Alliance TECHNICAL GROUP

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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LAB CHRONICLE

OrderID:	Q3207	**OrderDate:**	9/25/2025 12:17:00 PM
Client:	CHA Companies, Inc.	**Project:**	NYSOMH Emergency Service
Contact:	Carrie Robinson	**Location:**	J12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3207-01	**Drum#1- Poly Sheeting**	**TCLP**			**09/25/25**			**09/25/25**
			TCLPMetals Group3	6010D		09/30/25	09/30/25	
Q3207-02	**Drum#2 PPE**	**TCLP**			**09/25/25**			**09/25/25**
			TCLPMetals Group3	6010D		09/30/25	09/30/25	
Q3207-03	**Drum#3 Paint Chips**	**TCLP**			**09/25/25**			**09/25/25**
			TCLPMetals Group3	6010D		09/30/25	09/30/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3207 **Order ID:** Q3207

Client: CHA Companies, Inc. **Project ID:** NYSOMH Emergency Service

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : Drum#1- Poly Sheeting								
Q3207-01	Drum#1- Poly Sheeting	TCLP	Lead	583		11.5	60.0	ug/L
Client ID : Drum#2 PPE								
Q3207-02	Drum#2 PPE	TCLP	Lead	55500		11.5	60.0	ug/L
Client ID : Drum#3 Paint Chips								
Q3207-03	Drum#3 Paint Chips	TCLP	Lead	2600		11.5	60.0	ug/L

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SAMPLE DATA

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Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	09/25/25
Project:	NYSOMH Emergency Service	Date Received:	09/25/25
Client Sample ID:	Drum#1- Poly Sheeting	SDG No.:	Q3207
Lab Sample ID:	Q3207-01	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	583		1	11.5	60.0	ug/L	09/30/25 12:30	09/30/25 21:04	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLPMetals Group3				

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:	CHA Companies, Inc.	Date Collected:	09/25/25
Project:	NYSOMH Emergency Service	Date Received:	09/25/25
Client Sample ID:	Drum#2 PPE	SDG No.:	Q3207
Lab Sample ID:	Q3207-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	55500		1	11.5	60.0	ug/L	09/30/25 12:30	09/30/25 21:08	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLPMetals Group3				

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:	CHA Companies, Inc.	Date Collected:	09/25/25
Project:	NYSOMH Emergency Service	Date Received:	09/25/25
Client Sample ID:	Drum#3 Paint Chips	SDG No.:	Q3207
Lab Sample ID:	Q3207-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-92-1	Lead	2600		1	11.5	60.0	ug/L	09/30/25 12:30	09/30/25 21:12	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLPMetals Group3				

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: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	3830	4000	96	90 - 110	P	09/30/2025	13:16	LB137374

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	11.0	12.0	91	80 - 120	P	09/30/2025	13:22	LB137374

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	4850	5000	97	90 - 110	P	09/30/2025	14:08	LB137374
CCV02	Lead	4890	5000	98	90 - 110	P	09/30/2025	15:41	LB137374
CCV03	Lead	4890	5000	98	90 - 110	P	09/30/2025	16:43	LB137374
CCV04	Lead	4870	5000	98	90 - 110	P	09/30/2025	17:39	LB137374
CCV05	Lead	4840	5000	97	90 - 110	P	09/30/2025	18:55	LB137374
CCV06	Lead	4930	5000	99	90 - 110	P	09/30/2025	19:45	LB137374
CCV07	Lead	4820	5000	96	90 - 110	P	09/30/2025	20:35	LB137374
CCV08	Lead	4950	5000	99	90 - 110	P	09/30/2025	21:25	LB137374
CCV09	Lead	4860	5000	97	90 - 110	P	09/30/2025	22:14	LB137374
CCV10	Lead	5000	5000	100	90 - 110	P	09/30/2025	23:00	LB137374

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	3860	4000	96	90 - 110	P	10/01/2025	12:33	LB137389

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	11.1	12.0	93	80 - 120	P	10/01/2025	12:41	LB137389

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	4950	5000	99	90 - 110	P	10/01/2025	13:10	LB137389
CCV02	Lead	4960	5000	99	90 - 110	P	10/01/2025	14:02	LB137389
CCV03	Lead	5050	5000	101	90 - 110	P	10/01/2025	15:00	LB137389
CCV04	Lead	5000	5000	100	90 - 110	P	10/01/2025	15:51	LB137389
CCV05	Lead	4960	5000	99	90 - 110	P	10/01/2025	16:42	LB137389
CCV06	Lead	5030	5000	100	90 - 110	P	10/01/2025	17:32	LB137389
CCV07	Lead	4970	5000	99	90 - 110	P	10/01/2025	18:28	LB137389
CCV08	Lead	4860	5000	97	90 - 110	P	10/01/2025	19:19	LB137389

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	13.3	12.0	111	65 - 135	P	09/30/2025	13:39	LB137374
CRI01	Lead	11.5	12.0	96	65 - 135	P	10/01/2025	12:49	LB137389

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	2.30	+/-6	U	12.0	P	09/30/2025	13:32	LB137374

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	2.30	+/-6	U	12.0	P	09/30/2025	14:18	LB137374
CCB02	Lead	2.30	+/-6	U	12.0	P	09/30/2025	15:50	LB137374
CCB03	Lead	2.30	+/-6	U	12.0	P	09/30/2025	16:53	LB137374
CCB04	Lead	2.30	+/-6	U	12.0	P	09/30/2025	17:43	LB137374
CCB05	Lead	2.30	+/-6	U	12.0	P	09/30/2025	18:59	LB137374
CCB06	Lead	2.30	+/-6	U	12.0	P	09/30/2025	19:49	LB137374
CCB07	Lead	2.30	+/-6	U	12.0	P	09/30/2025	20:39	LB137374
CCB08	Lead	2.30	+/-6	U	12.0	P	09/30/2025	21:29	LB137374
CCB09	Lead	2.30	+/-6	U	12.0	P	09/30/2025	22:18	LB137374
CCB10	Lead	2.30	+/-6	U	12.0	P	09/30/2025	23:04	LB137374

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Lead	2.30	+/-6	U	12.0	P	10/01/2025	12:45	LB137389

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Lead	2.30	+/-6	U	12.0	P	10/01/2025	13:14	LB137389
CCB02	Lead	2.30	+/-6	U	12.0	P	10/01/2025	14:06	LB137389
CCB03	Lead	2.30	+/-6	U	12.0	P	10/01/2025	15:04	LB137389
CCB04	Lead	2.30	+/-6	U	12.0	P	10/01/2025	15:55	LB137389
CCB05	Lead	2.30	+/-6	U	12.0	P	10/01/2025	16:46	LB137389
CCB06	Lead	2.30	+/-6	U	12.0	P	10/01/2025	17:41	LB137389
CCB07	Lead	2.30	+/-6	U	12.0	P	10/01/2025	18:32	LB137389
CCB08	Lead	2.30	+/-6	U	12.0	P	10/01/2025	19:23	LB137389

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169870TB		**WATER**		**Batch Number:**	**PB169911**		**Prep Date:**	**09/30/2025**	
	Lead	11.5	<30	U	60.0	P	10/01/2025	13:45	LB137389

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169911BL		**WATER**		**Batch Number:**	**PB169911**		**Prep Date:**	**09/30/2025**	
	Lead	11.5	<30	U	60.0	P	09/30/2025	20:14	LB137374

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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	Lead	-6.58			-12	12	09/30/2025	13:44	LB137374
ICSAB01	Lead	38.9	49.0	79	37	61	09/30/2025	13:56	LB137374
ICSA	Lead	-19.0			-12	12	09/30/2025	14:00	LB137374
ICSAB	Lead	28.4	49.0	58	37	61	09/30/2025	14:04	LB137374
ICSA01	Lead	0.44			-12	12	10/01/2025	12:53	LB137389
ICSAB01	Lead	48.5	49.0	99	37	61	10/01/2025	12:57	LB137389
ICSA	Lead	2.04			-12	12	10/01/2025	13:02	LB137389
ICSAB	Lead	64.1	49.0	131	37	61	10/01/2025	13:06	LB137389

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: CHA Companies, Inc. **level:** low **sdg no.:** Q3207

contract: CLOU03 **lab code:** ACE

matrix: Water **sample id:** Q3233-01 **client id:** 0926-01MS

Percent Solids for Sample: NA **Spiked ID:** Q3233-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	4890		27.5	J	5000	97		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CHA Companies, Inc. **level:** low **sdg no.:** Q3207

contract: CLOU03 **lab code:** ACE

matrix: Water **sample id:** Q3233-01 **client id:** 0926-01MSD

Percent Solids for Sample: NA **Spiked ID:** Q3233-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Lead	ug/L	75 - 125	4860		27.5	J	5000	97		P

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Metals
- 5b -

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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: CHA Companies, Inc. **Level:** LOW **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3233-01 **Client ID:** 0926-01DUP

Percent Solids for Sample: NA **Duplicate ID** Q3233-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	27.5	J	18.0	J	42		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: CHA Companies, Inc. **Level:** LOW **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3233-01MS **Client ID:** 0926-01MSD

Percent Solids for Sample: NA **Duplicate ID** Q3233-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Lead	ug/L	20	4890		4860		1		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169911BS							
Lead	ug/L	5000	4530		91	80 - 120	P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

0926-01L

Lab Name: Alliance **Contract:** CLOU03

Lab Code: ACE **Lb No.:** lb137374 **Lab Sample ID :** Q3233-01L **SDG No.:** Q3207

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Lead	27.5	J	300	U	100.0		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **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
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000

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Fax : 908 789 8922

Metals

- 12 -

LINEAR RANGES

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE **Case No.:** Q3207 **SAS No.:** Q3207

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

Analyte	Integration Time (sec)	LDR ug/L
Lead	10	225000

METAL PREPARATION & ANALYICAL SUMMARY

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

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: CHA Companies, Inc. **SDG No.:** Q3207

Contract: CLOU03 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB169911**						
PB169870TB	PB169870TB	MB	WATER	09/30/2025	5.0	25.0	
PB169911BL	PB169911BL	MB	WATER	09/30/2025	5.0	25.0	
PB169911BS	PB169911BS	LCS	WATER	09/30/2025	5.0	25.0	
Q3207-01	Drum#1- Poly Sheeting	SAM	WATER	09/30/2025	5.0	25.0	
Q3207-02	Drum#2 PPE	SAM	WATER	09/30/2025	5.0	25.0	
Q3207-03	Drum#3 Paint Chips	SAM	WATER	09/30/2025	5.0	25.0	
Q3233-01DUP	0926-01DUP	DUP	WATER	09/30/2025	5.0	25.0	
Q3233-01MS	0926-01MS	MS	WATER	09/30/2025	5.0	25.0	
Q3233-01MSD	0926-01MSD	MSD	WATER	09/30/2025	5.0	25.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: CHA Companies, Inc. **Contract:** CLOU03

Lab code: ACE **Sdg no.:** Q3207

Instrument id number: **Method:** **Run number:** LB137374

Start date: 09/30/2025 **End date:** 09/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1251	Pb
S1	S1	1	1256	Pb
S2	S2	1	1300	Pb
S3	S3	1	1304	Pb
S4	S4	1	1308	Pb
S5	S5	1	1312	Pb
ICV01	ICV01	1	1316	Pb
LLICV01	LLICV01	1	1322	Pb
ICB01	ICB01	1	1332	Pb
CRI01	CRI01	1	1339	Pb
ICSA01	ICSA01	1	1344	Pb
ICSAB01	ICSAB01	1	1356	Pb
ICSA	ICSA	20	1400	Pb
ICSAB	ICSAB	20	1404	Pb
CCV01	CCV01	1	1408	Pb
CCB01	CCB01	1	1418	Pb
CCV02	CCV02	1	1541	Pb
CCB02	CCB02	1	1550	Pb
CCV03	CCV03	1	1643	Pb
CCB03	CCB03	1	1653	Pb
CCV04	CCV04	1	1739	Pb
CCB04	CCB04	1	1743	Pb
CCV05	CCV05	1	1855	Pb
CCB05	CCB05	1	1859	Pb
CCV06	CCV06	1	1945	Pb
CCB06	CCB06	1	1949	Pb
Q3233-01DUP	0926-01DUP	1	1954	Pb
Q3233-01L	0926-01L	5	1958	Pb
Q3233-01MS	0926-01MS	1	2002	Pb
Q3233-01MSD	0926-01MSD	1	2006	Pb
PB169911BL	PB169911BL	1	2014	Pb
PB169911BS	PB169911BS	1	2018	Pb
CCV07	CCV07	1	2035	Pb
CCB07	CCB07	1	2039	Pb
Q3207-01	Drum#1- Poly Sheeting	1	2104	Pb
Q3207-02	Drum#2 PPE	1	2108	Pb
Q3207-03	Drum#3 Paint Chips	1	2112	Pb
CCV08	CCV08	1	2125	Pb
CCB08	CCB08	1	2129	Pb
CCV09	CCV09	1	2214	Pb
CCB09	CCB09	1	2218	Pb

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metals
- 14 -
ANALYSIS RUN LOG

Client: CHA Companies, Inc. **Contract:** CLOU03

Lab code: ACE **Sdg no.:** Q3207

Instrument id number: **Method:** **Run number:** LB137374

Start date: 09/30/2025 **End date:** 09/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	2300	Pb
CCB10	CCB10	1	2304	Pb

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metals
- 14 -
ANALYSIS RUN LOG

Client: CHA Companies, Inc. **Contract:** CLOU03

Lab code: ACE **Sdg no.:** Q3207

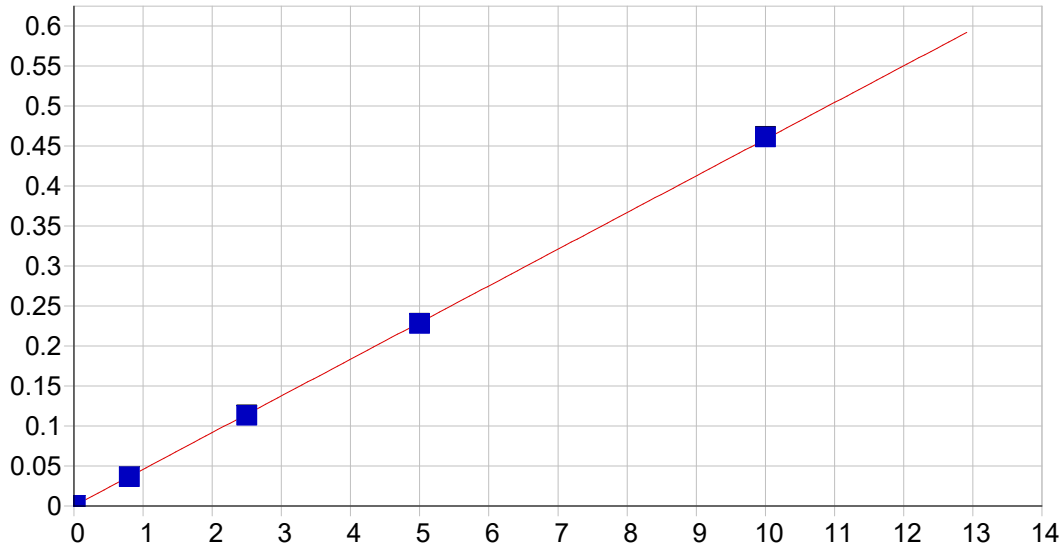
Instrument id number: **Method:** **Run number:** LB137389

