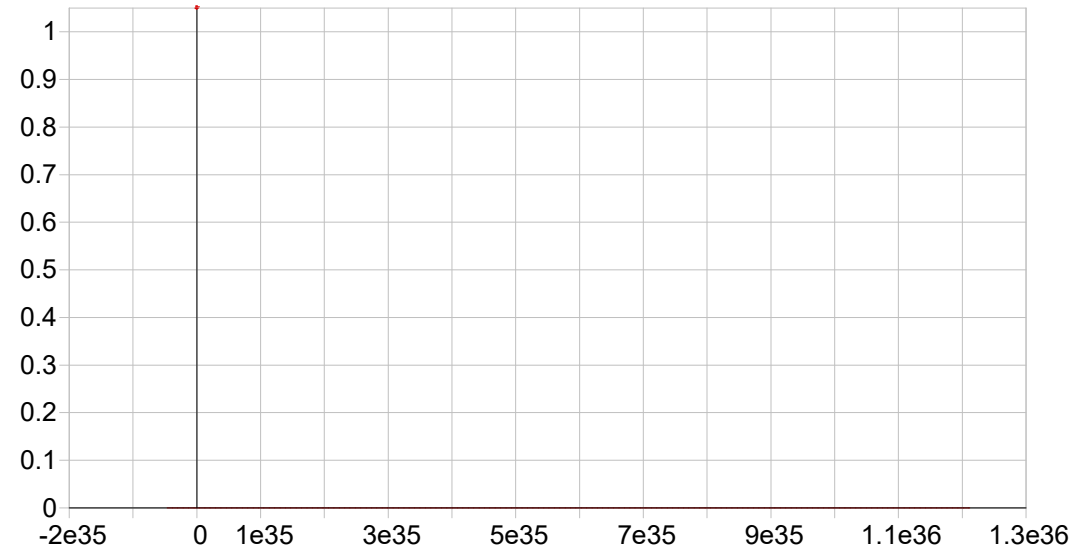
Y 371.030 { 91}*

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

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

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

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

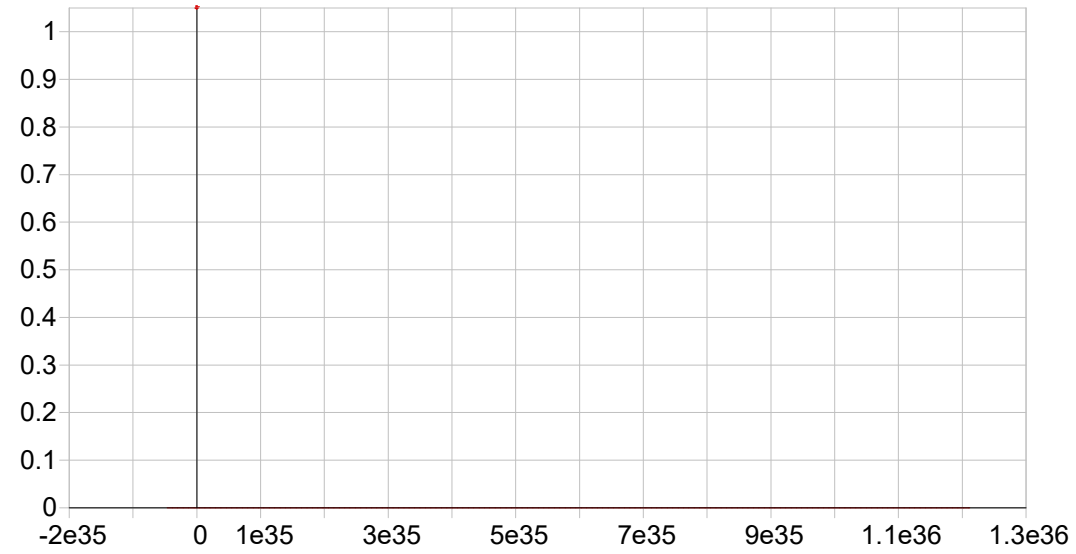


Y 224.306 {150}*

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

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

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



In 230.606 {446}*

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

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

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S0 Acquired: 8/1/2025 11:18:01 Type: Cal
Method: 6010-200.7 NEW(v77) 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**	**.00128**	**.00001**	**.00025**	**.00072**	**.00108**	**.08383**	**-.00123**
Stddev	.00006	.00006	.00013	.00007	.00011	.00085	.00312	.00051
%RSD	121.75	4.4733	1286.3	28.053	16.048	78.739	3.7245	41.645
#1	.00002	.00121	-.00011	.00017	.00083	.00171	.08710	-.00180
#2	-.00010	.00132	-.00001	.00029	.00061	.00011	.08087	-.00110
#3	-.00007	.00129	.00015	.00030	.00070	.00141	.08352	-.00080

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	**-.00039**	**.00145**	**.00048**	**.00050**	**.00075**	**.00006**	**.00113**	**-.00017**
Stddev	.00009	.00043	.00002	.00021	.00023	.00003	.00022	.00047
%RSD	23.585	29.315	4.7456	41.884	31.184	45.344	19.822	274.68
#1	-.00046	.00186	.00048	.00026	.00069	.00009	.00133	.00030
#2	-.00043	.00101	.00047	.00060	.00101	.00006	.00116	-.00064
#3	-.00029	.00148	.00051	.00065	.00056	.00003	.00089	-.00017

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	**-.00042**	**-.00078**	**.00355**	**-.00045**	**.00879**	**-.00162**	**.00445**	**.00025**
Stddev	.00017	.00012	.00006	.00012	.00024	.00013	.00043	.00015
%RSD	40.791	15.782	1.8195	27.263	2.7422	8.3060	9.7443	58.457
#1	-.00057	-.00087	.00348	-.00053	.00893	-.00164	.00451	.00028
#2	-.00048	-.00083	.00360	-.00051	.00852	-.00147	.00486	.00009
#3	-.00023	-.00064	.00358	-.00031	.00894	-.00174	.00400	.00038

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	**.00048**	**.00104**	**.00008**	**-.00067**	**.00037**	**.00289**	**.00208**
Stddev	.00012	.00063	.00003	.00004	.00005	.00170	.00136
%RSD	23.995	60.754	41.915	5.8757	12.474	58.693	65.277
#1	.00045	.00036	.00007	-.00071	.00032	.00100	.00327
#2	.00038	.00116	.00005	-.00063	.00037	.00341	.00236
#3	.00061	.00161	.00012	-.00066	.00041	.00427	.00060

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S0 Acquired: 8/1/2025 11:18:01 Type: Cal
Method: 6010-200.7 NEW(v77) 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	**5286.8**	**87401.**	**7216.1**	**4577.6**	**6729.2**
Stddev	19.4	997.	56.1	51.8	35.8
%RSD	.36740	1.1404	.77762	1.1327	.53273
#1	5298.3	88548.	7211.9	4636.8	6760.3
#2	5297.6	86914.	7162.2	4555.8	6737.2
#3	5264.4	86743.	7274.2	4540.2	6690.0

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S1 Acquired: 8/1/2025 11:22:22 Type: Cal
Method: 6010-200.7 NEW(v77) 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	.00100	.00356	.00283	.00102	.00521	.01110	.35959	.05475
Stddev	.00011	.00015	.00011	.00004	.00010	.00082	.00578	.00074
%RSD	11.287	4.2178	3.7662	3.7305	1.9985	7.4057	1.6072	1.3536
#1	.00087	.00341	.00271	.00098	.00511	.01054	.35437	.05475
#2	.00105	.00356	.00288	.00103	.00531	.01205	.36580	.05549
#3	.00108	.00371	.00291	.00105	.00522	.01072	.35861	.05401

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	.01755	.15129	.00202	.03237	.01611	.00043	.01300	.02724
Stddev	.00025	.00179	.00003	.00014	.00011	.00002	.00038	.00061
%RSD	1.4076	1.1841	1.3577	.43617	.65328	4.2824	2.8861	2.2432
#1	.01755	.14984	.00200	.03234	.01608	.00041	.01264	.02724
#2	.01779	.15330	.00205	.03253	.01602	.00045	.01339	.02786
#3	.01730	.15074	.00201	.03225	.01622	.00043	.01297	.02663

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	.02475	.00132	.02488	.00434	.10962	.00830	.07956	.11912
Stddev	.00018	.00004	.00030	.00029	.00101	.00019	.00073	.00033
%RSD	.74005	2.7285	1.2210	6.6070	.92001	2.3163	.91735	.28027
#1	.02456	.00134	.02454	.00405	.10853	.00814	.07886	.11879
#2	.02492	.00134	.02503	.00434	.11052	.00852	.08032	.11946
#3	.02476	.00128	.02509	.00463	.10981	.00826	.07949	.11909

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	.00627	.01570	.00100	-.00005	.00088	.00861	.23186
Stddev	.00008	.00021	.00002	.00003	.00008	.00185	.00286
%RSD	1.3424	1.3425	2.1504	70.406	9.6620	21.494	1.2316
#1	.00617	.01549	.00098	-.00001	.00095	.00656	.22932
#2	.00632	.01592	.00102	-.00005	.00089	.01014	.23495
#3	.00631	.01568	.00100	-.00008	.00079	.00913	.23132

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S1 Acquired: 8/1/2025 11:22:22 Type: Cal
Method: 6010-200.7 NEW(v77) 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	**5286.3**	**87455.**	**7097.9**	**4611.3**	**6617.9**
Stddev	20.0	501.	64.6	10.1	24.3
%RSD	.37869	.57273	.90952	.21983	.36746
#1	5292.0	88022.	7151.5	4622.3	6618.7
#2	5264.1	87071.	7026.2	4602.3	6593.2
#3	5302.9	87272.	7115.9	4609.2	6641.8

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S2 Acquired: 8/1/2025 11:26:39 Type: Cal
Method: 6010-200.7 NEW(v77) 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	**.04196**	**.04739**	**.16900**	**.03343**	**.07375**	**.13445**	**4.3730**	**.35963**
Stddev	.00015	.00224	.00010	.00013	.00001	.00066	.0126	.00479
%RSD	.36305	4.7367	.05853	.37991	.01788	.49301	.28864	1.3319
#1	.04193	.04533	.16911	.03329	.07374	.13489	4.3774	.35485
#2	.04183	.04705	.16893	.03348	.07376	.13476	4.3828	.36443
#3	.04213	.04978	.16897	.03353	.07374	.13369	4.3587	.35959

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	**1.2184**	**.30143**	**.02917**	**.42423**	**.14546**	**.00305**	**.24088**	**.05106**
Stddev	.0028	.00155	.00004	.00080	.00040	.00007	.00087	.00048
%RSD	.23031	.51375	.12484	.18926	.27555	2.2224	.35919	.94523
#1	1.2173	.30007	.02914	.42460	.14515	.00312	.24030	.05054
#2	1.2164	.30312	.02916	.42330	.14533	.00298	.24188	.05115
#3	1.2216	.30110	.02921	.42477	.14591	.00305	.24046	.05149

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	**.24729**	**.04183**	**.04571**	**.04390**	**1.0063**	**.01817**	**.59658**	**.48306**
Stddev	.00079	.00014	.00045	.00017	.0029	.00008	.00848	.00132
%RSD	.31804	.34002	.97491	.39492	.29244	.45267	1.4220	.27325
#1	.24781	.04180	.04620	.04371	1.0038	.01822	.58747	.48204
#2	.24638	.04199	.04534	.04395	1.0096	.01808	.60425	.48260
#3	.24767	.04171	.04559	.04404	1.0056	.01822	.59801	.48455

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	**.11755**	**.29913**	**.00205**	**.02241**	**.02108**	**.24095**	**8.6301**
Stddev	.00058	.00194	.00001	.00018	.00020	.00163	.0192
%RSD	.49038	.64868	.25697	.81388	.95587	.67840	.22269
#1	.11712	.29876	.00205	.02224	.02094	.24162	8.6287
#2	.11732	.30123	.00205	.02239	.02099	.24213	8.6501
#3	.11820	.29740	.00204	.02260	.02131	.23908	8.6117

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S2 Acquired: 8/1/2025 11:26:39 Type: Cal
Method: 6010-200.7 NEW(v77) 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	5233.3	85360.	7050.9	4502.7	6424.6
Stddev	.7	245.	80.5	16.7	4.9
%RSD	.01392	.28713	1.1423	.37107	.07595
#1	5233.3	85127.	7123.3	4500.1	6424.6
#2	5234.1	85338.	6964.2	4487.4	6429.5
#3	5232.6	85616.	7065.3	4520.6	6419.7

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S3 Acquired: 8/1/2025 11:30:44 Type: Cal
Method: 6010-200.7 NEW(v77) 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	.13212	.15422	.53120	.10486	.22264	.40864	13.264	1.0948
Stddev	.00123	.00272	.00472	.00092	.00135	.00230	.036	.0147
%RSD	.93188	1.7668	.88822	.88103	.60568	.56281	.27079	1.3389
#1	.13351	.15729	.53663	.10593	.22419	.40611	13.239	1.0847
#2	.13166	.15330	.52880	.10443	.22179	.40920	13.248	1.0881
#3	.13118	.15208	.52816	.10424	.22193	.41061	13.305	1.1116

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	3.8879	.90765	.08814	1.2979	.43480	.00919	.72726	.15412
Stddev	.0335	.00775	.00042	.0110	.00358	.00006	.00441	.00068
%RSD	.86214	.85359	.47224	.85097	.82252	.69831	.60638	.44007
#1	3.9265	.90845	.08792	1.3105	.43892	.00924	.72856	.15377
#2	3.8663	.89953	.08862	1.2902	.43301	.00921	.72234	.15368
#3	3.8708	.91497	.08788	1.2928	.43248	.00912	.73087	.15490

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	.75481	.12796	.13493	.13515	3.0349	.06052	1.8142	1.4553
Stddev	.00577	.00019	.00154	.00091	.0136	.00026	.0208	.0109
%RSD	.76407	.14471	1.1380	.67037	.44671	.42995	1.1461	.74996
#1	.76145	.12775	.13596	.13595	3.0482	.06081	1.7976	1.4679
#2	.75108	.12809	.13566	.13416	3.0356	.06041	1.8076	1.4486
#3	.75189	.12804	.13317	.13533	3.0211	.06033	1.8375	1.4494

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	.36209	.91640	.00609	.07360	.06603	.74353	26.421
Stddev	.00331	.00587	.00006	.00091	.00070	.00525	.104
%RSD	.91327	.64073	1.0559	1.2305	1.0528	.70551	.39460
#1	.36589	.91884	.00616	.07462	.06681	.73952	26.477
#2	.35991	.90970	.00609	.07330	.06582	.74946	26.301
#3	.36046	.92065	.00603	.07288	.06547	.74160	26.486

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S3 Acquired: 8/1/2025 11:30:44 Type: Cal
Method: 6010-200.7 NEW(v77) 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	5224.0	84751.	7033.7	4474.3	6244.2
Stddev	33.4	411.	53.9	31.9	45.1
%RSD	.64013	.48549	.76571	.71353	.72204
#1	5187.4	84488.	7066.0	4439.6	6193.6
#2	5231.7	84540.	7063.5	4480.8	6258.8
#3	5252.9	85225.	6971.5	4502.5	6280.2

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S4 Acquired: 8/1/2025 11:34:45 Type: Cal
Method: 6010-200.7 NEW(v77) 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	.26153	.29460	1.0455	.20675	.45653	.82149	26.646	2.2017
Stddev	.00270	.01323	.0065	.00229	.00388	.00180	.388	.0120
%RSD	1.0315	4.4913	.62155	1.1069	.84956	.21892	1.4576	.54395
#1	.26049	.28971	1.0428	.20615	.45574	.82350	26.799	2.2155
#2	.25951	.28451	1.0408	.20483	.45310	.82093	26.204	2.1949
#3	.26459	.30958	1.0529	.20928	.46074	.82004	26.934	2.1946

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	7.7148	1.8245	.18025	2.6746	.87394	.01907	1.4629	.30806
Stddev	.0531	.0085	.00762	.0172	.00586	.00077	.0058	.00012
%RSD	.68773	.46658	4.2262	.64148	.66996	4.0275	.39549	.03991
#1	7.6932	1.8342	.17389	2.6679	.87192	.01838	1.4676	.30792
#2	7.6760	1.8181	.18869	2.6618	.86936	.01990	1.4647	.30814
#3	7.7752	1.8213	.17817	2.6941	.88053	.01894	1.4565	.30813

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	1.5594	.26172	.27714	.27496	6.1262	.12705	3.6578	2.9681
Stddev	.0110	.00898	.01093	.00133	.2277	.00479	.0252	.0244
%RSD	.70824	3.4317	3.9429	.48394	3.7172	3.7684	.68940	.82358
#1	1.5550	.25451	.26779	.27641	5.9488	.12284	3.6868	2.9611
#2	1.5512	.27178	.28916	.27466	6.3830	.13226	3.6410	2.9479
#3	1.5719	.25885	.27449	.27380	6.0468	.12605	3.6456	2.9953

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	.74124	1.8631	.01275	.15165	.13893	1.5409	53.302
Stddev	.00611	.0089	.00053	.00098	.00184	.0166	.360
%RSD	.82386	.47809	4.1426	.64336	1.3210	1.0796	.67554
#1	.73929	1.8732	.01228	.15133	.13821	1.5527	53.259
#2	.73635	1.8600	.01332	.15088	.13757	1.5483	52.964
#3	.74809	1.8562	.01265	.15275	.14102	1.5219	53.681

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S4 Acquired: 8/1/2025 11:34:45 Type: Cal
Method: 6010-200.7 NEW(v77) 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	5130.2	82495.	6961.6	4341.5	6006.5
Stddev	27.7	2859.	41.3	135.8	26.4
%RSD	.53963	3.4650	.59286	3.1270	.44019
#1	5153.1	84930.	6914.9	4445.8	6027.1
#2	5138.1	79348.	6993.2	4188.0	6015.7
#3	5099.5	83208.	6976.7	4390.6	5976.7

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S5 Acquired: 8/1/2025 11:38:56 Type: Cal
Method: 6010-200.7 NEW(v77) 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	.54081	.61253	2.1861	.42671	.94117	1.6737	55.548	4.4277
Stddev	.00120	.01016	.0025	.00045	.00182	.0156	.394	.0520
%RSD	.22137	1.6594	.11532	.10659	.19354	.93419	.70880	1.1756
#1	.54127	.60212	2.1834	.42623	.93955	1.6785	55.227	4.4747
#2	.53945	.62243	2.1865	.42677	.94081	1.6563	55.429	4.3718
#3	.54171	.61303	2.1884	.42714	.94314	1.6864	55.987	4.4368

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	16.045	3.7080	.35361	5.5908	1.7692	.03823	2.9735	.62814
Stddev	.014	.0241	.00022	.0097	.0023	.00012	.0226	.00523
%RSD	.08970	.65034	.06328	.17409	.12807	.31862	.76123	.83294
#1	16.032	3.7268	.35361	5.5818	1.7678	.03810	2.9881	.63091
#2	16.044	3.6808	.35339	5.5895	1.7679	.03826	2.9474	.62211
#3	16.060	3.7164	.35384	5.6011	1.7718	.03833	2.9850	.63141

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	3.2342	.52967	.56786	.56485	12.275	.26471	7.3369	6.0637
Stddev	.0034	.00027	.00209	.00505	.036	.00125	.0803	.0082
%RSD	.10382	.05009	.36771	.89430	.29393	.47349	1.0939	.13453
#1	3.2306	.52987	.56552	.56618	12.316	.26339	7.4103	6.0569
#2	3.2348	.52937	.56851	.55926	12.255	.26589	7.2512	6.0614
#3	3.2372	.52978	.56954	.56910	12.252	.26484	7.3491	6.0728

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	1.5364	3.8099	.02629	.31745	.29918	3.1738	107.73
Stddev	.0017	.0242	.00023	.00098	.00069	.0201	1.28
%RSD	.11317	.63589	.86420	.30907	.23109	.63238	1.1891
#1	1.5355	3.8268	.02603	.31806	.29849	3.1823	108.04
#2	1.5354	3.7822	.02638	.31798	.29917	3.1508	106.33
#3	1.5384	3.8207	.02645	.31632	.29988	3.1882	108.83

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: S5 Acquired: 8/1/2025 11:38:56 Type: Cal
Method: 6010-200.7 NEW(v77) 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	**5059.4**	**83434.**	**7028.0**	**4330.4**	**5758.8**
Stddev	6.1	429.	78.4	27.0	4.5
%RSD	.11966	.51431	1.1150	.62322	.07859
#1	5054.6	83174.	6940.6	4307.4	5755.0
#2	5066.2	83200.	7091.9	4323.8	5763.8
#3	5057.4	83930.	7051.5	4360.1	5757.5

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICV01 Acquired: 8/1/2025 11:43:07 Type: Unk
Method: 6010-200.7 NEW(v77) 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	**3.920846**	**3.864201**	**3.837074**	**3.937506**	**4.160298**	**8.038874**
Stddev	.014940	.163590	.007829	.014684	.010404	.030195
%RSD	.3810352	4.233464	.2040256	.3729365	.2500726	.3756066
#1	3.919844	3.844646	3.844692	3.934190	4.164144	8.006953
#2	3.906433	3.711268	3.829051	3.924763	4.148519	8.066980
#3	3.936262	4.036690	3.837478	3.953564	4.168231	8.042687

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.045135**	**.2053983**	**1.956212**	**20.17449**	**.8108000**	**2.038055**
Stddev	.076434	.0024304	.003151	.08890	.0163649	.002635
%RSD	.9500639	1.183238	.1610864	.4406615	2.018360	.1293136
#1	8.103483	.2072500	1.956946	20.23049	.8171135	2.039649
#2	7.958613	.2026463	1.952759	20.22101	.7922188	2.035013
#3	8.073310	.2062987	1.958931	20.07199	.8230677	2.039503

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.037724**	**4.149330**	**2.020506**	**20.15924**	**2.033168**	**.9903455**
Stddev	.001391	.036961	.004589	.03972	.002902	.0224843
%RSD	.1340194	.8907806	.2271312	.1970114	.1427435	2.270348
#1	1.037427	4.146268	2.022579	20.15396	2.035357	.9989406
#2	1.036505	4.113995	2.023693	20.20133	2.029876	.9648315
#3	1.039239	4.187727	2.015246	20.12243	2.034270	1.007264

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.34301**	**2.016497**	**2.051487**	**20.43074**	**3.984716**	**4.098685**
Stddev	.26220	.004413	.045902	.25758	.044670	.015110
%RSD	1.288890	.2188378	2.237501	1.260739	1.121044	.3686484
#1	20.35200	2.017367	2.073665	20.41794	4.025100	4.094274
#2	20.07643	2.020410	1.998707	20.17980	3.936734	4.086272
#3	20.60060	2.011714	2.082088	20.69448	3.992314	4.115510

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICV01 Acquired: 8/1/2025 11:43:07 Type: Unk
Method: 6010-200.7 NEW(v77) 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	**4.049671**	**4.060028**	**4.067289**	F **.0121494**	**4.074474**	**3.811018**
Stddev	.015806	.017411	.043169	.0012301	.023855	.017442
%RSD	.3902911	.4288506	1.061360	10.12509	.5854668	.4576835
#1	4.052357	4.067790	4.045840	.0134049	4.076428	3.819729
#2	4.032695	4.072209	4.039046	.0109462	4.049702	3.822389
#3	4.063962	4.040086	4.116981	.0120972	4.097291	3.790936

Elem	Sr4077
Units	ppm
Avg	**4.121376**
Stddev	.038538
%RSD	.9350798
#1	4.146109
#2	4.076972
#3	4.141047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5147.846**	**83327.48**	**7182.013**	**4386.330**	**6043.047**
Stddev	23.259	1428.64	38.685	82.067	29.284
%RSD	.4518124	1.714483	.5386315	1.870975	.4845935
#1	5147.574	83100.45	7153.185	4362.326	6047.754
#2	5171.239	84856.04	7225.977	4477.723	6069.692
#3	5124.724	82025.96	7166.878	4318.942	6011.694

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LLICV01 Acquired: 8/1/2025 11:54:55 Type: Unk
Method: 6010-200.7 NEW(v77) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220389	.0397974	.0129216	.0208579	.0517656	.1031005	.0999780
Stddev	.0011740	.0026011	.0016228	.0023750	.0004119	.0057577	.0035331
%RSD	5.326931	6.535854	12.55908	11.38647	.7956870	5.584534	3.533883
#1	.0207620	.0381605	.0145875	.0224398	.0516607	.1010992	.1002028
#2	.0230716	.0384351	.0113456	.0220069	.0522198	.0986106	.0963379
#3	.0222830	.0427968	.0128318	.0181269	.0514162	.1095918	.1033934

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062579	.0056628	2.033074	.0089692	.0296824	.0221027	.1056148
Stddev	.0000700	.0000661	.056665	.0003258	.0001281	.0001951	.0002836
%RSD	1.118707	1.167095	2.787182	3.632205	.4314200	.8828782	.2685672
#1	.0061836	.0056011	2.032929	.0092659	.0298303	.0219264	.1057993
#2	.0062674	.0056548	1.976480	.0086206	.0296088	.0220694	.1057568
#3	.0063226	.0057325	2.089811	.0090210	.0296082	.0223124	.1052882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204974	2.166888	.0398473	.0109996	1.949984	.0409889	.0447196
Stddev	.0015157	.047752	.0005591	.0000857	.019500	.0016127	.0004929
%RSD	7.394576	2.203733	1.403083	.7793570	1.000020	3.934431	1.102224
#1	.0207348	2.138379	.0394828	.0109180	1.970691	.0425218	.0452156
#2	.0188770	2.140270	.0395681	.0109920	1.947291	.0411379	.0447133
#3	.0218804	2.222017	.0404910	.0110889	1.931971	.0393068	.0442298

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.937814	.1119415	.2058241	.0391284	.0421740	.3737526	.0232860
Stddev	.060549	.0010421	.0005683	.0001667	.0010088	.0162102	.0012789
%RSD	3.124622	.9309056	.2761147	.4259098	2.392009	4.337148	5.492007
#1	1.963748	.1115594	.2060026	.0391294	.0410581	.3879765	.0222839
#2	1.868617	.1111444	.2051880	.0389612	.0424423	.3561035	.0247264
#3	1.981077	.1131206	.2062818	.0392945	.0430215	.3771777	.0228476

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LLICV01 Acquired: 8/1/2025 11:54:55 Type: Unk
Method: 6010-200.7 NEW(v77) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0234043	.0193630	.0205197
Stddev	.0014251	.0023650	.0004861
%RSD	6.089170	12.21376	2.368773
#1	.0218967	.0166484	.0204812
#2	.0235866	.0204636	.0200541
#3	.0247294	.0209771	.0210239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5251.112	84789.90	7208.666	4428.263	6569.122
Stddev	12.027	113.68	120.155	25.894	14.577
%RSD	.2290294	.1340680	1.666819	.5847388	.2218988
#1	5238.993	84666.44	7210.689	4401.222	6555.131
#2	5263.044	84813.04	7327.798	4452.832	6584.221
#3	5251.299	84890.23	7087.513	4430.737	6568.013

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICB01 Acquired: 8/1/2025 11:59:52 Type: Unk
Method: 6010-200.7 NEW(v77) 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	**.0013619**	**.0003826**	**-.000069**	**.0014800**	**-.002939**	**.0005573**	**.0011267**
Stddev	.0020582	.0024731	.000970	.0023037	.000376	.0087782	.0006866
%RSD	151.1302	646.3500	1406.371	155.6497	12.80106	1575.130	60.94053
#1	.0001145	-.001135	.000211	.0034260	-.003373	.0063432	.0007086
#2	.0002336	.003236	.000730	-.001064	-.002734	-.009543	.0019191
#3	.0037375	-.000954	-.001149	.002078	-.002710	.004872	.0007523

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000110**	**.0000365**	**-.005178**	**-.001598**	**-.000119**	**-.000137**	**-.001319**
Stddev	.0000485	.0000184	.015753	.000744	.000199	.000303	.001722
%RSD	439.7260	50.49908	304.2095	46.53714	166.7591	221.6448	130.5142
#1	.0000670	.0000520	-.022071	-.002098	-.000204	-.000147	-.002001
#2	-.000017	.0000414	-.002573	-.001952	.000108	-.000434	-.002595
#3	-.000017	.0000161	.009110	-.000743	-.000262	.000171	.000639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000847**	**.0154246**	**.0000766**	**-.000177**	**-.084744**	**.0034269**	**-.001051**
Stddev	.000486	.0110657	.0001476	.000347	.004899	.0021380	.000105
%RSD	57.30511	71.74088	192.8132	195.7467	5.781024	62.39050	9.990949
#1	-.000597	.0109624	.0001919	-.000509	-.089755	.0037751	-.001049
#2	-.000538	.0072866	-.000090	.000183	-.079965	.0053694	-.000947
#3	-.001407	.0280247	.000128	-.000206	-.084512	.0011361	-.001157

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.042403**	**.0077321**	**.0004692**	**-.000242**	**.0021182**	**.0101699**	**.0030777**
Stddev	.014574	.0008211	.0002292	.000543	.0017505	.0120233	.0019463
%RSD	34.36968	10.61988	48.85856	224.3134	82.63945	118.2240	63.23944
#1	-.034129	.0080500	.0005085	-.000134	.0033094	-.003665	.0051488
#2	-.033850	.0083467	.0006762	.000239	.0029368	.018092	.0012864
#3	-.059231	.0067995	.0002228	-.000831	.0001084	.016083	.0027979

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICB01 Acquired: 8/1/2025 11:59:52 Type: Unk
Method: 6010-200.7 NEW(v77) 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	.0007983	.0001081	.0002635
Stddev	.0016488	.0082116	.0000640
%RSD	206.5416	7599.540	24.28257
#1	.0024956	-.000900	.0002170
#2	.0006963	.008777	.0002370
#3	-.000797	-.007553	.0003365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5254.550	86781.80	7055.927	4523.894	6678.483
Stddev	2.267	841.86	75.549	41.080	3.509
%RSD	.0431482	.9700883	1.070719	.9080579	.0525415
#1	5255.202	87747.68	7005.624	4570.786	6674.609
#2	5256.419	86203.83	7019.355	4494.248	6681.447
#3	5252.028	86393.87	7142.803	4506.649	6679.392

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CRI01 Acquired: 8/1/2025 12:04:12 Type: Unk
Method: 6010-200.7 NEW(v77) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227468	.0408875	.0127828	.0186636	.0513319	.1081552	.1066219
Stddev	.0022671	.0022220	.0007350	.0010010	.0011571	.0042367	.0011023
%RSD	9.966856	5.434343	5.750176	5.363302	2.254149	3.917222	1.033844
#1	.0215080	.0431037	.0128695	.0184401	.0500104	.1130035	.1053554
#2	.0213690	.0386598	.0134707	.0197574	.0521630	.1062969	.1073646
#3	.0253634	.0408990	.0120083	.0177932	.0518223	.1051653	.1071459

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066358	.0056979	2.148893	.0086509	.0298836	.0213733	.0965363
Stddev	.0001829	.0000309	.030182	.0001621	.0004482	.0002417	.0017473
%RSD	2.756686	.5423265	1.404557	1.873266	1.499879	1.130707	1.810048
#1	.0064331	.0056708	2.114441	.0088133	.0302369	.0216521	.0947462
#2	.0066856	.0056914	2.170677	.0084892	.0293794	.0212249	.0966253
#3	.0067887	.0057315	2.161560	.0086504	.0300345	.0212427	.0982375

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206426	2.197535	.0401663	.0105873	1.825042	.0445657	.0411811
Stddev	.0004446	.023178	.0003917	.0005672	.013238	.0025803	.0005426
%RSD	2.153810	1.054715	.9751123	5.357518	.7253633	5.789973	1.317533
#1	.0201361	2.219987	.0403888	.0103049	1.827806	.0421852	.0407437
#2	.0209683	2.173694	.0397140	.0112403	1.810639	.0442042	.0417882
#3	.0208236	2.198926	.0403960	.0102167	1.836679	.0473078	.0410114

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.901127	.1130933	.2054801	.0384876	.0421515	.3529360	.0198594
Stddev	.036673	.0015683	.0030131	.0004608	.0015655	.0154653	.0036301
%RSD	1.929003	1.386727	1.466353	1.197176	3.714010	4.381892	18.27905
#1	1.869952	.1113040	.2076223	.0388310	.0404063	.3360983	.0190491
#2	1.941534	.1137466	.2020348	.0386678	.0426161	.3665069	.0167030
#3	1.891895	.1142294	.2067832	.0379640	.0434321	.3562027	.0238262

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CRI01 Acquired: 8/1/2025 12:04:12 Type: Unk
Method: 6010-200.7 NEW(v77) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0196490	.0188103	.0214098
Stddev	.0057455	.0082732	.0001381
%RSD	29.24040	43.98226	.6448325
#1	.0241573	.0264133	.0212517
#2	.0216099	.0200179	.0214713
#3	.0131798	.0099997	.0215064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5307.749	86875.66	6873.094	4471.900	6636.624
Stddev	54.767	426.06	63.543	21.508	60.243
%RSD	1.031837	.4904253	.9245142	.4809631	.9077330
#1	5258.384	86517.20	6945.198	4496.615	6578.829
#2	5366.663	87346.71	6848.805	4461.665	6699.047
#3	5298.200	86763.08	6825.278	4457.421	6631.996

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSA01 Acquired: 8/1/2025 12:09:54 Type: Unk
Method: 6010-200.7 NEW(v78) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079982	.0080274	-.003928	-.003478	-.002810	251.5214	.0083656
Stddev	.0006343	.0012239	.003914	.005805	.002222	3.0801	.0014936
%RSD	7.930911	15.24583	99.65369	166.9125	79.10485	1.224574	17.85430
#1	.0072789	.0068559	-.002255	-.009718	-.001586	253.2777	.0077709
#2	.0084778	.0092976	-.008400	-.002477	-.001467	247.9649	.0072610
#3	.0082377	.0079288	-.001128	.001762	-.005375	253.3216	.0100650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017447	-.000556	240.1140	.0537374	.0019609	.0106810	97.45906
Stddev	.0000517	.000145	2.9804	.0006153	.0001665	.0006637	.74168
%RSD	2.965324	26.06026	1.241236	1.145072	8.492761	6.214230	.7610178
#1	.0017324	-.000629	240.9155	.0535416	.0018839	.0099529	98.24696
#2	.0018015	-.000649	236.8148	.0532437	.0018468	.0108377	97.35580
#3	.0017002	-.000389	242.6117	.0544268	.0021520	.0112524	96.77442

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066568	250.9812	.0036653	.0012201	.0290157	.0080462	.0034806
Stddev	.0011104	2.8373	.0003525	.0003033	.0058290	.0030257	.0002579
%RSD	16.68105	1.130485	9.616974	24.85830	20.08910	37.60377	7.408554
#1	.0063888	252.9729	.0032780	.0015043	.0273825	.0107870	.0031853
#2	.0057049	247.7325	.0037506	.0009008	.0241776	.0085519	.0036612
#3	.0078767	252.2381	.0039674	.0012550	.0354871	.0047995	.0035954

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323687	.0186921	.0005878	-.003530	-.002305	.0233423	.0064838
Stddev	.0236312	.0043588	.0001835	.000588	.000923	.0177195	.0021670
%RSD	73.00621	23.31901	31.21934	16.65290	40.04683	75.91127	33.42139
#1	.0265439	.0226649	.0007341	-.003269	-.002138	.0083744	.0084472
#2	.0121947	.0193817	.0006474	-.004204	-.003301	.0187454	.0068454
#3	.0583677	.0140296	.0003819	-.003119	-.001478	.0429073	.0041587

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSA01 Acquired: 8/1/2025 12:09:54 Type: Unk
Method: 6010-200.7 NEW(v78) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.005424	.0150783	.0062921
Stddev	.002894	.0019395	.0013983
%RSD	53.35663	12.86291	22.22244
#1	-.005052	.0156309	.0061977
#2	-.002734	.0166815	.0049435
#3	-.008487	.0129224	.0077352

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4786.674	77979.76	6804.688	4094.870	5390.861
Stddev	39.116	279.31	65.834	12.576	43.282
%RSD	.8171913	.3581801	.9674868	.3071105	.8028862
#1	4822.771	77913.13	6825.479	4080.454	5432.350
#2	4745.113	77739.79	6857.616	4100.568	5345.984
#3	4792.138	78286.35	6730.968	4103.588	5394.249

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSAB01 Acquired: 8/1/2025 12:14:05 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**.1040082**	**.1120349**	**.0399467**	**.0431732**	**.5678077**	**252.2579**
Stddev	.0027238	.0047150	.0018661	.0023503	.0024737	3.4481
%RSD	2.618814	4.208489	4.671577	5.443822	.4356631	1.366913
#1	.1071430	.1174388	.0417010	.0419907	.5691611	256.2393
#2	.1022195	.1099070	.0401533	.0416490	.5649525	250.2381
#3	.1026623	.1087589	.0379859	.0458798	.5693094	250.2963

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4895373**	**.4885205**	**.9146822**	**241.1848**	**.5199840**	**.4762936**
Stddev	.0072769	.0074260	.0010453	3.0493	.0033171	.0006430
%RSD	1.486484	1.520100	.1142777	1.264308	.6379147	.1350063
#1	.4979166	.4969795	.9141374	244.6834	.5161766	.4757551
#2	.4858893	.4830746	.9140218	239.0919	.5222488	.4761202
#3	.4848060	.4855075	.9158873	239.7789	.5215268	.4770056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4676753**	**96.93460**	**.4795264**	**250.9341**	**.9449239**	**.2024893**
Stddev	.0010913	.50394	.0071333	3.0012	.0015252	.0010949
%RSD	.2333351	.5198721	1.487568	1.196018	.1614150	.5407337
#1	.4668421	96.39361	.4877412	254.3634	.9454822	.2012250
#2	.4672733	97.39070	.4748973	248.7866	.9431982	.2031223
#3	.4689105	97.01950	.4759408	249.6525	.9460914	.2031206

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006356**	**.4645024**	**.9781475**	**-.014302**	**.9618040**	**.9898875**
Stddev	.020379	.0074237	.0017821	.021399	.0104456	.0015240
%RSD	320.6371	1.598205	.1821923	149.6151	1.086037	.1539532
#1	.004283	.4729857	.9788385	-.038170	.9738606	.9885775
#2	-.029852	.4613266	.9794806	-.007905	.9560727	.9915600
#3	.006502	.4591949	.9761233	.003168	.9554787	.9895249

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSAB01 Acquired: 8/1/2025 12:14:05 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.9803038	.9936316	.9508364	F .0115616	F .0021019	.9675370
Stddev	.0011314	.0148287	.0242738	.0013426	.0004282	.0104508
%RSD	.1154087	1.492375	2.552888	11.61303	20.37123	1.080140
#1	.9790338	1.010748	.9755255	.0100121	.0017365	.9794687
#2	.9812040	.985480	.9499833	.0123816	.0025730	.9631343
#3	.9806734	.984666	.9270004	.0122910	.0019962	.9600079

Elem	Sr4077
Units	ppm
Avg	.9989607
Stddev	.0159598
%RSD	1.597639
#1	1.017386
#2	.989435
#3	.990061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4848.812	78735.09	6822.462	4125.920	5463.972
Stddev	2.680	326.07	88.421	18.500	2.903
%RSD	.0552721	.4141381	1.296024	.4483835	.0531297
#1	4851.845	79026.85	6720.363	4114.236	5464.009
#2	4846.765	78383.10	6873.143	4116.275	5466.856
#3	4847.825	78795.32	6873.878	4147.249	5461.051

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSADLX20 Acquired: 8/1/2025 12:18:06 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.0012779	.0005189	.0002771	-.000058	-.001921	12.01873	.0002705
Stddev	.0013865	.0016500	.0009955	.001505	.001076	.01655	.0004743
%RSD	108.4951	317.9917	359.2923	2603.713	56.00928	.1377370	175.3154
#1	-.000321	.0001799	.0013100	.001288	-.002362	12.00670	.0008076
#2	.002003	-.000935	-.000676	.000220	-.002707	12.03761	-.000091
#3	.002151	.002312	.000198	-.001682	-.000695	12.01188	.000095

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001712	-.000047	12.09181	.0008226	.0000071	.0005067	4.638274
Stddev	.0000753	.000102	.03170	.0002272	.0000233	.0004064	.012765
%RSD	43.95122	216.7244	.2621646	27.62000	328.7681	80.20017	.2752093
#1	.0002520	-.000103	12.10140	.0010824	-.000010	.0005159	4.644105
#2	.0001030	-.000109	12.05642	.0006612	.000034	.0009084	4.647081
#3	.0001588	.000071	12.11761	.0007242	-.000002	.0000958	4.623634

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000890	12.53694	.0000998	-.000233	-.111371	.0049784	-.001121
Stddev	.000321	.05140	.0002171	.000420	.010166	.0034995	.000235
%RSD	36.12669	.4099838	217.4523	180.6756	9.128126	70.29220	20.91824
#1	-.000587	12.58568	.0003066	.000028	-.103866	.0031636	-.001102
#2	-.001227	12.48324	-.000126	-.000717	-.107306	.0090125	-.001365
#3	-.000855	12.54191	.000119	-.000008	-.122940	.0027592	-.000897