Start date: 10/01/2025 **End date:** 10/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1208	Pb
S1	S1	1	1212	Pb
S2	S2	1	1217	Pb
S3	S3	1	1221	Pb
S4	S4	1	1225	Pb
S5	S5	1	1229	Pb
ICV01	ICV01	1	1233	Pb
LLICV01	LLICV01	1	1241	Pb
ICB01	ICB01	1	1245	Pb
CRI01	CRI01	1	1249	Pb
ICSA01	ICSA01	1	1253	Pb
ICSAB01	ICSAB01	1	1257	Pb
ICSA	ICSA	20	1302	Pb
ICSAB	ICSAB	20	1306	Pb
CCV01	CCV01	1	1310	Pb
CCB01	CCB01	1	1314	Pb
PB169870TB	PB169870TB	1	1345	Pb
CCV02	CCV02	1	1402	Pb
CCB02	CCB02	1	1406	Pb
CCV03	CCV03	1	1500	Pb
CCB03	CCB03	1	1504	Pb
CCV04	CCV04	1	1551	Pb
CCB04	CCB04	1	1555	Pb
CCV05	CCV05	1	1642	Pb
CCB05	CCB05	1	1646	Pb
CCV06	CCV06	1	1732	Pb
CCB06	CCB06	1	1741	Pb
CCV07	CCV07	1	1828	Pb
CCB07	CCB07	1	1832	Pb
CCV08	CCV08	1	1919	Pb
CCB08	CCB08	1	1923	Pb

METAL
RAW DATA

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



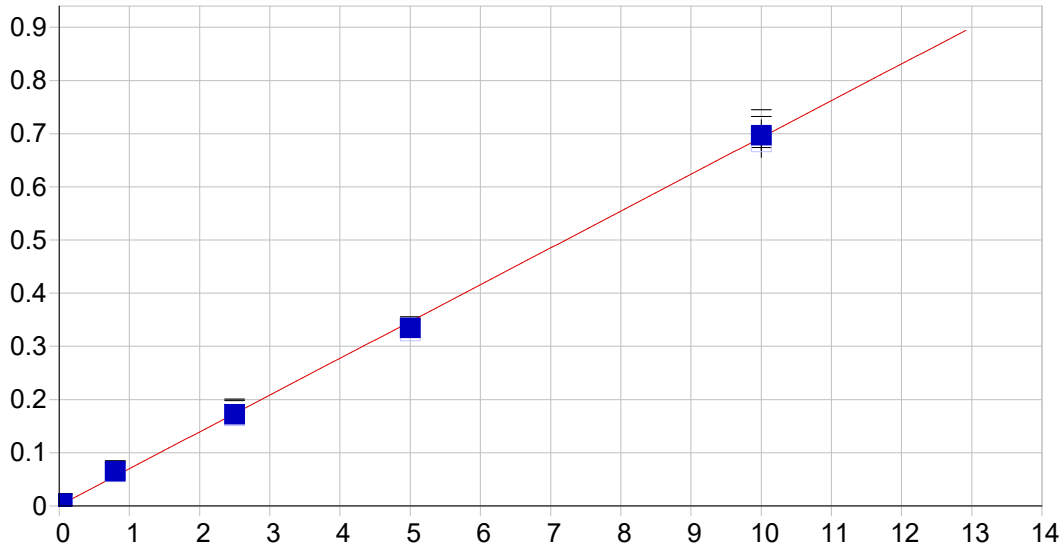
As 189.042 {479}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.045852	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002893		
Predicted MQL:	0.009643		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.02000	.01998	-.000	-.080	.00100	.000	1
S3	2.5000	2.4705	-.030	-1.18	.11324	.000	1
S4	5.0000	4.9706	-.029	-.587	.22776	.000	1
S5	10.000	10.064	.064	.641	.46107	.000	1
S2	.80000	.79483	-.005	-.646	.03649	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



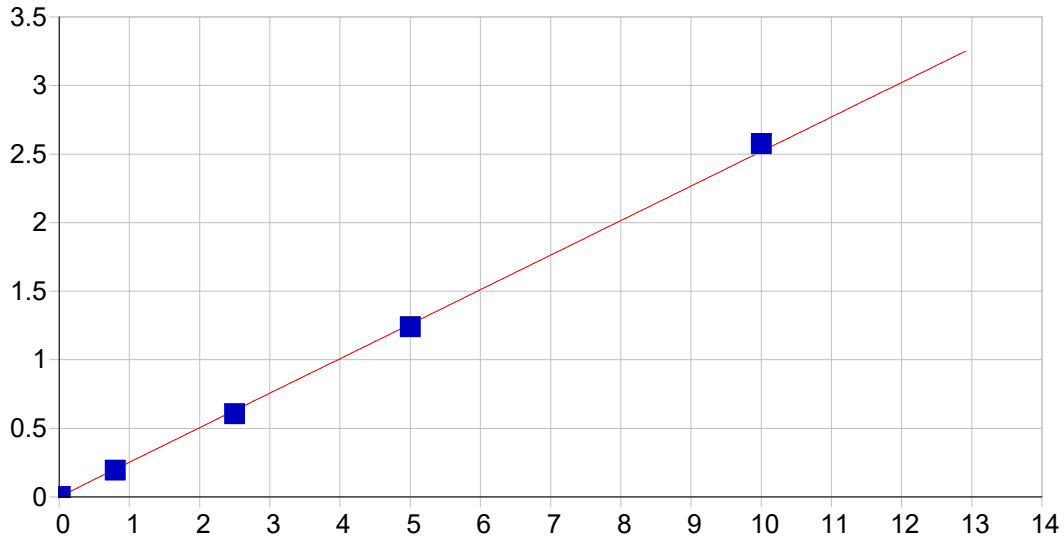
Tl 190.856 {477}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000728	Re-Slope:	1.000000
A1 (Gain):	0.069207	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999223	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.002513		
Predicted MQL:	0.008375		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00073	.000	1
S1	.04000	.04760	.008	19.0	.00385	.000	1
S3	2.5000	2.4797	-.020	-.812	.16919	.010	1
S4	5.0000	4.8266	-.173	-3.47	.32845	.003	1
S5	10.000	10.062	.062	.616	.68444	.029	1
S2	.80000	.92482	.125	15.6	.06372	.002	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



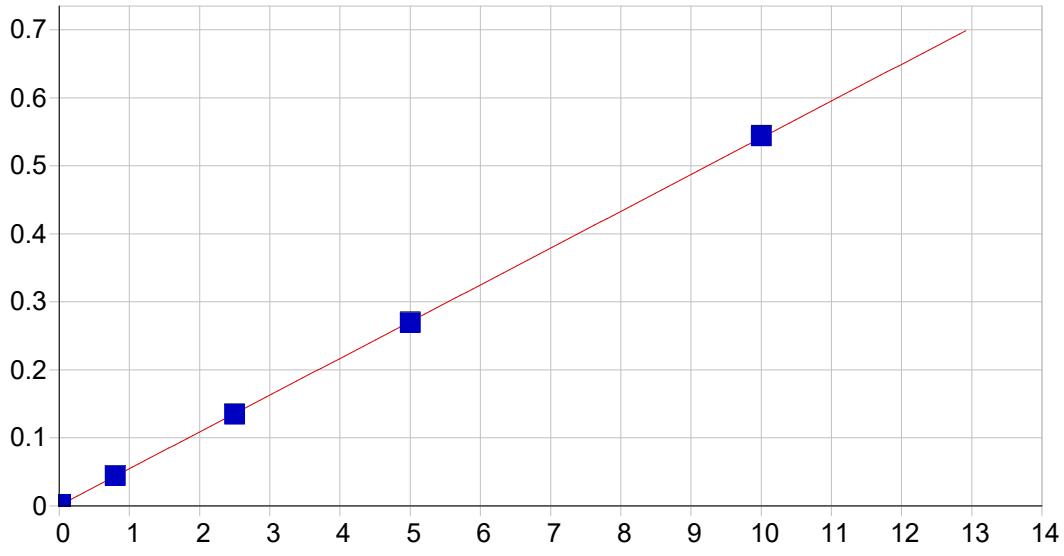
Pb 220.353 {453}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001003	Re-Slope:	1.000000
A1 (Gain):	0.251707	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999683	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.001445		
Predicted MQL:	0.004816		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00100	.000	1
S1	.01200	.01122	-.001	-6.54	.00377	.000	1
S3	2.5000	2.4013	-.099	-3.95	.60474	.001	1
S4	5.0000	4.9159	-.084	-1.68	1.2370	.002	1
S5	10.000	10.218	.218	2.18	2.5701	.003	1
S2	.80000	.76572	-.034	-4.29	.19352	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



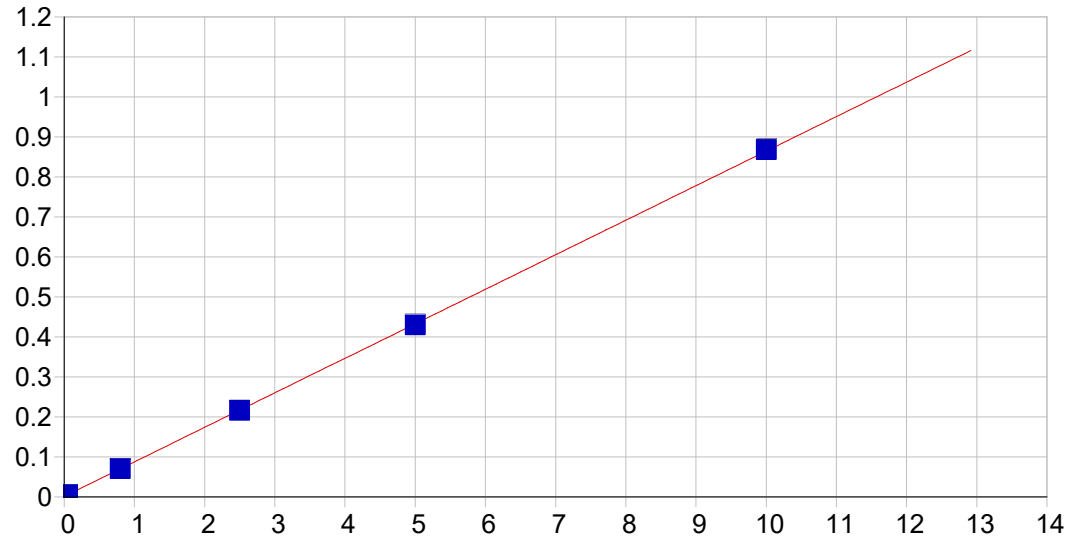
Se 196.090 {472}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000611	Re-Slope:	1.000000
A1 (Gain):	0.054065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.003652		
Predicted MQL:	0.012173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00061	.000	1
S1	.02000	.02122	.001	6.10	.00176	.000	1
S3	2.5000	2.4745	-.026	-1.02	.13435	.001	1
S4	5.0000	4.9681	-.032	-.637	.26914	.001	1
S5	10.000	10.048	.048	.482	.54371	.001	1
S2	.80000	.80797	.008	.997	.04428	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



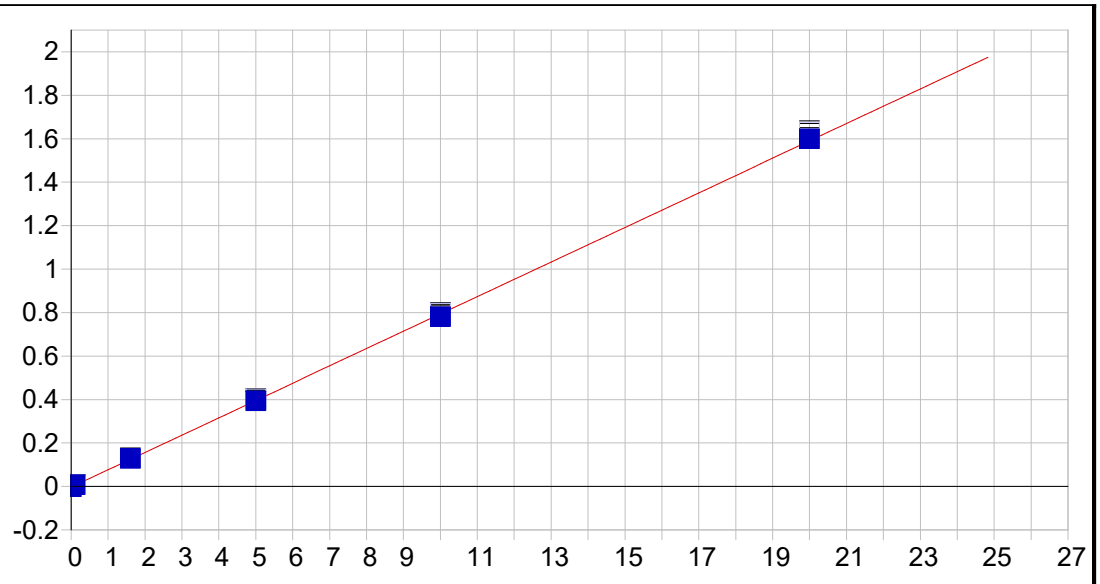
Sb 206.833 {463}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001225	Re-Slope:	1.000000
A1 (Gain):	0.086307	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.002768		
Predicted MQL:	0.009227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00122	.000	1
S1	.05000	.05302	.003	6.03	.00581	.000	1
S3	2.5000	2.4839	-.016	-.642	.21619	.000	1
S4	5.0000	4.9644	-.036	-.712	.43086	.001	1
S5	10.000	10.048	.048	.475	.87074	.001	1
S2	.80000	.80110	.001	.137	.07055	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



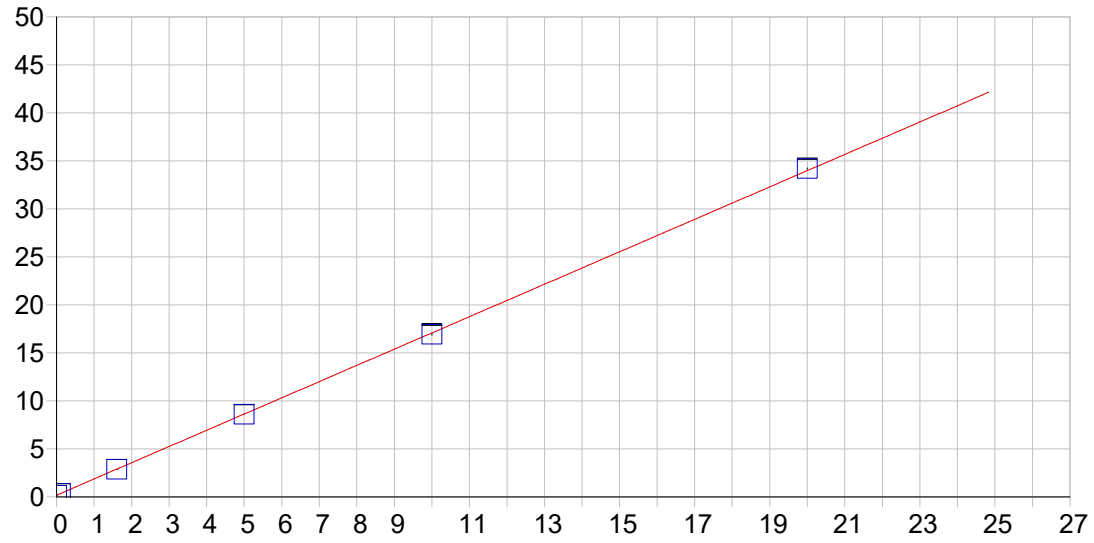
Al 396.152 { 85}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002706	Re-Slope:	1.000000
A1 (Gain):	0.079633	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.022878		
Predicted MQL:	0.076261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00271	.001	1
S1	.10000	.12667	.027	26.7	.00800	.000	1
S3	5.0000	4.9791	-.021	-.418	.40152	.002	1
S4	10.000	9.8385	-.162	-1.62	.79621	.004	1
S5	20.000	20.117	.117	.587	1.6302	.006	1
S2	1.6000	1.6369	.037	2.31	.13012	.002	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



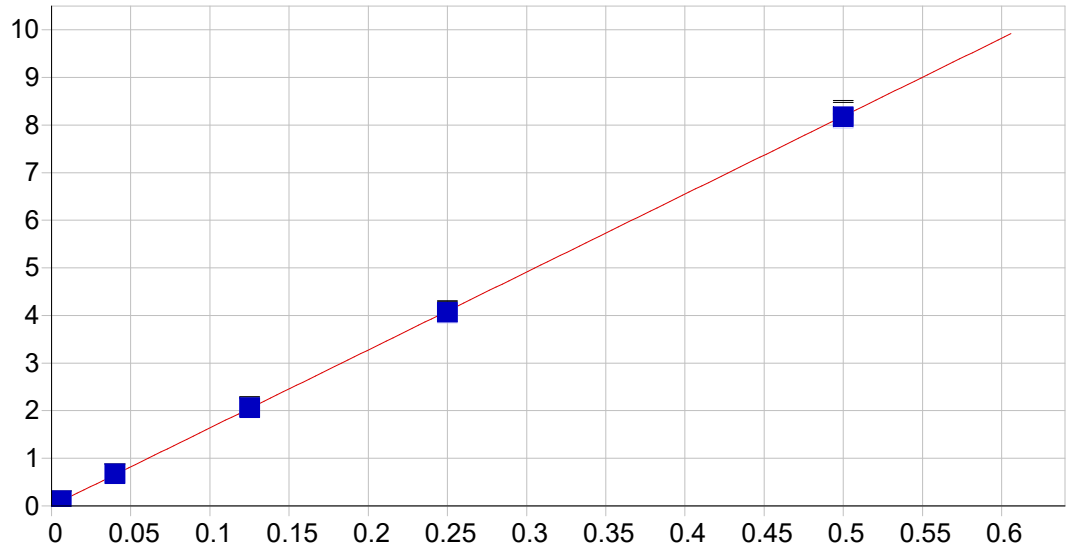
Ba 493.409 { 68}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.181561	Re-Slope:	1.000000
A1 (Gain):	1.690103	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000862		
Predicted MDL:	0.002497		
Predicted MQL:	0.008322		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.18156	.002	1
S1	.10000	.10065	.001	.652	.35167	.005	1
S3	5.0000	4.9735	-.027	-.531	8.5872	.013	1
S4	10.000	9.9196	-.080	-.804	16.947	.102	1
S5	20.000	20.123	.123	.617	34.192	.064	1
S2	1.6000	1.5828	-.017	-1.07	2.8567	.006	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



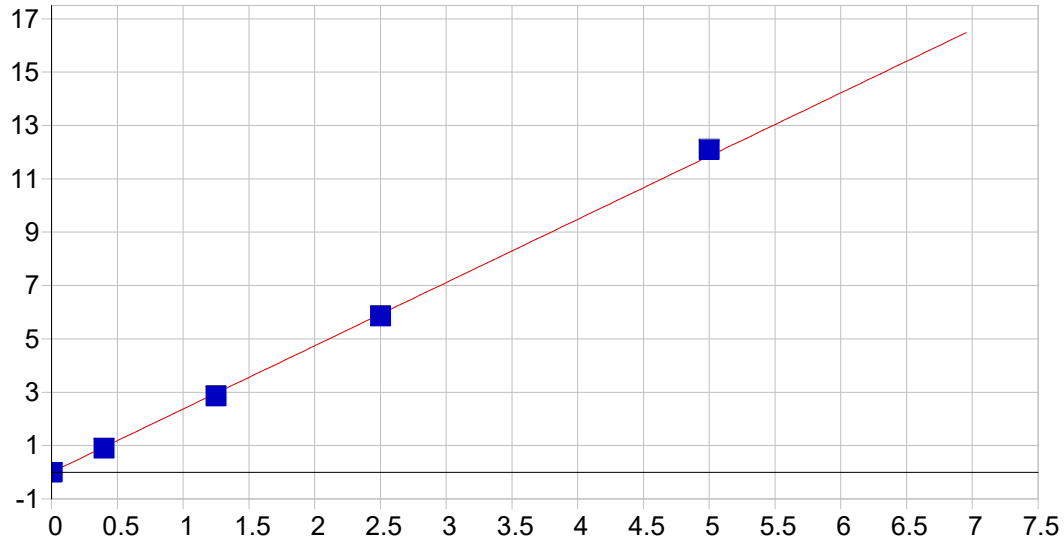
Be 234.861 {144}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001092	Re-Slope:	1.000000
A1 (Gain):	16.370982	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000431		
Predicted MDL:	0.000091		
Predicted MQL:	0.000303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00108	.001	1
S1	.00600	.00635	.000	5.78	.10426	.002	1
S3	.12500	.12598	.001	.788	2.0544	.020	1
S4	.25000	.24820	-.002	-.719	4.0461	.034	1
S5	.50000	.49928	-.001	-.144	8.1381	.132	1
S2	.04000	.04119	.001	2.97	.67245	.002	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



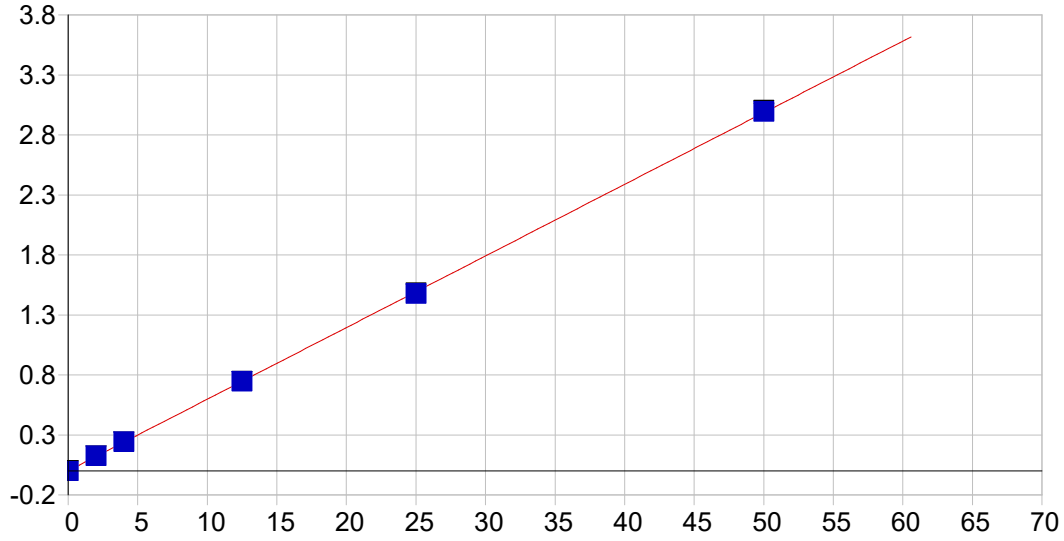
Cd 226.502 {449}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000922	Re-Slope:	1.000000
A1 (Gain):	2.370603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.000526		
Predicted MDL:	0.000120		
Predicted MQL:	0.000400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00092	.000	1
S1	.00600	.00576	-.000	-3.99	.01278	.000	1
S3	1.2500	1.2029	-.047	-3.77	2.8525	.006	1
S4	2.5000	2.4680	-.032	-1.28	5.8536	.006	1
S5	5.0000	5.1015	.102	2.03	12.101	.012	1
S2	.40000	.37787	-.022	-5.53	.89549	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



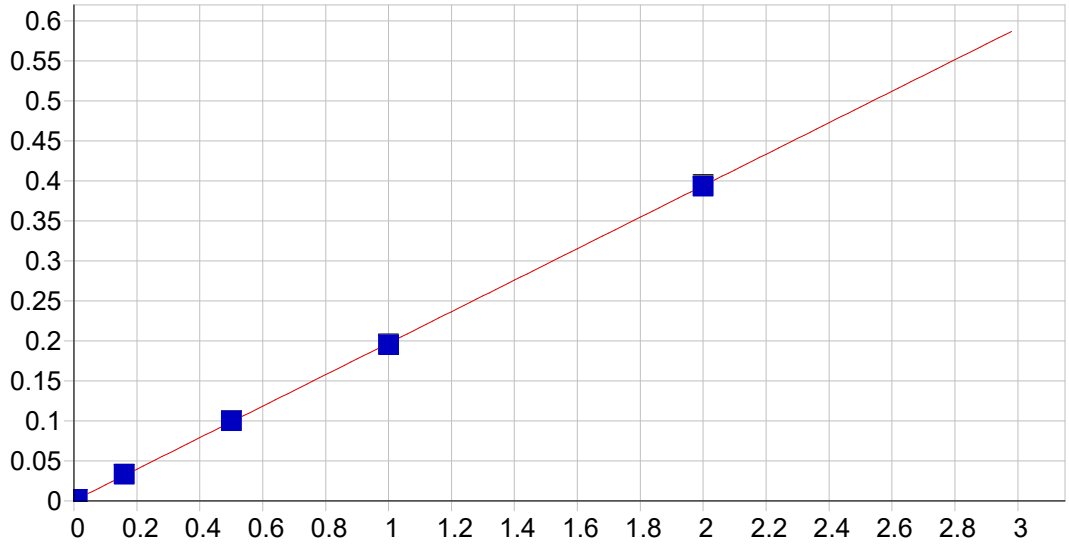
Ca 373.690 { 90}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000532	Re-Slope:	1.000000
A1 (Gain):	0.059690	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000281		
Predicted MDL:	0.024367		
Predicted MQL:	0.081223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00009	-.000	.000	.00053	.001	1
S2	4.0000	4.0449	.045	1.12	.24197	.001	1
S3	12.500	12.490	-.010	-.081	.74605	.001	1
S4	25.000	24.739	-.261	-1.04	1.4772	.004	1
S5	50.000	50.140	.140	.279	2.9933	.012	1
S1	2.0000	2.0866	.087	4.33	.12508	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



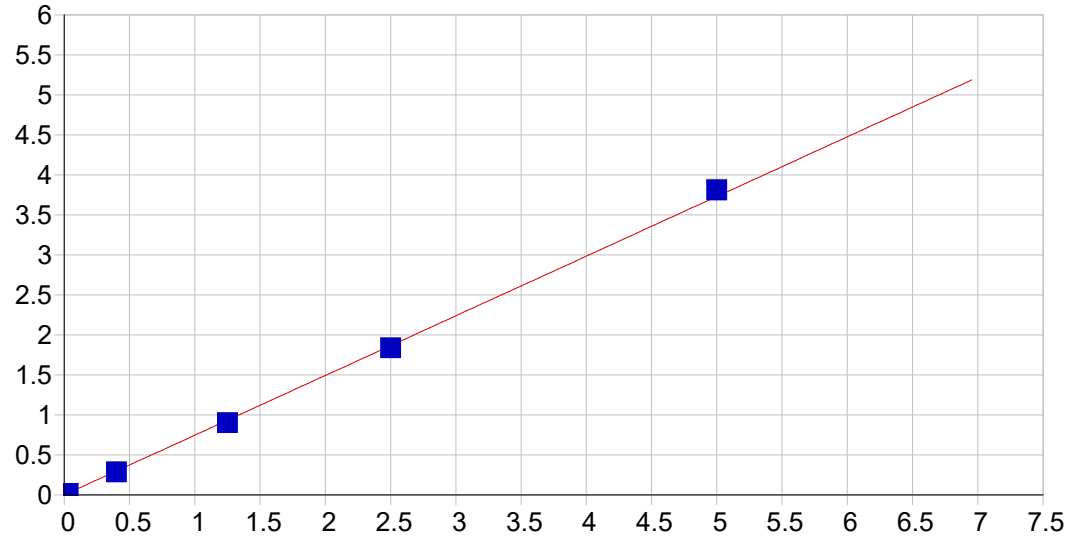
Cr 267.716 {126}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000342	Re-Slope:	1.000000
A1 (Gain):	0.196834	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.000627		
Predicted MQL:	0.002091		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.01000	.00953	-.000	-4.69	.00222	.000	1
S3	.50000	.50686	.007	1.37	.10019	.000	1
S4	1.0000	.98991	-.010	-1.01	.19535	.001	1
S5	2.0000	1.9963	-.004	-.186	.39359	.002	1
S2	.16000	.16743	.007	4.64	.03332	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



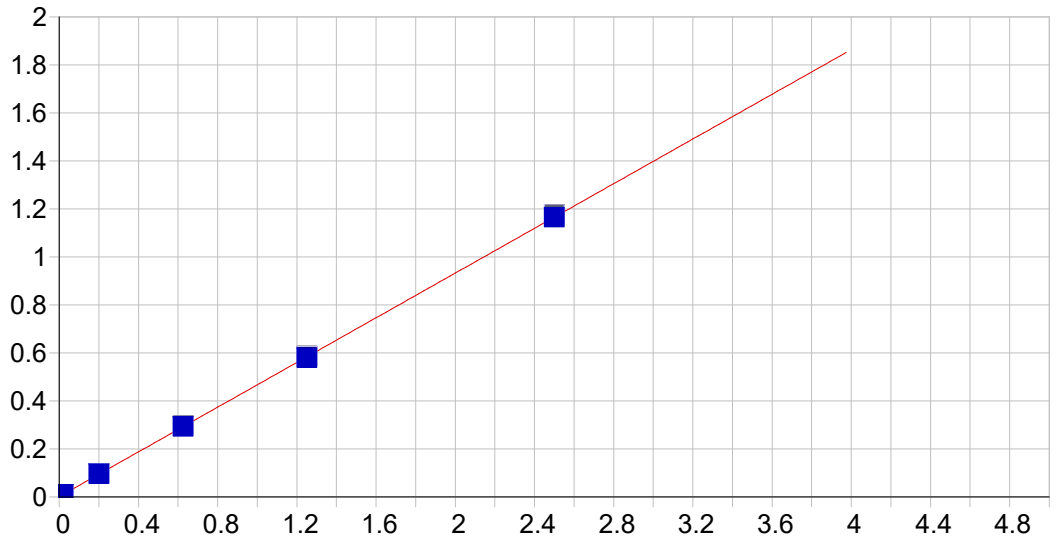
Co 228.616 {448}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000514	Re-Slope:	1.000000
A1 (Gain):	0.745945	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999723	Status:	OK.
Std Error of Est:	0.000357		
Predicted MDL:	0.000336		
Predicted MQL:	0.001120		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00052	.000	1
S1	.03000	.02919	-.001	-2.70	.02219	.000	1
S3	1.2500	1.2059	-.044	-3.53	.90163	.001	1
S4	2.5000	2.4604	-.040	-1.58	1.8390	.002	1
S5	5.0000	5.1024	.102	2.05	3.8130	.006	1
S2	.40000	.38208	-.018	-4.48	.28603	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



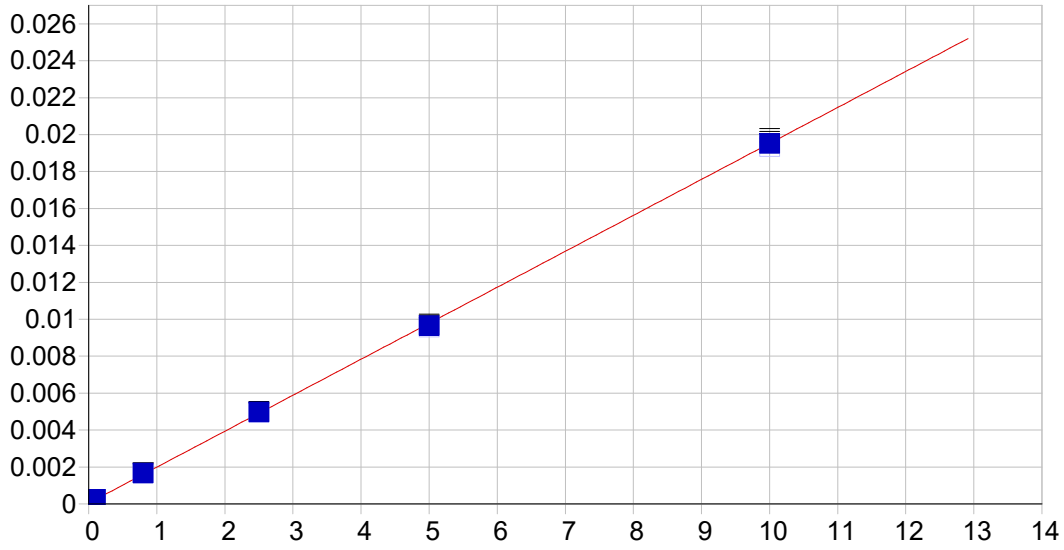
Cu 224.700 {450}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001552	Re-Slope:	1.000000
A1 (Gain):	0.465574	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.000718		
Predicted MQL:	0.002392		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00155	.000	1
S1	.02000	.02146	.001	7.28	.01165	.000	1
S3	.62500	.62583	.001	.132	.29535	.000	1
S4	1.2500	1.2429	-.007	-.567	.58507	.001	1
S5	2.5000	2.5010	.001	.041	1.1757	.001	1
S2	.20000	.20378	.004	1.89	.09720	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