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.041215	.0034070	.0004283	-.000689	.0014102	.0023990	-.003147
Stddev	.033720	.0005850	.0001194	.000425	.0006681	.0048483	.001016
%RSD	81.81485	17.17154	27.88580	61.78961	47.37597	202.0974	32.29237
#1	-.006976	.0029995	.0002947	-.000444	.0011200	-.002917	-.002655
#2	-.042279	.0031441	.0005247	-.000442	.0009363	.003537	-.004315
#3	-.074391	.0040773	.0004655	-.001180	.0021744	.006577	-.002470

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSADLX20 Acquired: 8/1/2025 12:18:06 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**-.002533**	**-.002064**	**.0005550**
Stddev	.003151	.002302	.0000525
%RSD	124.4065	111.5555	9.463712
#1	-.001244	-.004537	.0006143
#2	-.006125	-.001672	.0005142
#3	-.000231	.000017	.0005366

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5326.691**	**89041.84**	**7226.747**	**4593.139**	**6565.898**
Stddev	11.538	537.58	16.432	37.167	11.731
%RSD	.2166046	.6037387	.2273773	.8091925	.1786659
#1	5322.153	88826.55	7210.076	4580.295	6564.915
#2	5339.808	88645.28	7242.929	4564.097	6578.089
#3	5318.112	89653.70	7227.236	4635.025	6554.689

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSABDLX20 Acquired: 8/1/2025 12:22:21 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.0042104	.0073829	.0022058	-.000928	.0248542	12.15683	.0243060
Stddev	.0015944	.0020036	.0005337	.001676	.0009464	.21541	.0018315
%RSD	37.86893	27.13857	24.19426	180.5790	3.807664	1.771901	7.535293
#1	.0037957	.0095968	.0015903	-.002775	.0253130	12.40490	.0264208
#2	.0028642	.0056940	.0025400	.000496	.0254838	12.01710	.0232607
#3	.0059712	.0068581	.0024871	-.000505	.0237659	12.04849	.0232365

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0245352	.0422995	12.22717	.0238887	.0217347	.0231132	4.663073
Stddev	.0002297	.0003242	.19922	.0004810	.0002740	.0003452	.019354
%RSD	.9362792	.7664579	1.629297	2.013495	1.260629	1.493587	.4150520
#1	.0247759	.0426172	12.45427	.0244076	.0220168	.0234623	4.682723
#2	.0243183	.0423121	12.08189	.0234577	.0217178	.0231054	4.644029
#3	.0245113	.0419692	12.14535	.0238008	.0214696	.0227720	4.662466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227990	12.60602	.0441592	.0092424	-.117282	.0250971	.0465327
Stddev	.0003024	.25651	.0005886	.0000978	.006806	.0016000	.0002990
%RSD	1.326181	2.034831	1.332912	1.057870	5.803034	6.375205	.6426674
#1	.0230055	12.90178	.0448089	.0091681	-.110070	.0250005	.0467346
#2	.0224519	12.44430	.0440073	.0093531	-.118186	.0235476	.0461891
#3	.0229395	12.47199	.0436615	.0092060	-.123591	.0267432	.0466744

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.090599	.0502909	.0483253	.0435398	.0517312	.0314692	.0010630
Stddev	.014226	.0010670	.0003474	.0000727	.0013946	.0033079	.0021975
%RSD	15.70253	2.121673	.7188309	.1670432	2.695873	10.51152	206.7380
#1	-.082202	.0506157	.0487115	.0435728	.0533312	.0349105	-.000932
#2	-.107025	.0511577	.0482260	.0435902	.0507729	.0283132	.003418
#3	-.082570	.0490992	.0480384	.0434564	.0510896	.0311837	.000703

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: ICSABDLX20 Acquired: 8/1/2025 12:22:21 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.0001104	.0377430	.0498884
Stddev	.0022485	.0013036	.0009509
%RSD	2036.270	3.453984	1.906079
#1	-.001265	.0392006	.0509865
#2	.002705	.0366887	.0493391
#3	-.001109	.0373396	.0493398

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5462.303	89119.46	7179.831	4606.435	6742.830
Stddev	13.750	153.79	100.460	11.284	19.482
%RSD	.2517286	.1725695	1.399192	.2449640	.2889241
#1	5447.737	88942.27	7065.218	4593.452	6720.347
#2	5475.059	89197.73	7252.631	4613.875	6753.416
#3	5464.112	89218.37	7221.643	4611.979	6754.727

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV01 Acquired: 8/1/2025 12:26:34 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**4.930062**	**4.836632**	**4.868220**	**4.923429**	**4.979163**	**9.937741**	**10.05382**
Stddev	.008742	.205548	.008931	.014011	.003013	.057874	.16797
%RSD	.1773181	4.249825	.1834534	.2845824	.0605052	.5823628	1.670743
#1	4.938938	4.984299	4.868779	4.933708	4.980926	9.905266	10.08010
#2	4.921461	4.923721	4.859023	4.929109	4.975684	10.00456	10.20711
#3	4.929789	4.601876	4.876858	4.907470	4.980879	9.90340	9.87426

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2501446**	**2.453609**	**25.17919**	**.9946263**	**2.462114**	**1.245456**	**4.981173**
Stddev	.0028922	.004022	.25600	.0023577	.006093	.001286	.028019
%RSD	1.156231	.1639214	1.016714	.2370437	.2474824	.1032168	.5624921
#1	.2500834	2.453865	25.20133	.9933996	2.461447	1.245165	4.981985
#2	.2530670	2.449465	25.42340	.9931350	2.456381	1.244341	4.952757
#3	.2472834	2.457497	24.91284	.9973445	2.468513	1.246862	5.008776

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.508340**	**24.68052**	**2.476571**	**1.225203**	**24.23685**	**2.486504**	**2.471722**
Stddev	.018793	.15346	.005089	.000778	.12153	.000934	.000888
%RSD	.7492330	.6217926	.2055000	.0635021	.5014088	.0375431	.0359352
#1	2.505287	24.57649	2.474032	1.225127	24.21614	2.486980	2.472646
#2	2.528473	24.85677	2.473251	1.226017	24.12702	2.485428	2.470875
#3	2.491261	24.60829	2.482431	1.224467	24.36741	2.487103	2.471646

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.54098**	**4.969941**	**5.021246**	**4.927830**	**5.055626**	**4.830938**	**4.883443**
Stddev	.05653	.054922	.003435	.006657	.041434	.073201	.025199
%RSD	.2303491	1.105082	.0684110	.1350860	.8195694	1.515246	.5160033
#1	24.50854	4.972401	5.024618	4.935404	5.063524	4.764692	4.911538
#2	24.50813	5.023592	5.021369	4.922905	5.092542	4.818598	4.875949
#3	24.60625	4.913831	5.017751	4.925181	5.010810	4.909524	4.862840

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV01 Acquired: 8/1/2025 12:26:34 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**4.848153**	**4.943232**	**5.001544**
Stddev	.031269	.024816	.051021
%RSD	.6449754	.5020295	1.020099
#1	4.873918	4.952089	4.944176
#2	4.857178	4.962404	5.018618
#3	4.813364	4.915202	5.041838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5207.979**	**85920.26**	**7096.912**	**4461.010**	**6109.217**
Stddev	3.984	258.29	66.602	3.621	11.111
%RSD	.0764886	.3006217	.9384636	.0811659	.1818660
#1	5204.455	86098.22	7101.599	4464.446	6102.658
#2	5212.301	86038.56	7028.090	4457.229	6122.046
#3	5207.180	85624.00	7161.047	4461.354	6102.948

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB01 Acquired: 8/1/2025 12:30:44 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**.0025353**	**.0006636**	**.0005231**	**-.001156**	**-.001419**	**-.005324**	**.0007749**
Stddev	.0018839	.0025571	.0009195	.002672	.000350	.022265	.0006216
%RSD	74.30564	385.3174	175.7834	231.1765	24.70058	418.2096	80.21281
#1	.0032927	-.001708	.0015643	-.002610	-.001430	.020309	.0010356
#2	.0039227	.003373	.0001826	-.002785	-.001764	-.019858	.0000654
#3	.0003906	.000326	-.000178	.001928	-.001063	-.016422	.0012237

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000020**	**.0001058**	**-.001008**	**-.001691**	**.0000064**	**-.000298**	**-.007291**
Stddev	.000047	.0000635	.008856	.000114	.0000673	.000264	.002518
%RSD	235.7881	59.99951	878.4111	6.732214	1053.984	88.59198	34.53491
#1	-.000037	.0000662	-.010454	-.001591	-.000071	-.000140	-.004701
#2	.000033	.0000721	.000320	-.001667	.000038	-.000151	-.007442
#3	-.000055	.0001790	.007109	-.001814	.000052	-.000603	-.009729

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000993**	**.0189609**	**.0000165**	**-.000148**	**-.112326**	**.0004589**	**-.001160**
Stddev	.000145	.0130522	.0001913	.000376	.007314	.0022170	.000039
%RSD	14.63339	68.83762	1159.701	253.3766	6.511447	483.1474	3.322342
#1	-.001125	.0318740	-.000110	.000283	-.114421	.0021711	-.001151
#2	-.000838	.0192349	-.000077	-.000406	-.118364	.0012509	-.001202
#3	-.001016	.0057738	.000237	-.000323	-.104193	-.002045	-.001127

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.037961**	**.0076625**	**.0011119**	**-.000551**	**.0009827**	**.0054190**	**.0009617**
Stddev	.036116	.0002089	.0000928	.000079	.0015957	.0081677	.0013254
%RSD	95.13791	2.726165	8.350617	14.29661	162.3756	150.7242	137.8111
#1	-.064603	.0076077	.0011588	-.000559	.0005115	.0143279	-.000311
#2	.003145	.0074865	.0011719	-.000625	.0027610	.0036448	.002334
#3	-.052426	.0078934	.0010049	-.000468	-.000324	-.001716	.000862

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB01 Acquired: 8/1/2025 12:30:44 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**-.002900**	**-.005504**	**.0001430**
Stddev	.002855	.004062	.0000316
%RSD	98.45014	73.79833	22.06304
#1	-.003319	-.004983	.0001091
#2	.000141	-.001728	.0001715
#3	-.005522	-.009801	.0001485

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5424.381**	**91093.48**	**7309.111**	**4662.667**	**6917.187**
Stddev	17.847	594.94	94.302	5.054	16.295
%RSD	.3290237	.6531130	1.290195	.1083871	.2355727
#1	5417.402	90756.86	7389.560	4665.903	6916.270
#2	5444.664	91780.42	7332.439	4665.255	6933.921
#3	5411.079	90743.17	7205.335	4656.844	6901.370

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169062BL Acquired: 8/1/2025 12:35:02 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**.0014624**	**-.000887**	**.0010723**	**-.002260**	**-.000303**	**-.003227**	**.0007789**
Stddev	.0006334	.001242	.0007851	.001257	.001276	.008708	.0001401
%RSD	43.31401	139.9354	73.21461	55.62785	420.6421	269.8216	17.98401
#1	.0019328	.000098	.0016171	-.002112	.000331	.001790	.0006380
#2	.0017121	-.002282	.0001724	-.003584	.000531	.001811	.0009181
#3	.0007422	-.000477	.0014275	-.001083	-.001772	-.013282	.0007805

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**-.000032**	**-.008983**	**-.001754**	**-.000249**	**-.000278**	**-.004425**
Stddev	.000064	.000000	.002829	.000187	.000105	.000113	.003588
%RSD	775.0175	.9826114	31.49479	10.66309	41.96165	40.56529	81.08271
#1	-.000029	-.000031	-.011759	-.001941	-.000138	-.000368	-.008426
#2	-.000059	-.000032	-.009086	-.001567	-.000265	-.000152	-.003360
#3	.000064	-.000031	-.006103	-.001755	-.000345	-.000316	-.001491

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000918**	**.0187108**	**-.000069**	**-.000044**	**-.147880**	**.0016479**	**-.001300**
Stddev	.000736	.0440845	.000157	.000124	.011979	.0043372	.000060
%RSD	80.16551	235.6104	227.8169	280.9234	8.100837	263.2038	4.613894
#1	-.001760	.0318613	.000083	.000087	-.156485	-.002207	-.001369
#2	-.000396	.0547236	-.000230	-.000159	-.134198	.006344	-.001260
#3	-.000598	-.030453	-.000059	-.000060	-.152956	.000807	-.001271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.042700**	**.0032315**	**.0001330**	**-.000851**	**.0030443**	**.0164699**	**.0030174**
Stddev	.016899	.0006006	.0001985	.000536	.0010485	.0141140	.0022122
%RSD	39.57546	18.58444	149.2775	62.99218	34.43935	85.69578	73.31247
#1	-.059188	.0025448	-.000081	-.000921	.0042549	.0205051	.0008094
#2	-.025418	.0036584	.000170	-.000283	.0024255	.0007778	.0030092
#3	-.043493	.0034914	.000310	-.001348	.0024526	.0281270	.0052337

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169062BL Acquired: 8/1/2025 12:35:02 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**-.004323**	**-.006105**	**-.000034**
Stddev	.001208	.003404	.000052
%RSD	27.94966	55.75401	153.7679
#1	-.003269	-.005594	-.000085
#2	-.005642	-.002986	.000018
#3	-.004058	-.009736	-.000033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5563.394**	**92021.86**	**7430.005**	**4718.719**	**7124.704**
Stddev	22.390	1664.55	51.670	90.206	27.202
%RSD	.4024561	1.808860	.6954297	1.911658	.3817976
#1	5537.743	93894.06	7397.622	4815.571	7094.619
#2	5579.020	90709.10	7402.799	4637.100	7147.564
#3	5573.418	91462.43	7489.594	4703.486	7131.928

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169062BS Acquired: 8/1/2025 12:39:21 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.7628397	1.938085	.9349732	1.923683	.8116752	1.995754
Stddev	.0073296	.017078	.0046212	.011229	.0043628	.051538
%RSD	.9608330	.8811821	.4942553	.5837311	.5375106	2.582400
#1	.7554688	1.926564	.9320694	1.922382	.8107820	2.014473
#2	.7629230	1.957706	.9325481	1.913161	.8078281	1.937473
#3	.7701274	1.929985	.9403021	1.935506	.8164156	2.035318

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1997346	.2043159	.1872295	1.014962	.3986466	.1967155
Stddev	.0052816	.0039910	.0005411	.027329	.0029072	.0007840
%RSD	2.644316	1.953335	.2890068	2.692654	.7292786	.3985514
#1	.1999359	.2047943	.1869906	1.016871	.3962622	.1962516
#2	.1943552	.2001072	.1868490	.986728	.4018853	.1962743
#3	.2049127	.2080461	.1878489	1.041287	.3977923	.1976207

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3117005	2.959342	.2017622	2.001451	.4958698	.0752644
Stddev	.0012197	.013174	.0045566	.040372	.0009867	.0009308
%RSD	.3913162	.4451769	2.258426	2.017142	.1989825	1.236704
#1	.3115549	2.970212	.2013084	2.020808	.4953917	.0756816
#2	.3105601	2.944691	.1974494	1.955046	.4952132	.0741980
#3	.3129865	2.963123	.2065288	2.028500	.4970045	.0759136

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.777410	.3009186	.2066637	9.612507	.3019991	.4135497
Stddev	.018407	.0055782	.0010219	.075712	.0052351	.0011474
%RSD	.6627460	1.853719	.4944670	.7876439	1.733470	.2774449
#1	2.756276	.3012071	.2078108	9.601009	.3028947	.4123799
#2	2.786014	.2952018	.2058506	9.543201	.2963740	.4135961
#3	2.789939	.3063470	.2063298	9.693310	.3067285	.4146732

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169062BS Acquired: 8/1/2025 12:39:21 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.6877932	.2000235	.8762293	5.622801	F -.004041	.1830349
Stddev	.0023516	.0043332	.0066670	.027852	.001950	.0064157
%RSD	.3419028	2.166325	.7608720	.4953330	48.24350	3.505200
#1	.6855942	.1963371	.8688175	5.598880	-.006141	.1862858
#2	.6875132	.1989367	.8781334	5.616146	-.003692	.1756445
#3	.6902723	.2047966	.8817371	5.653377	-.002289	.1871746

Elem	Sr4077
Units	ppm
Avg	.1975707
Stddev	.0047497
%RSD	2.404063
#1	.1982235
#2	.1925283
#3	.2019603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5345.347	88106.29	7312.213	4550.743	6603.129
Stddev	13.209	369.68	114.577	12.210	11.008
%RSD	.2471092	.4195862	1.566925	.2683070	.1667126
#1	5338.219	88457.98	7317.205	4537.803	6594.904
#2	5360.589	87720.92	7424.212	4562.061	6615.634
#3	5337.234	88139.96	7195.222	4552.365	6598.848

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02 Acquired: 8/1/2025 12:43:22 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.3884722	-.084369	.1759244	.0144998	-.036461	141.9837	.2029237
Stddev	.0011518	.002221	.0009860	.0036440	.003569	.1137	.0009409
%RSD	.2964829	2.631955	.5604511	25.13162	9.787977	.0801130	.4636840
#1	.3896325	-.081820	.1751224	.0173321	-.032354	142.1145	.2018702
#2	.3884551	-.085405	.1770252	.0157787	-.038223	141.9082	.2036806
#3	.3873291	-.085882	.1756256	.0103888	-.038807	141.9283	.2032203

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271528	-.001235	8.154630	1.749162	.0467541	.1490726	659.3485
Stddev	.0000457	.000314	.013094	.005997	.0002667	.0044416	5.0551
%RSD	.1683564	25.43821	.1605740	.3428359	.5703355	2.979484	.7666761
#1	.0271426	-.000908	8.139799	1.749706	.0466061	.1531647	653.9281
#2	.0272027	-.001261	8.164592	1.742912	.0465942	.1497039	660.1830
#3	.0271130	-.001535	8.159499	1.754868	.0470619	.1443491	663.9344

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4616875	12.33170	.1043684	.0074705	6.164601	1.382779	.7961294
Stddev	.0003512	.04664	.0007679	.0019754	.009247	.000309	.0014798
%RSD	.0760637	.3781919	.7357348	26.44238	.1499970	.0223520	.1858755
#1	.4618611	12.36732	.1050580	.0053633	6.158811	1.383015	.7977507
#2	.4619181	12.34888	.1045063	.0077681	6.175265	1.382892	.7948515
#3	.4612833	12.27891	.1035409	.0092803	6.159726	1.382429	.7957860

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.21635	^ *****	.0082097	.0223418	2.343645	6.878192	11.98562
Stddev	.08725	-----	.0001341	.0004548	.007541	.025258	.03366
%RSD	.3758272	-----	1.633420	2.035655	.3217501	.3672212	.2808532
#1	23.11744	^ -----	.0080853	.0218428	2.338262	6.896348	12.01414
#2	23.24924	^ -----	.0083517	.0227330	2.352263	6.888882	11.99424
#3	23.28239	^ -----	.0081922	.0224496	2.340409	6.849347	11.94849

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02 Acquired: 8/1/2025 12:43:22 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**3.762904**	**.0967776**	**-.585010**
Stddev	.017093	.0017137	.004907
%RSD	.4542405	1.770745	.8388450
#1	3.751013	.0987361	-.579760
#2	3.782492	.0955538	-.585787
#3	3.755207	.0960429	-.589482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5850.627**	**95844.25**	**8101.292**	**5020.540**	**5735.458**
Stddev	30.630	364.04	18.449	21.723	30.798
%RSD	.5235338	.3798242	.2277246	.4326858	.5369776
#1	5821.587	96089.28	8094.869	5026.643	5704.596
#2	5847.662	95425.94	8086.914	4996.418	5735.587
#3	5882.632	96017.53	8122.094	5038.559	5766.192

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02DUP Acquired: 8/1/2025 12:47:31 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**.3746502**	**-.077020**	**.1519420**	**.0112929**	**-.030231**	**135.1279**	**.1720247**
Stddev	.0028152	.001069	.0010262	.0056230	.002377	.2467	.0011696
%RSD	.7514171	1.387432	.6753567	49.79199	7.863497	.1825325	.6798926
#1	.3718940	-.076186	.1508016	.0177849	-.030684	135.4119	.1720282
#2	.3775208	-.076649	.1527908	.0081401	-.027660	134.9672	.1708534
#3	.3745358	-.078225	.1522336	.0079538	-.032349	135.0047	.1731925

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0246089**	**-.003140**	**7.679663**	**1.696722**	**.0423583**	**.1225275**	**617.3232**
Stddev	.0000581	.002275	.014751	.049091	.0005351	.0120699	18.4886
%RSD	.2360726	72.45380	.1920788	2.893281	1.263293	9.850745	2.994961
#1	.0245826	-.003378	7.692474	1.712187	.0428206	.1190998	624.4759
#2	.0245687	-.000755	7.663537	1.641761	.0424824	.1359404	596.3269
#3	.0246755	-.005287	7.682979	1.736218	.0417721	.1125421	631.1669

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4269176**	**12.96470**	**.0962255**	**.0129869**	**6.018891**	**1.257853**	**.7075528**
Stddev	.0019077	.04732	.0008728	.0008931	.205725	.013375	.0180449
%RSD	.4468487	.3650286	.9069954	6.876881	3.417988	1.063347	2.550321
#1	.4289733	13.01606	.0967154	.0135894	6.127789	1.265328	.7123838
#2	.4265753	12.95517	.0967433	.0119609	5.781607	1.242411	.6875841
#3	.4252043	12.92286	.0952178	.0134106	6.147278	1.265820	.7226904

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.97932**	**^ *****	**.0094097**	**.0181611**	**2.132958**	**2.069636**	**10.69165**
Stddev	.75050	-----	.0003177	.0000615	.007810	.064455	.06897
%RSD	2.888840	-----	3.375929	.3385480	.3661434	3.114292	.6450407
#1	26.36123	^ -----	.0095084	.0181290	2.141717	2.100346	10.72997
#2	25.11467	^ -----	.0090544	.0181224	2.130440	1.995569	10.73293
#3	26.46205	^ -----	.0096663	.0182320	2.126719	2.112992	10.61203

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02DUP Acquired: 8/1/2025 12:47:31 Type: Unk
Method: 6010-200.7 NEW(v78) 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	3.028192	.0925511	-.544214
Stddev	.032011	.0029017	.017790
%RSD	1.057095	3.135186	3.268916
#1	3.032463	.0949441	-.551251
#2	3.057853	.0893236	-.523982
#3	2.994260	.0933856	-.557409

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5946.772	96671.87	8333.318	5079.020	5971.804
Stddev	22.965	2268.44	49.047	109.831	35.252
%RSD	.3861680	2.346534	.5885643	2.162443	.5903081
#1	5927.828	95731.62	8363.542	5042.049	5944.183
#2	5940.174	99259.24	8276.727	5202.566	5959.720
#3	5972.313	95024.73	8359.684	4992.445	6011.509

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02LX5 Acquired: 8/1/2025 12:51:42 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.0860647	-.015858	.0338480	.0051549	-.007969	31.97806	.0463277
Stddev	.0007493	.001413	.0011580	.0025407	.001166	.07011	.0009186
%RSD	.8706052	8.908572	3.421052	49.28804	14.63139	.2192543	1.982764
#1	.0866417	-.014265	.0340773	.0031037	-.008697	32.03777	.0462767
#2	.0852179	-.016961	.0348741	.0079970	-.008586	31.99555	.0472707
#3	.0863345	-.016347	.0325925	.0043639	-.006625	31.90085	.0454357

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063610	-.002284	1.723401	.3951849	.0084838	.0340343	153.5072
Stddev	.0000719	.000077	.002709	.0001794	.0000468	.0009839	.2500
%RSD	1.130842	3.368394	.1572163	.0453948	.5511888	2.890813	.1628883
#1	.0064382	-.002369	1.726508	.3953882	.0084422	.0350972	153.7541
#2	.0063491	-.002219	1.721531	.3950486	.0084748	.0338502	153.2541
#3	.0062958	-.002263	1.722165	.3951181	.0085345	.0331555	153.5136

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1042649	2.897742	.0199894	.0028706	1.248907	.3215466	.1781559
Stddev	.0005759	.005174	.0002651	.0003660	.021191	.0035914	.0007914
%RSD	.5523631	.1785456	1.326330	12.75182	1.696743	1.116900	.4442300
#1	.1048283	2.903610	.0201461	.0032924	1.225606	.3255690	.1787827
#2	.1042891	2.895780	.0196833	.0026365	1.267026	.3204089	.1772665
#3	.1036772	2.893836	.0201389	.0026828	1.254090	.3186619	.1784183

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.125133	.0094071	.0016431	.0019162	.5693838	2.345867	2.327889
Stddev	.022366	.0014804	.0002331	.0005649	.0237832	.062338	.017730
%RSD	.4363939	15.73736	14.18803	29.48140	4.177013	2.657376	.7616447
#1	5.147673	.0107049	.0018541	.0021982	.5619599	2.279034	2.339245
#2	5.124779	.0077946	.0013929	.0012658	.5959935	2.402438	2.336965
#3	5.102946	.0097219	.0016823	.0022845	.5501980	2.356128	2.307459

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02LX5 Acquired: 8/1/2025 12:51:42 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.7030271	.0210510	-.136473
Stddev	.0043065	.0032801	.000242
%RSD	.6125593	15.58183	.1776408
#1	.7007980	.0228280	-.136688
#2	.7079911	.0230592	-.136210
#3	.7002921	.0172658	-.136521

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5558.488	90882.65	7487.638	4744.533	6491.060
Stddev	18.116	72.97	3.798	2.989	28.292
%RSD	.3259178	.0802945	.0507208	.0629952	.4358680
#1	5539.058	90963.10	7484.924	4741.119	6468.295
#2	5561.491	90864.16	7486.012	4745.803	6482.149
#3	5574.915	90820.71	7491.978	4746.678	6522.735

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02MS Acquired: 8/1/2025 12:55:51 Type: Unk
Method: 6010-200.7 NEW(v78) 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	1.056545	1.887398	1.086310	1.580739	.3807697	142.7601
Stddev	.007325	.033834	.004276	.005102	.0029412	.2355
%RSD	.6932641	1.792651	.3936456	.3227456	.7724355	.1649322
#1	1.060581	1.859314	1.085186	1.581310	.3790473	142.5581
#2	1.048090	1.924961	1.091036	1.585530	.3790960	142.7035
#3	1.060964	1.877919	1.082708	1.575375	.3841658	143.0187

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3396144	.1977335	.1934508	8.353421	2.219279	.2535861
Stddev	.0006633	.0008697	.0009838	.066665	.023961	.0002692
%RSD	.1953130	.4398462	.5085596	.7980599	1.079665	.1061385
#1	.3394036	.1987365	.1938437	8.277852	2.230171	.2537726
#2	.3403575	.1971883	.1941775	8.403906	2.191807	.2537081
#3	.3390821	.1972758	.1923313	8.378504	2.235859	.2532775

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3957217	679.6217	.6627127	16.35393	.6234367	.0799447
Stddev	.0035445	9.2129	.0005177	.06902	.0007435	.0032835
%RSD	.8957011	1.355591	.0781198	.4220403	.1192575	4.107260
#1	.3963071	676.4929	.6621214	16.28106	.6242523	.0764680
#2	.3989370	672.3807	.6629320	16.36239	.6227968	.0803730
#3	.3919209	689.9915	.6630846	16.41832	.6232610	.0829930

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.644308	1.639873	.9931354	41.55300	^ *****	.3471832
Stddev	.122377	.006242	.0121802	.37301	-----	.0007318
%RSD	1.415694	.3806338	1.226435	.8976846	-----	.2107917
#1	8.670998	1.645571	1.003265	41.68285	^ -----	.3466225
#2	8.510789	1.633202	.979621	41.13242	^ -----	.3469160
#3	8.751137	1.640846	.996520	41.84374	^ -----	.3480111

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02MS Acquired: 8/1/2025 12:55:51 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.7045755	2.372803	2.419467	F 18.21876	3.232186	.2727372
Stddev	.0023489	.008116	.039810	.01381	.011624	.0021435
%RSD	.3333812	.3420359	1.645408	.0757963	.3596179	.7859262
#1	.7025224	2.370371	2.423425	18.20494	3.224110	.2702639
#2	.7071370	2.381857	2.377825	18.21877	3.245508	.2738909
#3	.7040671	2.366182	2.457150	18.23256	3.226941	.2740568

Elem	Sr4077
Units	ppm
Avg	-.424714
Stddev	.009238
%RSD	2.175015
#1	-.421848
#2	-.417250
#3	-.435045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5720.398	93724.77	8135.039	4918.153	5622.180
Stddev	11.240	955.43	14.066	47.154	4.349
%RSD	.1964859	1.019403	.1729099	.9587664	.0773525
#1	5723.059	93429.61	8143.909	4899.664	5623.630
#2	5730.068	94792.95	8118.821	4971.749	5625.619
#3	5708.066	92951.74	8142.389	4883.045	5617.292

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02MSD Acquired: 8/1/2025 12:59:55 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**1.052015**	**1.828104**	**1.065163**	**1.556233**	**.3635959**	**147.0498**	**.3425050**
Stddev	.006000	.022365	.002727	.001128	.0052071	.5396	.0010377
%RSD	.5702962	1.223393	.2559828	.0724938	1.432127	.3669522	.3029604
#1	1.058782	1.851279	1.064084	1.556062	.3584586	147.6727	.3432925
#2	1.047344	1.826384	1.063142	1.555200	.3634589	146.7282	.3428934
#3	1.049920	1.806648	1.068264	1.557437	.3688702	146.7484	.3413292

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1981998**	**.1899318**	**8.602155**	**2.196218**	**.2480785**	**.3945979**	**645.8531**
Stddev	.0017297	.0004704	.040448	.010187	.0002442	.0052973	5.5295
%RSD	.8727027	.2476586	.4702132	.4638493	.0984181	1.342449	.8561478
#1	.1962458	.1894344	8.618519	2.205755	.2479609	.3890710	651.8998
#2	.1995348	.1899915	8.631858	2.185486	.2479154	.3950918	644.6055
#3	.1988188	.1903695	8.556088	2.197412	.2483592	.3996310	641.0540

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6440602**	**16.73766**	**.6074332**	**.0760297**	**8.721261**	**1.622264**	**.9468482**
Stddev	.0022421	.13361	.0010766	.0029051	.092622	.009375	.0028833
%RSD	.3481170	.7982610	.1772408	3.820949	1.062022	.5779010	.3045107
#1	.6465164	16.85720	.6062166	.0793842	8.827822	1.630295	.9445940
#2	.6435408	16.59343	.6078205	.0743491	8.675878	1.611962	.9500971
#3	.6421234	16.76234	.6082627	.0743558	8.660084	1.624536	.9458534

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**41.19515**	**^ *****	**.3430631**	**.7086551**	**2.458124**	**2.304144**	**17.45401**
Stddev	.34147	-----	.0006801	.0018569	.005696	.043024	.03895
%RSD	.8289177	-----	.1982560	.2620271	.2317030	1.867254	.2231305
#1	41.58880	^ -----	.3431054	.7073313	2.464107	2.353806	17.44412
#2	40.97871	^ -----	.3423628	.7107777	2.457497	2.280496	17.49694
#3	41.01794	^ -----	.3437211	.7078564	2.452767	2.278131	17.42096

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02MSD Acquired: 8/1/2025 12:59:55 Type: Unk
Method: 6010-200.7 NEW(v78) 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	3.152822	.2674152	-.391946
Stddev	.003923	.0040765	.004549
%RSD	.1244155	1.524407	1.160739
#1	3.151859	.2711468	-.396962
#2	3.149470	.2630646	-.390790
#3	3.157136	.2680341	-.388086

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5759.270	94009.60	8057.325	4930.825	5705.250
Stddev	8.569	610.44	10.577	19.206	12.307
%RSD	.1487811	.6493326	.1312697	.3895110	.2157109
#1	5768.832	93309.32	8058.943	4923.535	5716.836
#2	5752.287	94429.25	8046.033	4916.331	5692.331
#3	5756.690	94290.24	8067.001	4952.608	5706.584

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02A Acquired: 8/1/2025 13:03:59 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**1.046213**	**1.781058**	**1.121020**	**1.643260**	**.6510743**	**141.6718**	**.3768224**
Stddev	.002300	.033649	.008774	.012491	.0030864	.1426	.0005530
%RSD	.2198053	1.889252	.7826484	.7601236	.4740500	.1006849	.1467416
#1	1.045025	1.758089	1.125421	1.646524	.6513070	141.8055	.3761849
#2	1.048863	1.819682	1.126721	1.653794	.6540377	141.5216	.3771116
#3	1.044750	1.765403	1.110916	1.629461	.6478781	141.6882	.3771709

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2024739**	**.1930769**	**8.490099**	**2.059532**	**.2518300**	**.3928388**	**662.4008**
Stddev	.0027763	.0013385	.017546	.007882	.0020586	.0030229	5.4467
%RSD	1.371196	.6932442	.2066592	.3827174	.8174732	.7695134	.8222644
#1	.2011105	.1934078	8.481350	2.050441	.2521742	.3961880	659.9513
#2	.2006428	.1942188	8.510299	2.063711	.2536948	.3903126	668.6422
#3	.2056683	.1916039	8.478649	2.064445	.2496209	.3920157	658.6091

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6291032**	**13.91793**	**.6162035**	**.0797463**	**8.624631**	**1.633449**	**.9429000**
Stddev	.0004552	.04750	.0047010	.0023090	.086122	.004405	.0011037
%RSD	.0723560	.3412733	.7628911	2.895480	.9985601	.2696787	.1170592
#1	.6290702	13.96196	.6174988	.0791951	8.706732	1.638006	.9433352
#2	.6286654	13.86759	.6201210	.0822810	8.632176	1.629213	.9437199
#3	.6295740	13.92423	.6109907	.0777627	8.534984	1.633128	.9416450

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.31896**	**^ *****	**.3665450**	**.7271189**	**2.556380**	**11.17721**	**17.61320**
Stddev	.21365	-----	.0020116	.0060389	.001932	.13089	.12137
%RSD	.6610555	-----	.5488119	.8305268	.0755921	1.171006	.6890747
#1	32.45712	^ -----	.3675458	.7279331	2.558595	11.30579	17.58559
#2	32.42688	^ -----	.3678600	.7327094	2.555039	11.18171	17.74600
#3	32.07288	^ -----	.3642293	.7207142	2.555506	11.04413	17.50802

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2705-02A Acquired: 8/1/2025 13:03:59 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**3.589106**	**.2683827**	**-.411568**
Stddev	.037539	.0008066	.005061
%RSD	1.045917	.3005453	1.229645
#1	3.579501	.2690133	-.409609
#2	3.630515	.2674738	-.417316
#3	3.557303	.2686610	-.407780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5865.694**	**96053.03**	**8187.816**	**5019.755**	**5786.242**
Stddev	22.039	136.23	80.308	21.960	35.136
%RSD	.3757292	.1418299	.9808179	.4374719	.6072263
#1	5859.597	96210.00	8235.859	5004.425	5787.845
#2	5847.344	95965.67	8232.484	5009.928	5750.333
#3	5890.139	95983.42	8095.106	5044.913	5820.549

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2726-01 Acquired: 8/1/2025 13:08:02 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.1103260	-.011153	.4935426	.0068447	-.015968	132.7314	.9225618
Stddev	.0035282	.002985	.0083913	.0028426	.001769	.3231	.0013284
%RSD	3.197980	26.76076	1.700215	41.53022	11.07994	.2434091	.1439884
#1	.1063164	-.013760	.4838810	.0052193	-.017584	133.0664	.9240301
#2	.1117056	-.007898	.4977385	.0051878	-.014078	132.4217	.9214435
#3	.1129558	-.011800	.4990084	.0101270	-.016243	132.7062	.9222119

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127996	.0042254	30.90564	.3662169	.1876477	.4618339	288.5996
Stddev	.0000500	.0006118	.11453	.0009879	.0036907	.0115461	2.0726
%RSD	.3910124	14.47975	.3705778	.2697672	1.966816	2.500055	.7181479
#1	.0127704	.0035521	31.03603	.3651347	.1833873	.4489168	289.1734
#2	.0127710	.0043767	30.85960	.3670705	.1896871	.4654335	290.3248
#3	.0128574	.0047473	30.82130	.3664455	.1898686	.4711514	286.3006

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.841277	48.92077	.2446056	.0086241	1.057025	.6362568	.6835482
Stddev	.021845	.19702	.0041125	.0006208	.011325	.0023036	.0035895
%RSD	.3193180	.4027366	1.681259	7.198930	1.071405	.3620563	.5251250
#1	6.866021	49.13667	.2398586	.0093269	1.068534	.6340297	.6814668
#2	6.833151	48.75072	.2468680	.0083955	1.056648	.6386299	.6876929
#3	6.824659	48.87492	.2470900	.0081500	1.045893	.6361108	.6814847

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.970460	.1245533	.0056658	.0706784	4.276299	1.588579	6.022989
Stddev	.043891	.0019822	.0002757	.0013296	.017242	.009675	.104747
%RSD	1.105441	1.591456	4.865562	1.881187	.4032007	.6090403	1.739122
#1	3.958729	.1268292	.0053744	.0691517	4.296071	1.596293	5.903616
#2	4.019025	.1236265	.0059224	.0713012	4.268437	1.591721	6.065807
#3	3.933627	.1232043	.0057007	.0715823	4.264390	1.577724	6.099544

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2726-01 Acquired: 8/1/2025 13:08:02 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**2.365803**	**.1410193**	**-.128133**
Stddev	.041187	.0022854	.001642
%RSD	1.740919	1.620622	1.281769
#1	2.321636	.1387579	-.128308
#2	2.372613	.1409721	-.129681
#3	2.403161	.1433280	-.126411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6173.965**	**102871.4**	**8755.795**	**5407.584**	**6069.766**
Stddev	74.201	405.8	28.578	28.694	95.456
%RSD	1.201845	.3945091	.3263932	.5306334	1.572649
#1	6259.629	102746.2	8736.227	5407.538	6179.826
#2	6129.655	102543.0	8788.590	5378.912	6009.539
#3	6132.612	103325.1	8742.566	5436.301	6019.934

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-01 Acquired: 8/1/2025 13:12:04 Type: Unk
Method: 6010-200.7 NEW(v78) 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	.0763307	-.006500	1.145638	-.000621	-.006569	81.26171	.7868517
Stddev	.0010913	.002810	.000817	.004591	.002025	.47125	.0046249
%RSD	1.429661	43.23210	.0713314	739.1678	30.82281	.5799212	.5877695
#1	.0770697	-.005774	1.145979	-.004348	-.008439	81.65893	.7899287
#2	.0750773	-.004124	1.144705	-.002024	-.004419	81.38520	.7890932
#3	.0768450	-.009602	1.146229	.004508	-.006850	80.74101	.7815332

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100337	.0036473	118.9685	.3862632	.1051644	.4309489	183.6224
Stddev	.0000534	.0000518	1.0397	.0041862	.0001378	.0004482	.3466
%RSD	.5324109	1.419926	.8739483	1.083770	.1310817	.1040017	.1887555
#1	.0100953	.0035902	119.6804	.3906416	.1050152	.4304458	183.9695
#2	.0100062	.0036602	119.4499	.3858480	.1051909	.4310951	183.2763
#3	.0099997	.0036913	117.7754	.3823002	.1052870	.4313057	183.6215

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.512787	41.43001	.1963615	.0053827	22.08462	.3017852	3.236258
Stddev	.017688	.15648	.0003373	.0006456	.04051	.0059399	.019684
%RSD	.5035423	.3777091	.1717754	11.99422	.1834338	1.968259	.6082468
#1	3.527236	41.59624	.1966715	.0046739	22.10821	.3061973	3.258983
#2	3.518063	41.40826	.1960023	.0059372	22.03784	.3041269	3.225285
#3	3.493061	41.28554	.1964106	.0055370	22.10781	.2950314	3.224506

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.73057	.0607938	.0033505	.0618024	4.522362	2.640519	8.015188
Stddev	.06043	.0038990	.0002844	.0010058	.036203	.019665	.033669
%RSD	.3841317	6.413509	8.488401	1.627404	.8005321	.7447445	.4200599
#1	15.79527	.0562928	.0032173	.0629199	4.545399	2.661763	8.045895
#2	15.72085	.0629553	.0036770	.0615175	4.541053	2.622952	7.979185
#3	15.67560	.0631333	.0031570	.0609698	4.480634	2.636843	8.020484

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-01 Acquired: 8/1/2025 13:12:04 Type: Unk
Method: 6010-200.7 NEW(v78) 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	3.103535	.1243684	.5534674
Stddev	.013172	.0009536	.0049588
%RSD	.4244226	.7667254	.8959452
#1	3.104251	.1254606	.5562613
#2	3.090019	.1239438	.5563988
#3	3.116334	.1237009	.5477420

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6171.790	100753.7	8673.455	5258.604	6005.160
Stddev	5.301	963.2	96.932	37.668	9.224
%RSD	.0858874	.9559825	1.117567	.7163073	.1536044
#1	6172.350	99701.6	8561.891	5218.921	6000.822
#2	6176.789	101592.0	8721.436	5293.866	6015.753
#3	6166.232	100967.5	8737.038	5263.025	5998.904