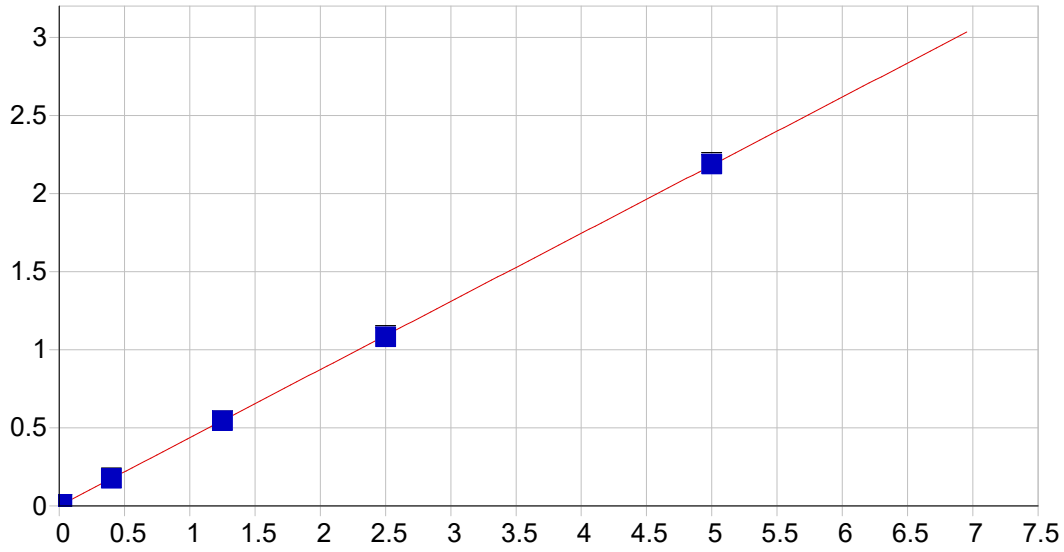
Fe 240.488 {140}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000041	Re-Slope:	1.000000
A1 (Gain):	0.001948	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.015091		
Predicted MQL:	0.050303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00004	.000	1
S1	.10000	.10322	.003	3.22	.00024	.000	1
S3	2.5000	2.5332	.033	1.33	.00493	.000	1
S4	5.0000	4.9327	-.067	-1.35	.00957	.000	1
S5	10.000	9.9952	-.005	-.048	.01935	.000	1
S2	.80000	.83570	.036	4.46	.00166	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



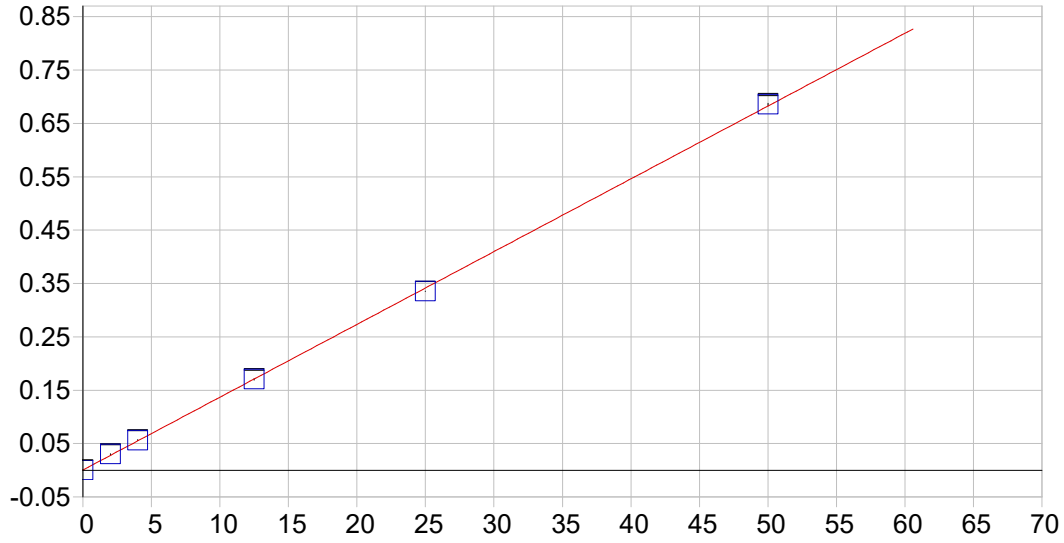
Mn 257.610 {131}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000415	Re-Slope:	1.000000
A1 (Gain):	0.436151	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.001192		
Predicted MQL:	0.003973		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00041	.000	1
S1	.02000	.02086	.001	4.28	.00951	.001	1
S3	1.2500	1.2495	-.000	-.039	.54550	.001	1
S4	2.5000	2.4794	-.021	-.823	1.0820	.007	1
S5	5.0000	5.0151	.015	.301	2.1882	.010	1
S2	.40000	.40512	.005	1.28	.17714	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



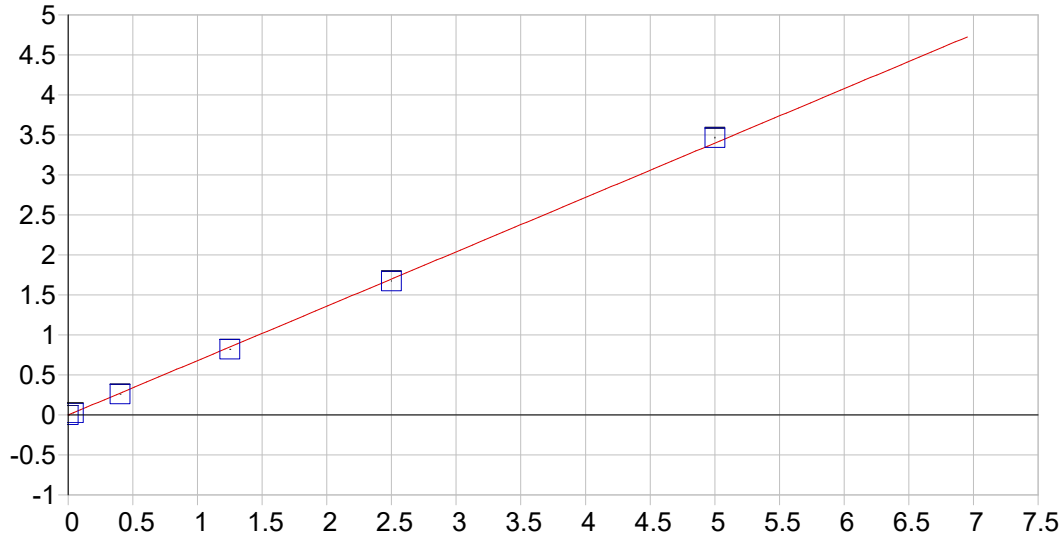
Mg 279.079 {121}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000492	Re-Slope:	1.000000
A1 (Gain):	0.013641	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.049959		
Predicted MQL:	0.166530		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00049	.001	1
S2	4.0000	4.0825	.082	2.06	.05618	.001	1
S3	12.500	12.459	-.041	-.326	.17045	.001	1
S4	25.000	24.557	-.443	-1.77	.33546	.000	1
S5	50.000	50.227	.227	.454	.68563	.002	1
S1	2.0000	2.1745	.175	8.73	.03015	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



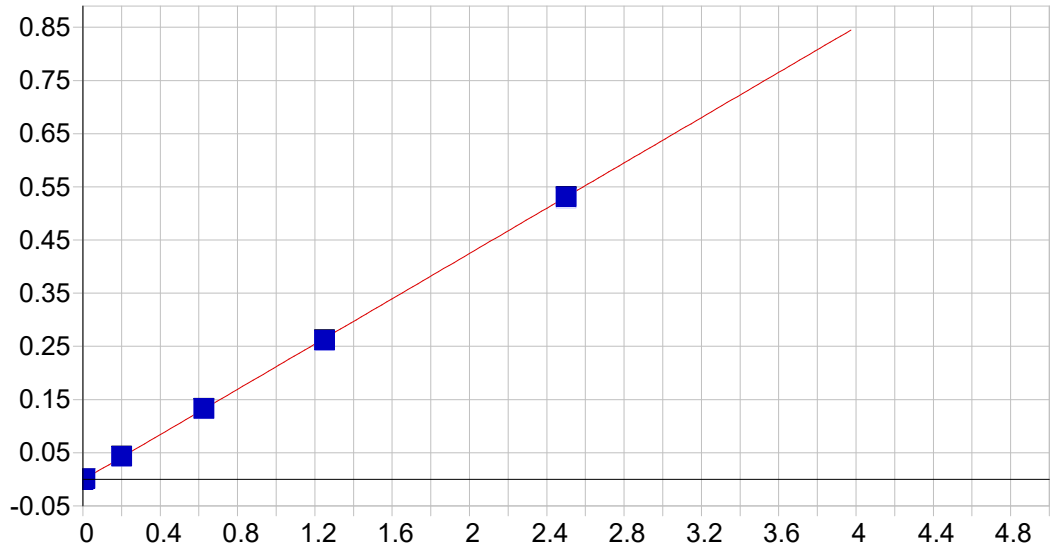
Ni 231.604 {446}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000874	Re-Slope:	1.000000
A1 (Gain):	0.679733	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.000362		
Predicted MDL:	0.000428		
Predicted MQL:	0.001426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00087	.000	1
S1	.04000	.03916	-.001	-2.10	.02574	.000	1
S3	1.2500	1.2059	-.044	-3.53	.81881	.001	1
S4	2.5000	2.4627	-.037	-1.49	1.6731	.002	1
S5	5.0000	5.0985	.098	1.97	3.4647	.006	1
S2	.40000	.38382	-.016	-4.04	.26002	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



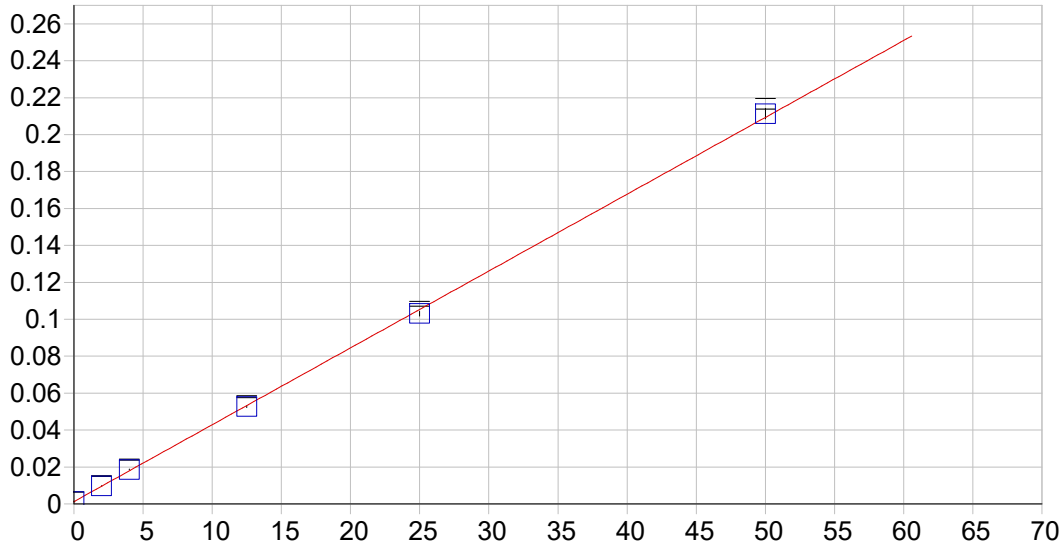
Ag 328.068 {103}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001102	Re-Slope:	1.000000
A1 (Gain):	0.212899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.000931		
Predicted MQL:	0.003103		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00110	.000	1
S1	.01000	.01037	.000	3.71	.00109	.000	1
S3	.62500	.62987	.005	.780	.13235	.000	1
S4	1.2500	1.2359	-.014	-1.13	.26072	.000	1
S5	2.5000	2.5001	.000	.003	.52858	.001	1
S2	.20000	.20879	.009	4.40	.04314	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



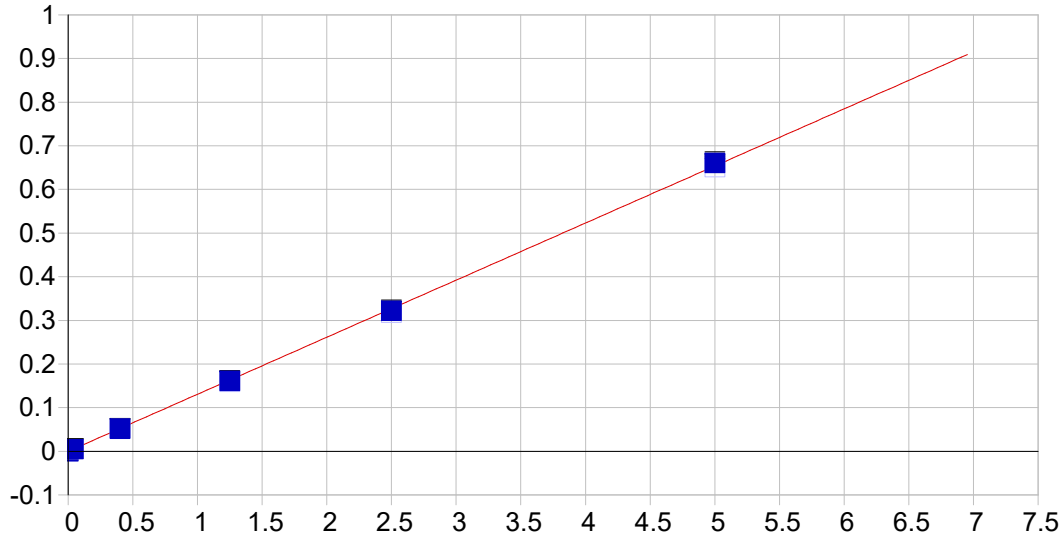
Na 589.592 { 57}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001279	Re-Slope:	1.000000
A1 (Gain):	0.004161	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.049949		
Predicted MQL:	0.166496		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	.00128	.000	1
S2	4.0000	4.1672	.167	4.18	.01862	.000	1
S3	12.500	12.373	-.127	-1.01	.05277	.001	1
S4	25.000	24.458	-.542	-2.17	.10305	.001	1
S5	50.000	50.477	.477	.954	.21132	.003	1
S1	2.0000	2.0250	.025	1.25	.00971	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



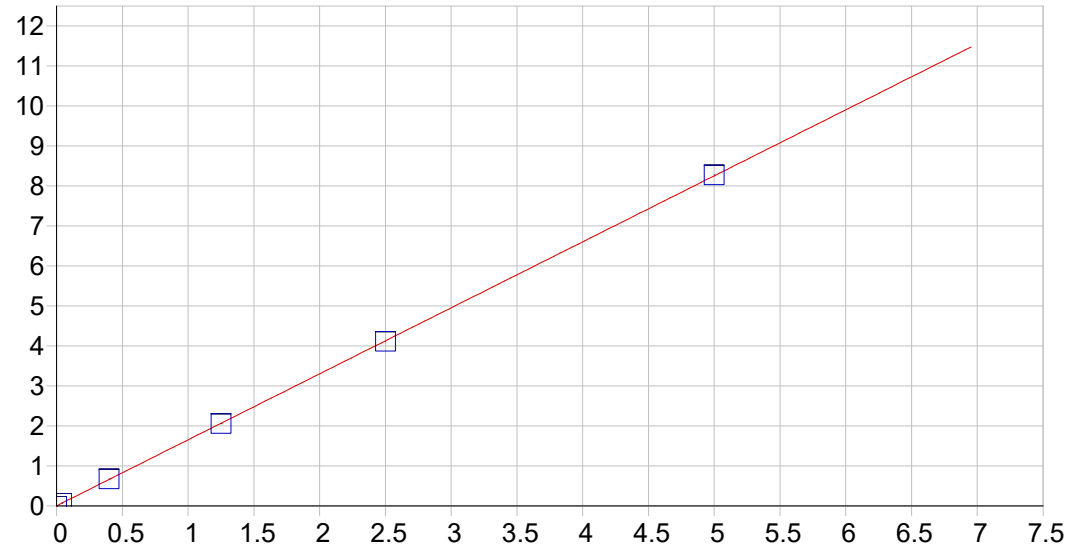
V 292.402 {115}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000237	Re-Slope:	1.000000
A1 (Gain):	0.130813	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.006124		
Predicted MQL:	0.020413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.001	1
S1	.04000	.04123	.001	3.07	.00496	.000	1
S3	1.2500	1.2355	-.014	-1.16	.15900	.001	1
S4	2.5000	2.4635	-.037	-1.46	.31725	.002	1
S5	5.0000	5.0526	.053	1.05	.65117	.003	1
S2	.40000	.39727	-.003	-.683	.05097	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



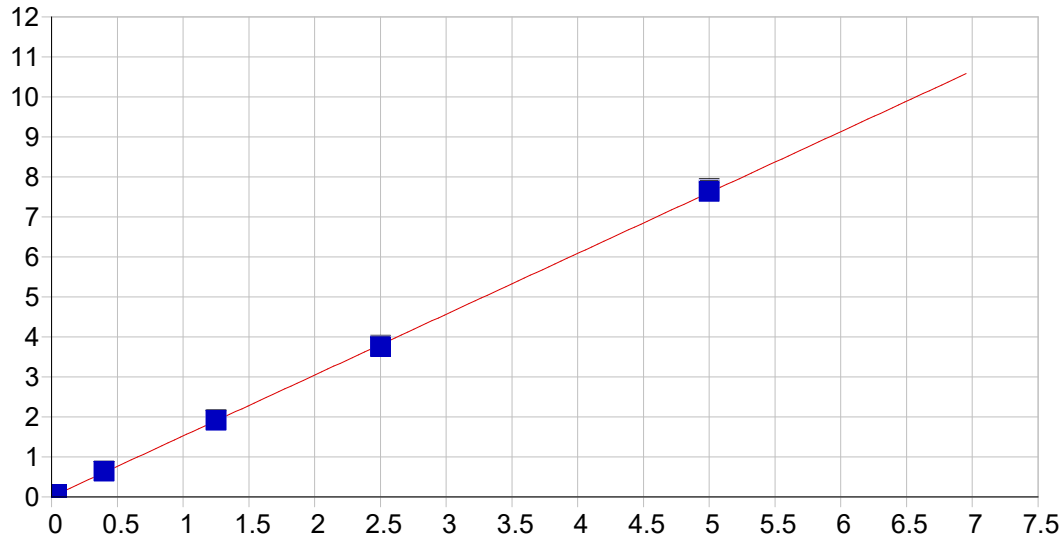
Zn 206.200 {464}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002047	Re-Slope:	1.000000
A1 (Gain):	1.650603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000214		
Predicted MDL:	0.000132		
Predicted MQL:	0.000441		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00204	.000	1
S1	.04000	.04223	.002	5.57	.07175	.000	1
S3	1.2500	1.2433	-.007	-.536	2.0542	.001	1
S4	2.5000	2.4885	-.012	-.461	4.1095	.005	1
S5	5.0000	5.0121	.012	.242	8.2750	.002	1
S2	.40000	.40393	.004	.982	.66877	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



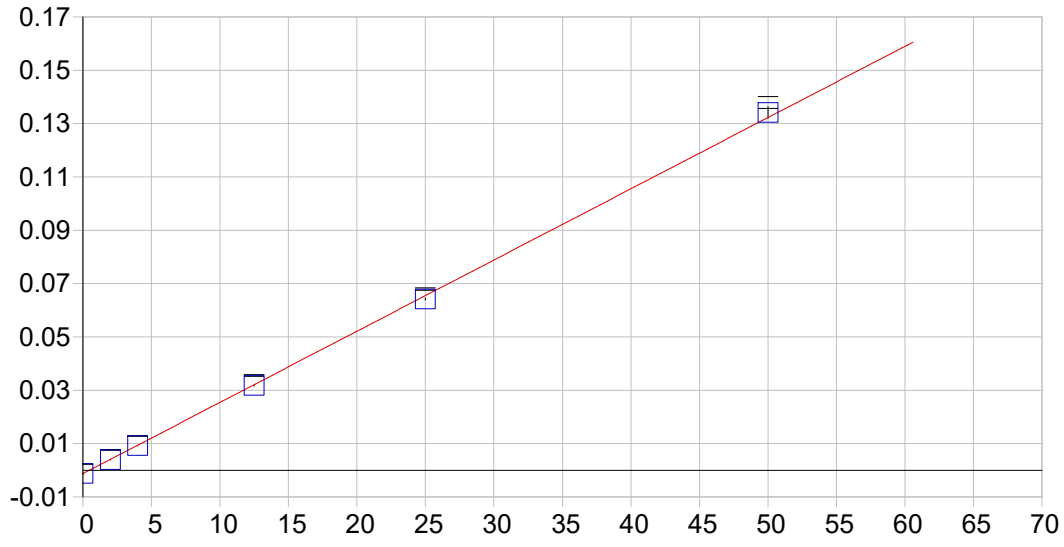
Zn 213.856 {158}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002213	Re-Slope:	1.000000
A1 (Gain):	1.521535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000431		
Predicted MDL:	0.000495		
Predicted MQL:	0.001650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00221	.000	1
S1	.04000	.04219	.002	5.46	.06683	.000	1
S3	1.2500	1.2534	.003	.269	1.9225	.006	1
S4	2.5000	2.4653	-.035	-1.39	3.7797	.013	1
S5	5.0000	5.0125	.012	.249	7.6817	.021	1
S2	.40000	.41671	.017	4.18	.64048	.002	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



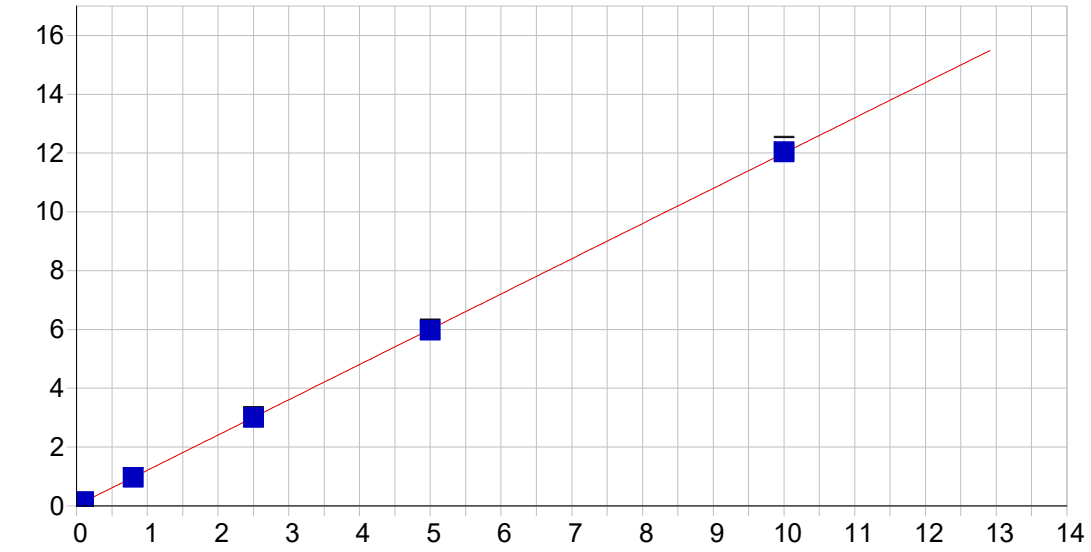
K 766.490 { 44}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001284	Re-Slope:	1.000000
A1 (Gain):	0.002671	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999876	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.090834		
Predicted MQL:	0.302779		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	-.00128	.000	1
S2	4.0000	3.9192	-.081	-2.02	.00918	.000	1
S3	12.500	12.393	-.107	-.856	.03181	.000	1
S4	25.000	24.515	-.485	-1.94	.06419	.000	1
S5	50.000	50.717	.717	1.43	.13417	.002	1
S1	2.0000	1.9561	-.044	-2.20	.00394	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



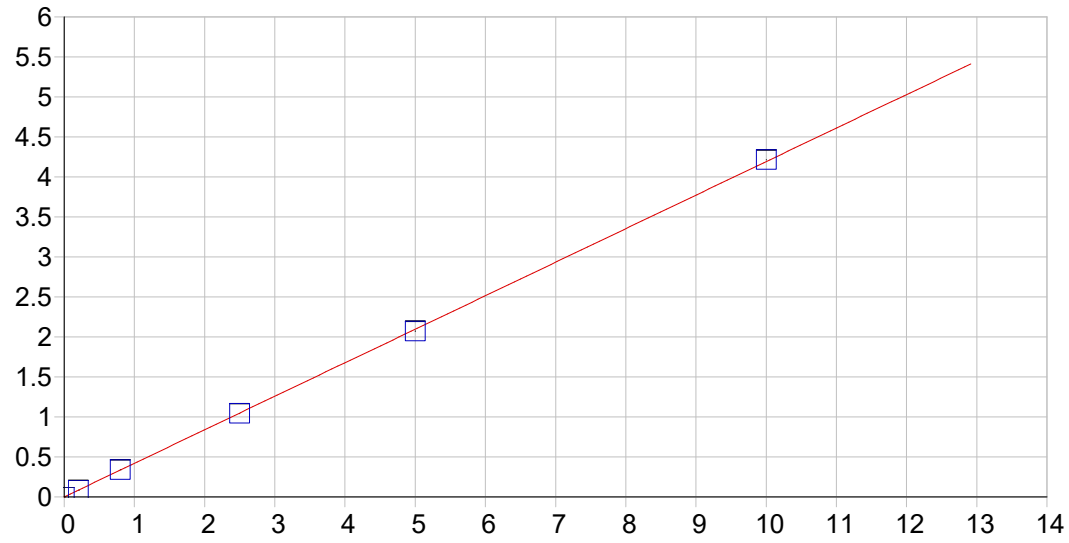
B 249.678 {135}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014421	Re-Slope:	1.000000
A1 (Gain):	1.198587	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000285		
Predicted MDL:	0.001275		
Predicted MQL:	0.004251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01442	.000	1
S1	.10000	.10251	.003	2.51	.13658	.000	1
S3	2.5000	2.4928	-.007	-.286	2.9915	.029	1
S4	5.0000	4.9722	-.028	-.557	5.9524	.048	1
S5	10.000	10.036	.036	.356	12.000	.186	1
S2	.80000	.79693	-.003	-.384	.96615	.003	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



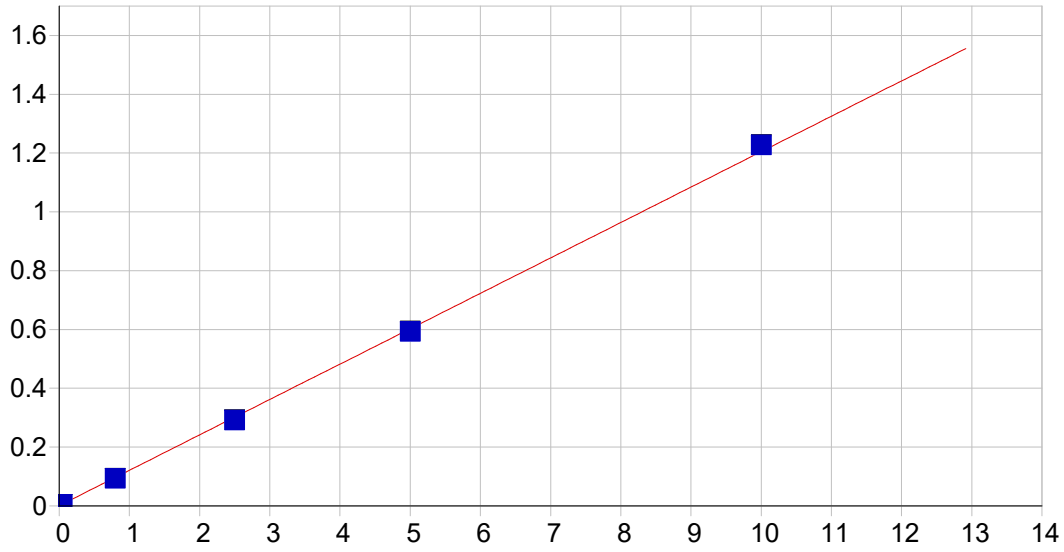
Mo 202.030 {467}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000602	Re-Slope:	1.000000
A1 (Gain):	0.419035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000242		
Predicted MDL:	0.000503		
Predicted MQL:	0.001676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00060	.000	1
S1	.20000	.20053	.001	.266	.08463	.000	1
S3	2.5000	2.4890	-.011	-.441	1.0436	.002	1
S4	5.0000	4.9440	-.056	-1.12	2.0723	.003	1
S5	10.000	10.057	.057	.573	4.2150	.002	1
S2	.80000	.80923	.009	1.15	.33970	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



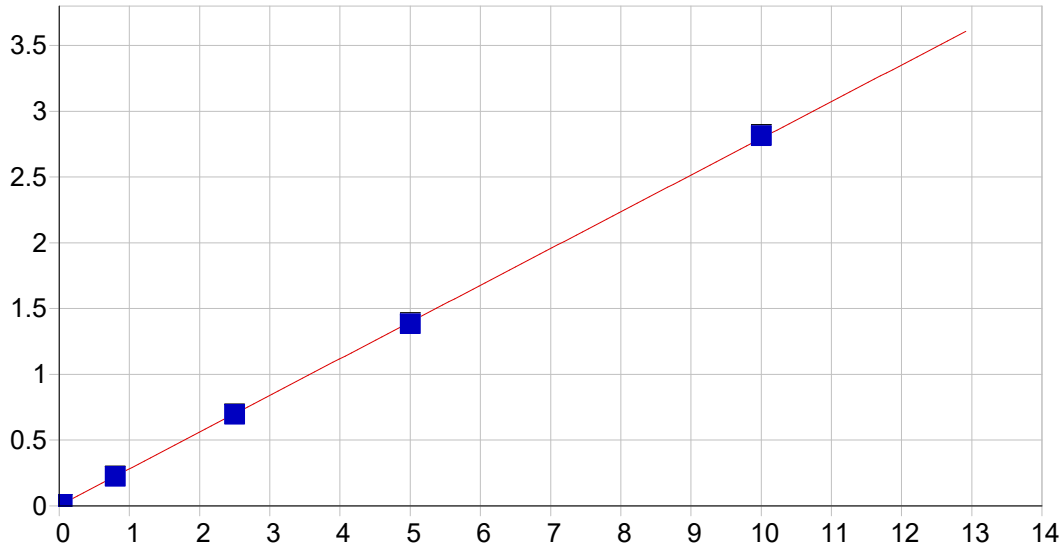
Sn 189.989 {478}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000724	Re-Slope:	1.000000
A1 (Gain):	0.120393	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	0.000954		
Predicted MQL:	0.003181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00072	.000	1
S1	.04000	.03796	-.002	-5.09	.00529	.000	1
S3	2.5000	2.4197	-.080	-3.21	.29174	.001	1
S4	5.0000	4.9241	-.076	-1.52	.59293	.001	1
S5	10.000	10.188	.188	1.88	1.2260	.001	1
S2	.80000	.77023	-.030	-3.72	.09336	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