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV02 Acquired: 8/1/2025 13:16:07 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**4.872023**	**4.929568**	**4.769372**	**4.900295**	**4.923141**	**9.746089**	**9.846263**
Stddev	.009979	.211996	.009363	.021564	.006037	.018216	.179755
%RSD	.2048236	4.300499	.1963080	.4400533	.1226280	.1869052	1.825618
#1	4.878963	4.996348	4.779730	4.908379	4.922915	9.738529	10.03555
#2	4.876518	5.100133	4.766877	4.916649	4.929288	9.766868	9.82537
#3	4.860587	4.692223	4.761510	4.875858	4.917221	9.732871	9.67787

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2505714**	**2.392430**	**25.05724**	**.9765365**	**2.407158**	**1.220974**	**5.000830**
Stddev	.0009388	.004834	.07208	.0008469	.005287	.003890	.020288
%RSD	.3746445	.2020671	.2876615	.0867198	.2196536	.3185694	.4057022
#1	.2504328	2.397453	25.05373	.9759916	2.413122	1.225153	5.018773
#2	.2515718	2.392025	25.13101	.9761057	2.405311	1.220308	4.978814
#3	.2497097	2.387810	24.98698	.9775121	2.403042	1.217460	5.004904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.489002**	**24.47665**	**2.420828**	**1.226574**	**23.55312**	**2.465686**	**2.468532**
Stddev	.003336	.04299	.004245	.001492	.12936	.001002	.009237
%RSD	.1340388	.1756194	.1753352	.1216117	.5492465	.0406547	.3742007
#1	2.491144	24.51428	2.425588	1.227869	23.68098	2.464599	2.465598
#2	2.490704	24.48587	2.417436	1.224943	23.42230	2.465884	2.478880
#3	2.485158	24.42980	2.419460	1.226911	23.55607	2.466575	2.461119

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.36501**	**4.988186**	**4.918259**	**4.824440**	**5.007485**	**4.814852**	**4.887883**
Stddev	.13288	.013900	.013663	.017879	.007613	.037051	.014581
%RSD	.5453630	.2786650	.2777966	.3705888	.1520338	.7695074	.2983095
#1	24.49708	4.981031	4.926839	4.836564	5.011678	4.819189	4.904391
#2	24.23134	5.004207	4.925434	4.832848	5.012080	4.775823	4.882495
#3	24.36662	4.979321	4.902504	4.803907	4.998697	4.849543	4.876763

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV02 Acquired: 8/1/2025 13:16:07 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**4.828337**	**4.725702**	**4.991889**
Stddev	.037443	.010292	.039871
%RSD	.7754885	.2177967	.7987161
#1	4.848550	4.736252	4.973597
#2	4.851330	4.715688	4.964445
#3	4.785131	4.725165	5.037624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5282.372**	**85818.31**	**7135.156**	**4436.433**	**6218.963**
Stddev	19.952	329.82	4.150	3.917	23.248
%RSD	.3777183	.3843202	.0581644	.0882914	.3738216
#1	5259.608	85515.30	7134.866	4440.783	6192.335
#2	5290.678	86169.61	7131.158	4433.184	6229.333
#3	5296.829	85770.03	7139.443	4435.333	6235.221

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB02 Acquired: 8/1/2025 13:22:12 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**-.002064**	**-.001401**	**.0008258**	**-.001302**	**-.001638**	**.0017818**	**.0009915**
Stddev	.001199	.000684	.0002197	.002099	.001072	.0062987	.0003868
%RSD	58.09183	48.79594	26.59971	161.2117	65.47082	353.4979	39.01460
#1	-.000684	-.001896	.0006769	.000819	-.002775	.0006538	.0011679
#2	-.002652	-.000621	.0010781	-.001347	-.001492	-.003877	.0012587
#3	-.002855	-.001687	.0007225	-.003377	-.000645	.008568	.0005479

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000053**	**.0000365**	**-.006199**	**-.001697**	**-.000157**	**-.000078**	**.0034103**
Stddev	.000061	.0000170	.005626	.000207	.000238	.000085	.0045371
%RSD	114.5445	46.54810	90.75980	12.19969	151.4912	108.5803	133.0419
#1	.000005	.0000272	-.000993	-.001463	-.000347	-.000173	.0086475
#2	-.000117	.0000261	-.012167	-.001853	.000110	-.000053	.0009118
#3	-.000048	.0000560	-.005437	-.001777	-.000235	-.000008	.0006716

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001298**	**.0206013**	**-.000111**	**-.000179**	**-.100271**	**.0025384**	**-.001220**
Stddev	.000248	.0040126	.000421	.000059	.005253	.0054832	.000241
%RSD	19.09730	19.47741	378.5205	32.81187	5.239069	216.0093	19.75606
#1	-.001098	.0193062	.000371	-.000216	-.094297	.0033070	-.001000
#2	-.001220	.0251015	-.000408	-.000210	-.104172	.0075968	-.001478
#3	-.001575	.0173962	-.000297	-.000111	-.102343	-.003289	-.001184

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0462913**	**.0019663**	**.0005946**	**-.000328**	**.0018724**	**.0108820**	**.0018158**
Stddev	.0189187	.0003105	.0000818	.000373	.0014489	.0112192	.0002014
%RSD	40.86874	15.79299	13.76072	113.7381	77.38411	103.0988	11.09319
#1	.0275086	.0017432	.0006732	-.000227	.0007865	.0170284	.0020388
#2	.0653430	.0023209	.0006007	-.000016	.0035176	-.002067	.0017618
#3	.0460223	.0018346	.0005099	-.000742	.0013130	.017685	.0016469

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB02 Acquired: 8/1/2025 13:22:12 Type: Unk
Method: 6010-200.7 NEW(v78) 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	**-.003383**	**-.004512**	**.0001029**
Stddev	.002842	.001769	.0000150
%RSD	84.01371	39.21627	14.60996
#1	-.002826	-.006491	.0001203
#2	-.000861	-.003081	.0000939
#3	-.006463	-.003964	.0000946

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5487.099**	**91241.54**	**7237.400**	**4664.097**	**7023.436**
Stddev	25.136	193.62	7.896	6.085	18.734
%RSD	.4581017	.2122081	.1091025	.1304628	.2667416
#1	5477.310	91043.55	7246.199	4657.088	7005.082
#2	5515.657	91250.62	7235.071	4667.172	7042.529
#3	5468.330	91430.47	7230.931	4668.030	7022.699

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169063BL Acquired: 8/1/2025 13:29:18 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0002845	-.000336	-.000144	.0008711	-.001205	-.003235	.0008276
Stddev	.0025533	.000258	.001243	.0013623	.000546	.001823	.0003450
%RSD	897.5216	76.75160	864.6851	156.3964	45.28971	56.36692	41.68982
#1	.0013938	-.000115	.000863	-.000675	-.001273	-.005105	.0005226
#2	.0020955	-.000619	.000239	.001895	-.000628	-.003137	.0012020
#3	-.002636	-.000274	-.001533	.001393	-.001713	-.001463	.0007580

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000005	.0000048	-.002779	-.001807	-.000253	-.000481	-.000340
Stddev	.000077	.0000359	.004795	.000596	.000190	.000115	.004143
%RSD	1404.377	741.0876	172.5293	33.00053	74.96896	23.99129	1218.093
#1	-.000005	-.000035	-.008289	-.001651	-.000097	-.000538	-.001744
#2	-.000082	.000034	-.000500	-.002466	-.000464	-.000557	.004323
#3	.000071	.000016	.000451	-.001304	-.000198	-.000348	-.003599

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001359	.0170659	-.000266	.0001014	-.129133	.0024918	-.001368
Stddev	.000165	.0435053	.000224	.0002420	.003080	.0029507	.000139
%RSD	12.14069	254.9249	84.25569	238.5292	2.385078	118.4182	10.15499
#1	-.001518	-.013293	-.000507	.0002057	-.132576	.0022950	-.001252
#2	-.001370	-.002417	-.000063	-.000175	-.126642	.0055360	-.001331
#3	-.001189	.066907	-.000228	.000274	-.128179	-.000356	-.001522

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0297038	-.000468	.0000127	-.001460	.0019794	-.000423	.0026784
Stddev	.0149148	.001461	.0003853	.000353	.0009668	.011848	.0019953
%RSD	50.21184	312.1625	3028.911	24.19770	48.84309	2801.338	74.49690
#1	.0132406	.001013	.0003565	-.001633	.0008643	-.013776	.0028846
#2	.0335566	-.000509	-.000404	-.001693	.0024910	.003677	.0045626
#3	.0423142	-.001908	.000086	-.001054	.0025829	.008830	.0005880

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169063BL Acquired: 8/1/2025 13:29:18 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.004102	-.004229	.0000362
Stddev	.000888	.004387	.0000904
%RSD	21.64623	103.7206	250.1101
#1	-.003509	-.005813	.0001268
#2	-.003674	-.007604	.0000358
#3	-.005123	.000729	-.000054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5521.093	92763.59	7380.032	4750.209	7065.966
Stddev	23.110	403.88	19.123	8.763	40.090
%RSD	.4185803	.4353878	.2591241	.1844680	.5673656
#1	5547.396	92344.50	7358.453	4748.047	7111.593
#2	5511.837	93150.32	7386.763	4759.850	7049.920
#3	5504.046	92795.93	7394.879	4742.730	7036.384

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169063BS Acquired: 8/1/2025 13:33:37 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7594016	2.018457	.9166515	1.934275	.8123944	1.971898
Stddev	.0025332	.007902	.0054301	.010873	.0033798	.012197
%RSD	.3335775	.3915066	.5923896	.5621032	.4160343	.6185618
#1	.7579825	2.011248	.9149427	1.922489	.8086667	1.971379
#2	.7578961	2.026906	.9122813	1.936423	.8132577	1.959969
#3	.7623263	2.017217	.9227305	1.943913	.8152589	1.984347

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1989981	.2087071	.1817898	1.028283	.3882863	.1912823
Stddev	.0003972	.0010624	.0006267	.005831	.0015338	.0005198
%RSD	.1996195	.5090620	.3447195	.5670249	.3950098	.2717389
#1	.1985487	.2081278	.1818116	1.033619	.3892067	.1907348
#2	.1991430	.2080601	.1811525	1.022060	.3891364	.1913431
#3	.1993025	.2099333	.1824053	1.029171	.3865157	.1917691

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3048971	2.884162	.2020539	2.022496	.4818284	.0750723
Stddev	.0007473	.005696	.0001688	.049328	.0014034	.0005207
%RSD	.2450882	.1974975	.0835403	2.438944	.2912543	.6935713
#1	.3045017	2.890738	.2018590	2.054365	.4812830	.0750254
#2	.3044306	2.880969	.2021496	1.965678	.4807796	.0745767
#3	.3057590	2.880777	.2021531	2.047446	.4834226	.0756149

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.672934	.3015207	.2042219	9.404020	.3064980	.4074920
Stddev	.013149	.0020214	.0002512	.033079	.0031711	.0011882
%RSD	.4919355	.6704011	.1230149	.3517530	1.034616	.2915856
#1	2.678440	.2992724	.2042378	9.413138	.3052461	.4064205
#2	2.657927	.3021014	.2039631	9.431583	.3041440	.4072858
#3	2.682434	.3031881	.2044648	9.367338	.3101040	.4087698

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169063BS Acquired: 8/1/2025 13:33:37 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.6753098**	**.2003392**	**.8235635**	**5.522446**	F **-.006436**	**.1834116**
Stddev	.0025163	.0024959	.0091846	.015549	.000721	.0003133
%RSD	.3726158	1.245856	1.115226	.2815678	11.20645	.1708334
#1	.6735832	.1974595	.8139845	5.525540	-.005683	.1834034
#2	.6741492	.2016793	.8322949	5.505583	-.006503	.1831024
#3	.6781969	.2018789	.8244112	5.536216	-.007121	.1837289

Elem	Sr4077
Units	ppm
Avg	**.1970936**
Stddev	.0001729
%RSD	.0877374
#1	.1968939
#2	.1971963
#3	.1971905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5484.430**	**90924.89**	**7307.825**	**4696.032**	**6830.356**
Stddev	18.260	81.59	34.184	20.025	24.168
%RSD	.3329462	.0897328	.4677766	.4264276	.3538383
#1	5480.240	90890.83	7336.118	4674.947	6818.165
#2	5504.421	91017.99	7317.515	4714.795	6858.192
#3	5468.629	90865.85	7269.842	4698.352	6814.712

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169060TB Acquired: 8/1/2025 13:37:39 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001493**	**.0014513**	**-.000192**	**.0049017**	**-.000658**	**-.002796**	**-.002177**
Stddev	.001678	.0006757	.000128	.0020880	.001205	.014267	.000316
%RSD	112.3665	46.55807	66.57574	42.59702	183.1065	510.3298	14.51234
#1	.000330	.0019862	-.000044	.0036980	.000715	.003694	-.002004
#2	-.001839	.0006919	-.000265	.0073127	-.001542	.007074	-.002541
#3	-.002972	.0016757	-.000266	.0036944	-.001147	-.019154	-.001985

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000153**	**-.000072**	**.1118421**	**-.001274**	**-.000476**	**-.000152**	**.0019995**
Stddev	.000013	.000065	.0054009	.000510	.000274	.000317	.0035862
%RSD	8.510158	91.33133	4.829060	40.00019	57.50869	208.3920	179.3517
#1	-.000167	-.000047	.1166339	-.001623	-.000597	.000192	.0003859
#2	-.000150	-.000022	.1129029	-.001510	-.000163	-.000433	-.000496
#3	-.000141	-.000146	.1059894	-.000689	-.000668	-.000216	.006109

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047869**	**.0032135**	**.0011716**	**.0003635**	**447.2826**	**.0031281**	**-.000301**
Stddev	.0003594	.0201186	.0002986	.0007442	2.8151	.0041398	.000095
%RSD	7.507646	626.0715	25.48381	204.7354	.6293735	132.3432	31.68024
#1	.0049593	-.014727	.0014796	.0004692	444.1069	.0011474	-.000209
#2	.0043738	-.000597	.0011517	-.000428	448.2696	.0003507	-.000400
#3	.0050276	.024965	.0008835	.001049	449.4713	.0078861	-.000293

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0921764**	**-.000737**	**.0004398**	**-.000722**	**.0025891**	**.0228652**	**.0059762**
Stddev	.0279774	.000349	.0001876	.000660	.0010512	.0138655	.0011370
%RSD	30.35204	47.37152	42.65356	91.40923	40.60228	60.64002	19.02508
#1	.1015319	-.001076	.0002361	-.000513	.0023716	.0136591	.0053124
#2	.0607201	-.000379	.0006055	-.000192	.0016636	.0388123	.0072891
#3	.1142773	-.000755	.0004777	-.001462	.0037321	.0161243	.0053271

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB169060TB Acquired: 8/1/2025 13:37:39 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.1664796	-.008916	.0003830
Stddev	.0013998	.003798	.0001093
%RSD	.8408148	42.59757	28.54146
#1	.1670634	-.005167	.0005090
#2	.1648824	-.008821	.0003275
#3	.1674929	-.012761	.0003126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5242.966	86663.47	7626.630	4487.758	6102.406
Stddev	18.913	273.67	52.033	12.729	22.335
%RSD	.3607263	.3157792	.6822582	.2836425	.3660018
#1	5261.332	86728.96	7568.994	4476.315	6124.898
#2	5223.551	86898.45	7640.752	4501.469	6080.232
#3	5244.016	86363.00	7670.145	4485.490	6102.088

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02 Acquired: 8/1/2025 13:42:06 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001886**	**.0012280**	**.0061315**	**-.001549**	**.0002254**	**.1256185**	**.2699540**
Stddev	.002326	.0005480	.0015174	.003583	.0016359	.0236659	.0005599
%RSD	123.3452	44.62123	24.74805	231.2508	725.8652	18.83948	.2074195
#1	-.000208	.0011242	.0050170	-.003670	.0011073	.1506922	.2693258
#2	-.004541	.0007394	.0078596	-.003565	-.001662	.1224921	.2704006
#3	-.000908	.0018205	.0055178	.002587	.001231	.1036713	.2701355

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000255**	**.0011042**	**117.4262**	**-.001544**	**.0068465**	**.0038264**	**.0244008**
Stddev	.000037	.0000572	.6717	.000496	.0000591	.0003715	.0065187
%RSD	14.40395	5.178989	.5720139	32.10442	.8629674	9.707442	26.71517
#1	-.000266	.0010462	117.4732	-.002098	.0067849	.0037355	.0290077
#2	-.000285	.0011060	118.0731	-.001140	.0068519	.0042349	.0169421
#3	-.000214	.0011605	116.7322	-.001395	.0069027	.0035089	.0272524

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.919492**	**2.134230**	**.0065623**	**-.000023**	**353.5125**	**.0021206**	**.2451723**
Stddev	.004305	.018389	.0000974	.000125	4.8574	.0001881	.0007813
%RSD	.2242716	.8616278	1.484696	542.7496	1.374028	8.869140	.3186733
#1	1.920110	2.119216	.0065898	-.000155	350.8316	.0020352	.2458612
#2	1.923454	2.128734	.0066430	-.000009	350.5864	.0019904	.2443234
#3	1.914911	2.154741	.0064541	.000095	359.1195	.0023362	.2453325

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.633869**	**.0376092**	**.0014834**	**-.003226**	**-.002596**	**5.241397**	**.0162294**
Stddev	.018038	.0004764	.0000869	.000443	.001894	.048071	.0002654
%RSD	.6848625	1.266605	5.860036	13.73121	72.95352	.9171487	1.635212
#1	2.654662	.0380692	.0014629	-.003234	-.004510	5.231451	.0165098
#2	2.624534	.0376404	.0014086	-.002779	-.000723	5.199077	.0159822
#3	2.622411	.0371180	.0015788	-.003665	-.002555	5.293664	.0161963

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02 Acquired: 8/1/2025 13:42:06 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**2.088845**	**-.005137**	**.8615857**
Stddev	.008337	.001563	.0031656
%RSD	.3991203	30.43014	.3674165
#1	2.098307	-.006296	.8609480
#2	2.085651	-.003359	.8650216
#3	2.082577	-.005756	.8587875

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5255.086**	**87253.42**	**7738.092**	**4472.619**	**6101.054**
Stddev	9.284	236.99	75.228	15.746	4.970
%RSD	.1766680	.2716118	.9721768	.3520517	.0814538
#1	5262.229	87208.71	7673.427	4459.447	6096.448
#2	5258.436	87509.58	7720.193	4490.059	6106.321
#3	5244.591	87041.97	7820.655	4468.353	6100.393

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02DUP Acquired: 8/1/2025 13:46:28 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.004337**	**.0015747**	**.0048720**	**.0014947**	**.0014369**	**.1229948**	**.2764100**
Stddev	.001468	.0013518	.0019838	.0005732	.0028001	.0110151	.0005314
%RSD	33.85234	85.84376	40.71741	38.34893	194.8678	8.955769	.1922470
#1	-.005145	.0005766	.0061354	.0020528	-.001743	.1121817	.2765199
#2	-.005224	.0010344	.0025856	.0009075	.003532	.1342014	.2768779
#3	-.002642	.0031130	.0058951	.0015237	.002522	.1226014	.2758323

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000291**	**.0011378**	**119.8651**	**-.001001**	**.0071630**	**.0047111**	**.0283402**
Stddev	.000042	.0000515	.3673	.000295	.0000648	.0003788	.0070520
%RSD	14.41747	4.530410	.3064302	29.52557	.9047420	8.039901	24.88342
#1	-.000269	.0011016	120.2128	-.000698	.0072348	.0049882	.0234605
#2	-.000266	.0011968	119.9015	-.001014	.0071453	.0048656	.0364256
#3	-.000340	.0011150	119.4809	-.001289	.0071088	.0042795	.0251345

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.959308**	**2.156935**	**.0067273**	**.0000122**	**373.8762**	**.0020113**	**.2748893**
Stddev	.002183	.023778	.0002469	.0002317	.9871	.0032787	.0004352
%RSD	.1114150	1.102378	3.670207	1905.428	.2640133	163.0128	.1583118
#1	1.961084	2.129550	.0069056	-.000235	373.2291	-.001400	.2752678
#2	1.959970	2.168918	.0068309	.000225	373.3871	.005139	.2749863
#3	1.956871	2.172336	.0064455	.000046	375.0123	.002294	.2744138

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.776801**	**.0371053**	**.0014868**	**-.002786**	**-.004259**	**5.397035**	**.0174683**
Stddev	.057397	.0003742	.0002704	.000603	.000345	.039919	.0010442
%RSD	2.067034	1.008417	18.18698	21.66108	8.110665	.7396459	5.977480
#1	2.710593	.0374805	.0017163	-.003451	-.004477	5.354295	.0173335
#2	2.812523	.0371034	.0011887	-.002274	-.003861	5.433355	.0164981
#3	2.807287	.0367321	.0015555	-.002633	-.004440	5.403456	.0185733

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02DUP Acquired: 8/1/2025 13:46:28 Type: Unk
Method: 6010-200.7 NEW(v76) 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	2.151187	-.002351	.8832502
Stddev	.003080	.000968	.0019744
%RSD	.1431983	41.18178	.2235352
#1	2.149933	-.001868	.8830485
#2	2.154697	-.003466	.8853177
#3	2.148932	-.001720	.8813844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5280.938	87864.73	7863.413	4495.171	6115.862
Stddev	18.460	239.50	86.661	12.367	15.721
%RSD	.3495663	.2725776	1.102078	.2751168	.2570558
#1	5300.612	87748.61	7763.427	4509.282	6133.133
#2	5278.207	88140.15	7916.905	4486.217	6112.065
#3	5263.995	87705.42	7909.906	4490.014	6102.386

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02LX5 Acquired: 8/1/2025 13:50:50 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.000808**	**-.000842**	**.0017300**	**-.001847**	**-.000809**	**.0256878**	**.0500920**
Stddev	.001935	.001730	.0003191	.001739	.001935	.0063536	.0006444
%RSD	239.6453	205.4342	18.44321	94.16310	239.1562	24.73401	1.286491
#1	.000730	-.001426	.0019566	-.003422	-.000234	.0184354	.0506237
#2	-.000172	.001104	.0018683	-.002137	-.002966	.0302736	.0502768
#3	-.002981	-.002204	.0013651	.000019	.000773	.0283545	.0493753

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000450**	**.0001820**	**23.10108**	**-.001974**	**.0011697**	**.0003883**	**-.002990**
Stddev	.0000433	.0000469	.06836	.000267	.0001121	.0002105	.002063
%RSD	96.17123	25.77088	.2959203	13.53172	9.579525	54.22330	69.00506
#1	.0000608	.0001589	23.04423	-.001945	.0012819	.0004853	-.005369
#2	-.000004	.0002360	23.17693	-.002254	.0010578	.0001467	-.001681
#3	.000078	.0001512	23.08207	-.001722	.0011694	.0005329	-.001921

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3772840**	**.4062178**	**.0013149**	**.0003018**	**62.38463**	**.0030054**	**.0453365**
Stddev	.0003373	.0201125	.0001787	.0003040	.61146	.0023469	.0003885
%RSD	.0894160	4.951152	13.59035	100.7283	.9801425	78.08718	.8568609
#1	.3768963	.4250025	.0011122	.0002827	62.94265	.0045270	.0455820
#2	.3774456	.4086518	.0014496	.0000078	61.73100	.0041867	.0455390
#3	.3775102	.3849991	.0013828	.0006150	62.48024	.0003027	.0448887

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.144115**	**.0061713**	**.0001705**	**-.002055**	**.0013667**	**.9744417**	**.0042946**
Stddev	.041785	.0002821	.0002316	.000601	.0011027	.0138883	.0017406
%RSD	3.652195	4.570984	135.8021	29.23525	80.68366	1.425253	40.52929
#1	1.189897	.0064606	-.000077	-.002742	.0010045	.9769268	.0022966
#2	1.108033	.0061563	.000207	-.001628	.0004907	.9594787	.0051048
#3	1.134416	.0058970	.000381	-.001796	.0026050	.9869197	.0054825

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02LX5 Acquired: 8/1/2025 13:50:50 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.3884197	.0171027	.1687120
Stddev	.0027507	.0042946	.0000344
%RSD	.7081780	25.11036	.0204032
#1	.3889643	.0219883	.1687163
#2	.3854375	.0153958	.1687441
#3	.3908574	.0139240	.1686756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5525.544	92587.38	7863.340	4729.902	6672.730
Stddev	2.606	506.87	42.928	2.412	.500
%RSD	.0471673	.5474495	.5459199	.0509945	.0074961
#1	5526.816	92061.13	7906.791	4730.621	6673.125
#2	5527.270	93072.34	7820.956	4731.873	6672.898
#3	5522.546	92628.65	7862.273	4727.212	6672.167

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02MS Acquired: 8/1/2025 13:55:06 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.8265284	1.849870	.9349370	2.082799	.8467181	2.112681	.4831156
Stddev	.0034615	.031898	.0035441	.013500	.0046634	.018134	.0020373
%RSD	.4188045	1.724361	.3790777	.6481551	.5507627	.8583240	.4217091
#1	.8233157	1.857113	.9322780	2.074152	.8448458	2.108973	.4828482
#2	.8260754	1.814973	.9335724	2.075890	.8432818	2.096688	.4812252
#3	.8301941	1.877525	.9389606	2.098355	.8520267	2.132382	.4852734

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1931666	.1948759	122.8330	.3886706	.2104085	.3033363	3.231979
Stddev	.0009329	.0009921	.4658	.0015225	.0010314	.0013177	.020704
%RSD	.4829367	.5090931	.3791752	.3917202	.4901700	.4343962	.6406085
#1	.1922404	.1940756	123.3115	.3869228	.2093796	.3019592	3.211954
#2	.1931534	.1945661	122.3812	.3893806	.2104036	.3034645	3.253301
#3	.1941060	.1959859	122.8064	.3897084	.2114423	.3045852	3.230681

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.190451	4.103167	.5160945	.0767758	375.7512	.3091753	.4724661
Stddev	.003648	.024689	.0023747	.0004475	5.2948	.0044411	.0033676
%RSD	.1665217	.6017077	.4601375	.5829111	1.409130	1.436428	.7127716
#1	2.187130	4.083119	.5135256	.0765330	378.0811	.3064768	.4686247
#2	2.189869	4.095637	.5165484	.0765022	379.4816	.3143010	.4749097
#3	2.194355	4.130744	.5182096	.0772923	369.6910	.3067481	.4738640

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.20001	.3019357	.4349215	.7066501	.1995353	6.392234	6.138274
Stddev	.01658	.0023508	.0017158	.0036172	.0018834	.052572	.026046
%RSD	.1167906	.7785611	.3945071	.5118806	.9438820	.8224310	.4243147
#1	14.20716	.2994514	.4333717	.7043087	.1999799	6.331894	6.113788
#2	14.21182	.3022308	.4346277	.7048254	.1974694	6.416653	6.135393
#3	14.18105	.3041250	.4367653	.7108162	.2011567	6.428155	6.165640

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02MS Acquired: 8/1/2025 13:55:06 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**2.212640**	**.1952200**	**1.098954**
Stddev	.010088	.0015094	.002817
%RSD	.4559334	.7731869	.2563090
#1	2.204609	.1944122	1.100837
#2	2.209347	.1969614	1.095716
#3	2.223963	.1942863	1.100309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5231.320**	**88096.72**	**7907.810**	**4466.055**	**6047.482**
Stddev	12.380	587.21	46.339	19.049	13.045
%RSD	.2366475	.6665537	.5859877	.4265296	.2157109
#1	5241.554	88707.82	7939.349	4487.953	6058.911
#2	5234.845	88045.62	7929.474	4456.903	6050.266
#3	5217.560	87536.73	7854.607	4453.310	6033.270

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02MSD Acquired: 8/1/2025 13:59:12 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.8047020**	**1.884761**	**.9194708**	**2.035815**	**.8325532**	**2.119776**	**.5089573**
Stddev	.0079076	.044287	.0070901	.016025	.0098137	.007499	.0015089
%RSD	.9826766	2.349756	.7711030	.7871451	1.178747	.3537526	.2964675
#1	.7993732	1.932899	.9114637	2.018190	.8217575	2.123996	.5106740
#2	.8009451	1.845744	.9219964	2.039748	.8349683	2.124214	.5083572
#3	.8137877	1.875641	.9249522	2.049508	.8409339	2.111118	.5078409

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1944285**	**.1921145**	**135.2112**	**.3876085**	**.2066805**	**.2968934**	**3.174599**
Stddev	.0005200	.0016409	.3815	.0057516	.0016979	.0026184	.055459
%RSD	.2674552	.8541159	.2821439	1.483867	.8214854	.8819228	1.746971
#1	.1943503	.1902380	135.6456	.3811052	.2047574	.2939750	3.127341
#2	.1939521	.1928256	134.9306	.3920269	.2073121	.2976685	3.235654
#3	.1949832	.1932799	135.0573	.3896934	.2079720	.2990368	3.160802

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.393884**	**4.320886**	**.5053746**	**.0755057**	**402.5397**	**.3054830**	**.4906750**
Stddev	.004764	.083698	.0044000	.0011816	4.9201	.0041364	.0077842
%RSD	.1990164	1.937050	.8706406	1.564886	1.222259	1.354064	1.586418
#1	2.399068	4.386111	.5003870	.0741416	399.3077	.3090453	.4827454
#2	2.389698	4.226511	.5070301	.0762119	408.2020	.3064574	.4983050
#3	2.392885	4.350034	.5087068	.0761636	400.1095	.3009464	.4909746

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.22819**	**.3058565**	**.4301083**	**.7076417**	**.2015038**	**6.839848**	**6.041632**
Stddev	.23083	.0019243	.0038823	.0036868	.0008999	.058229	.042050
%RSD	1.622321	.6291593	.9026425	.5209959	.4466027	.8513229	.6960087
#1	13.98846	.3049724	.4256278	.7034779	.2025426	6.787485	5.993289
#2	14.44894	.3045332	.4322188	.7089555	.2010088	6.902556	6.069734
#3	14.24719	.3080640	.4324781	.7104916	.2009601	6.829502	6.061872

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02MSD Acquired: 8/1/2025 13:59:12 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**2.449931**	**.1905419**	**1.183983**
Stddev	.010306	.0054449	.003275
%RSD	.4206812	2.857594	.2765867
#1	2.444076	.1843900	1.187550
#2	2.443885	.1924942	1.183284
#3	2.461831	.1947415	1.181113

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5273.899**	**87317.32**	**7682.023**	**4458.524**	**6069.940**
Stddev	45.582	809.49	31.350	49.234	47.438
%RSD	.8642893	.9270706	.4080945	1.104257	.7815269
#1	5326.442	88187.05	7649.828	4502.530	6124.325
#2	5244.952	86585.88	7712.453	4405.351	6037.083
#3	5250.304	87179.01	7683.787	4467.690	6048.412

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02A Acquired: 8/1/2025 14:03:19 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.8019981**	**1.793800**	**.9025014**	**2.028003**	**.8574921**	**2.060226**	**.4641909**
Stddev	.0018454	.015490	.0011502	.008500	.0027818	.023238	.0020771
%RSD	.2300954	.8635296	.1274449	.4191415	.3244117	1.127913	.4474694
#1	.8014124	1.781665	.9011801	2.020650	.8542913	2.039489	.4640591
#2	.8005167	1.788488	.9032788	2.026049	.8588588	2.085341	.4663307
#3	.8040652	1.811247	.9030451	2.037310	.8593262	2.055847	.4621828

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1866275**	**.1883803**	**117.6328**	**.3864344**	**.2029038**	**.2936870**	**3.208850**
Stddev	.0017017	.0004681	.6449	.0010084	.0001572	.0012714	.027245
%RSD	.9118131	.2484634	.5482244	.2609491	.0774735	.4329216	.8490431
#1	.1846626	.1878400	117.4963	.3855809	.2027492	.2934370	3.236964
#2	.1876274	.1886620	118.3350	.3875471	.2028988	.2925591	3.207019
#3	.1875924	.1886389	117.0671	.3861752	.2030635	.2950648	3.182567

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.108656**	**3.955561**	**.4973664**	**.0753150**	**366.6604**	**.3011975**	**.4687457**
Stddev	.005631	.018179	.0008502	.0005004	2.1591	.0039664	.0017981
%RSD	.2670475	.4595729	.1709444	.6643531	.5888648	1.316884	.3835928
#1	2.106199	3.941560	.4967001	.0757248	366.4556	.3049120	.4684944
#2	2.115098	3.949017	.4970751	.0747574	368.9146	.2970198	.4670864
#3	2.104671	3.976106	.4983239	.0754628	364.6109	.3016608	.4706561

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.96172**	**.2925184**	**.4399785**	**.7152713**	**.2001733**	**6.321421**	**5.928367**
Stddev	.07439	.0023213	.0012608	.0014854	.0006469	.064955	.015060
%RSD	.5327801	.7935679	.2865492	.2076691	.3231616	1.027539	.2540272
#1	14.03611	.2902338	.4390098	.7140176	.1998535	6.396424	5.917407
#2	13.96171	.2924466	.4395218	.7148843	.2009178	6.283907	5.922155
#3	13.88734	.2948748	.4414040	.7169118	.1997485	6.283930	5.945539

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2728-02A Acquired: 8/1/2025 14:03:19 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**2.091505**	**.1844301**	**1.058900**
Stddev	.007882	.0019137	.003892
%RSD	.3768377	1.037652	.3675035
#1	2.083418	.1840313	1.059182
#2	2.091932	.1865118	1.062643
#3	2.099164	.1827472	1.054876

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5240.885**	**86820.44**	**7924.945**	**4452.731**	**6065.961**
Stddev	5.223	291.39	41.996	28.398	.599
%RSD	.0996666	.3356250	.5299225	.6377578	.0098824
#1	5240.160	86572.51	7970.826	4421.573	6065.871
#2	5246.433	86747.41	7888.408	4477.159	6065.411
#3	5236.062	87141.40	7915.600	4459.460	6066.600

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV03 Acquired: 8/1/2025 14:07:26 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.924926**	**4.866575**	**4.716483**	**4.998907**	**5.001551**	**9.620385**	**9.762864**
Stddev	.006251	.093582	.015849	.011360	.005533	.036680	.102044
%RSD	.1269329	1.922948	.3360404	.2272578	.1106189	.3812697	1.045227
#1	4.928986	4.966584	4.706048	5.011933	5.007799	9.636175	9.801047
#2	4.917727	4.852013	4.708680	4.991050	4.999581	9.646525	9.840310
#3	4.928064	4.781127	4.734721	4.993737	4.997272	9.578455	9.647234

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2419573**	**2.358111**	**24.50983**	**.9594902**	**2.382230**	**1.216587**	**4.991501**
Stddev	.0017187	.005850	.11287	.0027958	.004308	.003473	.023335
%RSD	.7103428	.2480872	.4605121	.2913843	.1808422	.2854569	.4674966
#1	.2429885	2.355912	24.56854	.9621931	2.378489	1.216096	4.964973
#2	.2429101	2.353679	24.58124	.9596674	2.381262	1.213385	5.008855
#3	.2399732	2.364742	24.37970	.9566100	2.386940	1.220279	5.000675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.438361**	**23.78353**	**2.396500**	**1.225638**	**23.42797**	**2.425229**	**2.464566**
Stddev	.012125	.12819	.004417	.001425	.03069	.010784	.005467
%RSD	.4972433	.5389866	.1843135	.1162803	.1310173	.4446668	.2218141
#1	2.440570	23.85358	2.394335	1.223992	23.42613	2.427893	2.460960
#2	2.449229	23.86142	2.393584	1.226450	23.45955	2.434431	2.461882
#3	2.425284	23.63558	2.401582	1.226471	23.39824	2.413362	2.470856

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.35398**	**4.864025**	**4.927247**	**4.781007**	**4.942351**	**4.832284**	**4.700347**
Stddev	.07857	.036321	.010756	.013018	.032007	.038821	.002569
%RSD	.3099109	.7467256	.2183007	.2722894	.6475969	.8033583	.0546518
#1	25.30279	4.886535	4.938116	4.787040	4.957223	4.787506	4.703188
#2	25.44445	4.883416	4.916607	4.766066	4.964217	4.856477	4.699666
#3	25.31471	4.822124	4.927017	4.789913	4.905615	4.852869	4.698188

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV03 Acquired: 8/1/2025 14:07:26 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.826367**	**4.822321**	**4.936705**
Stddev	.010927	.028576	.013787
%RSD	.2263993	.5925750	.2792695
#1	4.838853	4.834128	4.945419
#2	4.821700	4.843102	4.943886
#3	4.818549	4.789734	4.920810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5424.955**	**89789.73**	**7654.797**	**4581.051**	**6435.009**
Stddev	13.524	205.61	74.757	6.795	19.394
%RSD	.2492884	.2289953	.9766092	.1483289	.3013815
#1	5422.641	89576.01	7590.520	4583.809	6438.743
#2	5439.486	89807.02	7637.037	4586.034	6452.264
#3	5412.737	89986.15	7736.836	4573.311	6414.019

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB03 Acquired: 8/1/2025 14:16:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.0004662**	**-.001500**	**.0016187**	**-.000301**	**-.000466**	**-.009489**	**-.001487**
Stddev	.0021010	.001557	.0010815	.002602	.001599	.008247	.000137
%RSD	450.6356	103.7668	66.81284	863.3229	343.2051	86.91329	9.203430
#1	.0028051	-.003242	.0020256	-.003306	-.001522	-.003359	-.001340
#2	-.000145	-.000244	.0024376	.001204	.001374	-.006243	-.001611
#3	-.001262	-.001016	.0003927	.001198	-.001249	-.018865	-.001510

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000084**	**-.000053**	**.0033069**	**-.001545**	**-.000249**	**-.000493**	**-.001813**
Stddev	.000042	.000092	.0040631	.000421	.000052	.000260	.008960
%RSD	49.93982	172.2341	122.8658	27.25294	20.93624	52.68112	494.0623
#1	-.000132	.000053	.0069786	-.001077	-.000217	-.000214	.000904
#2	-.000055	-.000102	-.001058	-.001893	-.000309	-.000729	.005473
#3	-.000065	-.000111	.004001	-.001666	-.000220	-.000537	-.011817

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000935**	**.0193611**	**-.000014**	**.0004530**	**.2553049**	**.0026284**	**-.001371**
Stddev	.000593	.0163922	.000177	.0000658	.0052193	.0038149	.000047
%RSD	63.35640	84.66555	1253.747	14.51520	2.044357	145.1411	3.394843
#1	-.000662	.0039802	.000087	.0004794	.2521746	.0067083	-.001321
#2	-.001615	.0366053	-.000218	.0005015	.2613302	.0020267	-.001379
#3	-.000529	.0174978	.000089	.0003782	.2524100	-.000850	-.001413

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3434543**	**-.000003**	**.0003353**	**.0002017**	**.0015435**	**.0009477**	**.0030339**
Stddev	.0328065	.000225	.0001512	.0006836	.0013195	.0063942	.0014570
%RSD	9.551921	7280.724	45.08790	338.9853	85.49038	674.7289	48.02349
#1	.3122688	-.000217	.0005020	.0009078	.0016803	-.005405	.0021030
#2	.3776713	-.000024	.0002972	-.000457	.0001609	.000866	.0022858
#3	.3404229	.000232	.0002069	.000154	.0027892	.007382	.0047130

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB03 Acquired: 8/1/2025 14:16:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001613**	**.0004159**	**-.000004**
Stddev	.000266	.0017362	.000040
%RSD	16.48869	417.4228	932.1675
#1	-.001875	.0011587	.000025
#2	-.001620	.0016572	.000011
#3	-.001343	-.001568	-.000049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5617.492**	**94403.52**	**7688.249**	**4808.650**	**7189.709**
Stddev	24.183	419.20	124.103	37.323	31.913
%RSD	.4305028	.4440511	1.614189	.7761679	.4438735
#1	5593.286	94123.75	7728.150	4772.908	7157.541
#2	5617.538	94885.49	7787.494	4847.376	7190.226
#3	5641.653	94201.30	7549.104	4805.665	7221.361

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-01 Acquired: 8/1/2025 14:42:42 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0043367	.0057311	.0020583	.0016924	.0067676	.0216219	.0189169
Stddev	.0007947	.0014267	.0004731	.0026887	.0008664	.0058942	.0010398
%RSD	18.32547	24.89396	22.98666	158.8752	12.80260	27.26023	5.496764
#1	.0035120	.0073194	.0024714	.0008497	.0057901	.0180445	.0186101
#2	.0044006	.0053158	.0015421	-.000474	.0070717	.0284249	.0200756
#3	.0050976	.0045582	.0021614	.004701	.0074410	.0183964	.0180650

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012171	.0009885	.3948327	-.000214	.0053247	.0036831	.0099543
Stddev	.0000198	.0000847	.0032159	.000387	.0001170	.0002165	.0089741
%RSD	1.623915	8.566232	.8144994	181.1674	2.196462	5.877477	90.15313
#1	.0012388	.0009641	.3963551	-.000231	.0053861	.0034367	.0202044
#2	.0012125	.0010827	.3970048	.000182	.0051898	.0037696	.0061471
#3	.0012001	.0009187	.3911383	-.000591	.0053982	.0038428	.0035115

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025695	.3987371	.0071940	.0026188	.4524629	.0102430	.0066523
Stddev	.0002682	.0362574	.0001443	.0001132	.0162865	.0002241	.0004099
%RSD	10.43816	9.093053	2.005490	4.323037	3.599521	2.187583	6.161763
#1	.0023267	.3756944	.0070560	.0027224	.4710662	.0103642	.0070469
#2	.0025244	.3799869	.0071822	.0024980	.4455461	.0103803	.0062287
#3	.0028574	.4405301	.0073438	.0026361	.4407764	.0099844	.0066813