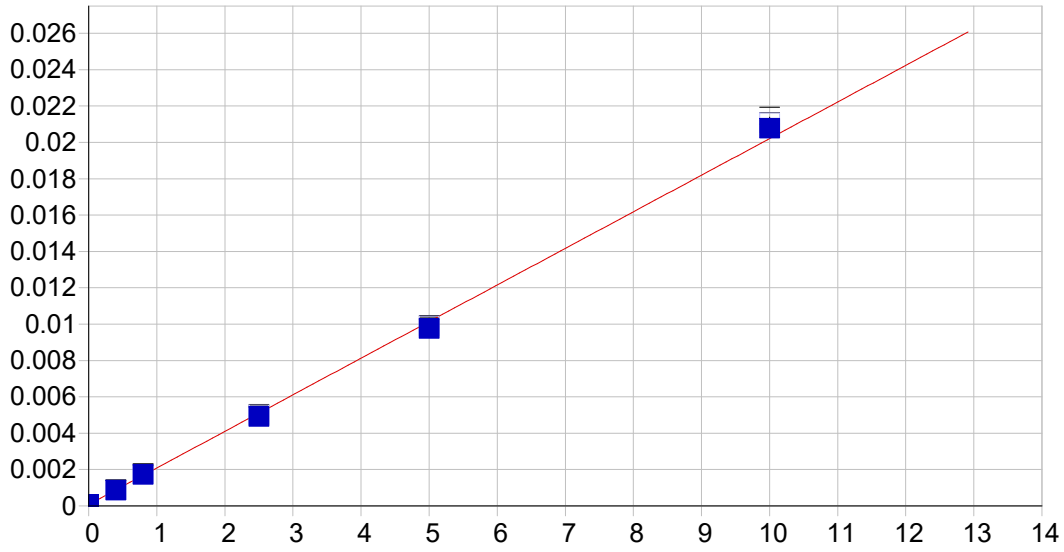
Ti 336.121 {100}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002774	Re-Slope:	1.000000
A1 (Gain):	0.279125	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.003723		
Predicted MQL:	0.012411		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00277	.002	1
S1	.04000	.03742	-.003	-6.45	.01321	.001	1
S3	2.5000	2.4837	-.016	-.653	.69578	.003	1
S4	5.0000	4.9522	-.048	-.955	1.3846	.007	1
S5	10.000	10.071	.071	.706	2.8127	.009	1
S2	.80000	.79605	-.004	-.493	.22489	.001	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



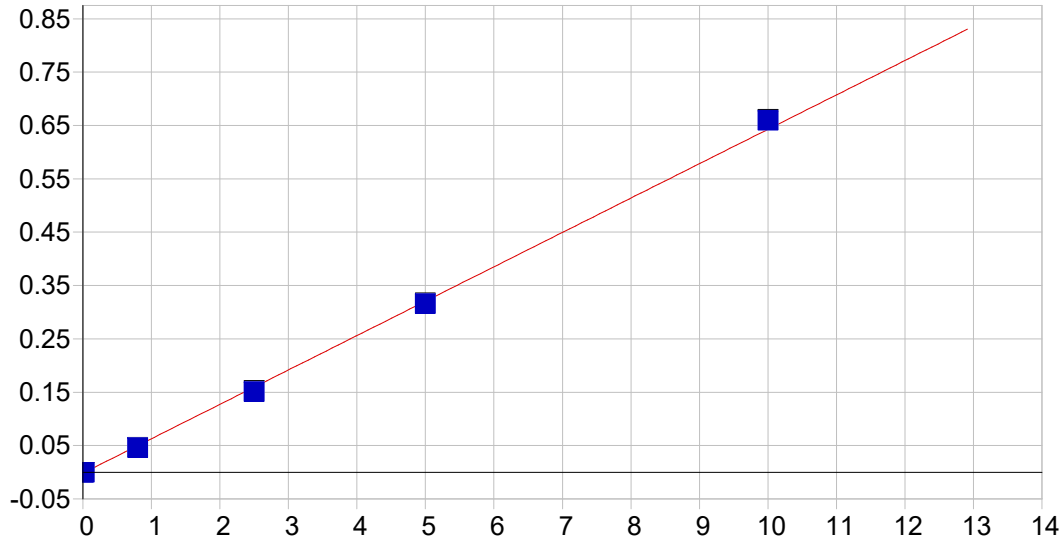
Si 288.158 {117}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000073	Re-Slope:	1.000000
A1 (Gain):	0.002014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999501	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.027342		
Predicted MQL:	0.091142		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00007	.000	1
S1	.40000	.39257	-.007	-1.86	.00086	.000	1
S3	2.5000	2.4069	-.093	-3.72	.00499	.000	1
S4	5.0000	4.8056	-.194	-3.89	.00990	.000	1
S5	10.000	10.278	.278	2.78	.02107	.000	1
S2	.80000	.81717	.017	2.15	.00174	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



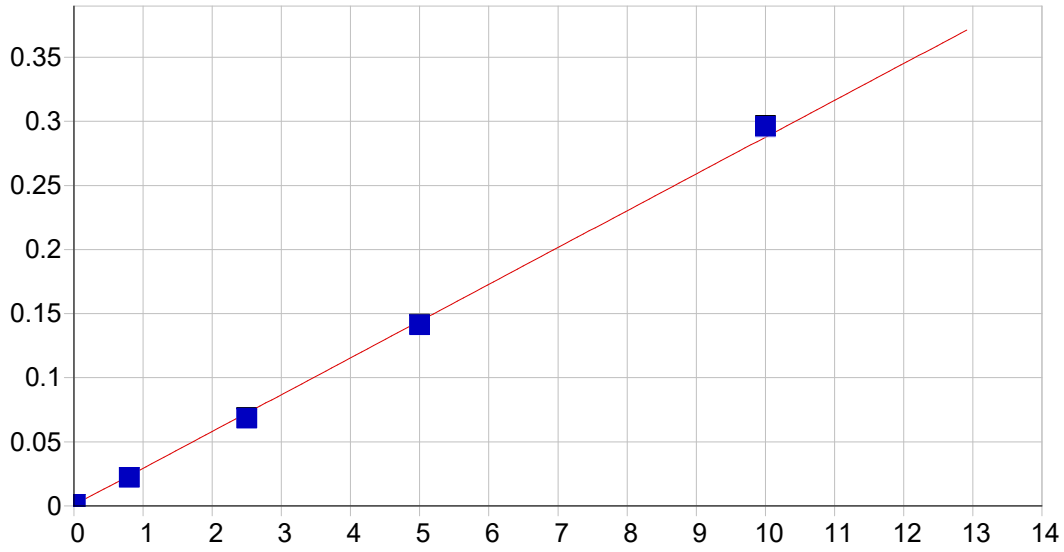
P 177.495 {490}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001649	Re-Slope:	1.000000
A1 (Gain):	0.064450	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999484	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.001493		
Predicted MQL:	0.004978		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00165	.000	1
S1	.02000	.01835	-.002	-8.23	-.00046	.000	1
S3	2.5000	2.3712	-.129	-5.15	.15115	.001	1
S4	5.0000	4.9249	-.075	-1.50	.31571	.002	1
S5	10.000	10.263	.263	2.63	.65970	.002	1
S2	.80000	.74267	-.057	-7.17	.04621	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



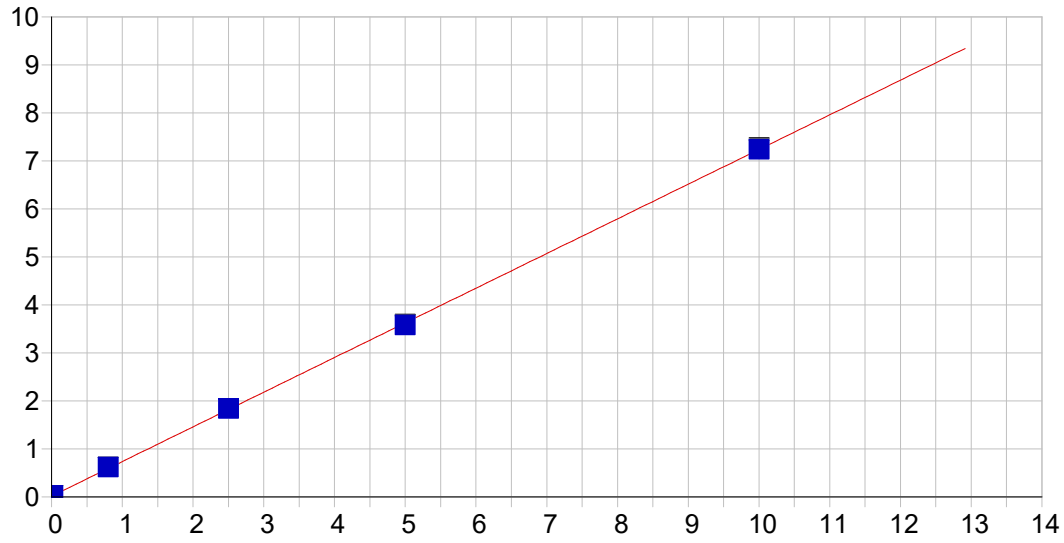
S 182.034 {485}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000676	Re-Slope:	1.000000
A1 (Gain):	0.028703	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999390	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.003384		
Predicted MQL:	0.011280		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00068	.000	1
S1	.02000	.01842	-.002	-7.92	.00118	.000	1
S3	2.5000	2.3572	-.143	-5.71	.06815	.001	1
S4	5.0000	4.9010	-.099	-1.98	.14097	.000	1
S5	10.000	10.295	.295	2.95	.29542	.001	1
S2	.80000	.74855	-.051	-6.43	.02210	.000	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



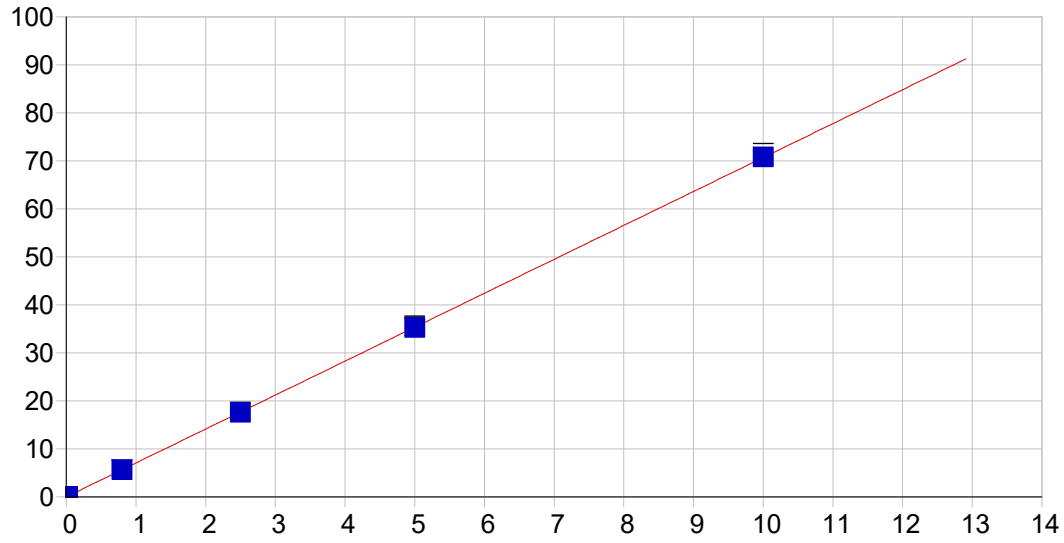
Li 670.784 { 50}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014602	Re-Slope:	1.000000
A1 (Gain):	0.722299	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000208		
Predicted MDL:	0.004488		
Predicted MQL:	0.014959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01460	.002	1
S5	10.000	10.007	.007	.067	7.2482	.024	1
S4	5.0000	4.9345	-.065	-1.31	3.5817	.016	1
S3	2.5000	2.5237	.024	.949	1.8389	.001	1
S1	.02000	.01890	-.001	-5.51	.02850	.005	1
S2	.80000	.83614	.036	4.52	.61901	.003	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



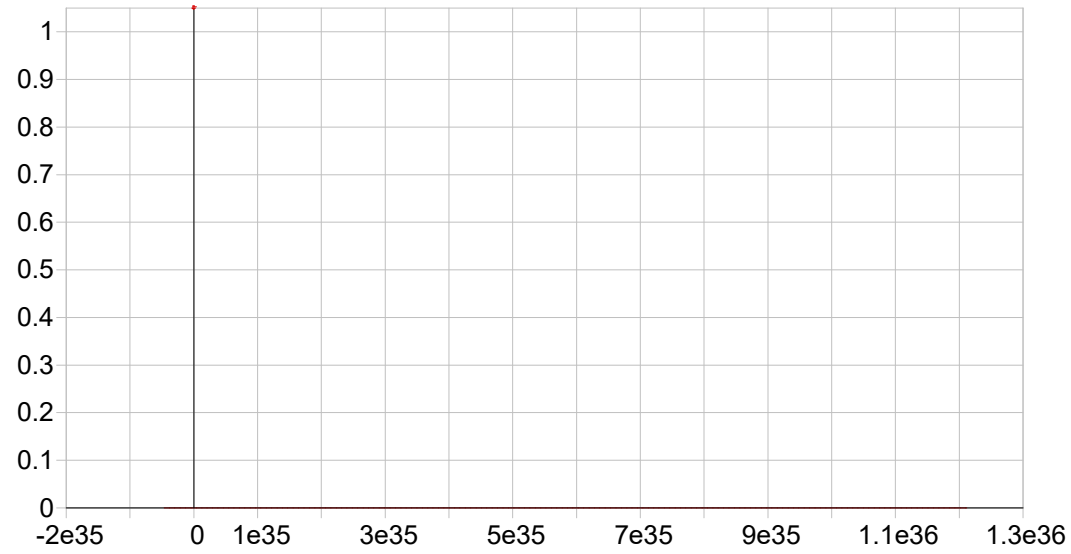
Sr 407.771 { 83}

Date of Fit:	9/30/2025 13:14:27	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002812	Re-Slope:	1.000000
A1 (Gain):	7.069469	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000491		
Predicted MDL:	0.000249		
Predicted MQL:	0.000829		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00280	.002	1
S1	.02000	.02132	.001	6.62	.15424	.001	1
S3	2.5000	2.4928	-.007	-.288	17.643	.022	1
S4	5.0000	4.9888	-.011	-.224	35.305	.310	1
S5	10.000	10.016	.016	.164	70.881	.717	1
S2	.80000	.80064	.001	.080	5.6684	.005	1

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

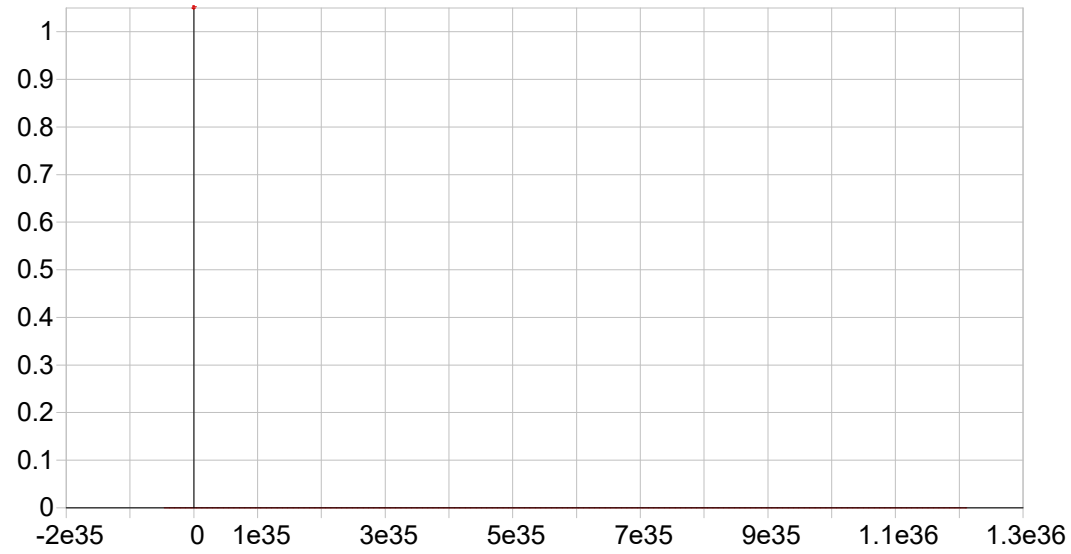


Y 224.306 {450}*

Date of Fit:	9/30/2025 13:14:27	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}*