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6173690	.0185067	.0379867	.0064675	.0082881	.0674995	.0047305
Stddev	.0201212	.0006086	.0001808	.0005724	.0015924	.0073104	.0023066
%RSD	3.259189	3.288513	.4758377	8.850773	19.21306	10.83032	48.76075
#1	.6013565	.0184181	.0380195	.0065765	.0078165	.0701482	.0051595
#2	.6399548	.0191548	.0377918	.0069776	.0069848	.0592339	.0022395
#3	.6107958	.0179473	.0381488	.0058484	.0100631	.0731163	.0067925

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-01 Acquired: 8/1/2025 14:42:42 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0005322	.0049813	.0042665
Stddev	.0009590	.0032432	.0001472
%RSD	180.1800	65.10801	3.449470
#1	.0007008	.0074491	.0041204
#2	-.000500	.0061869	.0042643
#3	.001396	.0013079	.0044147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5616.050	94478.54	7580.480	4829.577	7170.852
Stddev	24.790	1192.84	3.513	46.149	19.728
%RSD	.4414169	1.262547	.0463435	.9555541	.2751101
#1	5602.128	94419.28	7576.839	4813.287	7160.057
#2	5644.672	95699.90	7583.849	4881.662	7193.622
#3	5601.351	93316.44	7580.753	4793.782	7158.878

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-03 Acquired: 8/1/2025 14:47:00 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0181436	.0308105	.0113139	.0147239	.0396121	.1121006	.0782725
Stddev	.0021305	.0040867	.0013851	.0017901	.0015435	.0041191	.0010118
%RSD	11.74225	13.26411	12.24280	12.15770	3.896470	3.674423	1.292608
#1	.0205707	.0298872	.0099084	.0167033	.0413728	.1167986	.0788598
#2	.0165826	.0272645	.0113557	.0132185	.0384924	.1091086	.0788535
#3	.0172775	.0352800	.0126777	.0142499	.0389712	.1103946	.0771042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047531	.0051210	1.619096	.0101513	.0229583	.0187218	.1187852
Stddev	.0000499	.0000921	.017362	.0001468	.0000707	.0005904	.0024369
%RSD	1.050334	1.798627	1.072302	1.446454	.3081781	3.153589	2.051565
#1	.0046979	.0052141	1.634868	.0100025	.0229561	.0193828	.1164410
#2	.0047664	.0050299	1.621925	.0101551	.0228887	.0182468	.1186091
#3	.0047950	.0051191	1.600493	.0102961	.0230301	.0185359	.1213054

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181430	1.587627	.0333826	.0087333	2.302580	.0325243	.0348148
Stddev	.0003478	.007669	.0004357	.0003539	.016781	.0042315	.0002820
%RSD	1.916922	.4830361	1.305230	4.051982	.7288056	13.01030	.8100279
#1	.0185409	1.594114	.0337252	.0091221	2.292337	.0296086	.0345020
#2	.0179907	1.579163	.0328922	.0086476	2.293458	.0305867	.0348929
#3	.0178972	1.589605	.0335305	.0084301	2.321947	.0373777	.0350495

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.324976	.0901858	.2293499	.0297769	.0323741	.2790105	.0223841
Stddev	.037472	.0008811	.0022896	.0001431	.0008210	.0086023	.0018399
%RSD	1.126999	.9769466	.9982847	.4805428	2.535905	3.083138	8.219803
#1	3.284842	.0902331	.2297734	.0297074	.0314293	.2703577	.0205009
#2	3.359048	.0910423	.2268782	.0299414	.0327786	.2875614	.0224739
#3	3.331038	.0892821	.2313982	.0296818	.0329143	.2791123	.0241775

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-03 Acquired: 8/1/2025 14:47:00 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0266415	.0149073	.0185385
Stddev	.0022168	.0012519	.0001832
%RSD	8.320792	8.398037	.9881438
#1	.0291858	.0142066	.0186650
#2	.0251262	.0163527	.0186221
#3	.0256126	.0141626	.0183285

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5564.540	94289.35	7795.423	4792.009	7041.309
Stddev	52.499	637.12	21.350	42.065	64.593
%RSD	.9434486	.6757024	.2738793	.8778062	.9173370
#1	5552.943	94836.59	7777.819	4831.948	7029.052
#2	5621.867	94441.54	7789.278	4795.980	7111.152
#3	5518.810	93589.92	7819.171	4748.100	6983.723

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-07 Acquired: 8/1/2025 14:51:16 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0048012	.0077885	.0025702	.0028248	.0082438	.0209136	.0190334
Stddev	.0012708	.0003915	.0013225	.0030555	.0009368	.0169269	.0008096
%RSD	26.46915	5.026004	51.45612	108.1652	11.36333	80.93728	4.253749
#1	.0057680	.0078082	.0020871	.0001725	.0071689	.0092403	.0186582
#2	.0033618	.0073876	.0015572	.0021361	.0086766	.0403268	.0184795
#3	.0052738	.0081697	.0040663	.0061660	.0088859	.0131738	.0199626

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011635	.0010218	.3994018	.0002740	.0054353	.0038532	.0127551
Stddev	.0000751	.0000170	.0045125	.0003102	.0000450	.0002310	.0045981
%RSD	6.451388	1.664171	1.129824	113.2405	.8283286	5.994198	36.04941
#1	.0010863	.0010059	.3996351	.0000501	.0054311	.0036962	.0099247
#2	.0012363	.0010199	.3947771	.0006281	.0053926	.0041184	.0180606
#3	.0011678	.0010397	.4037931	.0001436	.0054823	.0037451	.0102800

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024921	.4215081	.0075928	.0024616	.3591750	.0091778	.0067749
Stddev	.0001143	.0079242	.0002144	.0003120	.0076307	.0019793	.0000663
%RSD	4.585798	1.879956	2.823146	12.67387	2.124503	21.56629	.9785310
#1	.0024046	.4206572	.0074222	.0026329	.3670890	.0068953	.0067747
#2	.0026214	.4298233	.0078334	.0026504	.3585724	.0104211	.0068414
#3	.0024504	.4140437	.0075227	.0021015	.3518634	.0102169	.0067088

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5128763	.0176210	.0383485	.0064316	.0090639	.0700248	.0042323
Stddev	.0371214	.0009537	.0003563	.0005524	.0012813	.0060810	.0017192
%RSD	7.237882	5.412100	.9290485	8.588836	14.13618	8.684084	40.62144
#1	.5434396	.0184540	.0384562	.0060761	.0089589	.0632564	.0057875
#2	.4715676	.0178284	.0379508	.0061506	.0078383	.0717903	.0023862
#3	.5236218	.0165808	.0386386	.0070680	.0103944	.0750278	.0045233

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-07 Acquired: 8/1/2025 14:51:16 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.001964	-.000328	.0041484
Stddev	.001826	.003785	.0000216
%RSD	92.96162	1155.640	.5204990
#1	-.003178	-.004610	.0041327
#2	.000136	.001058	.0041730
#3	-.002850	.002570	.0041395

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5633.398	94460.42	7599.151	4850.226	7166.997
Stddev	2.932	144.76	44.914	20.345	8.451
%RSD	.0520506	.1532499	.5910400	.4194566	.1179173
#1	5630.259	94477.46	7570.293	4857.118	7158.637
#2	5633.868	94595.90	7576.262	4827.331	7175.537
#3	5636.066	94307.89	7650.899	4866.230	7166.818

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-09 Acquired: 8/1/2025 14:55:34 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0169274	.0281757	.0095299	.0149673	.0392694	.0666507	.0761514
Stddev	.0007811	.0008448	.0007784	.0037233	.0020036	.0065902	.0007086
%RSD	4.614704	2.998342	8.167939	24.87635	5.102100	9.887605	.9305126
#1	.0164413	.0272327	.0103461	.0112853	.0407595	.0684418	.0766715
#2	.0165125	.0288636	.0087958	.0148861	.0369917	.0721601	.0753443
#3	.0178285	.0284308	.0094477	.0187306	.0400570	.0593501	.0764384

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047227	.0041386	1.571865	.0058204	.0218572	.0156034	.0743956
Stddev	.0000274	.0000502	.011637	.0002171	.0001541	.0002667	.0052752
%RSD	.5802246	1.213571	.7403426	3.729578	.7051209	1.709423	7.090793
#1	.0047295	.0041868	1.584996	.0057848	.0220331	.0153156	.0699910
#2	.0046925	.0041427	1.562827	.0056233	.0217455	.0158422	.0729540
#3	.0047460	.0040865	1.567772	.0060531	.0217932	.0156525	.0802418

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151071	1.637318	.0295954	.0085330	1.541206	.0305528	.0310038
Stddev	.0005353	.020800	.0002997	.0004719	.016166	.0042259	.0001771
%RSD	3.543055	1.270365	1.012727	5.530647	1.048896	13.83148	.5712211
#1	.0152979	1.642975	.0293494	.0086982	1.523362	.0290126	.0312032
#2	.0145026	1.654704	.0295076	.0080007	1.545384	.0353328	.0308648
#3	.0155208	1.614275	.0299292	.0089002	1.554873	.0273130	.0309434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.721977	.0775103	.1578597	.0277223	.0325504	.2724401	.0134421
Stddev	.008066	.0017062	.0003697	.0002157	.0005989	.0052761	.0021194
%RSD	.4684187	2.201249	.2341629	.7779127	1.839829	1.936591	15.76667
#1	1.712687	.0790880	.1578654	.0276901	.0318665	.2663701	.0150858
#2	1.726042	.0777432	.1574871	.0279522	.0329812	.2759259	.0141903
#3	1.727203	.0756996	.1582264	.0275245	.0328035	.2750242	.0110501

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-09 Acquired: 8/1/2025 14:55:34 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0121014	.0113157	.0156808
Stddev	.0016685	.0002547	.0001073
%RSD	13.78787	2.250463	.6844696
#1	.0136065	.0116094	.0158036
#2	.0103072	.0111819	.0156335
#3	.0123904	.0111559	.0156052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5448.683	89932.17	7504.162	4570.510	6915.191
Stddev	16.271	365.18	80.829	20.591	18.893
%RSD	.2986138	.4060620	1.077122	.4505083	.2732037
#1	5467.276	89735.97	7410.838	4573.297	6935.606
#2	5441.727	90353.51	7551.974	4589.564	6911.642
#3	5437.047	89707.03	7549.674	4548.667	6898.324

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-10 Acquired: 8/1/2025 14:59:50 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0048890	.0048824	.0027249	.0051160	.0078899	.0198205	.0170662
Stddev	.0009617	.0023882	.0007541	.0036045	.0006078	.0025544	.0003949
%RSD	19.67101	48.91520	27.67296	70.45651	7.703546	12.88777	2.313970
#1	.0049571	.0025934	.0027817	.0083072	.0080326	.0172409	.0169621
#2	.0058149	.0073588	.0019440	.0012063	.0084137	.0223489	.0175028
#3	.0038951	.0046949	.0034489	.0058344	.0072235	.0198718	.0167339

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011866	.0010284	.4043814	.0000102	.0052942	.0037210	.0174216
Stddev	.0000799	.0000353	.0031097	.0000297	.0001364	.0001082	.0033032
%RSD	6.730502	3.434205	.7690127	291.0082	2.575543	2.907764	18.96060
#1	.0012594	.0010102	.4012104	.0000289	.0051814	.0037498	.0175039
#2	.0011991	.0010059	.4045079	-.000024	.0052554	.0038119	.0206829
#3	.0011012	.0010691	.4074261	.000026	.0054458	.0036013	.0140780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027826	.4209765	.0074929	.0025350	.3021882	.0084736	.0066725
Stddev	.0002630	.0294279	.0001695	.0002387	.0193557	.0046872	.0001580
%RSD	9.449696	6.990380	2.262458	9.414712	6.405176	55.31541	2.367961
#1	.0026360	.3936323	.0074537	.0027165	.2910474	.0086287	.0065992
#2	.0030862	.4171780	.0073465	.0022647	.2909791	.0037107	.0068539
#3	.0026256	.4521192	.0076786	.0026238	.3245382	.0130813	.0065645

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4698111	.0178658	.0380682	.0066386	.0086680	.0632671	.0048445
Stddev	.0126315	.0006510	.0003207	.0005346	.0004681	.0057093	.0012487
%RSD	2.688625	3.643673	.8425289	8.052620	5.400342	9.024158	25.77602
#1	.4696855	.0182228	.0377611	.0068431	.0088217	.0625557	.0044842
#2	.4572430	.0171144	.0380425	.0060319	.0090399	.0579467	.0038156
#3	.4825049	.0182601	.0384010	.0070406	.0081424	.0692987	.0062338

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-10 Acquired: 8/1/2025 14:59:50 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0008118	-.001734	.0041458
Stddev	.0039355	.002746	.0000919
%RSD	484.7871	158.3181	2.217918
#1	-.001084	-.002896	.0042054
#2	.005336	-.003708	.0040399
#3	-.001817	.001401	.0041920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5656.021	95119.42	7717.289	4850.151	7246.925
Stddev	77.766	170.91	29.958	30.720	87.592
%RSD	1.374921	.1796786	.3881900	.6333751	1.208675
#1	5691.590	95310.33	7751.881	4882.263	7290.600
#2	5709.642	95067.25	7700.081	4821.044	7304.093
#3	5566.832	94980.68	7699.906	4847.146	7146.084

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-12 Acquired: 8/1/2025 15:04:09 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0137497	.0280612	.0090725	.0134049	.0382244	.0712081	.0759387
Stddev	.0013407	.0007421	.0007993	.0000850	.0002662	.0118014	.0002279
%RSD	9.750604	2.644487	8.810001	.6340099	.6964010	16.57313	.3001439
#1	.0150273	.0275498	.0096204	.0134692	.0385276	.0575810	.0761111
#2	.0138680	.0289123	.0094417	.0134370	.0380290	.0780253	.0756803
#3	.0123538	.0277214	.0081553	.0133085	.0381166	.0780179	.0760249

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046668	.0041164	1.568102	.0058899	.0216940	.0152537	.0692734
Stddev	.0000435	.0000365	.012112	.0000612	.0000445	.0002707	.0011662
%RSD	.9324992	.8867628	.7723804	1.038852	.2050241	1.774703	1.683473
#1	.0046733	.0041492	1.558820	.0059527	.0217303	.0155065	.0693145
#2	.0047068	.0041229	1.581802	.0058304	.0216444	.0152865	.0680873
#3	.0046204	.0040771	1.563683	.0058867	.0217073	.0149681	.0704186

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150963	1.648975	.0292273	.0078804	1.400065	.0315441	.0294451
Stddev	.0002840	.011240	.0002454	.0003994	.007561	.0015257	.0004824
%RSD	1.881499	.6816593	.8396917	5.067727	.5400325	4.836738	1.638268
#1	.0154236	1.661178	.0290471	.0074366	1.391717	.0297956	.0288907
#2	.0149154	1.646705	.0295068	.0079939	1.406451	.0326054	.0296764
#3	.0149497	1.639043	.0291279	.0082107	1.402028	.0322312	.0297683

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.568222	.0760798	.1554199	.0273632	.0310109	.2656940	.0142288
Stddev	.040267	.0005686	.0002478	.0007989	.0001769	.0067079	.0016794
%RSD	2.567657	.7473772	.1594380	2.919426	.5705526	2.524664	11.80287
#1	1.521856	.0755057	.1551469	.0264468	.0310385	.2595493	.0161677
#2	1.588400	.0760908	.1556306	.0277306	.0308218	.2728502	.0132894
#3	1.594410	.0766428	.1554821	.0279123	.0311724	.2646825	.0132294

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q1168-12 Acquired: 8/1/2025 15:04:09 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0131430	.0105673	.0155337
Stddev	.0033566	.0058736	.0000792
%RSD	25.53927	55.58309	.5099247
#1	.0145322	.0038102	.0155250
#2	.0155819	.0134403	.0156170
#3	.0093148	.0144514	.0154593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5561.171	93484.38	7519.500	4767.463	7033.636
Stddev	11.192	583.62	34.326	47.705	27.298
%RSD	.2012551	.6242956	.4564921	1.000633	.3881063
#1	5548.267	93992.29	7491.130	4816.926	7002.219
#2	5568.238	93613.99	7557.656	4763.726	7051.555
#3	5567.007	92846.85	7509.712	4721.737	7047.134

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-01 Acquired: 8/1/2025 15:08:25 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0033255	.0056944	.0030923	.0024049	.0061671	.0174229	.0187362
Stddev	.0015298	.0017044	.0007824	.0006635	.0012941	.0103918	.0003112
%RSD	46.00345	29.93161	25.30084	27.59113	20.98380	59.64469	1.660994
#1	.0037457	.0069801	.0033209	.0021793	.0047779	.0054297	.0190815
#2	.0016295	.0037611	.0022211	.0031518	.0073385	.0230848	.0184773
#3	.0046013	.0063419	.0037349	.0018835	.0063849	.0237543	.0186498

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012477	.0010446	.4011612	-.000157	.0051787	.0035577	.0140650
Stddev	.0000461	.0000408	.0066590	.000053	.0001188	.0004440	.0025755
%RSD	3.699218	3.910736	1.659920	33.41388	2.293964	12.47924	18.31179
#1	.0012366	.0009974	.3939602	-.000187	.0051102	.0030620	.0112572
#2	.0012081	.0010674	.4070964	-.000097	.0051100	.0039189	.0163179
#3	.0012984	.0010689	.4024270	-.000188	.0053159	.0036921	.0146198

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026794	.4190757	.0073893	.0021395	.2734582	.0117380	.0066473
Stddev	.0006080	.0166006	.0001676	.0002053	.0101931	.0011987	.0001093
%RSD	22.69045	3.961238	2.268495	9.596999	3.727494	10.21254	1.643647
#1	.0032105	.4382441	.0072166	.0019804	.2670651	.0130717	.0065237
#2	.0028115	.4095836	.0074000	.0020669	.2852132	.0107503	.0066871
#3	.0020162	.4093993	.0075513	.0023713	.2680964	.0113921	.0067310

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4437320	.0172662	.0382347	.0062363	.0079276	.0619465	.0047522
Stddev	.0198234	.0011267	.0000760	.0002644	.0004552	.0060482	.0011679
%RSD	4.467414	6.525740	.1988707	4.239321	5.741871	9.763639	24.57553
#1	.4548741	.0175103	.0382725	.0062487	.0080505	.0562309	.0037966
#2	.4554773	.0160374	.0381472	.0064942	.0074236	.0613285	.0044060
#3	.4208446	.0182509	.0382845	.0059659	.0083087	.0682799	.0060541

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-01 Acquired: 8/1/2025 15:08:25 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.000669	-.005708	.0041239
Stddev	.002924	.001438	.0000527
%RSD	436.8302	25.18783	1.277878
#1	.002450	-.005912	.0041464
#2	-.001111	-.004179	.0040637
#3	-.003347	-.007032	.0041617

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5659.740	95599.85	7621.801	4872.530	7210.344
Stddev	6.912	183.17	6.153	6.411	15.157
%RSD	.1221233	.1916052	.0807295	.1315657	.2102093
#1	5666.541	95792.42	7624.071	4867.251	7227.716
#2	5652.723	95579.31	7626.497	4870.675	7199.813
#3	5659.957	95427.80	7614.836	4879.663	7203.503

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-03 Acquired: 8/1/2025 15:12:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0141524	.0349701	.0095517	.0152070	.0357977	.0778519	.0768991
Stddev	.0012647	.0017813	.0008698	.0029820	.0009248	.0122433	.0008499
%RSD	8.936474	5.093641	9.106687	19.60942	2.583335	15.72642	1.105185
#1	.0132945	.0344338	.0105516	.0131118	.0365223	.0917603	.0775003
#2	.0156049	.0369578	.0091336	.0138882	.0361146	.0687031	.0772702
#3	.0135579	.0335185	.0089698	.0186211	.0347561	.0730924	.0759268

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047557	.0040649	1.584355	.0057088	.0217604	.0153382	.0759987
Stddev	.0000788	.0000581	.013679	.0000657	.0001087	.0003547	.0037566
%RSD	1.656668	1.430185	.8633608	1.151166	.4994535	2.312389	4.942983
#1	.0047432	.0041307	1.587084	.0057648	.0217257	.0156000	.0796566
#2	.0048400	.0040206	1.569517	.0057251	.0216733	.0149346	.0761889
#3	.0046840	.0040433	1.596462	.0056364	.0218822	.0154801	.0721506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149131	1.649117	.0292286	.0080306	1.400569	.0307880	.0296394
Stddev	.0007490	.021949	.0004376	.0003481	.020834	.0035704	.0000639
%RSD	5.022470	1.330932	1.497311	4.334207	1.487563	11.59677	.2156419
#1	.0156635	1.673197	.0288291	.0079822	1.415940	.0347782	.0295718
#2	.0141655	1.643921	.0296964	.0084002	1.408911	.0296910	.0296474
#3	.0149101	1.630233	.0291604	.0077092	1.376856	.0278948	.0296989

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.583847	.0770243	.1566401	.0277663	.0317530	.2632310	.0136807
Stddev	.043973	.0007244	.0001809	.0007707	.0008142	.0046780	.0016109
%RSD	2.776364	.9405367	.1154682	2.775788	2.564256	1.777144	11.77468
#1	1.541925	.0778456	.1568112	.0273016	.0323330	.2618139	.0118665
#2	1.579998	.0767511	.1564508	.0273414	.0308221	.2594254	.0142320
#3	1.629619	.0764761	.1566582	.0286560	.0321038	.2684537	.0149435

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-03 Acquired: 8/1/2025 15:12:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0120509	.0078299	.0155284
Stddev	.0024108	.0016035	.0001005
%RSD	20.00550	20.47954	.6470356
#1	.0143209	.0094942	.0155587
#2	.0095204	.0077003	.0156102
#3	.0123112	.0062950	.0154162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5515.198	92104.01	7339.710	4722.542	6952.313
Stddev	14.777	877.15	32.458	37.457	24.226
%RSD	.2679376	.9523482	.4422187	.7931529	.3484581
#1	5528.530	91278.52	7304.878	4679.503	6968.310
#2	5517.756	92008.50	7345.145	4740.360	6964.188
#3	5499.309	93025.01	7369.107	4747.765	6924.441

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-07 Acquired: 8/1/2025 15:17:00 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0030306	.0072378	.0034271	.0027247	.0070034	.0176422	.0194430
Stddev	.0032744	.0005097	.0006217	.0039876	.0024257	.0098288	.0003423
%RSD	108.0433	7.041931	18.13990	146.3518	34.63549	55.71174	1.760678
#1	.0064814	.0072882	.0041441	.0064293	.0042303	.0084787	.0197992
#2	.0026433	.0077205	.0030989	.0032405	.0087310	.0280229	.0191165
#3	-.000033	.0067049	.0030383	-.001496	.0080488	.0164251	.0194133

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012018	.0010295	.4067526	.0000397	.0053152	.0037832	.0134333
Stddev	.0000620	.0000312	.0061786	.0001035	.0000493	.0004274	.0029804
%RSD	5.156701	3.029668	1.519009	260.8537	.9271695	11.29822	22.18663
#1	.0011753	.0009965	.4026355	.0000190	.0052695	.0033586	.0130508
#2	.0011575	.0010585	.4037652	.0001519	.0053675	.0037776	.0106626
#3	.0012726	.0010336	.4138572	-.000052	.0053088	.0042134	.0165864

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028781	.4301273	.0073930	.0022974	.2554535	.0112424	.0066881
Stddev	.0003658	.0177133	.0002468	.0002573	.0107776	.0017067	.0000495
%RSD	12.70799	4.118152	3.338497	11.19891	4.219002	15.18128	.7400767
#1	.0024689	.4096771	.0073108	.0022644	.2438592	.0101964	.0066347
#2	.0031732	.4400309	.0076705	.0020582	.2651667	.0103188	.0066971
#3	.0029924	.4406738	.0071979	.0025696	.2573346	.0132119	.0067325

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4627485	.0180198	.0384093	.0064678	.0092614	.0628179	.0043666
Stddev	.0264769	.0005414	.0001471	.0002420	.0001726	.0114193	.0014439
%RSD	5.721666	3.004647	.3828387	3.741134	1.863221	18.17835	33.06752
#1	.4600107	.0179144	.0385214	.0063061	.0094259	.0758602	.0036088
#2	.4904879	.0175388	.0384636	.0067460	.0090818	.0546163	.0060316
#3	.4377468	.0186061	.0382428	.0063514	.0092764	.0579773	.0034593

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-07 Acquired: 8/1/2025 15:17:00 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.000764**	**-.008160**	**.0040848**
Stddev	.003514	.000712	.0000586
%RSD	459.9696	8.726463	1.434542
#1	.003053	-.008925	.0040474
#2	-.001482	-.008038	.0040546
#3	-.003863	-.007517	.0041523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5619.983**	**93878.21**	**7484.916**	**4829.067**	**7153.113**
Stddev	18.159	98.94	61.391	20.817	22.572
%RSD	.3231093	.1053871	.8201918	.4310781	.3155571
#1	5640.941	93934.93	7503.207	4822.787	7179.017
#2	5610.061	93763.97	7535.082	4852.301	7142.659
#3	5608.947	93935.74	7416.458	4812.113	7137.663

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-09 Acquired: 8/1/2025 15:21:18 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0148521	.0328206	.0092013	.0128133	.0378402	.0702524	.0761900
Stddev	.0018002	.0016250	.0012247	.0020088	.0005490	.0112177	.0011240
%RSD	12.12091	4.951261	13.30994	15.67716	1.450915	15.96774	1.475227
#1	.0132331	.0344926	.0102491	.0146998	.0374588	.0815276	.0762689
#2	.0145326	.0312470	.0094999	.0107013	.0375923	.0590930	.0772725
#3	.0167907	.0327221	.0078549	.0130387	.0384695	.0701368	.0750287

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047419	.0040918	1.589890	.0058434	.0215622	.0152858	.0651444
Stddev	.0000377	.0000803	.004358	.0000313	.0001804	.0004946	.0030317
%RSD	.7956053	1.962375	.2740996	.5355773	.8364450	3.235879	4.653808
#1	.0047364	.0040651	1.594467	.0058564	.0214486	.0157031	.0673600
#2	.0047073	.0040282	1.585791	.0058077	.0217701	.0154147	.0616894
#3	.0047821	.0041820	1.589410	.0058661	.0214679	.0147394	.0663839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150725	1.625035	.0295975	.0078116	1.370535	.0310830	.0298536
Stddev	.0001897	.029886	.0001918	.0003322	.012697	.0034550	.0003023
%RSD	1.258640	1.839085	.6480797	4.253023	.9264516	11.11540	1.012523
#1	.0149223	1.631940	.0293987	.0074547	1.374254	.0349055	.0297148
#2	.0150094	1.650865	.0297814	.0078681	1.356393	.0281826	.0296457
#3	.0152857	1.592302	.0296125	.0081119	1.380957	.0301608	.0302004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.586515	.0760365	.1562393	.0278073	.0320778	.2505221	.0143277
Stddev	.011717	.0006687	.0004850	.0003550	.0008157	.0042171	.0018961
%RSD	.7385365	.8794390	.3104412	1.276763	2.543021	1.683321	13.23371
#1	1.598137	.0764908	.1564930	.0281020	.0328265	.2512944	.0138586
#2	1.574705	.0763500	.1565448	.0279068	.0312084	.2459722	.0164143
#3	1.586703	.0752686	.1556800	.0274132	.0321985	.2542996	.0127102

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-09 Acquired: 8/1/2025 15:21:18 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0130659	.0064636	.0154244
Stddev	.0014062	.0033862	.0001266
%RSD	10.76204	52.38837	.8205998
#1	.0146428	.0102437	.0155692
#2	.0119422	.0054391	.0153350
#3	.0126128	.0037079	.0153689

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5563.771	93218.99	7489.853	4737.964	7022.700
Stddev	24.732	227.67	34.545	8.596	24.499
%RSD	.4445269	.2442300	.4612247	.1814363	.3488569
#1	5538.812	93376.63	7503.256	4728.313	6996.775
#2	5564.231	92957.97	7450.615	4744.800	7025.856
#3	5588.270	93322.36	7515.688	4740.780	7045.468

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV04 Acquired: 8/1/2025 15:32:14 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.828317**	**5.357218**	**4.640539**	**4.903994**	**4.892635**	**9.422142**	**9.595267**
Stddev	.009040	.029546	.015138	.003950	.010897	.057439	.146362
%RSD	.1872341	.5515117	.3262063	.0805478	.2227244	.6096210	1.525359
#1	4.836129	5.390842	4.643755	4.899831	4.887115	9.463652	9.762975
#2	4.818415	5.335404	4.624052	4.904460	4.885603	9.446185	9.493318
#3	4.830407	5.345408	4.653810	4.907690	4.905188	9.356587	9.529509

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2382756**	**2.323012**	**24.09810**	**.9339614**	**2.337996**	**1.189520**	**4.809043**
Stddev	.0013979	.007065	.17048	.0019529	.006784	.003811	.053278
%RSD	.5866828	.3041316	.7074457	.2090961	.2901425	.3203703	1.107863
#1	.2398897	2.324872	24.18100	.9361857	2.339225	1.189924	4.758098
#2	.2374784	2.315203	24.21128	.9325280	2.330682	1.185523	4.864382
#3	.2374586	2.328961	23.90202	.9331706	2.344081	1.193113	4.804651

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.388953**	**23.29295**	**2.352639**	**1.190850**	**22.92406**	**2.379536**	**2.396613**
Stddev	.016610	.17214	.006343	.004412	.23584	.011710	.006938
%RSD	.6952811	.7390082	.2695955	.3704998	1.028788	.4921252	.2895064
#1	2.395542	23.42072	2.355209	1.186161	22.67669	2.387580	2.389174
#2	2.401258	23.36092	2.345415	1.194919	23.14636	2.384925	2.397756
#3	2.370060	23.09720	2.357293	1.191471	22.94913	2.366101	2.402909

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.85377**	**4.774927**	**4.874611**	**4.723676**	**4.836922**	**4.651882**	**4.509810**
Stddev	.22576	.034972	.007020	.018365	.026219	.035714	.012012
%RSD	.9464493	.7324162	.1440177	.3887819	.5420630	.7677249	.2663572
#1	23.59914	4.812754	4.873875	4.730088	4.846287	4.621493	4.520766
#2	24.02947	4.768256	4.867988	4.702965	4.857173	4.691219	4.496965
#3	23.93269	4.743770	4.881971	4.737975	4.807307	4.642933	4.511698

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV04 Acquired: 8/1/2025 15:32:14 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.763487**	**4.593169**	**4.902841**
Stddev	.021014	.033411	.036193
%RSD	.4411505	.7274074	.7381998
#1	4.764198	4.600690	4.932959
#2	4.742126	4.622178	4.862690
#3	4.784137	4.556638	4.912874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5469.159**	**91071.44**	**7636.265**	**4644.591**	**6468.802**
Stddev	14.264	182.34	80.069	27.175	24.472
%RSD	.2607999	.2002198	1.048532	.5850814	.3783035
#1	5466.263	91169.42	7543.969	4670.100	6460.105
#2	5484.648	91183.85	7687.118	4647.662	6496.434
#3	5456.566	90861.06	7677.708	4616.012	6449.867

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB04 Acquired: 8/1/2025 15:36:24 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0016669	-.002352	.0005380	-.003263	-.001118	-.007851	-.001144
Stddev	.0015328	.001492	.0011378	.000815	.001032	.005275	.001261
%RSD	91.95320	63.41682	211.4662	24.98972	92.25921	67.18863	110.2477
#1	.0021308	-.001581	-.000020	-.002355	-.001193	-.002630	-.002088
#2	.0029141	-.001404	-.000213	-.003500	-.002111	-.013178	.000288
#3	-.000044	-.004072	.001847	-.003932	-.000052	-.007744	-.001630

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000015	.0001087	-.008639	-.001598	-.000151	-.000535	-.000331
Stddev	.000081	.0000479	.001401	.000299	.000076	.000357	.005387
%RSD	554.9283	44.08684	16.21384	18.71173	50.19812	66.68654	1627.383
#1	-.000023	.0001498	-.007434	-.001684	-.000215	-.000532	.002406
#2	.000070	.0000561	-.010176	-.001265	-.000067	-.000180	-.006538
#3	-.000091	.0001201	-.008307	-.001844	-.000172	-.000893	.003139

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001100	.0229165	-.000038	.0001239	-.053152	.0005467	-.001140
Stddev	.000300	.0038929	.000149	.0006708	.007237	.0044299	.000028
%RSD	27.31383	16.98716	386.4351	541.2854	13.61577	810.3424	2.469028
#1	-.001374	.0212782	-.000197	-.000122	-.055572	-.002006	-.001171
#2	-.001147	.0201106	-.000018	-.000389	-.045015	.005662	-.001135
#3	-.000778	.0273608	.000099	.000883	-.058869	-.002016	-.001115

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1579084	.0047681	.0011958	-.000120	.0006471	.0029483	.0044575
Stddev	.0062704	.0003485	.0001950	.000465	.0008363	.0071140	.0008819
%RSD	3.970929	7.309224	16.30373	386.5216	129.2370	241.2898	19.78477
#1	.1643179	.0044131	.0013312	.000370	-.000265	.0106312	.0052006
#2	.1576205	.0051097	.0012839	-.000554	.001378	-.003411	.0034829
#3	.1517869	.0047816	.0009723	-.000176	.000828	.001625	.0046891

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB04 Acquired: 8/1/2025 15:36:24 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.005287	-.009657	.0000919
Stddev	.002209	.002999	.0000489
%RSD	41.77908	31.05384	53.26918
#1	-.007836	-.011552	.0000429
#2	-.003956	-.006199	.0000919
#3	-.004068	-.011220	.0001408

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5679.303	95738.37	7927.738	4820.236	7313.237
Stddev	4.074	303.64	49.908	19.262	3.227
%RSD	.0717355	.3171581	.6295367	.3996068	.0441203
#1	5675.355	95914.96	7978.015	4838.568	7309.797
#2	5679.061	95912.40	7878.207	4821.978	7316.196
#3	5683.493	95387.76	7926.993	4800.162	7313.720

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-12 Acquired: 8/1/2025 15:40:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0166625	.0333015	.0075041	.0126129	.0376476	.0724729	.0766849
Stddev	.0012574	.0014604	.0011855	.0015187	.0020794	.0049234	.0009452
%RSD	7.546264	4.385462	15.79770	12.04082	5.523418	6.793422	1.232527
#1	.0181122	.0333515	.0063475	.0115855	.0353726	.0669290	.0771475
#2	.0158690	.0347363	.0074484	.0118958	.0381203	.0763350	.0755976
#3	.0160062	.0318167	.0087165	.0143574	.0394500	.0741548	.0773097

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046450	.0040239	1.581803	.0057728	.0215135	.0152307	.0677310
Stddev	.0000350	.0000881	.025102	.0001454	.0001798	.0002518	.0019630
%RSD	.7540597	2.190245	1.586931	2.518618	.8357724	1.653248	2.898260
#1	.0046832	.0039381	1.597267	.0058624	.0213158	.0153733	.0657760
#2	.0046374	.0041142	1.552840	.0056050	.0216672	.0149400	.0697019
#3	.0046144	.0040194	1.595303	.0058509	.0215575	.0153788	.0677151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151397	1.625412	.0291301	.0076111	1.419366	.0335831	.0297916
Stddev	.0005445	.039136	.0004291	.0002692	.039044	.0030372	.0000927
%RSD	3.596418	2.407755	1.472997	3.537436	2.750833	9.043824	.3109935
#1	.0155812	1.664067	.0286394	.0073023	1.450143	.0356800	.0298323
#2	.0153065	1.585813	.0293162	.0077347	1.432510	.0301001	.0298569
#3	.0145313	1.626355	.0294348	.0077964	1.375446	.0349691	.0296855

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.647305	.0804982	.1565329	.0274321	.0307184	.2708125	.0151725
Stddev	.032292	.0016863	.0000693	.0005664	.0004770	.0124527	.0015795
%RSD	1.960285	2.094796	.0442993	2.064594	1.552772	4.598271	10.41048
#1	1.666926	.0819939	.1564717	.0270320	.0312571	.2828070	.0155751
#2	1.664954	.0786707	.1565188	.0280802	.0305483	.2716833	.0134306
#3	1.610035	.0808299	.1566082	.0271843	.0303497	.2579473	.0165118

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-12 Acquired: 8/1/2025 15:40:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0125332	.0050055	.0156770
Stddev	.0029834	.0018510	.0002466
%RSD	23.80409	36.97911	1.573120
#1	.0154907	.0034807	.0159618
#2	.0095245	.0044709	.0155348
#3	.0125845	.0070649	.0155345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5608.697	94105.46	7753.477	4756.771	7115.161
Stddev	7.383	537.64	70.887	28.003	7.764
%RSD	.1316410	.5713189	.9142638	.5886875	.1091261
#1	5611.217	93749.79	7684.596	4753.151	7118.864
#2	5614.490	93842.62	7826.213	4730.754	7120.381
#3	5600.383	94723.95	7749.620	4786.407	7106.238

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-10 Acquired: 8/1/2025 15:45:01 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0044860	.0051277	.0038662	-.001651	.0074061	.0023202	.0173756
Stddev	.0029308	.0020757	.0008947	.003033	.0018418	.0021624	.0008710
%RSD	65.33242	40.48037	23.14065	183.6821	24.86854	93.19980	5.012689
#1	.0012266	.0035415	.0046952	.001403	.0080687	.0021815	.0166804
#2	.0053271	.0074769	.0029179	-.001694	.0053247	.0045485	.0170937
#3	.0069043	.0043647	.0039857	-.004663	.0088249	.0002305	.0183526

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011951	.0010734	.4069172	-.000085	.0053172	.0039309	.0172209
Stddev	.0001115	.0000763	.0088170	.000104	.0000508	.0002708	.0039009
%RSD	9.328972	7.113271	2.166788	121.4567	.9553899	6.889836	22.65194
#1	.0013145	.0010666	.3981091	-.000060	.0052748	.0038676	.0196231
#2	.0011770	.0010006	.4068994	-.000200	.0053033	.0036974	.0193197
#3	.0010937	.0011529	.4157431	.000003	.0053735	.0042279	.0127200

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032003	.4036685	.0074545	.0020796	.2698062	.0091892	.0071640
Stddev	.0002460	.0185248	.0003151	.0002379	.0140149	.0017211	.0001946
%RSD	7.685930	4.589112	4.226392	11.43894	5.194438	18.73007	2.715908
#1	.0029593	.3823338	.0071064	.0023429	.2855027	.0073803	.0072543
#2	.0034510	.4156749	.0075371	.0020158	.2653685	.0108066	.0072970
#3	.0031906	.4129967	.0077201	.0018801	.2585473	.0093806	.0069407

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4643811	.0207453	.0381763	.0066665	.0095480	.0706588	.0062028
Stddev	.0265335	.0018928	.0004920	.0002759	.0003499	.0120671	.0025434
%RSD	5.713741	9.123858	1.288648	4.139242	3.664702	17.07797	41.00320
#1	.4449244	.0208374	.0380007	.0067900	.0098084	.0730170	.0061012
#2	.4536130	.0188082	.0377963	.0068591	.0091503	.0575867	.0087954
#3	.4946059	.0225904	.0387320	.0063504	.0096854	.0813728	.0037118

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: Q2126-10 Acquired: 8/1/2025 15:45:01 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.000554**	**-.009905**	**.0041484**
Stddev	.000847	.001526	.0000838
%RSD	152.8380	15.40133	2.018923
#1	-.000312	-.009223	.0041881
#2	.000145	-.011653	.0040522
#3	-.001497	-.008839	.0042049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5736.784**	**96354.06**	**7825.862**	**4904.787**	**7311.539**
Stddev	36.843	340.60	39.020	7.758	40.135
%RSD	.6422301	.3534908	.4986042	.1581650	.5489261
#1	5771.319	96314.43	7842.843	4897.858	7347.413
#2	5741.031	96712.75	7853.515	4913.168	7319.012
#3	5698.001	96035.01	7781.229	4903.336	7268.193

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167019BS Acquired: 8/1/2025 15:53:40 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7680719	2.242166	.9233008	1.967968	.8257560	1.973112	.2033988
Stddev	.0010873	.023748	.0013282	.009750	.0034259	.007411	.0004562
%RSD	.1415686	1.059172	.1438489	.4954266	.4148754	.3756222	.2242689
#1	.7668438	2.248024	.9241013	1.968813	.8234759	1.980378	.2037308
#2	.7684599	2.262437	.9217676	1.957823	.8240966	1.965563	.2035869
#3	.7689120	2.216037	.9240333	1.977268	.8296956	1.973394	.2028786

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2059235	.1827743	1.051493	.3842748	.1931163	.3064775	2.965269
Stddev	.0007452	.0000806	.005753	.0041238	.0002443	.0006141	.039624
%RSD	.3618808	.0440992	.5471415	1.073134	.1265190	.2003605	1.336286
#1	.2056757	.1826956	1.047092	.3831695	.1929747	.3065341	2.936254
#2	.2067610	.1828567	1.058003	.3808163	.1929757	.3058370	2.949138
#3	.2053338	.1827707	1.049385	.3888386	.1933984	.3070612	3.010415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2055525	2.009503	.4857995	.0751759	2.706526	.2994472	.2064142
Stddev	.0004463	.028952	.0010376	.0012095	.046377	.0020780	.0034312
%RSD	.2171006	1.440778	.2135860	1.608941	1.713529	.6939565	1.662266
#1	.2059106	1.993333	.4846218	.0746819	2.705969	.3014989	.2041577
#2	.2056942	2.042928	.4861978	.0742915	2.660429	.2973438	.2047221
#3	.2050525	1.992247	.4865790	.0765542	2.753179	.2994988	.2103627

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.749226	.3043222	.4155192	.6819594	.2035984	.8363765	5.348239
Stddev	.139674	.0013511	.0005317	.0010005	.0007678	.0235506	.010318
%RSD	1.432671	.4439751	.1279638	.1467142	.3771293	2.815783	.1929271
#1	9.665910	.3036802	.4151898	.6808064	.2027201	.8325516	5.346568
#2	9.671290	.3058746	.4152353	.6824723	.2039330	.8149725	5.338858
#3	9.910478	.3034117	.4161326	.6825994	.2041422	.8616054	5.359291

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167019BS Acquired: 8/1/2025 15:53:40 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.005922	.1750153	.2005100
Stddev	.004811	.0004410	.0002087
%RSD	81.24284	.2519724	.1040658
#1	-.011022	.1750192	.2007507
#2	-.001465	.1754543	.2003972
#3	-.005278	.1745724	.2003819

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5636.005	94383.44	7701.651	4786.711	7025.345
Stddev	3.686	1353.08	16.124	74.346	5.910
%RSD	.0654080	1.433602	.2093517	1.553171	.0841257
#1	5631.750	95038.62	7685.648	4835.767	7027.097
#2	5638.028	95284.21	7701.411	4823.195	7018.756
#3	5638.236	92827.48	7717.893	4701.171	7030.180

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167019BL Acquired: 8/1/2025 16:03:07 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.000430**	**-.001746**	**.0002677**	**-.001027**	**-.002185**	**-.008017**
Stddev	.000338	.001356	.0003481	.001213	.001120	.014792
%RSD	78.60552	77.62412	130.0044	118.1066	51.27742	184.5037
#1	-.000478	-.002607	-.000134	.000373	-.003403	.008987
#2	-.000070	-.002448	.000487	-.001702	-.001952	-.017917
#3	-.000740	-.000184	.000449	-.001752	-.001199	-.015123

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000972**	**-.000024**	**-.000047**	**-.002982**	**-.001623**	**-.000403**
Stddev	.0007860	.000021	.000070	.001896	.000186	.000064
%RSD	808.4864	86.06164	150.9317	63.56781	11.44641	15.80218
#1	-.000695	-.000034	-.000034	-.004229	-.001409	-.000406
#2	.000110	-.000000	-.000122	-.003917	-.001715	-.000465
#3	.000877	-.000039	.000017	-.000801	-.001745	-.000338

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000370**	**-.005550**	**-.001359**	**.0154377**	**-.000118**	**.0007115**
Stddev	.000190	.004005	.000558	.0164516	.000343	.0002957
%RSD	51.50395	72.15975	41.05731	106.5677	290.3993	41.55392
#1	-.000503	-.009685	-.001964	.0325394	-.000152	.0006571
#2	-.000152	-.005278	-.001247	.0140494	-.000443	.0004468
#3	-.000455	-.001688	-.000865	-.000276	.000241	.0010306

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.063908**	**.0046202**	**-.001383**	**.1412169**	**-.000782**	**.0000865**
Stddev	.016413	.0008037	.000192	.0128909	.000170	.0001178
%RSD	25.68261	17.39435	13.85447	9.128465	21.73304	136.2412
#1	-.079496	.0037268	-.001601	.1318672	-.000978	-.000026
#2	-.065450	.0048496	-.001242	.1358610	-.000685	.000077
#3	-.046778	.0052842	-.001306	.1559223	-.000683	.000209

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167019BL Acquired: 8/1/2025 16:03:07 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.000606	.0010550	.0095256	.0016842	-.004034	F -.013666
Stddev	.000580	.0009798	.0046298	.0012577	.003430	.001139
%RSD	95.68126	92.87960	48.60392	74.67586	85.02634	8.331195
#1	-.001035	.0018115	.0127146	.0027748	-.003063	-.013951
#2	-.000837	.0014053	.0116470	.0003084	-.001194	-.012412
#3	.000054	-.000052	.0042152	.0019692	-.007845	-.014635

Elem	Sr4077
Units	ppm
Avg	-.000033
Stddev	.000045
%RSD	137.8996
#1	-.000081
#2	-.000026
#3	.000009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5621.764	95075.41	7662.579	4767.743	7201.801
Stddev	6.860	303.69	5.950	7.412	13.394
%RSD	.1220183	.3194213	.0776525	.1554702	.1859802
#1	5615.100	95316.04	7658.285	4761.820	7194.015
#2	5621.389	94734.18	7660.081	4765.353	7194.122
#3	5628.803	95176.00	7669.371	4776.055	7217.267

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB166198BL Acquired: 8/1/2025 16:07:26 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0001542	-.002031	.0002121	-.002623	-.001035	-.013629
Stddev	.0008190	.002488	.0010616	.002066	.000432	.012518
%RSD	531.1624	122.4985	500.4136	78.75438	41.70562	91.84448
#1	-.000715	-.001254	.0011290	-.004855	-.001344	-.021514
#2	.000912	-.004815	.0004583	-.002235	-.000542	-.020178
#3	.000265	-.000024	-.000951	-.000779	-.001220	.000804

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000327	.0000188	-.000009	.0028010	-.001859	-.000247
Stddev	.000302	.0000591	.000040	.0073248	.000242	.000080
%RSD	92.17115	314.6000	441.4165	261.5033	13.01841	32.39487
#1	.000020	-.000025	.000020	-.000271	-.001603	-.000338
#2	-.000480	-.000005	-.000054	.011162	-.002084	-.000185
#3	-.000522	.000086	.000007	-.002488	-.001891	-.000218

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000271	-.010027	-.001405	.0016410	-.000380	.0007079
Stddev	.000342	.002171	.000337	.0176635	.000199	.0003362
%RSD	126.5270	21.65371	23.96390	1076.392	52.54441	47.49214
#1	-.000068	-.011171	-.001375	.0027792	-.000351	.0007314
#2	-.000666	-.007523	-.001084	-.016564	-.000592	.0010317
#3	-.000078	-.011387	-.001755	.018708	-.000196	.0003606

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.143585	.0037294	-.001576	.1107354	-.001097	.0001907
Stddev	.018228	.0025410	.000047	.0455616	.000476	.0001789
%RSD	12.69503	68.13370	2.988882	41.14458	43.37306	93.81730
#1	-.161285	.0038743	-.001616	.0596672	-.000799	.0002727
#2	-.144601	.0011190	-.001587	.1253202	-.001645	-.000015
#3	-.124871	.0061948	-.001524	.1472189	-.000846	.000314

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB166198BL Acquired: 8/1/2025 16:07:26 Type: Unk
Method: 6010-200.7 NEW(v76) 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	-.001493	.0011816	-.003062	.0021954	-.004063	F -.013700
Stddev	.000601	.0009642	.002933	.0018020	.002871	.004825
%RSD	40.29303	81.60227	95.77467	82.07878	70.68263	35.21916
#1	-.001587	.0020049	-.006154	.0037998	-.003366	-.017801
#2	-.002041	.0001208	-.000319	.0002458	-.007218	-.008383
#3	-.000850	.0014191	-.002714	.0025408	-.001603	-.014917

Elem	Sr4077
Units	ppm
Avg	-.000033
Stddev	.000047
%RSD	143.3599
#1	.000021
#2	-.000064
#3	-.000055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5650.745	95815.05	7674.613	4827.339	7296.211
Stddev	31.591	49.02	58.941	4.528	48.910
%RSD	.5590608	.0511661	.7679972	.0938091	.6703521
#1	5616.326	95817.22	7606.829	4832.553	7249.214
#2	5678.419	95862.96	7703.214	4824.384	7346.833
#3	5657.490	95764.98	7713.796	4825.081	7292.585

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB166198BS Acquired: 8/1/2025 16:15:12 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7691459	2.144996	.9100600	1.973612	.8286444	1.958022
Stddev	.0003470	.040051	.0021056	.003053	.0019543	.009582
%RSD	.0451186	1.867173	.2313671	.1546743	.2358389	.4893885
#1	.7687547	2.135424	.9085655	1.971232	.8299753	1.948465
#2	.7692662	2.188965	.9091463	1.977053	.8264008	1.967630
#3	.7694167	2.110598	.9124680	1.972550	.8295572	1.957970

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2029339	.2048525	.1797318	1.044530	.3789104	.1899140
Stddev	.0008786	.0010185	.0001740	.012252	.0012930	.0005980
%RSD	.4329599	.4971975	.0967975	1.172930	.3412432	.3148661
#1	.2019744	.2052960	.1797861	1.032149	.3774211	.1893113
#2	.2031283	.2055741	.1795372	1.056648	.3797464	.1899236
#3	.2036991	.2036874	.1798722	1.044792	.3795636	.1905071

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3041019	2.942887	.2035157	1.958777	.4792906	.0751930
Stddev	.0009182	.012352	.0012957	.043076	.0008801	.0002669
%RSD	.3019370	.4197341	.6366546	2.199107	.1836224	.3548852
#1	.3038113	2.930145	.2039885	1.920072	.4794827	.0751964
#2	.3033641	2.943709	.2045086	2.005184	.4783303	.0749245
#3	.3051302	2.954809	.2020500	1.951076	.4800587	.0754582

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.666270	.3004012	.2046767	9.663650	.2995724	.4129053
Stddev	.017496	.0018943	.0008073	.065319	.0021828	.0011850
%RSD	.6561802	.6305819	.3944242	.6759217	.7286345	.2869921
#1	2.666035	.2996871	.2052070	9.594040	.3018443	.4123781
#2	2.648893	.3025487	.2050754	9.673308	.2993815	.4120754
#3	2.683881	.2989677	.2037476	9.723601	.2974913	.4142624

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB166198BS Acquired: 8/1/2025 16:15:12 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.6720950**	**.2050837**	**.8160956**	**5.237875**	F **-.005941**	**.1746131**
Stddev	.0013749	.0015983	.0029443	.013566	.002337	.0034124
%RSD	.2045663	.7793333	.3607778	.2589914	39.34628	1.954256
#1	.6736308	.2062658	.8172169	5.244174	-.005489	.1711119
#2	.6709790	.2057201	.8127555	5.222304	-.008471	.1779291
#3	.6716750	.2032653	.8183146	5.247145	-.003862	.1747983

Elem	Sr4077
Units	ppm
Avg	**.1998772**
Stddev	.0002302
%RSD	.1151772
#1	.2000121
#2	.2000081
#3	.1996114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5619.960**	**94994.44**	**7725.425**	**4813.607**	**7044.426**
Stddev	20.066	292.02	25.362	26.868	19.754
%RSD	.3570542	.3074125	.3282922	.5581649	.2804134
#1	5626.444	95301.78	7721.819	4792.050	7049.028
#2	5635.982	94720.63	7702.060	4805.062	7061.472
#3	5597.453	94960.90	7752.397	4843.708	7022.778

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167652BL Acquired: 8/1/2025 16:19:13 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.0020946	-.002568	.0013745	-.002723	-.000192	-.015639
Stddev	.0020138	.002176	.0012565	.001852	.000908	.002588
%RSD	96.13841	84.72041	91.41457	67.99555	473.6153	16.54641
#1	-.000045	-.000292	.0026767	-.002933	-.001201	-.018627
#2	.003953	-.002785	.0001692	-.000776	.000560	-.014186
#3	.002376	-.004628	.0012777	-.004462	.000066	-.014104

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001242	-.000026	-.000016	.0085389	-.001475	-.000267
Stddev	.000693	.000071	.000061	.0026382	.000200	.000085
%RSD	55.77736	266.4571	385.0356	30.89564	13.59058	31.78299
#1	-.001314	-.000071	-.000083	.0078648	-.001408	-.000191
#2	-.001896	.000055	.000002	.0114487	-.001316	-.000251
#3	-.000516	-.000064	.000034	.0063032	-.001700	-.000359

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000210	-.003916	-.001385	.0307804	.0002087	.0007437
Stddev	.000109	.004767	.000239	.0235958	.0001994	.0005162
%RSD	51.91552	121.7353	17.25404	76.65847	95.56844	69.40948
#1	-.000176	-.005794	-.001366	.0049881	.0001854	.0010288
#2	-.000121	-.007456	-.001633	.0512811	.0000219	.0010543
#3	-.000331	.001504	-.001156	.0360719	.0004187	.0001478

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.050497	.0019936	-.001177	.1401160	-.001703	.0002888
Stddev	.013636	.0015506	.000186	.0107812	.000350	.0000681
%RSD	27.00329	77.78010	15.77723	7.694480	20.56745	23.58797
#1	-.065375	.0036198	-.000968	.1373923	-.001647	.0003228
#2	-.038596	.0005316	-.001240	.1519979	-.001384	.0003331
#3	-.047519	.0018295	-.001323	.1309579	-.002078	.0002103

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167652BL Acquired: 8/1/2025 16:19:13 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001531**	**.0008826**	**.0065366**	**-.001450**	**-.003907**	F **-.011327**
Stddev	.000112	.0012683	.0144157	.001399	.001146	.001554
%RSD	7.328948	143.6975	220.5365	96.46106	29.34032	13.71740
#1	-.001648	.0020513	.0209994	-.000425	-.004312	-.012687
#2	-.001520	.0010627	-.007831	-.003044	-.002613	-.009633
#3	-.001424	-.000466	.006442	-.000882	-.004796	-.011660

Elem	Sr4077
Units	ppm
Avg	**-.000103**
Stddev	.000115
%RSD	111.9009
#1	-.000030
#2	-.000236
#3	-.000043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5632.905**	**94539.33**	**7756.483**	**4733.097**	**7251.030**
Stddev	3.514	182.55	67.383	27.770	9.882
%RSD	.0623848	.1930983	.8687343	.5867221	.1362905
#1	5633.370	94635.59	7721.541	4760.220	7243.922
#2	5636.163	94653.61	7834.160	4734.347	7262.315
#3	5629.181	94328.79	7713.748	4704.722	7246.853

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167652BS Acquired: 8/1/2025 16:23:32 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7715786	2.143097	.9159214	1.985117	.8149314	1.985813
Stddev	.0019106	.020344	.0028055	.007235	.0042348	.012828
%RSD	.2476199	.9492665	.3063026	.3644627	.5196565	.6459706
#1	.7697236	2.126694	.9178593	1.976774	.8146091	1.993373
#2	.7735403	2.136734	.9172006	1.988907	.8108669	1.971002
#3	.7714720	2.165861	.9127043	1.989669	.8193182	1.993065

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2044438	.2087791	.1811778	1.068891	.3814124	.1911788
Stddev	.0012378	.0028285	.0007391	.007281	.0030732	.0006278
%RSD	.6054327	1.354784	.4079561	.6811618	.8057505	.3283932
#1	.2037282	.2064441	.1819948	1.076265	.3849283	.1918919
#2	.2037302	.2079688	.1809831	1.061707	.3800713	.1909351
#3	.2058731	.2119243	.1805555	1.068702	.3792376	.1907093

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3064077	2.948838	.2052774	2.017029	.4831268	.0755489
Stddev	.0006540	.050554	.0022393	.015689	.0013993	.0004438
%RSD	.2134456	1.714358	1.090848	.7778088	.2896435	.5874665
#1	.3071532	2.994950	.2052361	1.999095	.4846800	.0750879
#2	.3061389	2.956780	.2030591	2.028215	.4827360	.0759733
#3	.3059308	2.894783	.2075371	2.023777	.4819644	.0755854

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.668360	.3034783	.2075805	9.709969	.3053615	.4057394
Stddev	.039157	.0036282	.0009985	.099462	.0033543	.0015817
%RSD	1.467453	1.195548	.4810432	1.024326	1.098483	.3898401
#1	2.699770	.3003583	.2086636	9.814956	.3024221	.4057375
#2	2.680821	.3074597	.2073815	9.697799	.3046469	.4041587
#3	2.624489	.3026168	.2066964	9.617153	.3090156	.4073221

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB167652BS Acquired: 8/1/2025 16:23:32 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.6616498**	**.2018467**	**.8179848**	**5.334340**	F **-.004315**	**.1758495**
Stddev	.0011541	.0023421	.0204082	.012330	.003634	.0024650
%RSD	.1744262	1.160315	2.494936	.2311445	84.21828	1.401769
#1	.6623536	.2017149	.8410859	5.320520	-.002531	.1747644
#2	.6622779	.1995733	.8024031	5.344216	-.008497	.1786709
#3	.6603179	.2042519	.8104655	5.338282	-.001918	.1741132

Elem	Sr4077
Units	ppm
Avg	**.2017067**
Stddev	.0009941
%RSD	.4928381
#1	.2013890
#2	.2009103
#3	.2028209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5662.602**	**95163.75**	**7700.583**	**4805.430**	**7093.341**
Stddev	3.502	672.18	66.880	30.088	11.624
%RSD	.0618440	.7063383	.8685057	.6261252	.1638791
#1	5661.053	94513.86	7756.738	4782.006	7080.627
#2	5666.612	95121.19	7718.417	4794.922	7095.968
#3	5660.142	95856.20	7626.594	4839.363	7103.426

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PBW Acquired: 8/1/2025 16:27:33 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.0001884**	**-.000379**	**-.000858**	**-.002130**	**-.000971**	**-.011517**	**-.001083**
Stddev	.0016756	.000528	.000903	.002927	.001263	.007625	.000567
%RSD	889.3831	139.1795	105.2817	137.4067	130.0597	66.20711	52.32061
#1	.0015757	-.000732	-.000366	-.005405	-.001991	-.004190	-.001575
#2	-.001673	.000228	-.001901	.000228	.000442	-.019409	-.000464
#3	.000663	-.000634	-.000308	-.001213	-.001365	-.010952	-.001210

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000007**	**-.000015**	**.0073819**	**-.001674**	**-.000236**	**-.000303**	**-.008686**
Stddev	.0000701	.000073	.0076437	.000162	.000091	.000154	.002622
%RSD	10768.47	501.4027	103.5470	9.685453	38.69067	50.71104	30.19139
#1	-.000080	-.000092	.0041039	-.001813	-.000251	-.000280	-.010347
#2	.000031	-.000005	.0019239	-.001715	-.000138	-.000467	-.010048
#3	.000050	.000053	.0161178	-.001496	-.000318	-.000163	-.005663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001536**	**.0165307**	**.0001049**	**.0005607**	**-.081434**	**-.001050**	**-.001424**
Stddev	.000468	.0081879	.0001815	.0000417	.001483	.002249	.000125
%RSD	30.47699	49.53137	173.1026	7.429889	1.821229	214.2466	8.779237
#1	-.001931	.0070771	.0001653	.0005201	-.082292	-.001372	-.001314
#2	-.001659	.0213757	-.000099	.0006034	-.082289	.001343	-.001560
#3	-.001019	.0211392	.000248	.0005587	-.079721	-.003121	-.001398

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0883018**	**-.001511**	**.0001773**	**-.001156**	**.0002475**	**.0049855**	**.0000562**
Stddev	.0130999	.000198	.0000584	.000304	.0020051	.0038450	.0015659
%RSD	14.83540	13.13109	32.95382	26.25663	810.2823	77.12381	2784.532
#1	.0772522	-.001496	.0001206	-.000844	-.001567	.0073072	-.001737
#2	.0848802	-.001716	.0001739	-.001451	-.000091	.0005472	.001155
#3	.1027730	-.001320	.0002372	-.001174	.002400	.0071021	.000751

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PBW Acquired: 8/1/2025 16:27:33 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.004582**	**-.008637**	**-.000032**
Stddev	.001429	.001883	.000053
%RSD	31.17545	21.80573	163.9262
#1	-.006186	-.007892	-.000085
#2	-.003445	-.007240	.000020
#3	-.004116	-.010779	-.000032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5635.228**	**95211.00**	**7662.100**	**4780.351**	**7223.509**
Stddev	8.319	137.22	71.021	33.655	15.573
%RSD	.1476260	.1441191	.9269181	.7040277	.2155846
#1	5639.103	95165.60	7743.769	4819.168	7231.722
#2	5640.902	95365.17	7627.722	4759.341	7233.256
#3	5625.678	95102.24	7614.810	4762.542	7205.548

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LCSW Acquired: 8/1/2025 16:31:54 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7642319	2.126333	.9191448	1.940880	.8129075	1.957855
Stddev	.0026367	.042165	.0052229	.008846	.0027040	.019326
%RSD	.3450186	1.982991	.5682362	.4557789	.3326311	.9870890
#1	.7629978	2.121922	.9147453	1.938281	.8136096	1.937705
#2	.7624385	2.086548	.9177721	1.933625	.8099217	1.959625
#3	.7672594	2.170531	.9249169	1.950735	.8151911	1.976235

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2042691	.2040299	.1815469	1.047035	.3821033	.1922662
Stddev	.0014200	.0007704	.0009353	.008795	.0012866	.0006870
%RSD	.6951504	.3775703	.5151724	.8399508	.3367033	.3573311
#1	.2052257	.2032061	.1809619	1.038414	.3810543	.1918706
#2	.2049442	.2041513	.1810532	1.055993	.3817166	.1918685
#3	.2026376	.2047324	.1826256	1.046698	.3835388	.1930595

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3040331	2.950100	.2055882	1.977452	.4836277	.0752984
Stddev	.0004455	.006791	.0011974	.011840	.0020388	.0001642
%RSD	.1465232	.2301885	.5824096	.5987508	.4215710	.2180480
#1	.3038878	2.949801	.2045261	1.980023	.4827238	.0752069
#2	.3036784	2.943463	.2053527	1.987795	.4821971	.0754879
#3	.3045331	2.957035	.2068858	1.964538	.4859622	.0752003

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.714058	.3040537	.2025286	9.716727	.2996379	.4103310
Stddev	.012667	.0040598	.0003177	.100559	.0021636	.0018449
%RSD	.4666998	1.335236	.1568785	1.034903	.7220772	.4496060
#1	2.726589	.3061495	.2027303	9.832608	.2976424	.4086748
#2	2.701261	.2993743	.2026932	9.652411	.3019374	.4099989
#3	2.714325	.3066374	.2021623	9.665160	.2993338	.4123194

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LCSW Acquired: 8/1/2025 16:31:54 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.6696819**	**.2037558**	**.8333923**	**5.363526**	F **-.003625**	**.1811146**
Stddev	.0029420	.0015173	.0102787	.020402	.001897	.0030008
%RSD	.4393174	.7446838	1.233361	.3803770	52.31765	1.656845
#1	.6679438	.2035532	.8446737	5.351295	-.005545	.1776819
#2	.6680231	.2023499	.8245579	5.352206	-.001753	.1824222
#3	.6730787	.2053642	.8309453	5.387078	-.003577	.1832398

Elem	Sr4077
Units	ppm
Avg	**.2021443**
Stddev	.0005950
%RSD	.2943477
#1	.2024843
#2	.2024914
#3	.2014573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5638.716**	**94634.26**	**7721.120**	**4779.048**	**7025.739**
Stddev	11.378	353.26	40.570	22.688	18.052
%RSD	.2017769	.3732848	.5254373	.4747357	.2569436
#1	5648.270	94391.16	7759.233	4752.864	7039.591
#2	5641.748	95039.47	7725.652	4791.423	7032.303
#3	5626.129	94472.13	7678.474	4792.859	7005.324

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV05 Acquired: 8/1/2025 16:35:54 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.873440**	**5.403536**	**4.670446**	**4.965349**	**4.949594**	**9.398847**	**9.788136**
Stddev	.039473	.136829	.031866	.027952	.035739	.013449	.138720
%RSD	.8099620	2.532214	.6822911	.5629506	.7220513	.1430947	1.417230
#1	4.849733	5.298803	4.650078	4.939756	4.930180	9.401480	9.921562
#2	4.851579	5.558350	4.654091	4.961115	4.927764	9.384276	9.644667
#3	4.919007	5.353455	4.707168	4.995177	4.990837	9.410785	9.798178

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2393128**	**2.333106**	**24.40977**	**.9243062**	**2.349673**	**1.198312**	**4.890896**
Stddev	.0017499	.015171	.03440	.0024453	.015262	.008308	.046237
%RSD	.7312162	.6502397	.1409301	.2645593	.6495188	.6933095	.9453748
#1	.2411453	2.324286	24.39999	.9270850	2.341533	1.192938	4.849801
#2	.2376593	2.324409	24.44799	.9233509	2.340206	1.194117	4.940961
#3	.2391338	2.350624	24.38131	.9224828	2.367279	1.207881	4.881926

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.412215**	**23.18681**	**2.369656**	**1.200501**	**23.11011**	**2.383185**	**2.426088**
Stddev	.002488	.08661	.015047	.000256	.13022	.004781	.005541
%RSD	.1031305	.3735517	.6349663	.0213431	.5634577	.2006134	.2283773
#1	2.411582	23.13766	2.360840	1.200792	23.00417	2.378867	2.432197
#2	2.414957	23.13594	2.361098	1.200310	23.25548	2.388323	2.424678
#3	2.410104	23.28682	2.387029	1.200400	23.07067	2.382366	2.421389

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.17599**	**4.785000**	**4.923719**	**4.747881**	**4.916989**	**4.648120**	**4.564784**
Stddev	.12865	.026440	.033194	.035020	.008282	.026163	.037116
%RSD	.5321395	.5525575	.6741727	.7375860	.1684464	.5628757	.8130946
#1	24.07225	4.803950	4.899691	4.718651	4.913436	4.624742	4.537355
#2	24.31994	4.754795	4.909870	4.738297	4.926456	4.643237	4.549979
#3	24.13577	4.796254	4.961595	4.786695	4.911077	4.676380	4.607017

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV05 Acquired: 8/1/2025 16:35:54 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.797298**	**4.603275**	**4.942142**
Stddev	.024878	.011013	.084643
%RSD	.5185819	.2392435	1.712672
#1	4.771430	4.590559	4.994744
#2	4.799412	4.609750	4.844502
#3	4.821051	4.609516	4.987178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5502.824**	**92942.25**	**7823.831**	**4667.734**	**6524.612**
Stddev	26.978	172.02	45.861	9.984	30.234
%RSD	.4902616	.1850801	.5861747	.2138837	.4633791
#1	5527.038	92763.43	7777.640	4656.582	6551.633
#2	5507.691	92956.78	7869.355	4670.782	6530.244
#3	5473.744	93106.54	7824.498	4675.838	6491.958

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB05 Acquired: 8/1/2025 16:40:05 Type: Unk
Method: 6010-200.7 NEW(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016653	-.001743	.0003150	.0001202	-.000904	-.008724
Stddev	.0008306	.000443	.0002745	.0009560	.001177	.009168
%RSD	49.87666	25.42644	87.16141	795.5366	130.2678	105.0892
#1	.0014295	-.001254	.0001460	-.000745	-.001445	-.018648
#2	.0025882	-.002117	.0006318	.001147	-.001713	-.000570
#3	.0009781	-.001859	.0001672	-.000042	.000447	-.006953

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003303	-.000009	.0000277	-.001345	-.001932	-.000352
Stddev	.0003527	.000070	.0000314	.007907	.000157	.000058
%RSD	106.7817	743.8511	113.1294	587.9755	8.132785	16.48672
#1	.0005738	-.000044	.0000431	.007585	-.001798	-.000285
#2	.0004913	-.000055	-.000008	-.004161	-.002105	-.000384
#3	-.000074	.000071	.000048	-.007458	-.001892	-.000386

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000671	-.010263	-.000811	.0258564	-.000154	.0004697
Stddev	.000146	.001723	.000209	.0150090	.000198	.0002203
%RSD	21.68986	16.79076	25.76682	58.04769	128.6948	46.90038
#1	-.000505	-.011431	-.000610	.0130181	-.000102	.0006851
#2	-.000775	-.008284	-.001027	.0423579	-.000372	.0002448
#3	-.000734	-.011073	-.000796	.0221931	.000013	.0004793

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.130661	.0029924	-.001396	.0618551	.0027764	.0009917
Stddev	.011338	.0015613	.000127	.0052017	.0000294	.0001273
%RSD	8.677047	52.17409	9.105798	8.409445	1.057853	12.83661
#1	-.143744	.0024909	-.001348	.0651140	.0027744	.0010394
#2	-.124524	.0017436	-.001540	.0558563	.0028068	.0010883
#3	-.123715	.0047429	-.001300	.0645952	.0027481	.0008474

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB05 Acquired: 8/1/2025 16:40:05 Type: Unk
Method: 6010-200.7 NEW(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000897**	**.0004487**	**.0103922**	**.0031517**	**-.005425**	F **-.011805**
Stddev	.000193	.0023623	.0067201	.0011162	.000464	.000472
%RSD	21.49426	526.5086	64.66484	35.41464	8.546762	3.999699
#1	-.000886	.0019080	.0042454	.0033271	-.004949	-.012310
#2	-.001095	.0017148	.0093640	.0041697	-.005450	-.011375
#3	-.000710	-.002277	.0175671	.0019582	-.005875	-.011730

Elem	Sr4077
Units	ppm
Avg	**.0001645**
Stddev	.0000851
%RSD	51.74868
#1	.0002257
#2	.0002006
#3	.0000673

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5697.165**	**96568.03**	**7829.477**	**4866.315**	**7326.924**
Stddev	12.043	382.65	13.128	14.987	15.008
%RSD	.2113832	.3962485	.1676794	.3079771	.2048374
#1	5706.582	96770.49	7827.843	4869.127	7339.960
#2	5701.317	96126.69	7817.241	4850.121	7330.295
#3	5683.595	96806.92	7843.345	4879.696	7310.517

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PBS Acquired: 8/1/2025 16:44:25 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001017**	**-.000593**	**-.000001**	**-.003349**	**-.000567**	**-.007695**	**-.001248**
Stddev	.001288	.000308	.000527	.002168	.001749	.008370	.001279
%RSD	126.6473	51.94359	83406.89	64.73235	308.5011	108.7764	102.5251
#1	-.002504	-.000925	-.000376	-.005785	-.001724	-.017109	-.000758
#2	-.000299	-.000535	-.000228	-.002628	-.001422	-.001092	-.000286
#3	-.000248	-.000317	.000602	-.001633	.001445	-.004884	-.002699

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000194**	**-.000022**	**-.002243**	**-.001634**	**-.000153**	**-.000479**	**-.007005**
Stddev	.0000755	.000013	.004281	.000230	.000094	.000239	.002748
%RSD	389.5184	57.43186	190.8416	14.05050	61.46390	49.92563	39.22749
#1	.0001063	-.000007	-.005931	-.001704	-.000071	-.000223	-.010178
#2	-.000029	-.000029	-.003249	-.001378	-.000131	-.000696	-.005419
#3	-.000019	-.000030	.002451	-.001821	-.000255	-.000518	-.005418

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001190**	**-.001857**	**-.000003**	**.0003932**	**-.077234**	**.0030905**	**-.001559**
Stddev	.000669	.020343	.000041	.0003910	.010004	.0030646	.000232
%RSD	56.21554	1095.217	1366.797	99.43414	12.95233	99.15994	14.86827
#1	-.001462	-.015768	.000040	.0007545	-.067007	.0057652	-.001774
#2	-.001680	.021490	-.000043	-.000022	-.086998	-.000253	-.001314
#3	-.000428	-.011295	-.000006	.000447	-.077697	.003760	-.001590

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1291437**	**.0011246**	**.0001884**	**-.000762**	**.0008413**	**.0044341**	**.0002828**
Stddev	.0221738	.0004732	.0003561	.000401	.0003266	.0070151	.0013319
%RSD	17.16990	42.08374	188.9716	52.61803	38.81977	158.2057	470.9589
#1	.1490456	.0014635	-.000174	-.001163	.0012184	.0011683	.0001059
#2	.1331430	.0005839	.000538	-.000762	.0006481	-.000353	-.000952
#3	.1052423	.0013263	.000200	-.000361	.0006575	.012487	.001694

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PBS Acquired: 8/1/2025 16:44:25 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.004107**	**-.008244**	**-.000081**
Stddev	.005463	.004961	.000076
%RSD	133.0176	60.17415	94.77844
#1	-.009484	-.013028	-.000054
#2	-.004273	-.003124	-.000167
#3	.001437	-.008580	-.000021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5674.878**	**95695.79**	**7770.170**	**4800.947**	**7304.397**
Stddev	16.533	445.27	23.025	26.699	11.914
%RSD	.2913422	.4652924	.2963240	.5561188	.1631080
#1	5683.320	95190.41	7760.672	4786.022	7310.933
#2	5685.485	95866.62	7753.413	4831.771	7311.613
#3	5655.828	96030.35	7796.424	4785.047	7290.645

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LCSS Acquired: 8/1/2025 16:48:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.7648312**	**2.177429**	**.9101446**	**1.948489**	**.8151643**	**1.960837**
Stddev	.0053893	.048538	.0041242	.008780	.0035499	.011284
%RSD	.7046390	2.229144	.4531352	.4506223	.4354872	.5754689
#1	.7610747	2.186850	.9086678	1.945345	.8144639	1.957892
#2	.7624129	2.220565	.9069621	1.941714	.8120168	1.951317
#3	.7710061	2.124871	.9148038	1.958409	.8190123	1.973301

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2047050**	**.2039880**	**.1798574**	**1.045620**	**.3751678**	**.1909432**
Stddev	.0007111	.0009377	.0006351	.011059	.0037539	.0006722
%RSD	.3473624	.4596819	.3531346	1.057697	1.000587	.3520281
#1	.2045158	.2043302	.1794436	1.037013	.3762677	.1904219
#2	.2041078	.2047065	.1795399	1.041753	.3782489	.1907059
#3	.2054916	.2029272	.1805887	1.058093	.3709868	.1917019

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3024799**	**2.883745**	**.2029563**	**1.952762**	**.4797671**	**.0744474**
Stddev	.0019045	.023868	.0020604	.034579	.0023199	.0001511
%RSD	.6296157	.8276564	1.015197	1.770772	.4835447	.2029852
#1	.3018260	2.867624	.2015294	1.966442	.4786468	.0743636
#2	.3009885	2.911164	.2020211	1.913436	.4782200	.0746219
#3	.3046251	2.872447	.2053185	1.978409	.4824345	.0743567

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.661359**	**.2992275**	**.2007084**	**9.577949**	**.3034381**	**.4093775**
Stddev	.025248	.0008722	.0029671	.032196	.0012378	.0014322
%RSD	.9486778	.2914711	1.478332	.3361479	.4079110	.3498542
#1	2.689678	.2983463	.2025015	9.596785	.3041240	.4089440
#2	2.653197	.2992459	.2023402	9.596290	.3041811	.4082121
#3	2.641202	.3000904	.1972835	9.540774	.3020093	.4109764

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: LCSS Acquired: 8/1/2025 16:48:43 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.6642270	.2020634	.8135149	5.305935	F -.006519	.1791784
Stddev	.0029463	.0004147	.0159045	.023491	.002494	.0011155
%RSD	.4435713	.2052539	1.955036	.4427238	38.24894	.6225712
#1	.6634888	.2018128	.7978241	5.291030	-.008748	.1804660
#2	.6617200	.2025422	.8130957	5.293762	-.003826	.1785057
#3	.6674722	.2018353	.8296248	5.333014	-.006983	.1785633

Elem	Sr4077
Units	ppm
Avg	.2009624
Stddev	.0004253
%RSD	.2116165
#1	.2006058
#2	.2008483
#3	.2014331

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5635.253	95220.20	7677.993	4804.974	7037.906
Stddev	25.204	599.14	23.088	35.608	28.435
%RSD	.4472517	.6292120	.3007086	.7410744	.4040289
#1	5650.245	94634.70	7654.617	4788.828	7054.442
#2	5649.358	95193.80	7700.782	4780.298	7054.204
#3	5606.154	95832.10	7678.580	4845.795	7005.072

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB168166BL Acquired: 8/1/2025 16:52:44 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.000168**	**-.001189**	**.0001551**	**-.001796**	**-.000804**	**-.007790**
Stddev	.001220	.001950	.0006281	.001018	.003074	.013792
%RSD	725.3579	163.9860	404.9698	56.66913	382.3763	177.0462
#1	.001017	-.002558	.0007401	-.002345	.002744	-.023703
#2	-.001420	-.002053	.0002338	-.002420	-.002653	.000712
#3	-.000102	.001044	-.000509	-.000621	-.002503	-.000379

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001861**	**-.000039**	**-.000034**	**-.001423**	**-.001642**	**-.000410**
Stddev	.001113	.000041	.000016	.000903	.000255	.000238
%RSD	59.80955	106.9909	48.42563	63.46391	15.53159	58.17786
#1	-.002747	-.000006	-.000043	-.000408	-.001547	-.000511
#2	-.002224	-.000024	-.000015	-.002138	-.001448	-.000581
#3	-.000612	-.000085	-.000043	-.001724	-.001931	-.000137

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000677**	**-.004889**	**-.001414**	**.0272792**	**.0000323**	**.0006514**
Stddev	.000298	.004815	.000331	.0365232	.0001308	.0003259
%RSD	44.00348	98.49046	23.42474	133.8868	404.8893	50.02503
#1	-.001018	-.005354	-.001784	.0038323	.0001100	.0008921
#2	-.000473	-.009455	-.001312	.0693609	-.000119	.0007816
#3	-.000539	.000142	-.001146	.0086442	.000106	.0002806

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.104564**	**.0009284**	**-.001511**	**.1045139**	**.0002801**	**.0001896**
Stddev	.012546	.0021212	.000107	.0153169	.0004026	.0002827
%RSD	11.99841	228.4772	7.070768	14.65537	143.7407	149.1006
#1	-.097840	.0016175	-.001461	.0946976	.0005792	.0002373
#2	-.119039	.0026194	-.001634	.0966809	-.000178	.0004454
#3	-.096813	-.001452	-.001439	.1221632	.000439	-.000114

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB168166BL Acquired: 8/1/2025 16:52:44 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**-.001264**	**-.000097**	**.0022898**	**.0018913**	**-.004123**	F **-.011734**
Stddev	.000324	.001760	.0052480	.0014729	.003435	.000325
%RSD	25.66671	1808.964	229.1921	77.88078	83.32553	2.771691
#1	-.001464	-.001938	.0082522	.0002100	-.007487	-.012031
#2	-.000890	.000078	-.001629	.0029547	-.004260	-.011785
#3	-.001439	.001569	.000246	.0025091	-.000621	-.011387

Elem	Sr4077
Units	ppm
Avg	**-.000048**
Stddev	.000056
%RSD	116.7966
#1	.000017
#2	-.000084
#3	-.000077

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5649.034**	**95792.07**	**7807.774**	**4778.265**	**7268.426**
Stddev	14.617	173.13	54.305	16.215	18.414
%RSD	.2587510	.1807344	.6955201	.3393452	.2533361
#1	5633.218	95606.86	7831.613	4768.199	7250.240
#2	5662.046	95819.52	7846.082	4796.970	7287.059
#3	5651.837	95949.84	7745.627	4769.626	7267.980

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB168166BS Acquired: 8/1/2025 16:57:03 Type: Unk
Method: 6010-200.7 NEW(v76) 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	.7536673	2.011399	.9037024	1.911438	.8024360	1.938433
Stddev	.0039403	.018185	.0047223	.013335	.0049172	.014063
%RSD	.5228104	.9041092	.5225470	.6976254	.6127792	.7255022
#1	.7534866	1.991961	.9006879	1.898190	.7988895	1.922262
#2	.7498204	2.027997	.9012746	1.911267	.8003692	1.945238
#3	.7576947	2.014241	.9091447	1.924857	.8080492	1.947801

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2002888	.1998779	.1782775	1.035629	.3780704	.1889721
Stddev	.0016135	.0016454	.0010261	.008401	.0012619	.0005815
%RSD	.8055771	.8232269	.5755824	.8111754	.3337742	.3077331
#1	.1996320	.1995066	.1775342	1.027499	.3791095	.1884949
#2	.1991073	.1984498	.1778502	1.035113	.3784354	.1888016
#3	.2021271	.2016772	.1794483	1.044276	.3766662	.1896199

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2995804	2.943585	.2015069	1.947831	.4758820	.0747623
Stddev	.0015401	.017073	.0011715	.026633	.0026917	.0004840
%RSD	.5140988	.5800165	.5813529	1.367304	.5656258	.6474110
#1	.2982487	2.950658	.2012704	1.917809	.4741264	.0752354
#2	.2992255	2.955986	.2004717	1.968613	.4745387	.0747834
#3	.3012670	2.924112	.2027786	1.957071	.4789810	.0742681

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.697961	.2980710	.1997891	9.609597	.2962177	.4029356
Stddev	.017715	.0040209	.0007495	.048296	.0023127	.0014908
%RSD	.6566209	1.348974	.3751484	.5025853	.7807377	.3699809
#1	2.701517	.2949336	.2003272	9.612445	.2968683	.4022363
#2	2.713629	.3026036	.1989330	9.656408	.2936494	.4019230
#3	2.678738	.2966756	.2001071	9.559941	.2981354	.4046475