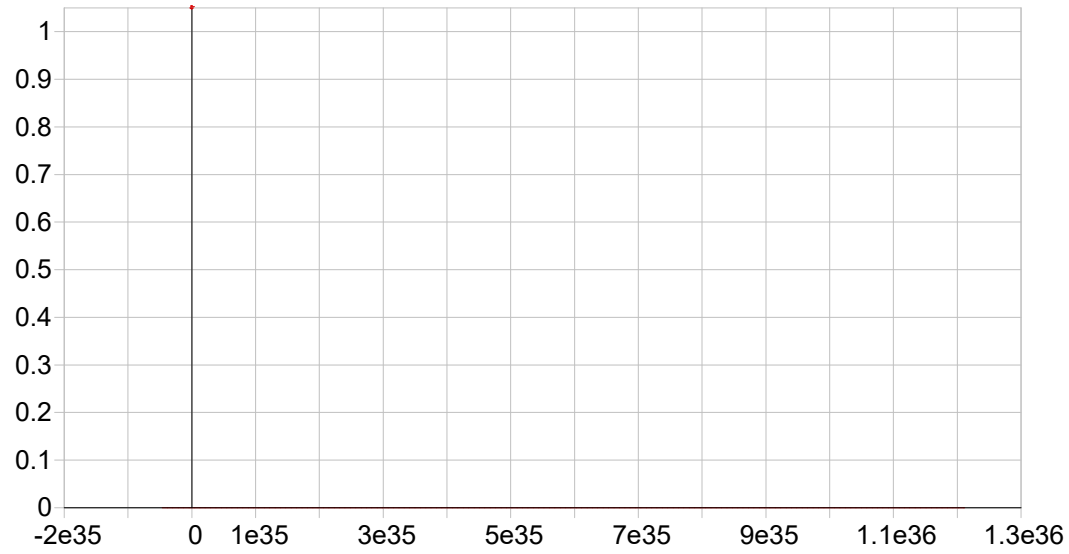
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

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



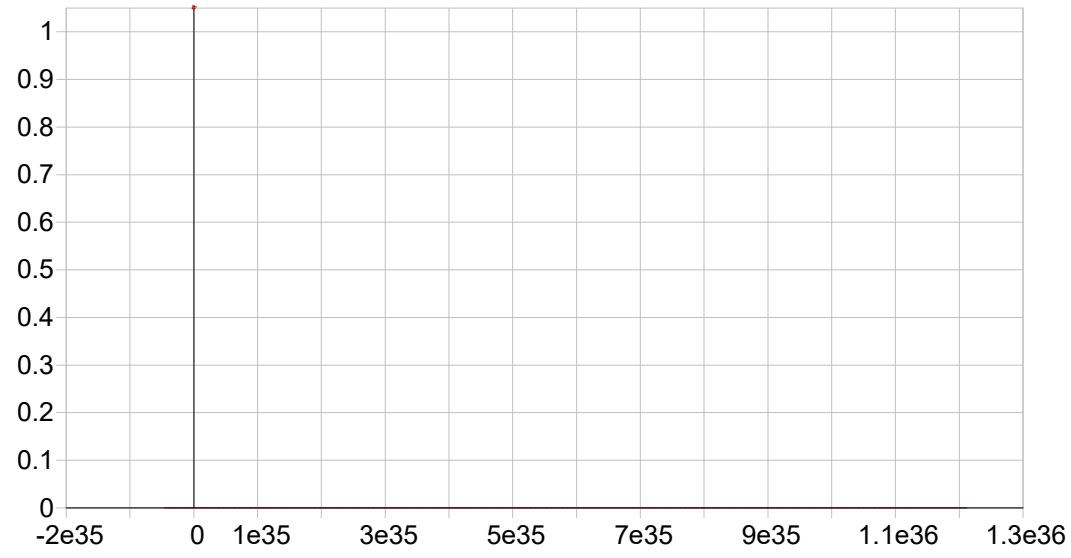
Y 371.030 { 91}*

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

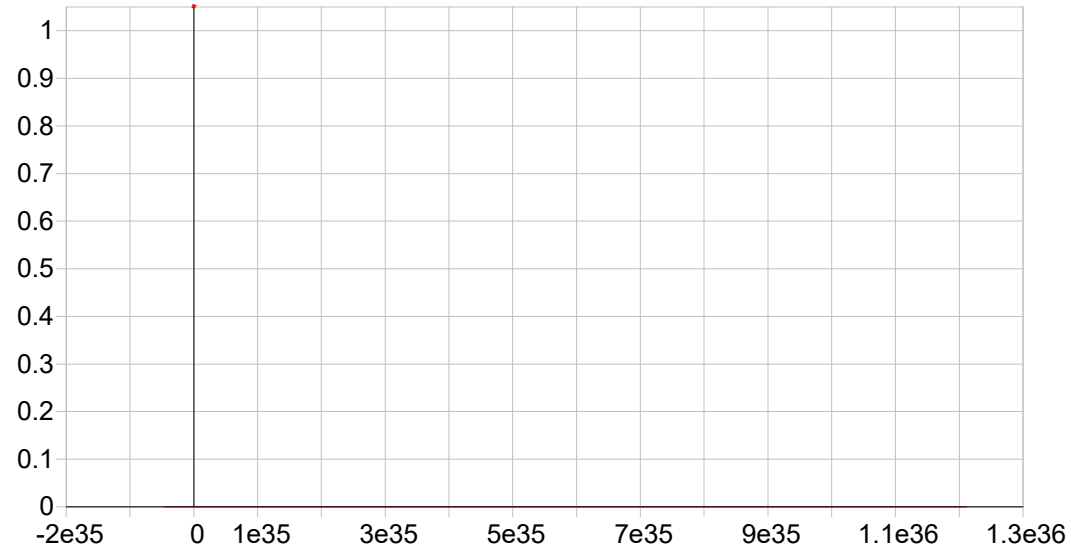
Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374



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:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

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:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S0 Acquired: 9/30/2025 12:51:51 Type: Cal
Method: 6010-200.7 NEW(v228) 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	**.00009**	**.00073**	**.00100**	**.00061**	**.00122**	**-.00271**	**.18156**	**.00108**
Stddev	.00008	.00013	.00040	.00002	.00013	.00083	.00205	.00078
%RSD	88.741	17.278	39.971	2.9794	10.311	30.502	1.1289	71.860
#1	.00015	.00087	.00066	.00062	.00131	-.00182	.18261	.00197
#2	.00010	.00063	.00091	.00059	.00108	-.00285	.18288	.00053
#3	.00000	.00069	.00144	.00062	.00128	-.00345	.17920	.00075

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	**-.00092**	**.00053**	**.00034**	**.00052**	**.00155**	**.00004**	**.00041**	**.00049**
Stddev	.00038	.00101	.00014	.00033	.00026	.00001	.00008	.00067
%RSD	41.524	191.53	42.034	63.610	16.639	32.044	19.160	136.99
#1	-.00130	.00037	.00039	.00085	.00179	.00003	.00038	.00107
#2	-.00054	.00160	.00046	.00020	.00159	.00005	.00050	.00065
#3	-.00092	-.00039	.00018	.00050	.00128	.00005	.00036	-.00025

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	**-.00087**	**-.00110**	**.00128**	**-.00024**	**.00221**	**-.00128**	**.01442**	**.00060**
Stddev	.00016	.00006	.00021	.00062	.00046	.00024	.00046	.00009
%RSD	17.885	5.5121	16.184	262.17	21.052	18.461	3.1957	15.619
#1	-.00105	-.00104	.00150	-.00024	.00167	-.00130	.01495	.00049
#2	-.00075	-.00116	.00109	.00039	.00245	-.00104	.01414	.00064
#3	-.00081	-.00111	.00124	-.00086	.00250	-.00151	.01417	.00067

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	**.00072**	**.00277**	**.00007**	**-.00165**	**.00068**	**.01460**	**.00280**
Stddev	.00010	.00152	.00001	.00001	.00007	.00225	.00160
%RSD	13.825	54.892	8.6712	.89652	10.401	15.440	57.108
#1	.00080	.00272	.00008	-.00165	.00076	.01420	.00428
#2	.00061	.00432	.00007	-.00163	.00063	.01257	.00302
#3	.00077	.00128	.00007	-.00166	.00065	.01703	.00110

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S0 Acquired: 9/30/2025 12:51:51 Type: Cal
Method: 6010-200.7 NEW(v228) 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	**7082.9**	**84556.**	**4723.0**	**5474.4**	**8457.9**
Stddev	12.4	609.	30.7	47.3	17.0
%RSD	.17486	.71986	.65010	.86493	.20074
#1	7069.0	84477.	4708.4	5449.6	8443.6
#2	7087.3	83992.	4702.3	5444.6	8453.4
#3	7092.5	85201.	4758.3	5529.0	8476.7

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S1 Acquired: 9/30/2025 12:56:10 Type: Cal
Method: 6010-200.7 NEW(v228) 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**	**.00385**	**.00377**	**.00176**	**.00581**	**.00800**	**.35167**	**.10426**
Stddev	.00009	.00014	.00029	.00011	.00018	.00037	.00516	.00156
%RSD	8.6511	3.5211	7.6324	6.4522	3.0508	4.6861	1.4666	1.4964
#1	.00108	.00395	.00407	.00168	.00601	.00758	.34618	.10263
#2	.00091	.00369	.00350	.00171	.00567	.00813	.35243	.10574
#3	.00100	.00389	.00372	.00189	.00575	.00829	.35641	.10440

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	**.01278**	**.12508**	**.00222**	**.02219**	**.01165**	**.00024**	**.00951**	**.03015**
Stddev	.00025	.00067	.00004	.00013	.00017	.00003	.00075	.00105
%RSD	1.9590	.53771	2.0066	.60179	1.4324	10.438	7.8508	3.4904
#1	.01261	.12438	.00220	.02224	.01184	.00021	.00908	.02906
#2	.01267	.12572	.00219	.02204	.01153	.00026	.01038	.03116
#3	.01307	.12515	.00227	.02230	.01158	.00024	.00909	.03024

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	**.02574**	**.00109**	**.00971**	**.00496**	**.06683**	**.00394**	**.13658**	**.08463**
Stddev	.00032	.00017	.00012	.00045	.00025	.00014	.00018	.00011
%RSD	1.2525	15.633	1.2464	9.1437	.38018	3.6410	.13344	.12681
#1	.02612	.00126	.00963	.00445	.06698	.00378	.13661	.08474
#2	.02556	.00109	.00984	.00510	.06696	.00400	.13638	.08463
#3	.02556	.00092	.00964	.00533	.06653	.00404	.13674	.08453

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	**.00529**	**.01321**	**.00086**	**-.00046**	**.00118**	**.02850**	**.15424**
Stddev	.00004	.00127	.00002	.00003	.00002	.00470	.00107
%RSD	.73273	9.6111	2.8418	6.4837	1.8593	16.498	.69594
#1	.00532	.01440	.00088	-.00046	.00120	.03104	.15431
#2	.00531	.01187	.00084	-.00044	.00116	.03139	.15313
#3	.00525	.01336	.00088	-.00050	.00117	.02308	.15528

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S1 Acquired: 9/30/2025 12:56:10 Type: Cal
Method: 6010-200.7 NEW(v228) 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	7079.7	83069.	4782.4	5398.7	8355.7
Stddev	10.3	63.	5.5	23.4	5.7
%RSD	.14580	.07533	.11400	.43310	.06768
#1	7072.8	82997.	4778.0	5387.4	8351.4
#2	7091.5	83110.	4788.5	5383.1	8362.1
#3	7074.7	83101.	4780.8	5425.6	8353.6

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S2 Acquired: 9/30/2025 13:00:22 Type: Cal
Method: 6010-200.7 NEW(v228) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03649	.06372	.19352	.04428	.07055	.13012	2.8567	.67245	.89549
Stddev	.00017	.00167	.00008	.00020	.00021	.00173	.0065	.00173	.00068
%RSD	.46353	2.6258	.03936	.46164	.29479	1.3332	.22643	.25666	.07596
#1	.03651	.06183	.19360	.04406	.07070	.13202	2.8641	.67206	.89474
#2	.03665	.06434	.19348	.04447	.07064	.12972	2.8535	.67096	.89564
#3	.03632	.06500	.19347	.04432	.07032	.12862	2.8524	.67434	.89608

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.24197	.03332	.28603	.09720	.00166	.17714	.05618	.26002	.04314
Stddev	.00081	.00003	.00005	.00033	.00003	.00136	.00091	.00028	.00004
%RSD	.33440	.10249	.01611	.33551	1.9232	.76750	1.6263	.10823	.09345
#1	.24284	.03328	.28598	.09737	.00163	.17868	.05689	.25975	.04314
#2	.24182	.03334	.28603	.09741	.00169	.17609	.05650	.26031	.04311
#3	.24125	.03335	.28607	.09683	.00164	.17666	.05515	.26000	.04319

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01862	.05097	.64048	.00918	.96615	.33970	.09336	.22489	.00174
Stddev	.00019	.00090	.00245	.00007	.00339	.00097	.00010	.00079	.00003
%RSD	1.0015	1.7700	.38217	.73906	.35072	.28456	.10644	.35250	1.9215
#1	.01865	.05161	.64325	.00922	.96795	.33978	.09333	.22576	.00173
#2	.01879	.05135	.63959	.00910	.96224	.33869	.09346	.22470	.00178
#3	.01842	.04994	.63860	.00922	.96826	.34062	.09327	.22421	.00172

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04621	.02210	.61901	5.6684
Stddev	.00012	.00017	.00328	.0052
%RSD	.25357	.77526	.53044	.09203
#1	.04616	.02191	.62132	5.6742
#2	.04612	.02215	.62046	5.6641
#3	.04634	.02224	.61525	5.6668

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S2 Acquired: 9/30/2025 13:00:22 Type: Cal
Method: 6010-200.7 NEW(v228) 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	7055.7	79639.	4766.3	5283.0	8223.0
Stddev	15.6	404.	25.2	38.3	18.8
%RSD	.22152	.50746	.52856	.72475	.22806
#1	7037.7	79286.	4737.3	5254.1	8201.5
#2	7065.8	79550.	4782.7	5268.4	8231.3
#3	7063.6	80080.	4778.9	5326.4	8236.2

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S3 Acquired: 9/30/2025 13:04:27 Type: Cal
Method: 6010-200.7 NEW(v228) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11324**	**.16919**	**.60474**	**.13435**	**.21619**	**.40152**	**8.5872**	**2.0544**	**2.8525**
Stddev	.00038	.01010	.00098	.00089	.00040	.00171	.0126	.0203	.0064
%RSD	.33633	5.9686	.16226	.66149	.18393	.42656	.14631	.98818	.22420
#1	.11295	.16080	.60369	.13371	.21614	.40070	8.5900	2.0521	2.8475
#2	.11310	.16636	.60490	.13398	.21583	.40037	8.5982	2.0354	2.8503
#3	.11368	.18039	.60563	.13537	.21662	.40349	8.5735	2.0758	2.8598