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: PB168166BS Acquired: 8/1/2025 16:57:03 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**.6583778**	**.2012773**	**.8174673**	**5.279037**	F **-.004255**	**.1733485**
Stddev	.0046797	.0017489	.0109290	.017906	.001870	.0017023
%RSD	.7107951	.8688864	1.336932	.3391983	43.94798	.9819842
#1	.6537759	.2007426	.8193049	5.270228	-.002315	.1736704
#2	.6582260	.1998582	.8273611	5.267241	-.004405	.1748669
#3	.6631316	.2032311	.8057361	5.299641	-.006045	.1715083

Elem	Sr4077
Units	ppm
Avg	**.1980806**
Stddev	.0005611
%RSD	.2832876
#1	.1974337
#2	.1984359
#3	.1983722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5647.908**	**94465.41**	**7781.283**	**4804.310**	**7039.061**
Stddev	12.887	410.94	28.399	7.906	19.366
%RSD	.2281800	.4350160	.3649685	.1645591	.2751193
#1	5659.675	94255.92	7782.959	4813.413	7050.223
#2	5649.912	94201.43	7808.806	4800.356	7050.260
#3	5634.135	94938.88	7752.082	4799.161	7016.699

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV06 Acquired: 8/1/2025 17:01:04 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.803638**	**5.333432**	**4.567908**	**4.910592**	**5.029314**	**9.635834**	**9.924377**
Stddev	.022055	.088159	.007523	.038345	.027641	.082350	.158068
%RSD	.4591269	1.652959	.1647008	.7808538	.5496021	.8546189	1.592721
#1	4.791861	5.245365	4.574614	4.881915	5.007997	9.721732	10.07664
#2	4.789971	5.333248	4.569339	4.895715	5.019400	9.628206	9.93541
#3	4.829081	5.421683	4.559772	4.954146	5.060545	9.557564	9.76108

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2416681**	**2.275054**	**24.68854**	**.9259287**	**2.346334**	**1.195407**	**4.901379**
Stddev	.0031702	.002038	.22118	.0061772	.001927	.000444	.046768
%RSD	1.311779	.0895731	.8958926	.6671354	.0821183	.0371768	.9541810
#1	.2430408	2.276316	24.88616	.9330614	2.347908	1.195222	4.918696
#2	.2439206	2.276142	24.72984	.9223360	2.344185	1.195085	4.848422
#3	.2380429	2.272703	24.44962	.9223886	2.346911	1.195914	4.937019

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.448338**	**23.73803**	**2.352601**	**1.217018**	**23.59323**	**2.438904**	**2.438930**
Stddev	.020939	.24867	.002527	.000743	.27502	.012930	.007241
%RSD	.8552411	1.047544	.1074060	.0610655	1.165687	.5301430	.2968879
#1	2.470294	24.02331	2.355514	1.217817	23.70592	2.449395	2.437724
#2	2.446130	23.62364	2.351007	1.216890	23.27976	2.442859	2.446698
#3	2.428590	23.56714	2.351282	1.216347	23.79401	2.424459	2.432367

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.58325**	**4.914871**	**4.975423**	**4.775972**	**5.023140**	**4.730777**	**4.588916**
Stddev	.23584	.073676	.024075	.007626	.039723	.043886	.019596
%RSD	.9593366	1.499041	.4838774	.1596711	.7907931	.9276745	.4270310
#1	24.71392	4.951298	4.960116	4.782859	5.061739	4.765869	4.607630
#2	24.31100	4.963237	4.962981	4.777279	5.025299	4.681570	4.568543
#3	24.72482	4.830077	5.003173	4.767777	4.982382	4.744892	4.590573

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCV06 Acquired: 8/1/2025 17:01:04 Type: Unk
Method: 6010-200.7 NEW(v76) 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	**4.873374**	**4.557978**	**5.047017**
Stddev	.011949	.037580	.043757
%RSD	.2451867	.8244889	.8669868
#1	4.872489	4.600111	5.057700
#2	4.861893	4.545903	5.084443
#3	4.885741	4.527919	4.998907

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5579.049**	**92433.63**	**7804.842**	**4691.997**	**6617.367**
Stddev	14.967	385.35	110.503	12.131	9.698
%RSD	.2682671	.4168904	1.415826	.2585407	.1465556
#1	5583.951	91997.25	7733.520	4700.936	6615.783
#2	5590.951	92727.10	7748.873	4678.188	6627.760
#3	5562.246	92576.55	7932.131	4696.867	6608.559

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB06 Acquired: 8/1/2025 17:05:14 Type: Unk
Method: 6010-200.7 NEW(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000379**	**-.003750**	**.0005250**	**-.001012**	**-.001468**	**-.002560**
Stddev	.000619	.001809	.0009821	.000907	.001240	.006256
%RSD	163.1201	48.24704	187.0766	89.60595	84.48658	244.3179
#1	.000323	-.001663	.0010612	-.002013	-.000062	.001628
#2	-.000617	-.004717	-.000608	-.000778	-.002408	.000442
#3	-.000843	-.004870	.001122	-.000245	-.001932	-.009751

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001696**	**.0000338**	**.0000581**	**.0062019**	**-.001789**	**-.000154**
Stddev	.001136	.0000217	.0000576	.0036930	.000416	.000111
%RSD	66.96790	64.13720	99.22127	59.54616	23.24706	72.02200
#1	-.000392	.0000117	-.000004	.0049335	-.001396	-.000028
#2	-.002472	.0000346	.000110	.0033103	-.001746	-.000238
#3	-.002223	.0000550	.000068	.0103620	-.002225	-.000198

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000360**	**-.004941**	**-.001248**	**.0059564**	**.0000778**	**.0005477**
Stddev	.000158	.001689	.000379	.0052581	.0002750	.0005526
%RSD	43.76775	34.17351	30.38100	88.27540	353.6416	100.9079
#1	-.000519	-.003648	-.001652	.0100664	-.000179	.0006864
#2	-.000204	-.006851	-.001193	.0077716	.000044	.0010177
#3	-.000358	-.004324	-.000900	.0000313	.000368	-.000061

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.135547**	**.0016152**	**-.001209**	**.0906992**	**.0032796**	**.0009342**
Stddev	.007667	.0038592	.000064	.0379101	.0002873	.0001325
%RSD	5.656648	238.9247	5.324066	41.79765	8.760545	14.17969
#1	-.130490	-.002660	-.001283	.0800181	.0029564	.0010023
#2	-.131783	.004842	-.001167	.0592754	.0035061	.0007815
#3	-.144369	.002663	-.001176	.1328040	.0033763	.0010188

Reviewed By:jaswal
On:8/6/2025 1:49:43 AM
Inst Id :P4
LB :LB136688

Sample Name: CCB06 Acquired: 8/1/2025 17:05:14 Type: Unk
Method: 6010-200.7 NEW(v76) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000703	-.000365	.0036063	.0015225	-.004044	F -.010211
Stddev	.000443	.001073	.0054622	.0009945	.002157	.001935
%RSD	63.12300	294.0562	151.4645	65.32117	53.32467	18.94911
#1	-.000267	.000375	-.001439	.0007736	-.002090	-.012322
#2	-.001154	-.001596	.009407	.0011431	-.006358	-.009788
#3	-.000687	.000126	.002852	.0026510	-.003685	-.008522

Elem	Sr4077
Units	ppm
Avg	.0000090
Stddev	.0000400
%RSD	441.5393
#1	-.000007
#2	-.000020
#3	.000055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5793.842	98064.74	8055.103	4939.782	7497.645
Stddev	38.089	340.34	74.743	30.026	45.879
%RSD	.6574067	.3470551	.9279023	.6078363	.6119074
#1	5764.187	98307.07	8080.475	4924.819	7454.718
#2	5836.798	98211.52	7970.976	4974.349	7545.994
#3	5780.541	97675.65	8113.858	4920.177	7492.222

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169029

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 07/28/2025 **Time :** 10:30 **Temp :** 96 °C

End Digest Date: 07/28/2025 **Time :** 12:35 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: SLG.

Supervisor Signature: JPP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6007
LFS-2	1.00	M6015
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP86404
30% H2O2	3.00	M6170
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#5 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/28/25 13:35	SLG.metdig	JPP Metals
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169029

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB169029BL	PBS029	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB169029BS	LCS029	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6015	2
Q2700-01	EO-03-072525	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	3
Q2703-01	TP-4	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	4
Q2705-03	FG2A	N/A	2.23	100	Brown	Yellow	Medium	N/A	N/A	5
Q2705-03MS	FG2AMS	N/A	2.17	100	Brown	Yellow	Medium	N/A	M6007,M6015	7
Q2705-03MSD	FG2AMSD	N/A	2.28	100	Brown	Yellow	Medium	N/A	M6007,M6015	8
Q2705-03DUP	FG2ADUP	N/A	2.34	100	Brown	Yellow	Medium	N/A	N/A	6
Q2705-04	FG2B	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	9
Q2705-05	FG2C	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	10
Q2706-01	RT-5417	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	11
Q2706-03	ETGI-361	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB169029 **WorkList ID :** 190984 **Department :** Digestion **Date :** 07-28-2025 09:48:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2700-01	EO-03-072525	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG05	D31	07/25/2025	6010D
Q2703-01	TP-4	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	07/25/2025	6010D
Q2705-03	FG2A	Solid	Metals Group5	Cool 4 deg C	GENV01	D31	07/25/2025	6010D
Q2705-04	FG2B	Solid	Metals Group5	Cool 4 deg C	GENV01	D31	07/25/2025	6010D
Q2705-05	FG2C	Solid	Metals Group5	Cool 4 deg C	GENV01	D31	07/25/2025	6010D
Q2706-01	RT-5417	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D41	07/25/2025	6010D
Q2706-03	ETGI-361	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D41	07/25/2025	6010D

Date/Time 07/28/25 10:05
Raw Sample Received by: SKS met dig
Raw Sample Relinquished by: JDCSM)

Date/Time 07/28/25 11:10
Raw Sample Received by: JDCSM)
Raw Sample Relinquished by: SKS.met dig

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169062

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 07/31/2025 **Time :** 10:10 **Temp :** 96 °C

End Digest Date: 07/31/2025 **Time :** 12:12 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: SLS,

Supervisor Signature: SC

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6007
LFS-2	1.00	M6015
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP86404
30% H2O2	3.00	M6170
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#5 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/31/25 13:15	SLS met dig	SC metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169062

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB169062BL	PBS062	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB169062BS	LCS062	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6015	2
Q2705-02MS	FG1BMS	N/A	2.28	100	Brown	Yellow	Medium	N/A	M6007,M6015	5
Q2705-02MSD	FG1BMSD	N/A	2.27	100	Brown	Yellow	Medium	N/A	M6007,M6015	6
Q2705-02DUP	FG1BDUP	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	4
Q2705-02	FG1B	N/A	2.16	100	Brown	Yellow	Medium	N/A	N/A	3
Q2726-01	WBR-PBO	N/A	2.32	100	Brown	Yellow	Medium	N/A	N/A	7
Q2728-01	7211931-VNJ240	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	8

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB169062 **WorkList ID :** 191033 **Department :** Digestion **Date :** 07-31-2025 09:36:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2705-02	FG1B	Solid	Metals Group5	Cool 4 deg C	GENV01	D31	07/25/2025	6010D
Q2726-01	WBR-PBO	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	07/30/2025	6010D
Q2728-01	7211931-VNJ240	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	D31	07/30/2025	6010D

Date/Time 07/31/25 09:50
Raw Sample Received by: SLS metdig
Raw Sample Relinquished by: CP Cruz

Date/Time 07/31/25 10:50
Raw Sample Received by: CP Cruz
Raw Sample Relinquished by: SLS metdig

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/28/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:35
In Date: 07/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:14
Out Date: 07/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136620

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
Q2693-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2693-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2693-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2693-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2693-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q2693-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q2693-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q2693-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q2693-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q2693-14	PCB-GCP2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q2700-01	EO-03-072525	11	1.15	10.40	11.55	11.04	95.1	
Q2700-02	EO-03-072525-E2	12	1.15	10.44	11.59	10.99	94.3	
Q2701-01	PIPE-1	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-02	PIPE-2	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-03	PIPE-3	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-04	PIPE-4	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-05	PIPE-5	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-06	PIPE-6	18	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-07	PIPE-7	19	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-08	PIPE-8	20	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2703-01	TP-4	21	1.18	10.76	11.94	7.94	62.8	
Q2703-02	TP-4-EPH	22	1.14	10.51	11.65	8.13	66.5	
Q2703-03	TP-4-VOC	23	1.19	10.68	11.87	7.74	61.3	
Q2705-01	FG1A	24	1.17	10.38	11.55	10.65	91.3	
Q2705-02	FG1B	25	1.18	10.10	11.28	9.86	85.9	
Q2705-03	FG2A	26	1.12	10.14	11.26	11.00	97.4	
Q2705-04	FG2B	27	1.18	10.81	11.99	10.6	87.1	
Q2705-05	FG2C	28	1.13	10.39	11.52	10.00	85.4	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/28/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:35
In Date: 07/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:14
Out Date: 07/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136620

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
Q2706-01	RT-5417	29	1.15	10.60	11.75	10.92	92.2	
Q2706-03	ETGI-361	30	1.19	10.63	11.82	10.3	85.7	
Q2707-01	OILY-SPEEDY-DRY	31	1.14	10.64	11.78	10.84	91.2	
Q2707-02	OILY-DEBRIS	32	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2708-01	OILY-DEBRIS-DRUM	33	1.00	1.00	2.00	2.00	100.0	OILY SONE-DEBRIS

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB73620

WorkList Name : %1-072525 **WorkList ID :** 190946 **Department :** Wet-Chemistry **Date :** 07-25-2025 08:01:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2693-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-14	PCB-GCP2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2700-01	EO-03-072525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	07/25/2025	Chemtech -SO
Q2700-02	EO-03-072525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	07/25/2025	Chemtech -SO
Q2701-01	PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-02	PIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-03	PIPE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-04	PIPE-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-05	PIPE-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-06	PIPE-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-07	PIPE-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-08	PIPE-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2703-01	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO

Date/Time 07/25/25 15:00

Raw Sample Received by: [signature] (WDC)

Raw Sample Relinquished by: [signature]

Date/Time 07/25/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature] (WDC)

WORKLIST(Hardcopy Internal Chain)

VB 136620

WorkList Name : %1-072525 **WorkList ID :** 190946 **Department :** Wet-Chemistry **Date :** 07-25-2025 08:01:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2703-02	TP-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2703-03	TP-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2705-01	FG1A	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-02	FG1B	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-03	FG2A	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-04	FG2B	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-05	FG2C	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2706-01	RT-5417	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2706-03	ETGI-361	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2707-01	OILY-SPEEDY-DRY	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2707-02	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2708-01	OILY-DEBRIS-DRUM	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO

Date/Time 07/25/25 15:00
Raw Sample Received by: SB (WC)
Raw Sample Relinquished by: CA SM

Date/Time 07/25/25 17:30
Raw Sample Received by: CA SM
Raw Sample Relinquished by: SB (WC)

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136648

Review By	jaswal	Review On	7/30/2025 1:09:21 PM
Supervise By	MOHAN	Supervise On	8/1/2025 5:25:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459,MP86458
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/29/25 11:20		Jaswal	OK
2	S1	S1	CAL2	07/29/25 11:24		Jaswal	OK
3	S2	S2	CAL3	07/29/25 11:28		Jaswal	OK
4	S3	S3	CAL4	07/29/25 11:32		Jaswal	OK
5	S4	S4	CAL5	07/29/25 11:37		Jaswal	OK
6	S5	S5	CAL6	07/29/25 11:41		Jaswal	OK
7	ICV01	ICV01	ICV	07/29/25 12:20		Jaswal	OK
8	LLICV01	LLICV01	LLICV	07/29/25 13:01		Jaswal	OK
9	ICB01	ICB01	ICB	07/29/25 13:05		Jaswal	OK
10	CRI01	CRI01	CRDL	07/29/25 13:09		Jaswal	OK
11	ICSA01	ICSA01	ICSA	07/29/25 13:14		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	07/29/25 13:20		Jaswal	OK
13	ICSADL	ICSADL	ICSA	07/29/25 13:24		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	07/29/25 13:28		Jaswal	OK
15	CCV01	CCV01	CCV	07/29/25 14:21		Jaswal	OK
16	CCB01	CCB01	CCB	07/29/25 14:25		Jaswal	OK
17	PB169029BL	PB169029BL	MB	07/29/25 14:29		Jaswal	OK
18	PB169029BS	PB169029BS	LCS	07/29/25 14:34		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136648

Review By	jaswal	Review On	7/30/2025 1:09:21 PM
Supervise By	MOHAN	Supervise On	8/1/2025 5:25:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459,MP86458
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

19	Q2700-01	EO-03-072525	SAM	07/29/25 14:38		Jaswal	OK
20	Q2703-01	TP-4	SAM	07/29/25 14:42		Jaswal	OK
21	Q2705-03	FG2A	SAM	07/29/25 14:46		Jaswal	OK
22	Q2705-03DUP	FG2ADUP	DUP	07/29/25 14:50		Jaswal	OK
23	Q2705-03L	FG2AL	SD	07/29/25 14:54		Jaswal	OK
24	Q2705-03MS	FG2AMS	MS	07/29/25 14:59		Jaswal	OK
25	Q2705-03MSD	FG2AMSD	MSD	07/29/25 15:03		Jaswal	OK
26	Q2705-03A	FG2AA	PS	07/29/25 15:07	0.1ml m6004,m6013-10ml sample	Jaswal	OK
27	CCV02	CCV02	CCV	07/29/25 15:11		Jaswal	OK
28	CCB02	CCB02	CCB	07/29/25 15:15		Jaswal	OK
29	Q2705-04	FG2B	SAM	07/29/25 15:19		Jaswal	OK
30	Q2705-05	FG2C	SAM	07/29/25 15:23		Jaswal	OK
31	Q2706-01	RT-5417	SAM	07/29/25 15:27		Jaswal	OK
32	Q2706-03	ETGI-361	SAM	07/29/25 15:31		Jaswal	OK
33	PB169032BL	PB169032BL	MB	07/29/25 15:36		Jaswal	OK
34	Q2696-01	RW8-SP100-2025072	SAM	07/29/25 15:44		Jaswal	OK
35	Q2704-01	MW3	SAM	07/29/25 15:48		Jaswal	OK
36	Q2704-02	MW4	SAM	07/29/25 15:52		Jaswal	OK
37	Q2704-03	MW2D	SAM	07/29/25 15:57		Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136648

Review By	jaswal	Review On	7/30/2025 1:09:21 PM
Supervise By	MOHAN	Supervise On	8/1/2025 5:25:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459,MP86458
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

38	PB169032BS	PB169032BS	LCS	07/29/25 16:06		Jaswal	OK
39	CCV03	CCV03	CCV	07/29/25 16:14		Jaswal	OK
40	CCB03	CCB03	CCB	07/29/25 16:20		Jaswal	OK
41	Q2696-02	RW8-SP303-2025072	SAM	07/29/25 16:24	NOT USE	Jaswal	Not Ok
42	Q2696-02DUP	RW8-SP303-2025072	DUP	07/29/25 16:28	NOT USE	Jaswal	Not Ok
43	Q2696-02L	RW8-SP303-2025072	SD	07/29/25 16:32	NOT USE	Jaswal	Not Ok
44	Q2696-02MS	RW8-SP303-2025072	MS	07/29/25 16:36	NOT USE	Jaswal	Not Ok
45	Q2696-02MSD	RW8-SP303-2025072	MSD	07/29/25 16:41	NOT USE	Jaswal	Not Ok
46	Q2696-02A	RW8-SP303-2025072	PS	07/29/25 16:45	NOT USE(0.1ml m6004,m6013-10ml sample	Jaswal	Not Ok
47	PB169048BL	PB169048BL	MB	07/29/25 16:55		Jaswal	OK
48	PB169048BS	PB169048BS	LCS	07/29/25 17:08		Jaswal	OK
49	Q2417-02DL	COMPDL	SAM	07/29/25 17:12	Straight 5x for Dilution for all elements	Jaswal	OK
50	Q2417-02DUPDL	COMPDUPDL	DUP	07/29/25 17:16	Straight 5x for Dilution for all elements	Jaswal	OK
51	CCV04	CCV04	CCV	07/29/25 17:20		Jaswal	OK
52	CCB04	CCB04	CCB	07/29/25 17:24		Jaswal	OK
53	Q2417-02LDL	COMPLDL	SD	07/29/25 17:29	Straight 25x for Dilution for all elements	Jaswal	OK
54	Q2417-02MSDL	COMPMSDL	MS	07/29/25 17:33	Straight 5x for Dilution for all elements	Jaswal	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136648

Review By	jaswal	Review On	7/30/2025 1:09:21 PM
Supervise By	MOHAN	Supervise On	8/1/2025 5:25:28 PM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459,MP86458
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

55	Q2417-02MSDDL	COMPMSDDL	MSD	07/29/25 17:37	Straight 5x for Dilution for all elements	Jaswal	OK
56	Q2417-02ADL	COMPADL	PS	07/29/25 17:41	Straight 5x for Dilution for all elements(0.1ml m6004,m6013-10ml sample before deiltion)	Jaswal	OK
57	Q2706-02	RT-5417	SAM	07/29/25 17:45		Jaswal	OK
58	Q2706-04	ETGI-361	SAM	07/29/25 17:50		Jaswal	OK
59	Q2710-01	JC-03-07282025	SAM	07/29/25 17:54	NOT USE	Jaswal	Not Ok
60	Q2710-01DUP	JC-03-07282025DUP	DUP	07/29/25 17:58	NOT USE	Jaswal	Not Ok
61	Q2710-01L	JC-03-07282025L	SD	07/29/25 18:02	NOT USE	Jaswal	Not Ok
62	Q2710-01MS	JC-03-07282025MS	MS	07/29/25 18:07	NOT USE	Jaswal	Not Ok
63	CCV05	CCV05	CCV	07/29/25 18:11		Jaswal	OK
64	CCB05	CCB05	CCB	07/29/25 18:15		Jaswal	OK
65	Q2710-01MSD	JC-03-07282025MSD	MSD	07/29/25 18:19	CCV fail for Be,Na	Jaswal	Not Ok
66	Q2710-01A	JC-03-07282025A	PS	07/29/25 18:23	CCV fail for Be,Na	Jaswal	Not Ok
67	CCV06	CCV06	CCV	07/29/25 18:31	CCV fail for Be,Na(0.1ml m6004,m6013-10ml sample)	Jaswal	OK
68	CCB06	CCB06	CCB	07/29/25 18:36		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136688

Review By	Janvi	Review On	8/5/2025 10:09:04 AM
Supervise By	jaswal	Supervise On	8/6/2025 1:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/01/25 11:18		Jaswal	OK
2	S1	S1	CAL2	08/01/25 11:22		Jaswal	OK
3	S2	S2	CAL3	08/01/25 11:26		Jaswal	OK
4	S3	S3	CAL4	08/01/25 11:30		Jaswal	OK
5	S4	S4	CAL5	08/01/25 11:34		Jaswal	OK
6	S5	S5	CAL6	08/01/25 11:38		Jaswal	OK
7	ICV01	ICV01	ICV	08/01/25 11:43		Jaswal	OK
8	LLICV01	LLICV01	LLICV	08/01/25 11:54		Jaswal	OK
9	ICB01	ICB01	ICB	08/01/25 11:59		Jaswal	OK
10	CRI01	CRI01	CRDL	08/01/25 12:04		Jaswal	OK
11	ICSA01	ICSA01	ICSA	08/01/25 12:09		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	08/01/25 12:14		Jaswal	OK
13	ICSADL	ICSADL	ICSA	08/01/25 12:18		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	08/01/25 12:22		Jaswal	OK
15	CCV01	CCV01	CCV	08/01/25 12:26		Jaswal	OK
16	CCB01	CCB01	CCB	08/01/25 12:30		Jaswal	OK
17	PB169062BL	PB169062BL	MB	08/01/25 12:35		Jaswal	OK
18	PB169062BS	PB169062BS	LCS	08/01/25 12:39		Jaswal	OK

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Supervise By	jaswal	Supervise On	8/6/2025 1:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

19	Q2705-02	FG1B	SAM	08/01/25 12:43		Jaswal	OK
20	Q2705-02DUP	FG1BDUP	DUP	08/01/25 12:47		Jaswal	OK
21	Q2705-02L	FG1BL	SD	08/01/25 12:51		Jaswal	OK
22	Q2705-02MS	FG1BMS	MS	08/01/25 12:55		Jaswal	OK
23	Q2705-02MSD	FG1BMSD	MSD	08/01/25 12:59		Jaswal	OK
24	Q2705-02A	FG1BA	PS	08/01/25 13:03	0.1ml m6004,m6013-10ml sample	Jaswal	OK
25	Q2726-01	WBR-PBO	SAM	08/01/25 13:08		Jaswal	OK
26	Q2728-01	7211931-VNJ240	SAM	08/01/25 13:12		Jaswal	OK
27	CCV02	CCV02	CCV	08/01/25 13:16		Jaswal	OK
28	CCB02	CCB02	CCB	08/01/25 13:22		Jaswal	OK
29	PB169063BL	PB169063BL	MB	08/01/25 13:29		Jaswal	OK
30	PB169063BS	PB169063BS	LCS	08/01/25 13:33		Jaswal	OK
31	PB169060TB	PB169060TB	MB	08/01/25 13:37		Jaswal	OK
32	Q2728-02	7211931-VNJ240	SAM	08/01/25 13:42		Jaswal	OK
33	Q2728-02DUP	7211931-VNJ240DUP	DUP	08/01/25 13:46		Jaswal	OK
34	Q2728-02L	7211931-VNJ240L	SD	08/01/25 13:50		Jaswal	OK
35	Q2728-02MS	7211931-VNJ240MS	MS	08/01/25 13:55		Jaswal	OK
36	Q2728-02MSD	7211931-VNJ240MSD	MSD	08/01/25 13:59		Jaswal	OK
37	Q2728-02A	7211931-VNJ240A	PS	08/01/25 14:03	0.1ml m6004,m6013-10ml sample	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136688

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Supervise By	jaswal	Supervise On	8/6/2025 1:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

38	CCV03	CCV03	CCV	08/01/25 14:07		Jaswal	OK
39	CCB03	CCB03	CCB	08/01/25 14:16		Jaswal	OK
40	Q1168-01	LOD-MDL-SOIL-01-Q	SAM	08/01/25 14:42		Jaswal	OK
41	Q1168-03	MDL-SOIL-03-QT1-20	SAM	08/01/25 14:47		Jaswal	OK
42	Q1168-07	LOD-MDL-WATER-01	SAM	08/01/25 14:51		Jaswal	OK
43	Q1168-09	MDL-WATER-03-QT1	SAM	08/01/25 14:55		Jaswal	OK
44	Q1168-10	LOD-MDL-WATER-04	SAM	08/01/25 14:59		Jaswal	OK
45	Q1168-12	MDL-WATER-06-QT1	SAM	08/01/25 15:04		Jaswal	OK
46	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	08/01/25 15:08		Jaswal	OK
47	Q2126-03	MDL-SOIL-03-QT2-20	SAM	08/01/25 15:12		Jaswal	OK
48	Q2126-07	LOD-MDL-WATER-01	SAM	08/01/25 15:17		Jaswal	OK
49	Q2126-09	MDL-WATER-03-QT2	SAM	08/01/25 15:21		Jaswal	OK
50	CCV04	CCV04	CCV	08/01/25 15:32		Jaswal	OK
51	CCB04	CCB04	CCB	08/01/25 15:36		Jaswal	OK
52	Q2126-12	MDL-WATER-06-QT2	SAM	08/01/25 15:40		Jaswal	OK
53	Q2126-10	LOD-MDL-WATER-04	SAM	08/01/25 15:45		Jaswal	OK
54	PB167019BS	PB167019BS	LCS	08/01/25 15:53		Jaswal	OK
55	PB167019BL	PB167019BL	MB	08/01/25 16:03		Jaswal	OK
56	PB166198BL	PB166198BL	MB	08/01/25 16:07		Jaswal	OK
57	PB166198BS	PB166198BS	LCS	08/01/25 16:15		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136688

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Supervise By	jaswal	Supervise On	8/6/2025 1:49:43 AM

STD. NAME	STD REF.#
ICAL Standard	MP86452,MP86453,MP86454,MP86455,MP86456,MP86458
ICV Standard	MP86459
CCV Standard	MP86462
ICSA Standard	MP86460,MP86461
CRI Standard	MP86458
LCS Standard	
Chk Standard	MP86463,MP86464

58	PB167652BL	PB167652BL	MB	08/01/25 16:19		Jaswal	OK
59	PB167652BS	PB167652BS	LCS	08/01/25 16:23		Jaswal	OK
60	PBW	PBW	MB	08/01/25 16:27		Jaswal	OK
61	LCSW	LCSW	LCS	08/01/25 16:31		Jaswal	OK
62	CCV05	CCV05	CCV	08/01/25 16:35		Jaswal	OK
63	CCB05	CCB05	CCB	08/01/25 16:40		Jaswal	OK
64	PBS	PBS	MB	08/01/25 16:44		Jaswal	OK
65	LCSS	LCSS	LCS	08/01/25 16:48		Jaswal	OK
66	PB168166BL	PB168166BL	MB	08/01/25 16:52		Jaswal	OK
67	PB168166BS	PB168166BS	LCS	08/01/25 16:57		Jaswal	OK
68	CCV06	CCV06	CCV	08/01/25 17:01		Jaswal	OK
69	CCB06	CCB06	CCB	08/01/25 17:05		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2705

Test : Metals Group5

Prepbatch ID : PB169029,PB169062,

Sequence ID/Qc Batch ID: LB136648,LB136648,LB136688,LB136688,

Standard ID :
MP86404,MP86452,MP86453,MP86454,MP86455,MP86456,MP86457,MP86458,MP86459,MP86460,MP86461,MP86462,MP86463,MP86464,

Chemical ID :
M5467,M5470,M5499,M5581,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5816,M5820,M5942,M5962,M5970,M5984,M5985,M5996,M5997,M6007,M6015,M6021,M6023,M6028,M6030,M6032,M6077,M6127,M6128,M6137,M6142,M6144,M6145,M6146,M6151,M6152,M6155,M6158,M6159,M6162,M6163,M6164,M6165,M6170,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP86404	07/17/2025	11/27/2025	Sagar Kanani	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/17/2025

FROM 1250.00000ml of M6162 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP86452	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP86453	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5470 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5970 + 5.00000ml of M5996 + 5.00000ml of M5997 + 5.00000ml of M6077 + 5.00000ml of M6146 + 455.00000ml of MP86452 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP86454	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 50.00000ml of MP86452 + 50.00000ml of MP86453 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP86455	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP86456	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP86457	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.05000ml of M6159 + 0.06000ml of M5747 + 0.10000ml of M5470 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5499 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP86452 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP86458	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 2.00000ml of MP86457 + 98.00000ml of MP86452 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP86459	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.80000ml of MP86452 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP86460	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP86452 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP86461	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 10.00000ml of M6152 + 10.00000ml of M6155 + 80.00000ml of MP86452 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP86462	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

FROM 50.00000ml of MP86452 + 50.00000ml of MP86453 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP86463	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP86464	07/18/2025	08/08/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 07/23/2025

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	04/14/2025 / jaswal	03/16/2023 / jaswal	M5470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	04/17/2025 / Janvi	03/17/2023 / bin	M5499

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	03/20/2026	03/20/2025 /	06/12/2023 / jaswal	M5581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	05/07/2024 / JANVI	02/22/2024 / kareem	M5996

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	12/21/2027	02/03/2025 / JANVI	02/22/2024 / kareem	M5997

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	05/27/2026	05/27/2025 / Janvi	05/14/2024 / Jaswal	M6007

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	06/19/2025 / MOHAN	05/14/2024 / Jaswal	M6015

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1	V2-MEB744107	05/22/2029	06/09/2025 / jaswal	06/06/2025 / jaswal	M6163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2	U2-MEB733713	06/01/2028	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	01/02/2030	06/09/2025 / jaswal	06/09/2025 / jaswal	M6165

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2186-03 / Hydrogen Peroxide (cs/4x4L)	24D1961001	10/16/2025	06/25/2025 /	05/20/2025 / Sagar	M6170

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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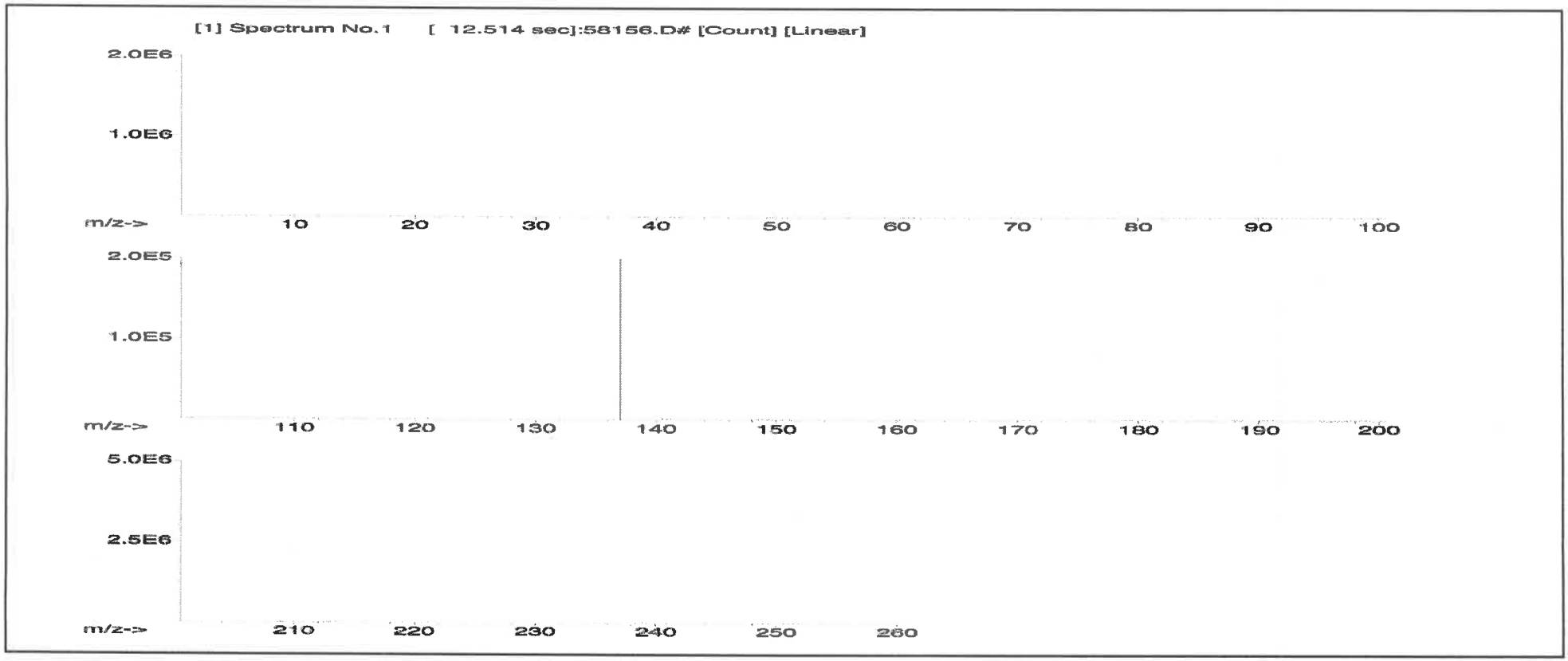
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

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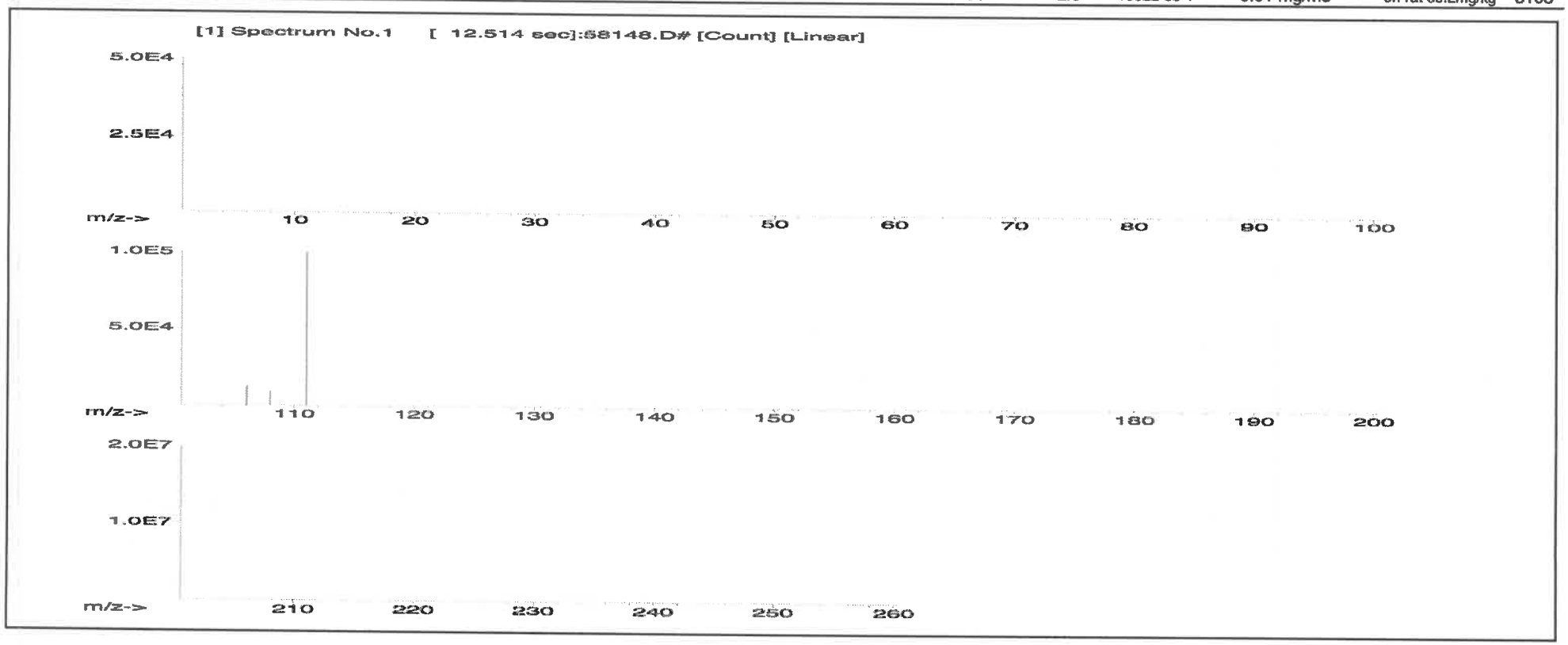
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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CERTIFIED WEIGHT REPORT:

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

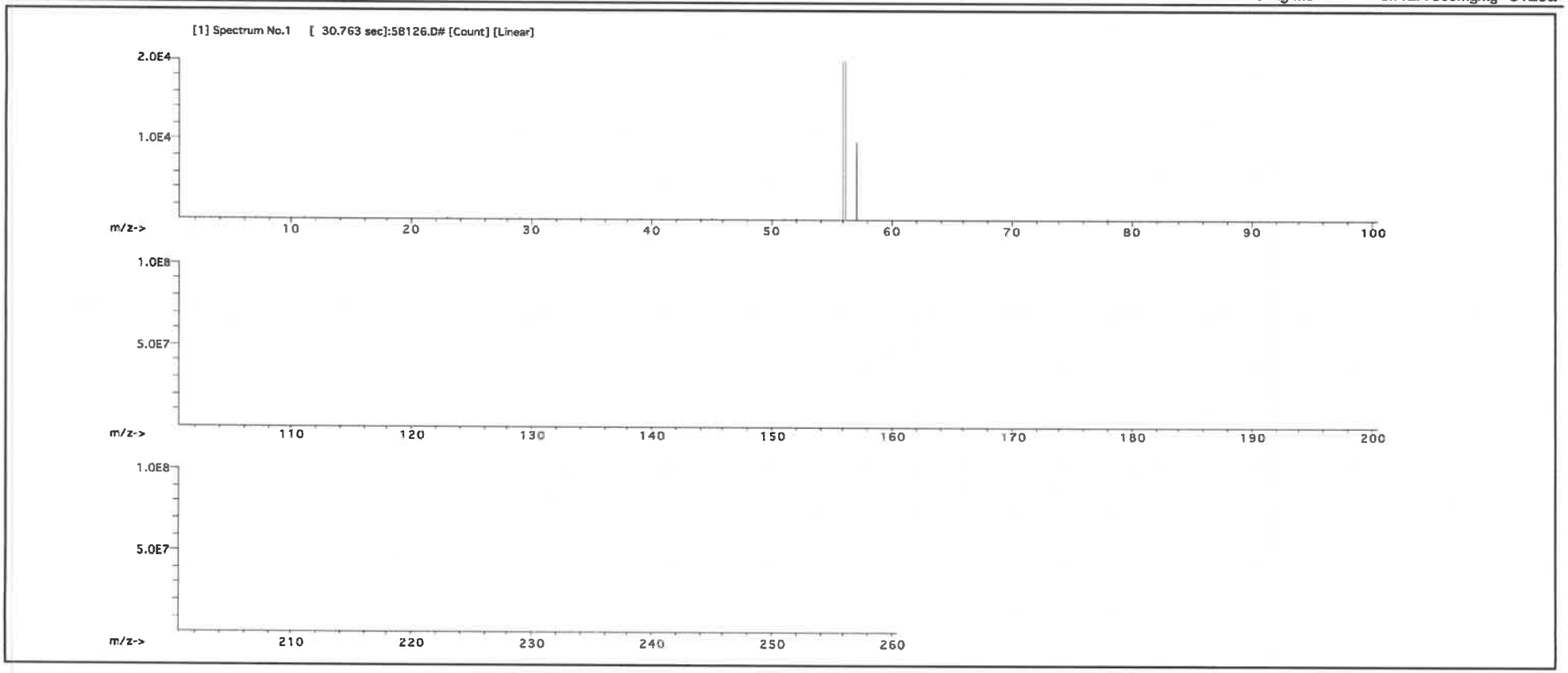
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



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

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

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

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

11.2 Lot Expiration Date

- **August 30, 2026**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

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

11.2 Lot Expiration Date

- March 17, 2028

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

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

CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

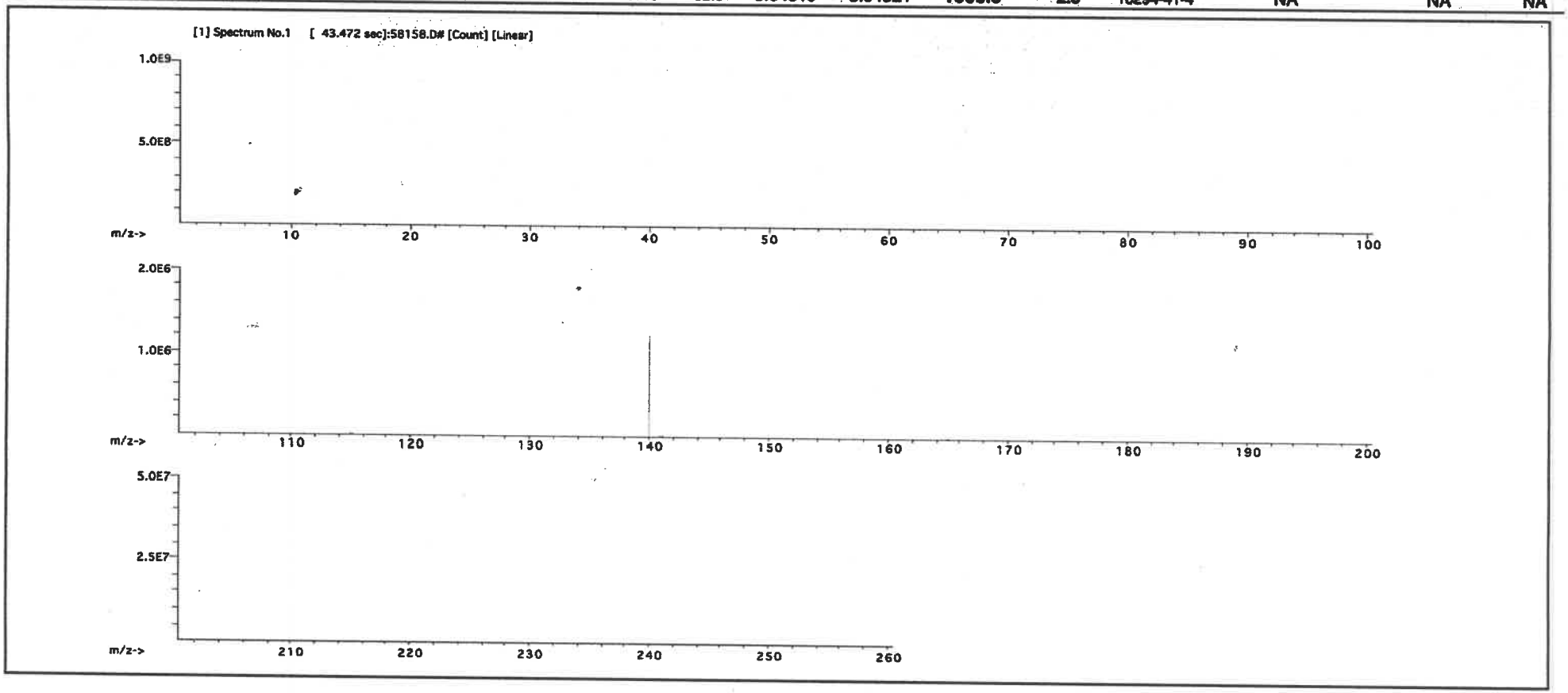
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5708
Added 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

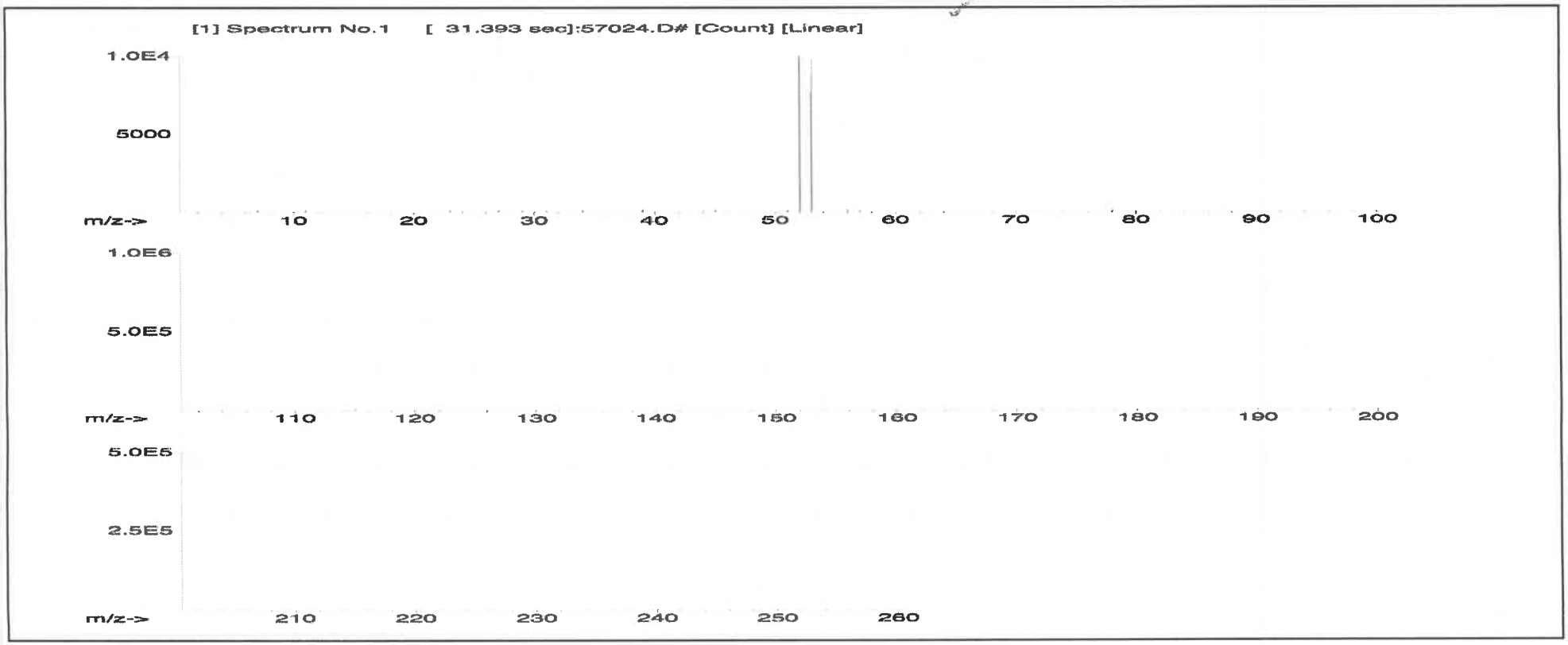
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

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CERTIFIED WEIGHT REPORT:

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

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

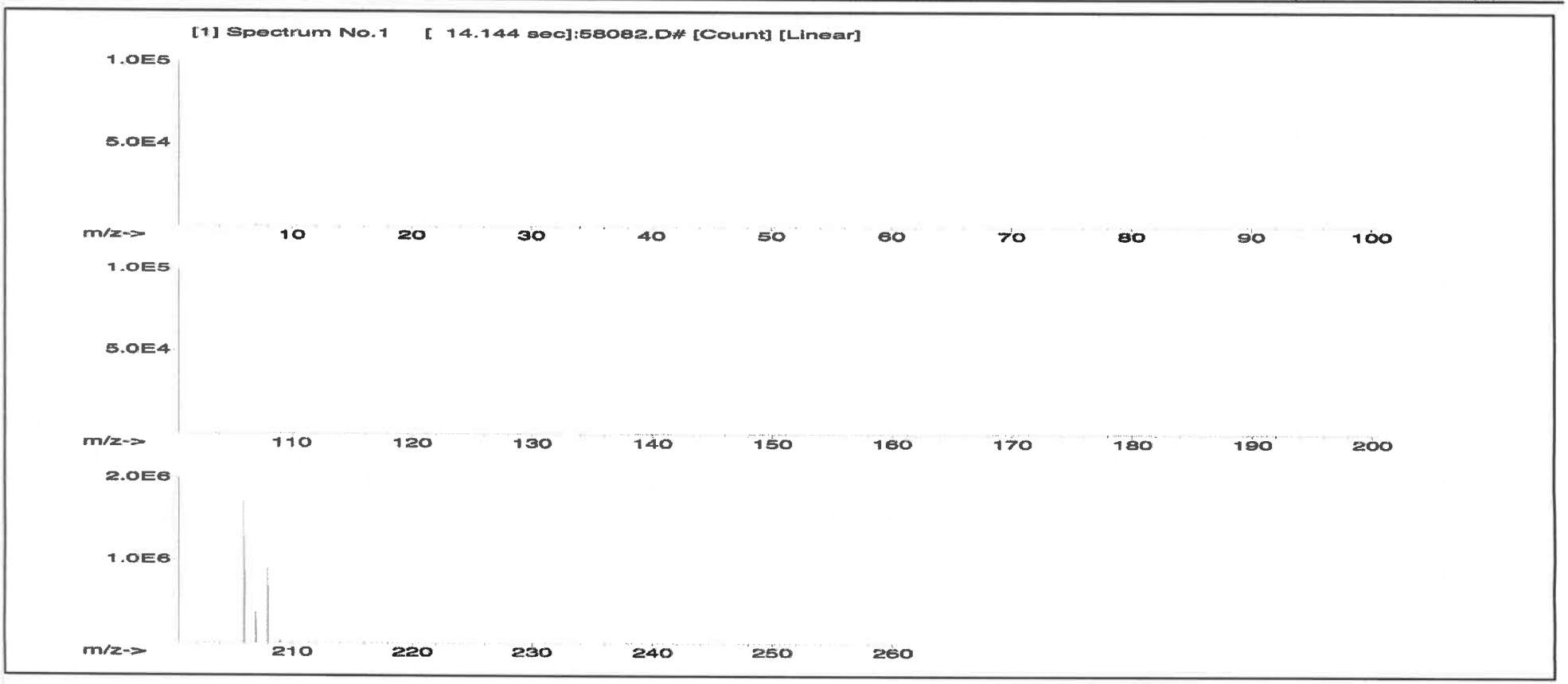
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

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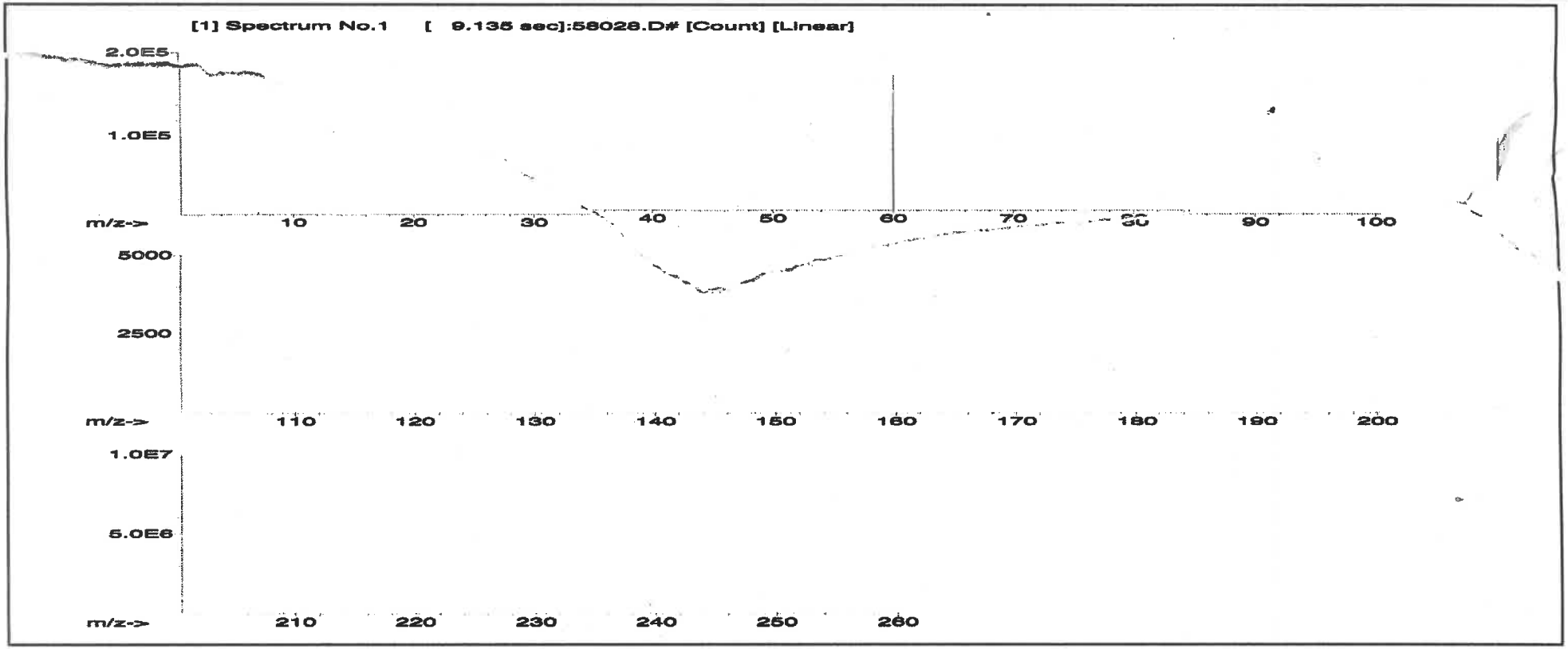
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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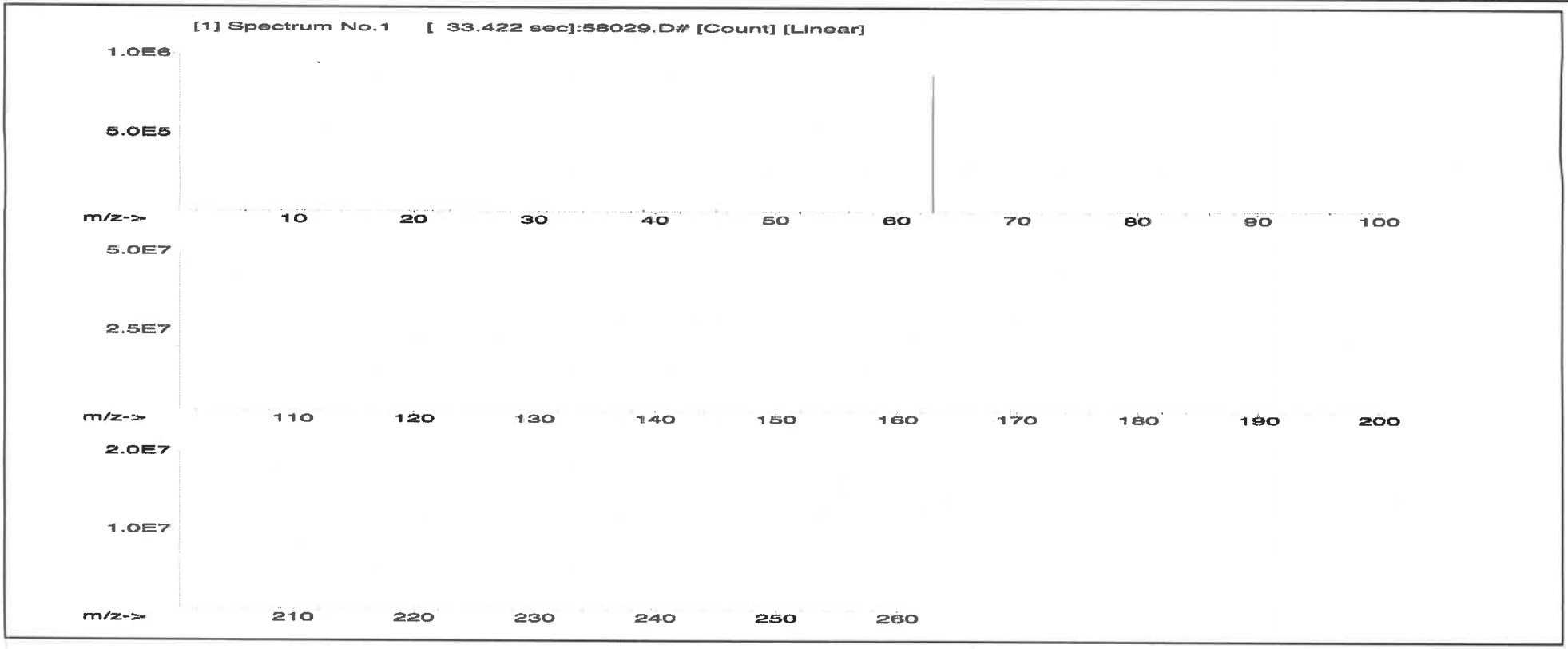
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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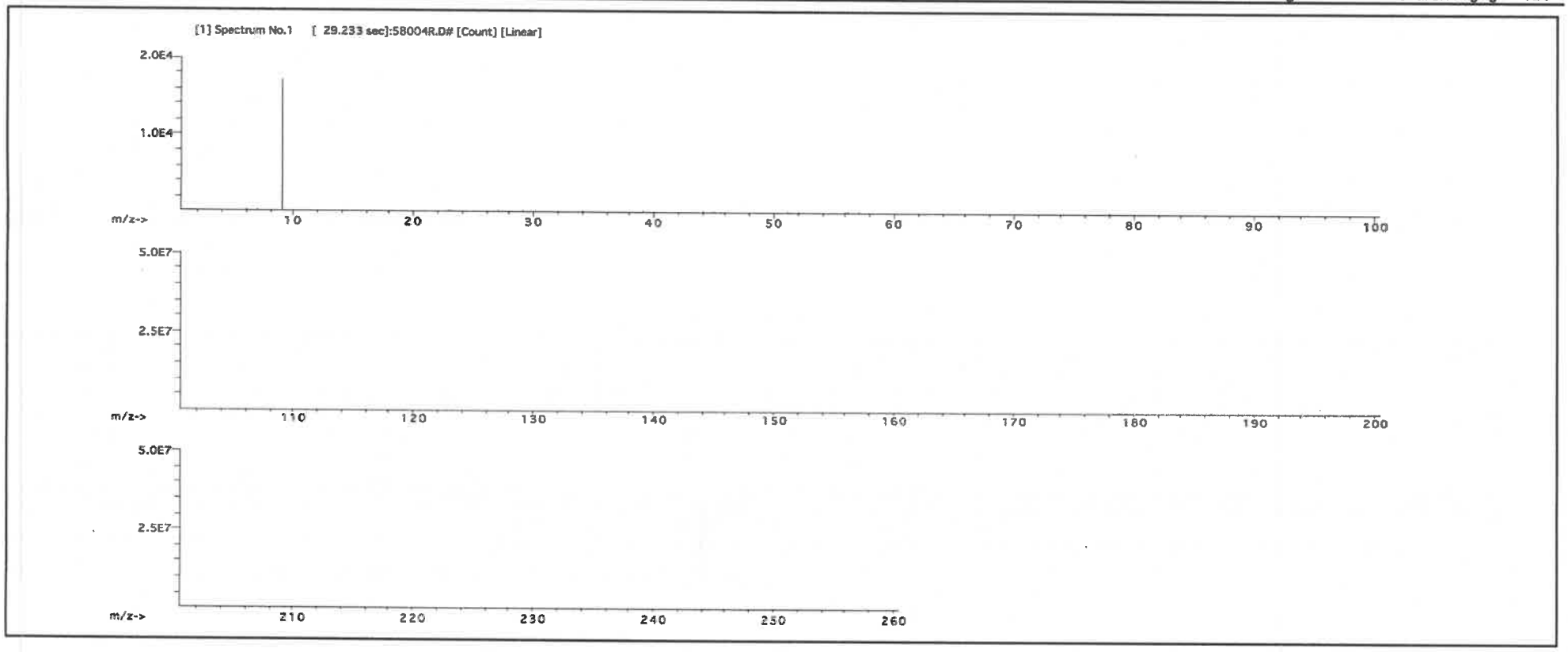
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

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

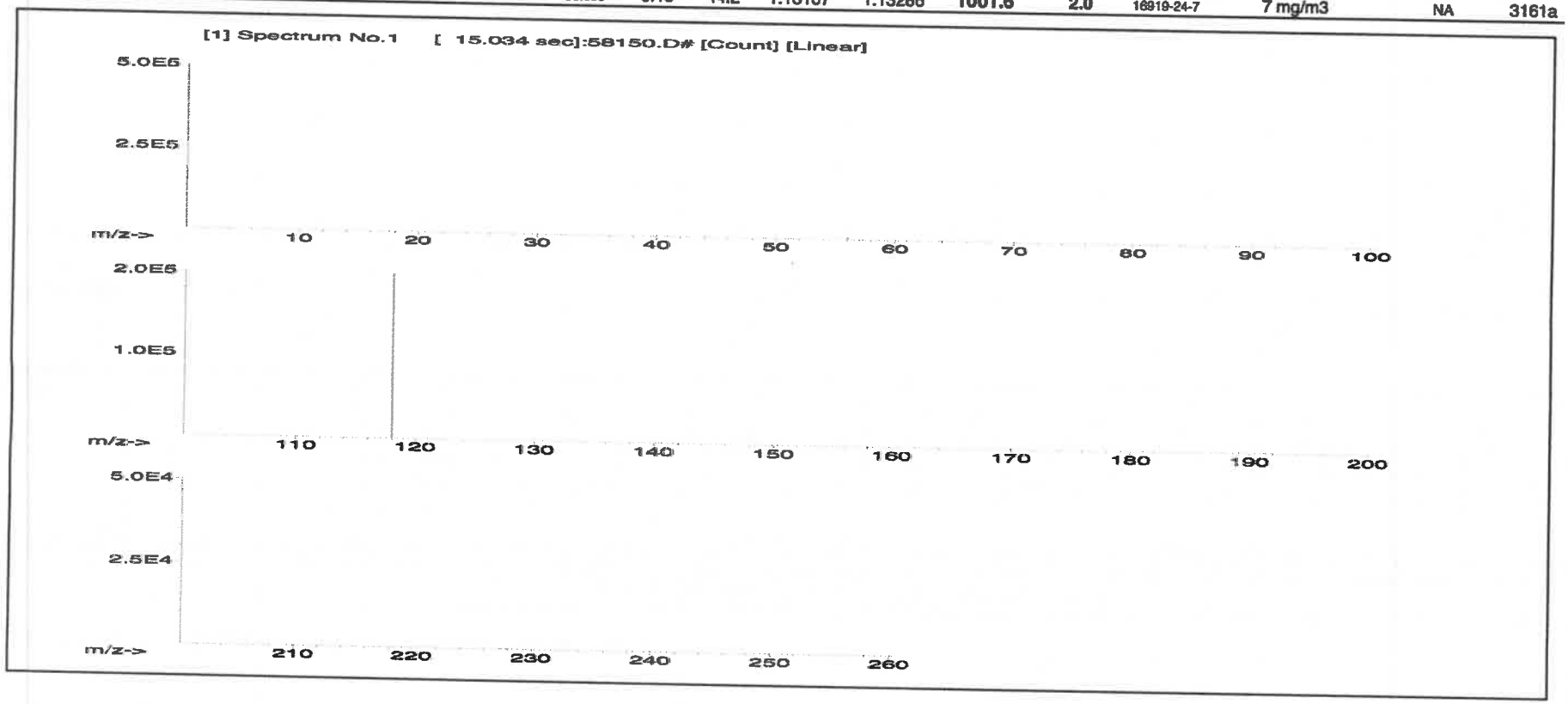
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

Certified by:

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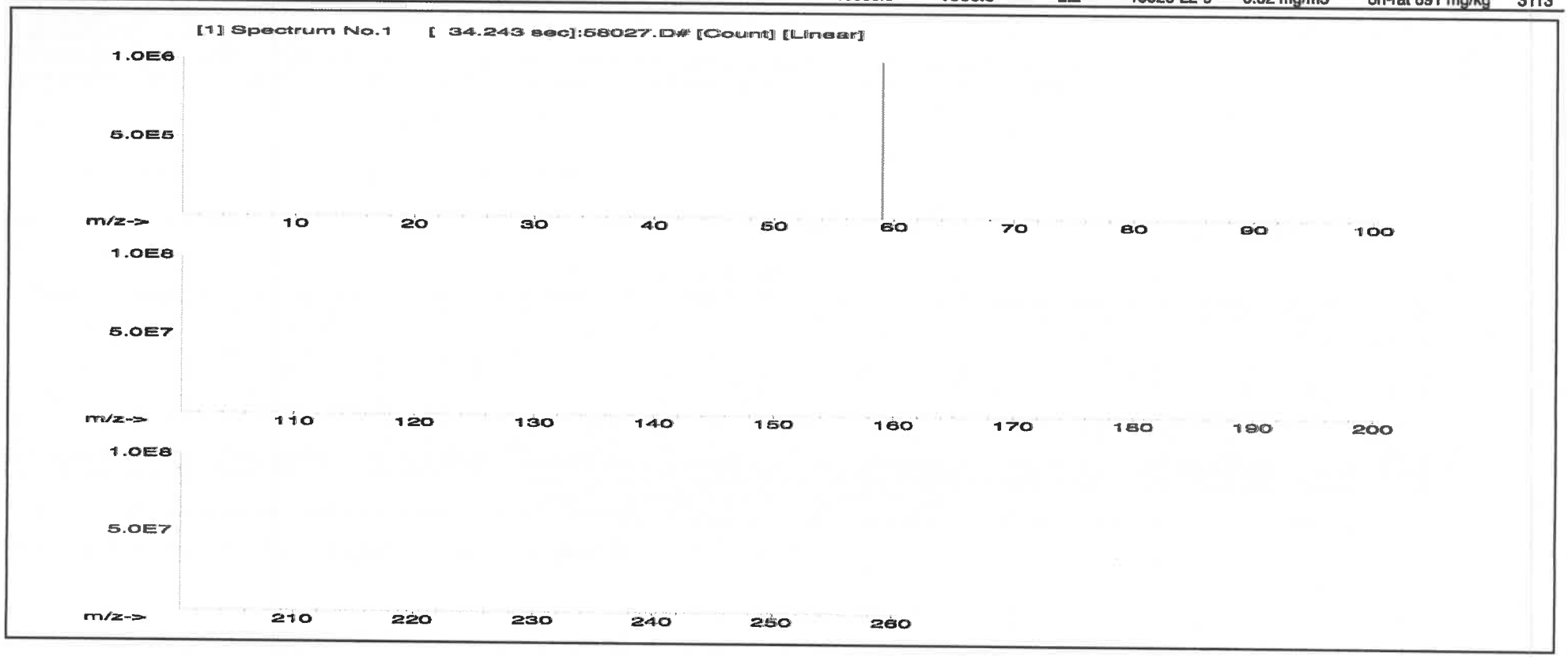
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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

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Certified Reference Material CRM

R: 02/09/24 IM5801 BH

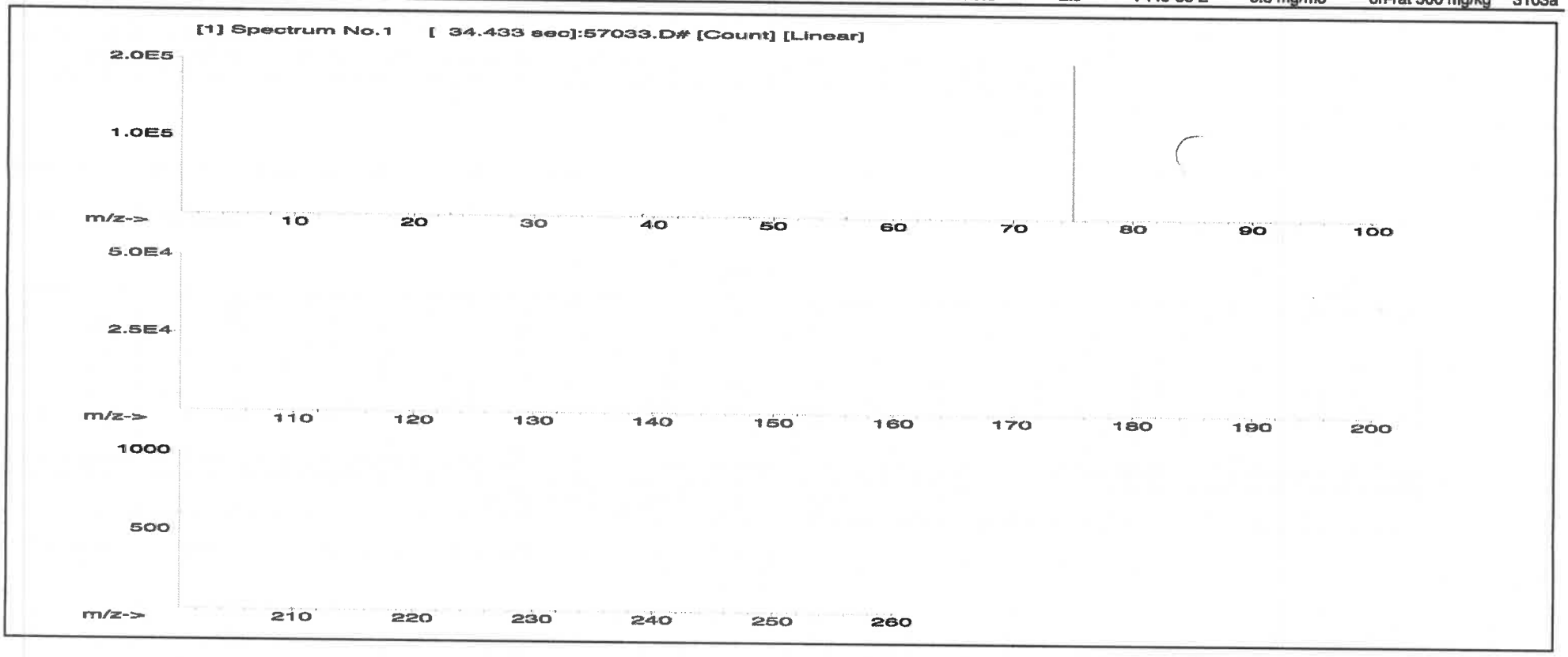
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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Certified Reference Material CRM

A: 02/09/24 M.5814

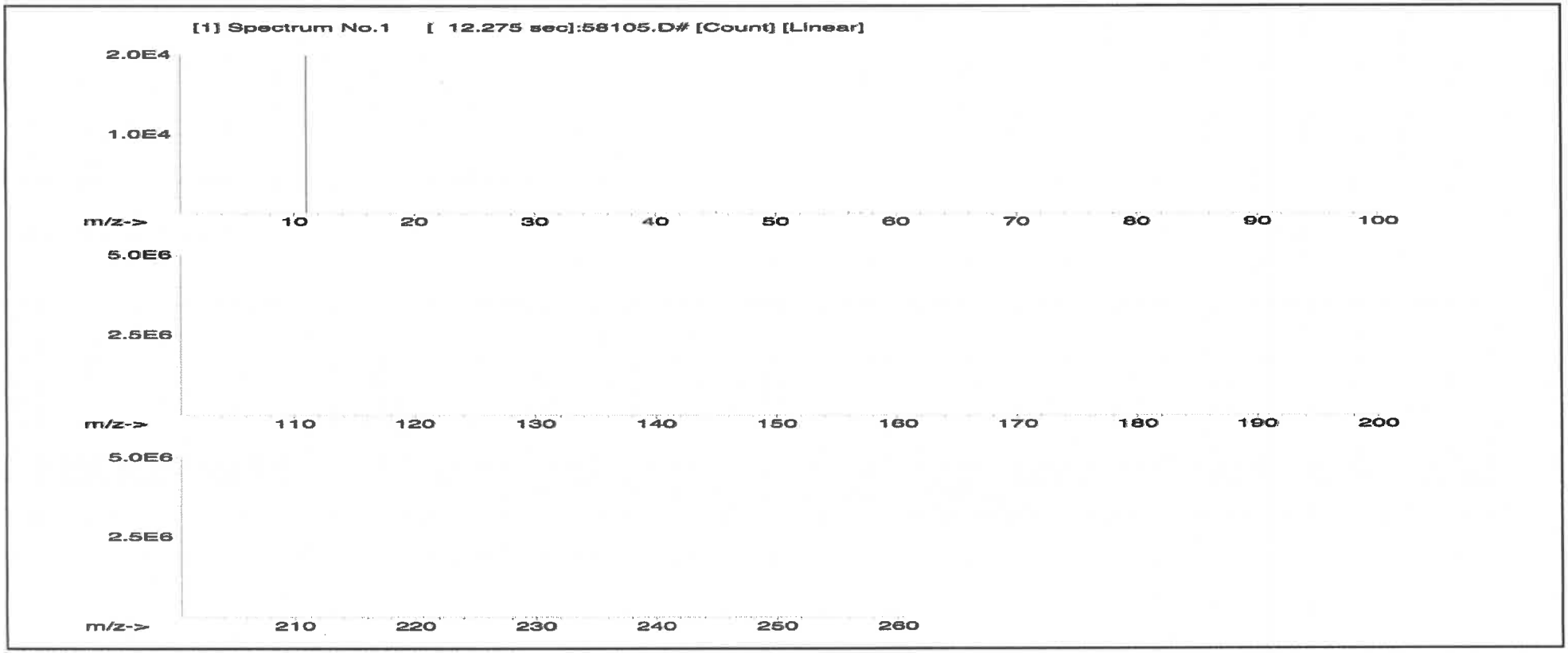
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



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

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

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

(T) = Target analyte

Physical Characterization:

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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5816

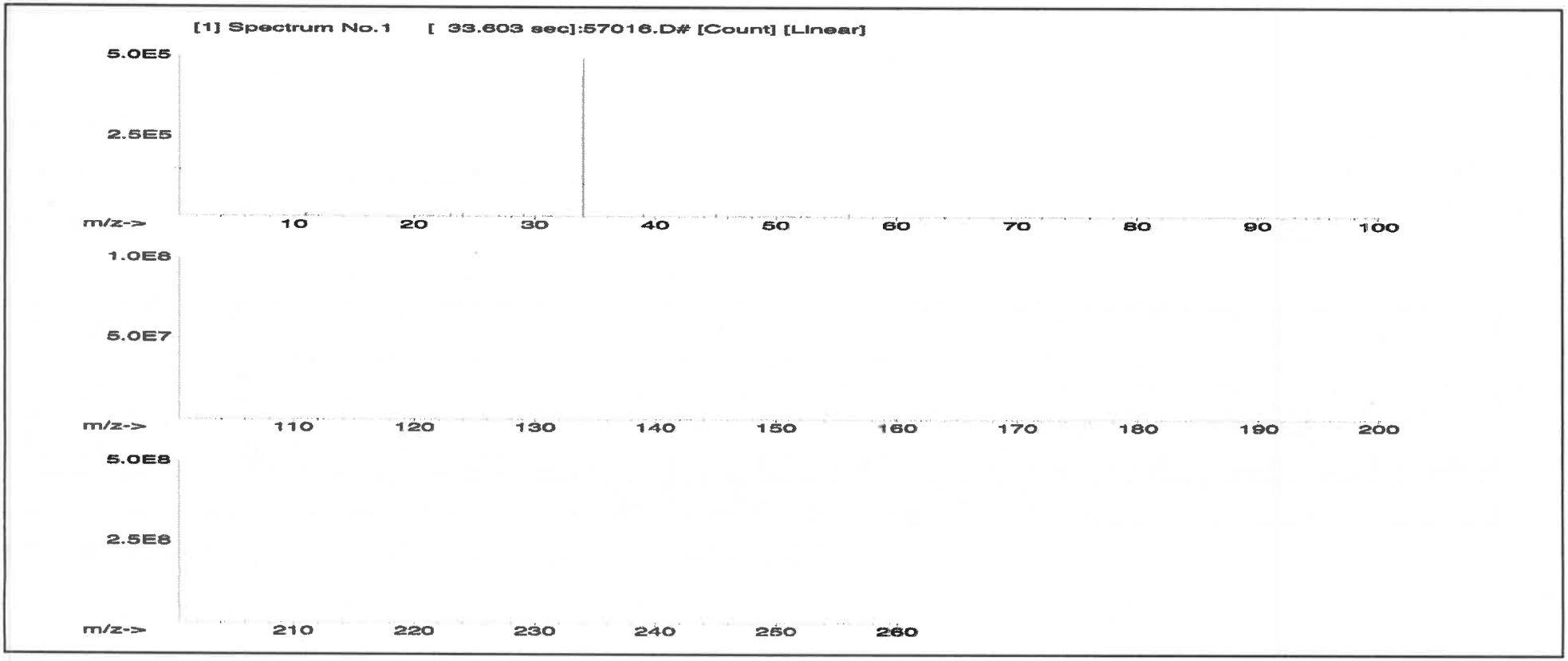
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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

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

(T) = Target analyte

Physical Characterization:

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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R: 02/09/24 M5820

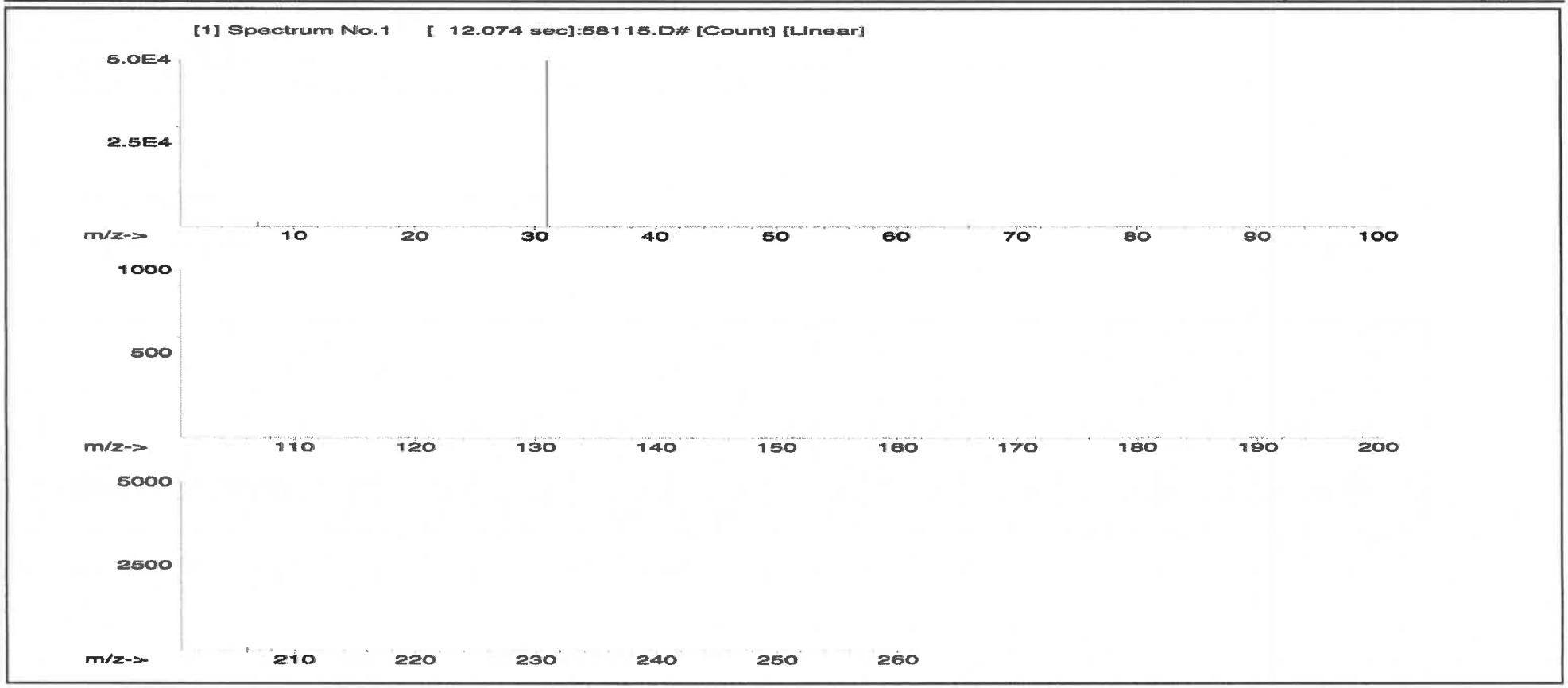
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- **June 17, 2027**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

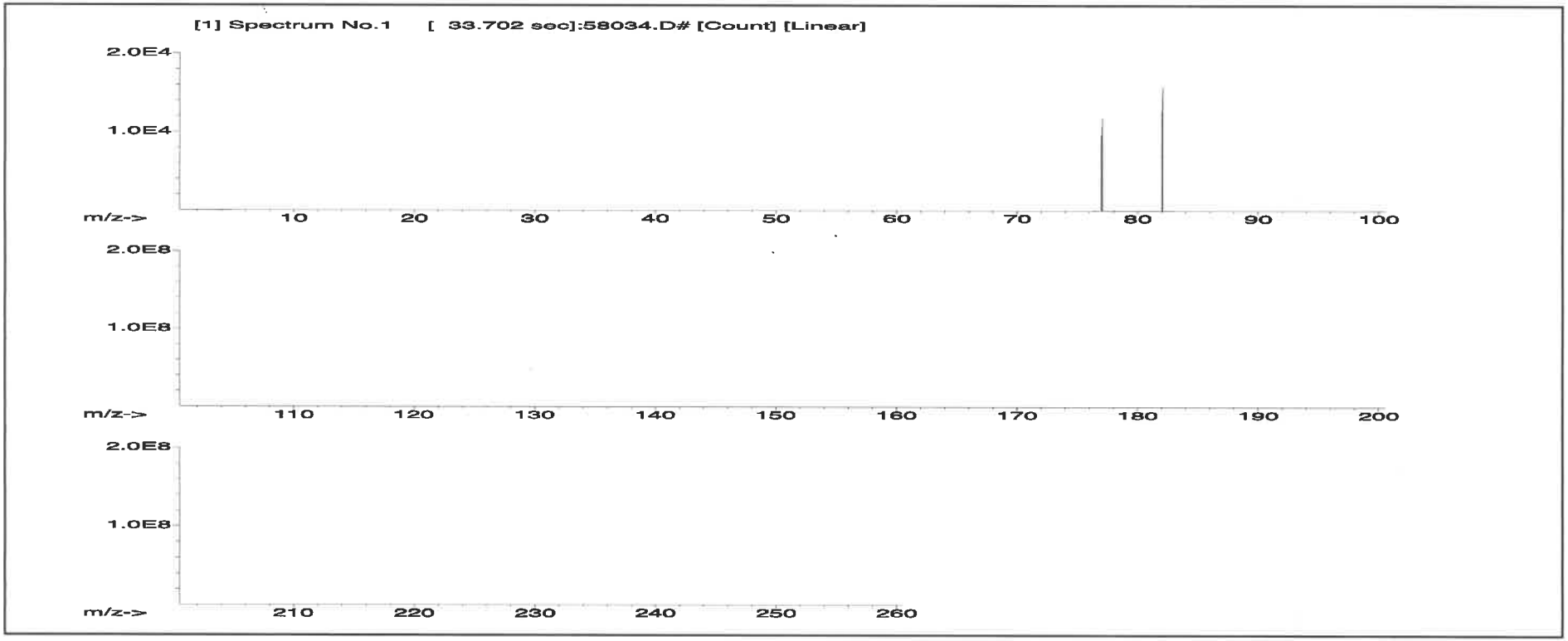
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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

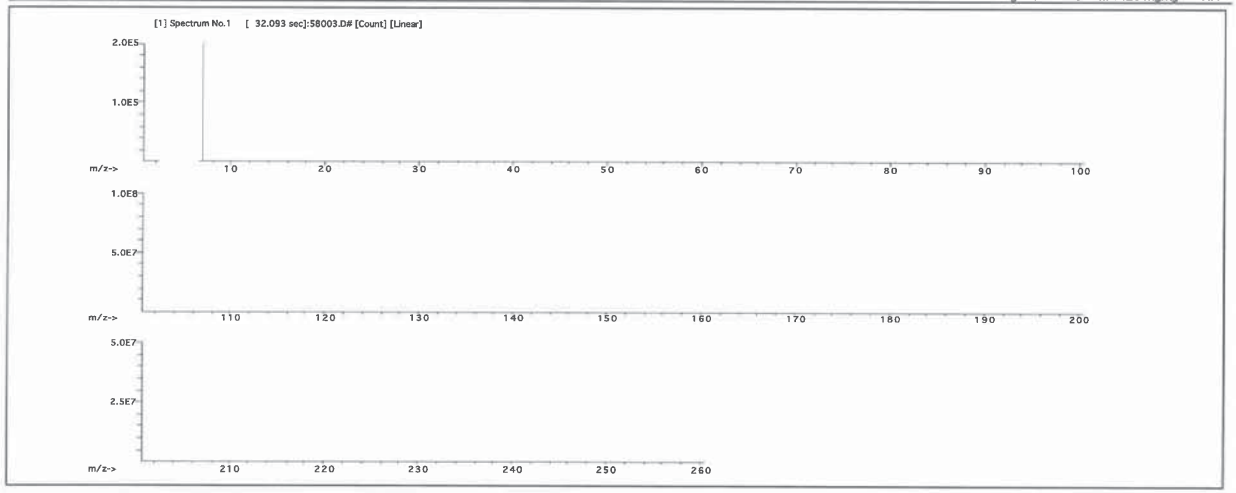
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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MS984
R:6/14/24

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

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

11.2 Lot Expiration Date

- February 21, 2028

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Calcium, Ca	5 000 ± 22 µg/mL
Chromium, Cr	200.0 ± 1.0 µg/mL	Cobalt, Co	500.0 ± 2.4 µg/mL
Copper, Cu	250.0 ± 1.0 µg/mL	Iron, Fe	1 000 ± 4 µg/mL
Magnesium, Mg	5 000 ± 20 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Potassium, K	5 000 ± 19 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 18 µg/mL
Vanadium, V	499.7 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.118 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

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

11.2 Lot Expiration Date

- January 27, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB727800
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 7 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.2 µg/mL**
Lead, Pb	**1 000 ± 4 µg/mL**	**Selenium, Se**	**1 000 ± 6 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

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

11.2 Lot Expiration Date

- December 21, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

M6074
M6075
M6076
M6077

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Christiansburg, VA 24073 USA
inorganicventures.com

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

EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 5 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

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

11.2 Lot Expiration Date

- September 06, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

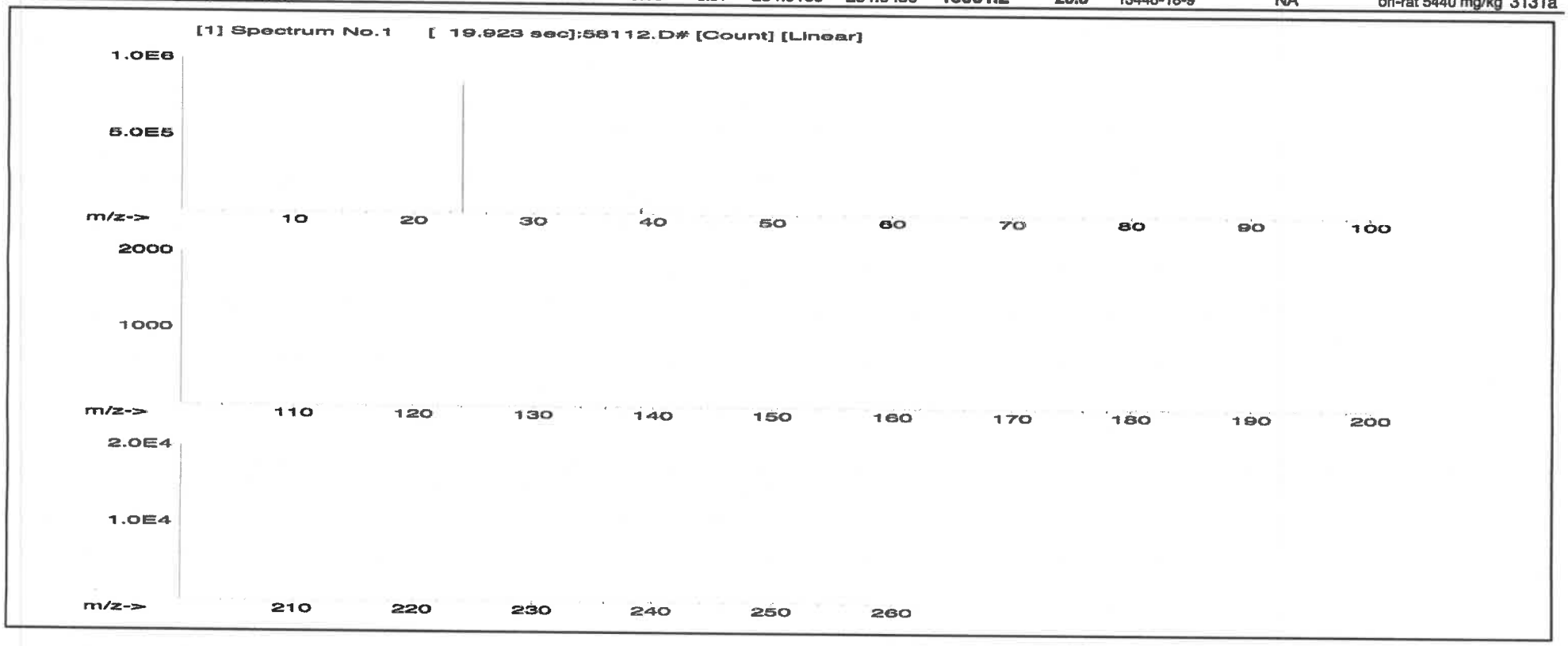
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

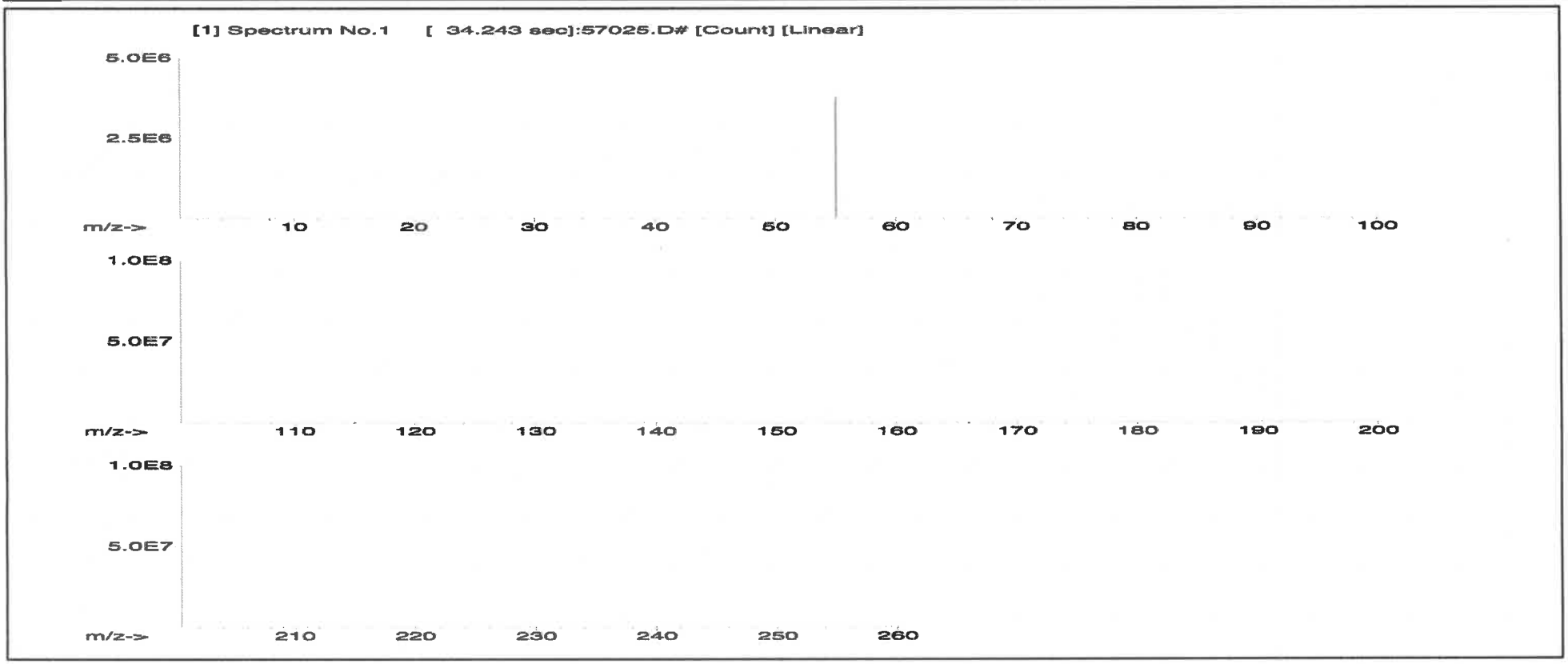
Giovanni Esposito

Formulated By:	Giovanni Esposito	101124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

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

11.2 Lot Expiration Date

- **July 10, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

Part Number: 57119
Lot Number: 103024
Description: Potassium (K)

M6141
M6142
M6143

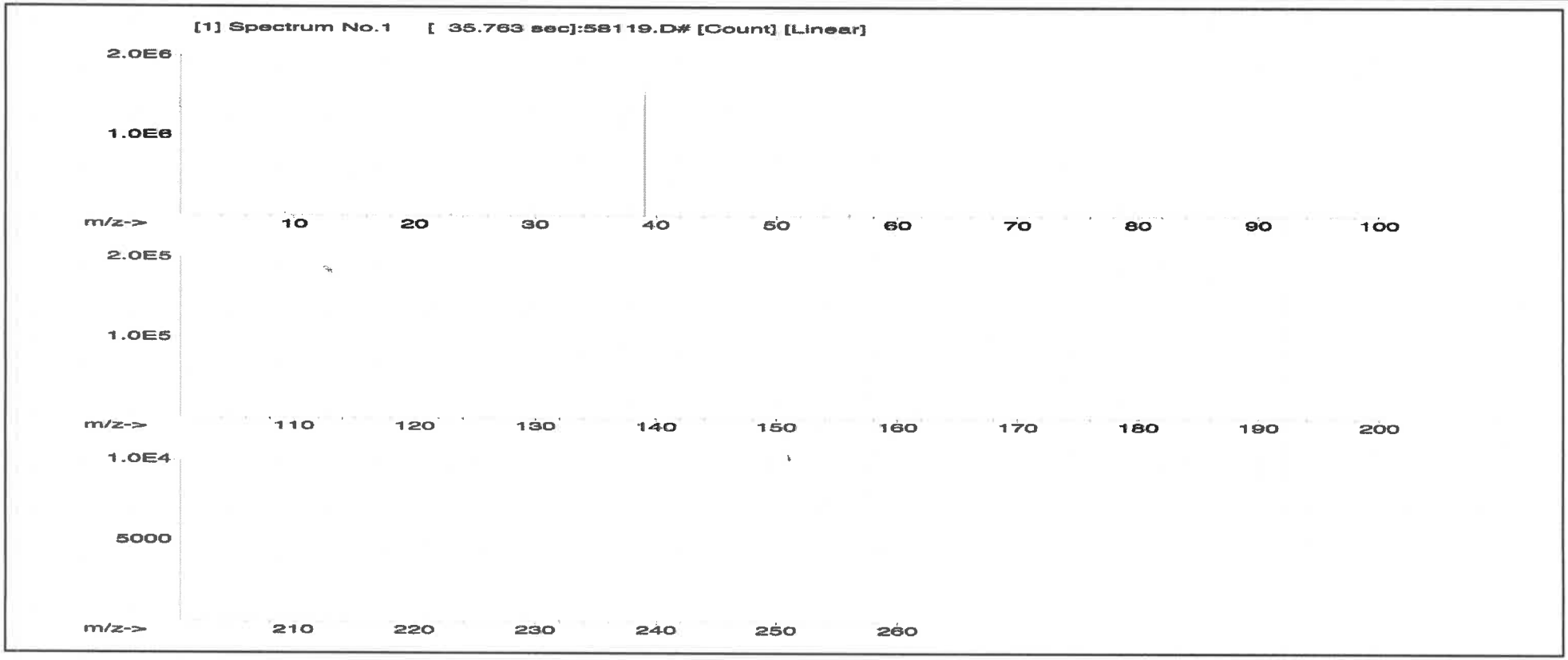
Expiration Date: 103027
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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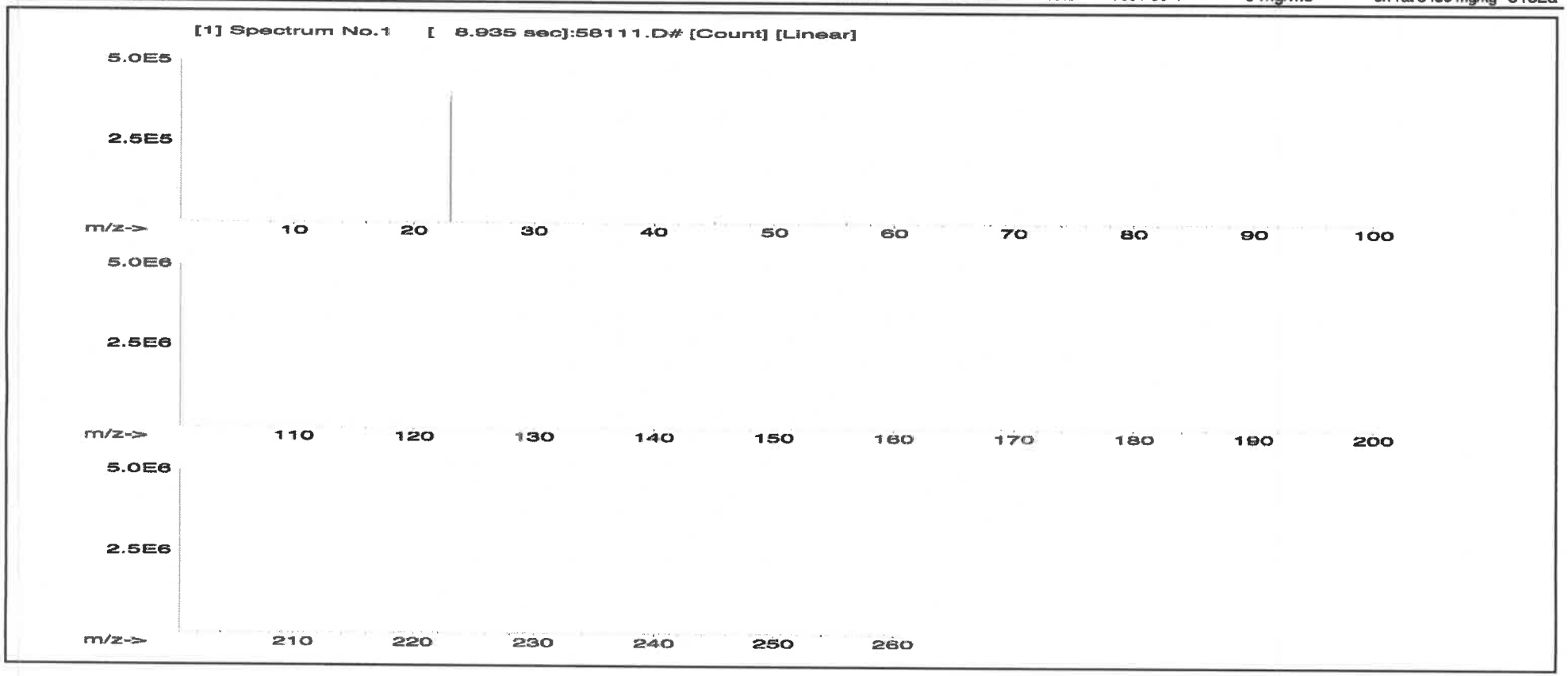
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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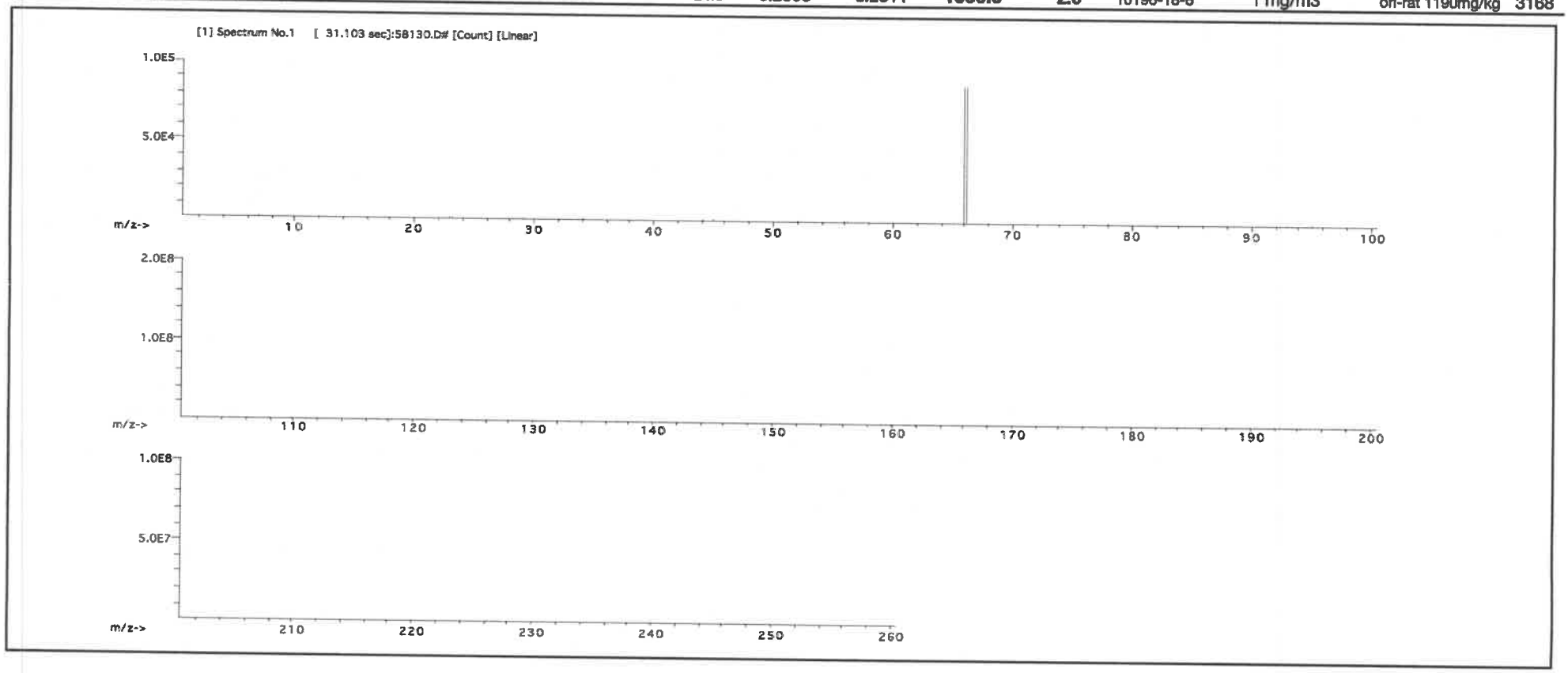
CERTIFIED WEIGHT REPORT:

Part Number:	**58030**	R → 1/13/25	**Solvent:**	**Lot #** 24012496	Nitric Acid
Lot Number:	**121724**				
Description:	**Zinc (Zn)**	M6145	2%	40.0 (mL)	Nitric Acid
Expiration Date:	121727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.1	0.10 Flask Uncertainty			

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* 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™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-5162

R. Date :- 04/27/2025

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

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-1
Lot Number:	V2-MEB744107
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 1 000 µg/mL ea: Aluminum, Barium, 500 µg/mL ea: Iron, 250 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 125 µg/mL ea: Silver, Copper, 100 µg/mL ea: Chromium, 25 µg/mL ea: Beryllium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**1 000 ± 4 µg/mL**	**Barium, Ba**	**1 000 ± 6 µg/mL**
Beryllium, Be	**24.98 ± 0.12 µg/mL**	**Calcium, Ca**	**2 500 ± 8 µg/mL**
Chromium, Cr	**99.9 ± 0.6 µg/mL**	**Cobalt, Co**	**250.2 ± 1.2 µg/mL**
Copper, Cu	**125.0 ± 0.5 µg/mL**	**Iron, Fe**	**500.0 ± 2.2 µg/mL**
Magnesium, Mg	**2 500 ± 11 µg/mL**	**Manganese, Mn**	**249.9 ± 1.1 µg/mL**
Nickel, Ni	**250.0 ± 1.2 µg/mL**	**Potassium, K**	**2 500 ± 11 µg/mL**
Silver, Ag	**125.0 ± 0.6 µg/mL**	**Sodium, Na**	**2 500 ± 11 µg/mL**
Vanadium, V	**250.0 ± 1.1 µg/mL**	**Zinc, Zn**	**249.9 ± 1.1 µg/mL**

Density: 1.081 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 22, 2024

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

11.2 Lot Expiration Date

- **May 22, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

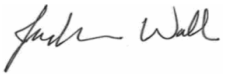
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-2
Lot Number:	U2-MEB733713
Matrix:	3% (w/v) Tartaric acid 1% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**500.0 ± 2.8 µg/mL**		

Density: 1.017 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 01, 2023

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

11.2 Lot Expiration Date

- **June 01, 2028**

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

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

11.3 Period of Validity

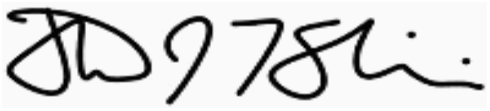
- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 02, 2025

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

11.2 Lot Expiration Date

- **January 02, 2030**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

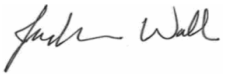
Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrogen Peroxide, 30%
CMOS
(Stabilized)

M-6170

R.Date . 8-05/20/2025

avantor™ | J.T.Baker®

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

Test	Specification	Result
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 600.0 ppb	176.7 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	190.0 – 500.0 ppb	272.3 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 50 ppb	< 1 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.2 µm and greater	≤ 1175 par/ml	202 par/ml
Particle Count – 0.5 µm and greater	≤ 100 par/ml	33 par/ml

>>> Continued on page 3 >>>

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

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

Test	Specification	Result

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

Hydrogen Peroxide, 30%
CMOS
(Stabilized)

avantor™ | J.T.Baker®

Material No.: 2190-03
Batch No.: 24D1961001
Manufactured Date: 2024-04-17
Expiration Date: 2025-10-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H_2O_2)	30.0 - 32.0 %	31.6 %
Color (APHA)	≤ 10	< 5
Free Acid (µeq/g)	≤ 0.2	0.1
Residue after Evaporation	≤ 10 ppm	2 ppm
Ammonium (NH_4)	≤ 3 ppm	< 3 ppm
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Nitrate (NO_3)	≤ 2 ppm	< 2 ppm
Phosphate (PO_4)	≤ 1 ppm	1 ppm
Sulfate (SO_4)	≤ 3 ppm	< 3 ppm
Trace Impurities - Aluminum (Al)	≤ 70.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Chromium (Cr)	≤ 20.0 ppb	1.5 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 5.0 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 250.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	4.6 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

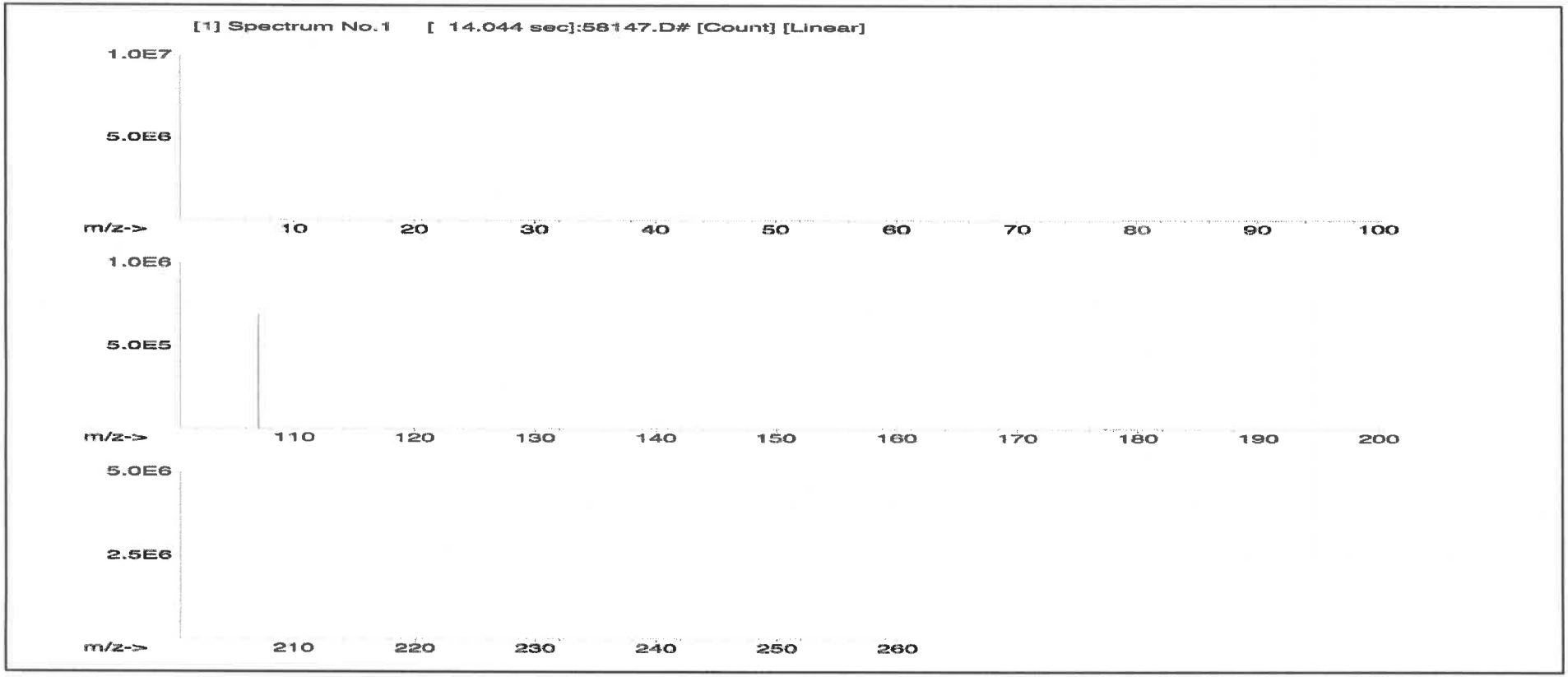
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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

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

(T)= Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

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

CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.26	0.058	Flask Uncertainty	

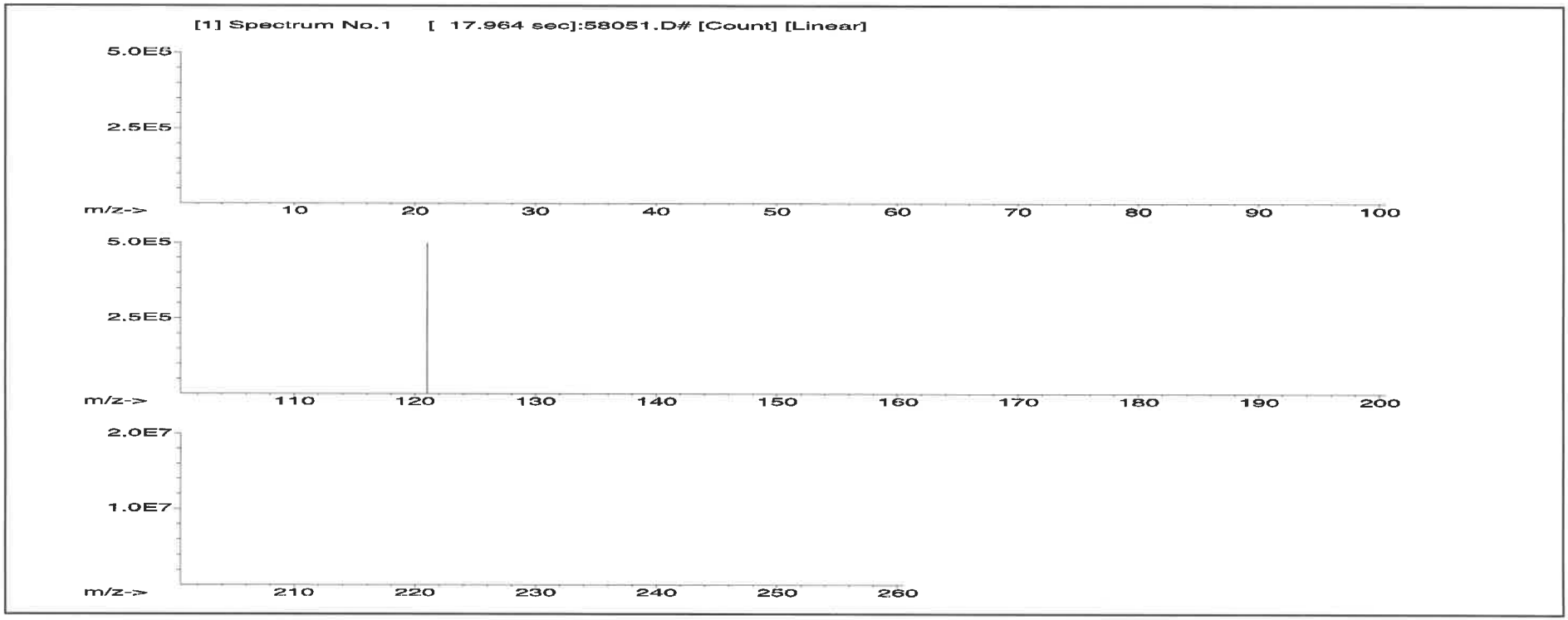
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:



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

APTIM

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

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

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

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

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

M6152

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

APTIM

Instructions for QATS Reference Material: *ICP-AES ICS*

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

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

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

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

M6155

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

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

11.2 Lot Expiration Date

- **March 03, 2028**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R ! 8/5/24

M6023

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

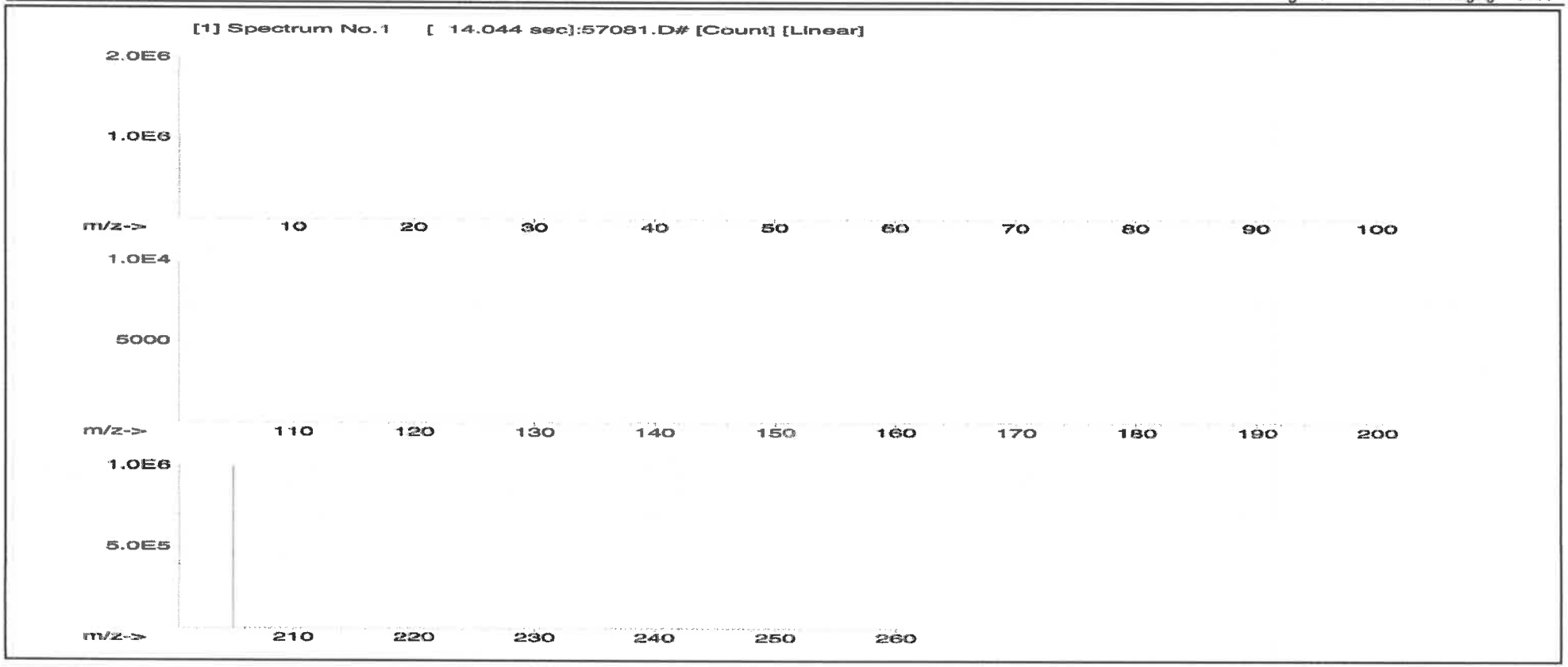
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

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

Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

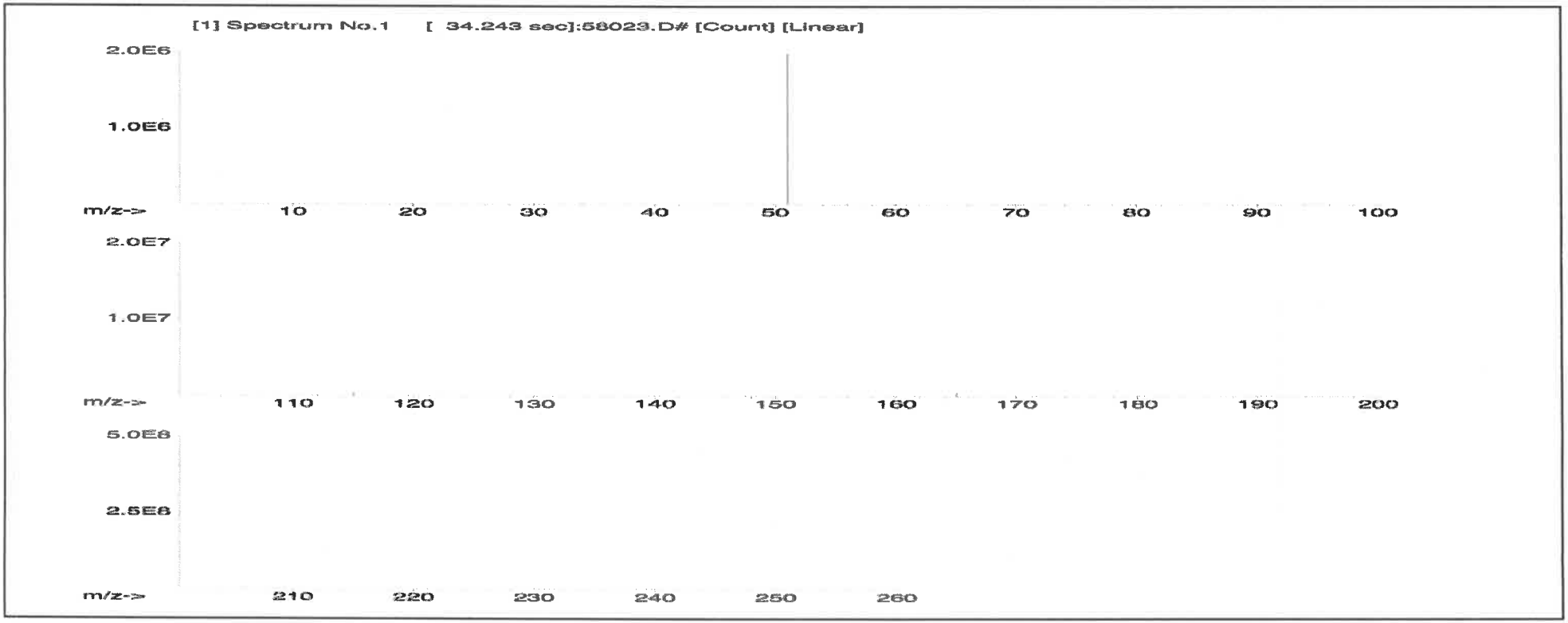
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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



SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2705
COC Number 2045270

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: G Environmental
ADDRESS: 8 Carriage
CITY: Succasunna STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Freehold
PROJECT NO.: LOCATION:
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#:
ADDRESS: 8 Carriage
CITY: Succasunna STATE: NJ ZIP: 07876
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 5 Day Rush DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
- ☐ Level 2 (Results + QC) X NJ Reduced ☐ US EPA CLP
- ☐ Level 3 (Results + QC ☐ NYS ASP A ☐ NYS ASP B
- + Raw Data) edd ☐ Other _____
- X EDD FORMAT Excel _____

ANALYSIS

1: EPH Cat 1 2 3. Arsenic 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (ice)	2	3	4	5	6	7	8	9	COMMENTS
1.	FG1A	Soil		X	7/25/25	0930	1	X									
2.	FG1B			X		0950	1	X		X							
3.	FG2A			X		1100	1			X							
4.	FG2B			X		1115	1			X							
5.	FG2C	Soil		X	7/25/25	1130	1			X							
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/25/25 1300	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: Freehold ZR-Gun #1

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148