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74605**	**.10019**	**.90163**	**.29535**	**.00493**	**.54550**	**.17045**	**.81881**	**.13235**
Stddev	.00137	.00030	.00149	.00031	.00004	.00066	.00136	.00074	.00046
%RSD	.18322	.29963	.16555	.10516	.75236	.12062	.79977	.09013	.34857
#1	.74569	.10049	.89997	.29535	.00497	.54580	.16985	.81796	.13232
#2	.74756	.09989	.90206	.29503	.00494	.54595	.16949	.81931	.13191
#3	.74490	.10018	.90286	.29565	.00490	.54474	.17201	.81917	.13283

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05277**	**.15900**	**1.9225**	**.03181**	**2.9915**	**1.0436**	**.29174**	**.69578**	**.00499**
Stddev	.00052	.00058	.0060	.00026	.0290	.0022	.00100	.00321	.00004
%RSD	.98047	.36629	.30971	.82077	.97082	.21109	.34120	.46150	.79662
#1	.05328	.15871	1.9197	.03173	2.9816	1.0422	.29073	.69832	.00495
#2	.05276	.15967	1.9184	.03211	2.9687	1.0424	.29175	.69217	.00502
#3	.05225	.15862	1.9293	.03160	3.0242	1.0461	.29272	.69685	.00501

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.15115**	**.06815**	**1.8389**	**17.643**
Stddev	.00147	.00052	.0007	.022
%RSD	.97585	.76130	.03613	.12384
#1	.14998	.06778	1.8382	17.664
#2	.15066	.06793	1.8394	17.644
#3	.15280	.06874	1.8392	17.620

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S3 Acquired: 9/30/2025 13:04:27 Type: Cal
Method: 6010-200.7 NEW(v228) 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	6897.1	80808.	4679.6	5266.2	7798.4
Stddev	9.5	315.	36.3	9.7	12.7
%RSD	.13733	.38936	.77531	.18351	.16328
#1	6906.9	80464.	4677.3	5255.1	7810.7
#2	6896.5	81081.	4717.0	5272.6	7799.1
#3	6888.0	80881.	4644.5	5270.9	7785.3

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S4 Acquired: 9/30/2025 13:08:28 Type: Cal
Method: 6010-200.7 NEW(v228) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.22776	.32845	1.2370	.26914	.43086	.79621	16.947	4.0461	5.8536
Stddev	.00047	.00254	.0017	.00113	.00140	.00380	.102	.0344	.0063
%RSD	.20637	.77316	.13446	.41994	.32411	.47781	.60247	.85048	.10763
#1	.22724	.32598	1.2351	.26786	.43043	.79439	17.022	4.0063	5.8463
#2	.22790	.33105	1.2375	.27001	.42974	.80058	16.988	4.0663	5.8570
#3	.22815	.32833	1.2383	.26954	.43243	.79366	16.830	4.0655	5.8574

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4772	.19535	1.8390	.58507	.00957	1.0820	.33546	1.6731	.26072
Stddev	.0044	.00066	.0024	.00096	.00009	.0072	.00038	.0017	.00039
%RSD	.29669	.33664	.13007	.16329	.96534	.66411	.11354	.10207	.15102
#1	1.4736	.19466	1.8367	.58464	.00966	1.0885	.33524	1.6717	.26060
#2	1.4821	.19596	1.8389	.58440	.00956	1.0834	.33525	1.6726	.26117
#3	1.4759	.19543	1.8414	.58616	.00948	1.0743	.33590	1.6750	.26041

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.10305	.31725	3.7797	.06419	5.9524	2.0723	.59293	1.3846	.00990
Stddev	.00136	.00194	.0127	.00042	.0478	.0035	.00097	.0074	.00003
%RSD	1.3164	.61082	.33597	.65305	.80364	.16687	.16430	.53458	.34569
#1	.10439	.31927	3.7852	.06466	5.8976	2.0683	.59189	1.3880	.00994
#2	.10308	.31707	3.7652	.06406	5.9859	2.0745	.59382	1.3897	.00987
#3	.10168	.31540	3.7887	.06385	5.9737	2.0741	.59310	1.3761	.00989

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31571	.14097	3.5817	35.305
Stddev	.00161	.00047	.0157	.310
%RSD	.51043	.33288	.43857	.87688
#1	.31440	.14055	3.5888	35.022
#2	.31751	.14148	3.5926	35.257
#3	.31523	.14090	3.5637	35.636

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S4 Acquired: 9/30/2025 13:08:28 Type: Cal
Method: 6010-200.7 NEW(v228) 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	6743.9	81486.	4634.2	5287.1	7417.0
Stddev	17.7	459.	19.6	29.4	21.8
%RSD	.26177	.56315	.42342	.55624	.29423
#1	6732.1	81075.	4649.3	5260.2	7399.1
#2	6735.5	81400.	4612.0	5318.5	7410.8
#3	6764.2	81981.	4641.4	5282.5	7441.3

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S5 Acquired: 9/30/2025 13:12:33 Type: Cal
Method: 6010-200.7 NEW(v228) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348	Cd2265
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.46107**	**.68444**	**2.5701**	**.54371**	**.87074**	**1.6302**	**34.192**	**8.1381**	**12.101**
Stddev	.00045	.02902	.0033	.00126	.00058	.0062	.064	.1324	.012
%RSD	.09707	4.2403	.12723	.23178	.06649	.38174	.18774	1.6268	.09799
#1	.46159	.65755	2.5739	.54324	.87105	1.6278	34.242	8.2744	12.114
#2	.46082	.71521	2.5679	.54514	.87008	1.6373	34.215	8.0100	12.094
#3	.46081	.68056	2.5686	.54276	.87111	1.6255	34.120	8.1300	12.093

Elem	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.9933**	**.39359**	**3.8130**	**1.1757**	**.01935**	**2.1882**	**.68563**	**3.4647**	**.52858**
Stddev	.0123	.00163	.0065	.0006	.00028	.0097	.00202	.0063	.00074
%RSD	.41035	.41297	.16954	.04905	1.4686	.44363	.29471	.18128	.14050
#1	2.9880	.39546	3.8200	1.1756	.01916	2.1864	.68578	3.4720	.52944
#2	3.0074	.39278	3.8073	1.1751	.01967	2.1986	.68757	3.4611	.52820
#3	2.9846	.39253	3.8116	1.1762	.01921	2.1795	.68354	3.4610	.52811

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21132**	**.65117**	**7.6817**	**.13417**	**12.000**	**4.2150**	**1.2260**	**2.8127**	**.02107**
Stddev	.00287	.00295	.0207	.00217	.186	.0018	.0014	.0089	.00032
%RSD	1.3582	.45300	.26905	1.6200	1.5542	.04177	.11640	.31447	1.4977
#1	.20888	.65090	7.7009	.13234	12.186	4.2149	1.2277	2.8151	.02075
#2	.21448	.65424	7.6846	.13657	11.813	4.2168	1.2253	2.8202	.02138
#3	.21060	.64836	7.6598	.13359	12.000	4.2132	1.2252	2.8029	.02109

Elem	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.65970**	**.29542**	**7.2482**	**70.881**
Stddev	.00152	.00081	.0244	.717
%RSD	.23076	.27503	.33645	1.0118
#1	.65959	.29474	7.2476	71.710
#2	.66127	.29632	7.2729	70.459
#3	.65823	.29520	7.2241	70.476

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: S5 Acquired: 9/30/2025 13:12:33 Type: Cal
Method: 6010-200.7 NEW(v228) 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	6683.1	81028.	4596.9	5207.6	7159.9
Stddev	4.4	485.	31.3	36.1	7.2
%RSD	.06513	.59834	.68074	.69361	.10086
#1	6686.6	81445.	4566.0	5228.3	7153.7
#2	6684.6	80496.	4628.6	5165.8	7167.9
#3	6678.2	81143.	4596.2	5228.5	7158.2

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICV01 Acquired: 9/30/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**3.951011**	**3.913948**	**3.826835**	**3.952091**	**4.050187**	**7.666076**
Stddev	.001652	.104239	.012221	.008904	.009602	.027174
%RSD	.0418053	2.663260	.3193517	.2253010	.2370868	.3544770
#1	3.949319	3.867485	3.812724	3.959772	4.039782	7.642171
#2	3.951092	4.033339	3.833956	3.954170	4.052069	7.660427
#3	3.952620	3.841021	3.833827	3.942332	4.058708	7.695631

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.853175**	**.1982865**	**1.955284**	**19.31219**	**.8032962**	**1.951079**
Stddev	.030600	.0010963	.005524	.10486	.0018746	.004529
%RSD	.3896542	.5528958	.2825401	.5429949	.2333651	.2321519
#1	7.817906	.1982590	1.948907	19.21462	.8016944	1.945856
#2	7.872667	.1993963	1.958581	19.29888	.8028362	1.953920
#3	7.868951	.1972042	1.958366	19.42308	.8053580	1.953463

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9906780**	**4.108054**	**1.951098**	**19.31132**	**1.952778**	**1.072075**
Stddev	.0030172	.046537	.008663	.09311	.004682	.002036
%RSD	.3045576	1.132815	.4440292	.4821633	.2397682	.1898863
#1	.9873185	4.067214	1.942072	19.21527	1.947396	1.070257
#2	.9915587	4.098230	1.951875	19.31751	1.955910	1.074274
#3	.9931569	4.158719	1.959346	19.40119	1.955029	1.071694

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.17494**	**1.930885**	**1.981650**	**20.26278**	**3.895854**	**4.003560**
Stddev	.15258	.011741	.010312	.29334	.019708	.003658
%RSD	.7562776	.6080561	.5203975	1.447685	.5058713	.0913674
#1	20.07275	1.922885	1.979289	20.06960	3.899917	3.999580
#2	20.10175	1.925407	1.972722	20.11841	3.913214	4.004325
#3	20.35033	1.944364	1.992937	20.60033	3.874431	4.006775

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICV01 Acquired: 9/30/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.990352**	**3.985363**	**4.029714**	F **.0072853**	**4.051445**	**3.803753**
Stddev	.006192	.013332	.061155	.0001980	.008821	.015617
%RSD	.1551798	.3345216	1.517597	2.718266	.2177276	.4105663
#1	3.983249	3.969984	3.971935	.0073834	4.042079	3.786440
#2	3.993198	3.992446	4.023444	.0070574	4.059596	3.816778
#3	3.994610	3.993658	4.093762	.0074151	4.052660	3.808041

Elem	Sr4077
Units	ppm
Avg	**4.047692**
Stddev	.012043
%RSD	.2975322
#1	4.033814
#2	4.055396
#3	4.053868

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7006.226**	**80043.41**	**4801.610**	**5350.339**	**7729.839**
Stddev	5.153	312.65	17.297	36.846	11.636
%RSD	.0735493	.3905963	.3602365	.6886728	.1505275
#1	7003.823	80311.24	4806.125	5370.048	7728.474
#2	7002.713	80119.14	4782.503	5373.139	7718.946
#3	7012.141	79699.86	4816.201	5307.830	7742.096

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01MSD Acquired: 9/30/2025 20:06:22 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.8333599**	**2.080061**	**.9716368**	**2.132392**	**.8187646**	**2.098495**
Stddev	.0021840	.043350	.0023416	.008746	.0031894	.015166
%RSD	.2620714	2.084077	.2409918	.4101583	.3895428	.7226935
#1	.8333960	2.031593	.9722395	2.123038	.8222571	2.080993
#2	.8355256	2.115127	.9736181	2.133773	.8160062	2.106732
#3	.8311580	2.093464	.9690528	2.140366	.8180306	2.107759

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2153364**	**.1925347**	**.2022994**	**359.1590**	**.3967903**	**.2201317**
Stddev	.0029573	.0019630	.0003994	1.4612	.0004371	.0007325
%RSD	1.373320	1.019569	.1974546	.4068450	.1101682	.3327598
#1	.2186020	.1940960	.2019065	360.6332	.3962856	.2195697
#2	.2128392	.1903310	.2027051	359.1326	.3970356	.2209601
#3	.2145681	.1931773	.2022864	357.7112	.3970497	.2198653

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2946388**	**2.984328**	**.1957261**	**1.921132**	**.5119941**	**.0717581**
Stddev	.0008912	.040485	.0007669	.069086	.0014756	.0010028
%RSD	.3024582	1.356591	.3918406	3.596108	.2882130	1.397521
#1	.2936271	2.947376	.1966099	1.931249	.5115767	.0715356
#2	.2953076	3.027602	.1953320	1.984602	.5136335	.0708852
#3	.2949816	2.978006	.1952363	1.847546	.5107722	.0728535

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**358.3393**	**.2908578**	**.2107080**	**67.14119**	**.4290283**	**.4250926**
Stddev	4.4905	.0047162	.0003465	.71311	.0042524	.0001996
%RSD	1.253154	1.621465	.1644477	1.062110	.9911601	.0469545
#1	360.7525	.2888845	.2103705	66.50134	.4317013	.4249250
#2	361.1073	.2874489	.2106906	67.90998	.4241248	.4250392
#3	353.1581	.2962401	.2110629	67.01227	.4312589	.4253134

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01MSD Acquired: 9/30/2025 20:06:22 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.7239274	.1830646	2.252130	6.732746	F 61.75186	.1477096
Stddev	.0007638	.0024326	.026539	.019203	.23097	.0033220
%RSD	.1055013	1.328833	1.178376	.2852167	.3740241	2.249015
#1	.7246276	.1837994	2.224011	6.711520	61.49088	.1514808
#2	.7231129	.1850452	2.255639	6.737808	61.92991	.1452165
#3	.7240418	.1803493	2.276739	6.748912	61.83480	.1464313

Elem	Sr4077
Units	ppm
Avg	2.979147
Stddev	.012794
%RSD	.4294678
#1	2.993921
#2	2.971804
#3	2.971718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6948.956	83739.73	4865.597	5439.080	7284.061
Stddev	7.402	426.22	39.937	37.434	13.092
%RSD	.1065247	.5089849	.8208021	.6882387	.1797314
#1	6950.274	83829.91	4820.784	5438.151	7283.870
#2	6940.983	83275.64	4897.427	5402.119	7271.066
#3	6955.611	84113.65	4878.579	5476.970	7297.247

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LLICV01 Acquired: 9/30/2025 13:22:39 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0232983**	**.0402595**	**.0109582**	**.0239826**	**.0552267**	**.1179750**	**.1037345**
Stddev	.0025143	.0019549	.0015129	.0015075	.0005708	.0409036	.0046998
%RSD	10.79197	4.855711	13.80590	6.285670	1.033542	34.67143	4.530588
#1	.0221311	.0413539	.0115205	.0234337	.0551224	.1011228	.1045341
#2	.0261841	.0414220	.0121094	.0228264	.0558424	.0881897	.0986862
#3	.0215796	.0380025	.0092447	.0256875	.0547152	.1646125	.1079831

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065924**	**.0058689**	**2.089524**	**.0097833**	**.0297881**	**.0218742**	**.0856584**
Stddev	.0000911	.0000762	.025395	.0008448	.0000706	.0001900	.0105075
%RSD	1.382380	1.298448	1.215341	8.635190	.2369351	.8686726	12.26670
#1	.0064913	.0058135	2.118191	.0106286	.0297602	.0216909	.0815757
#2	.0066683	.0059558	2.080535	.0097821	.0298683	.0220702	.0778050
#3	.0066177	.0058374	2.069847	.0089390	.0297357	.0218614	.0975945

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212289**	**2.182672**	**.0397242**	**.0107743**	**1.940276**	**.0369734**	**.0426631**
Stddev	.0006001	.037711	.0004481	.0008954	.025402	.0023293	.0003283
%RSD	2.826627	1.727763	1.128017	8.310244	1.309190	6.299913	.7695376
#1	.0208786	2.140787	.0399397	.0097508	1.911253	.0396232	.0423163
#2	.0208864	2.213928	.0392091	.0114127	1.958463	.0352491	.0427038
#3	.0219218	2.193302	.0400238	.0111593	1.951112	.0360478	.0429691

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.791208**	**.1149595**	**.2010682**	**.0395374**	**.0403292**	**.3579433**	**.0187447**
Stddev	.107452	.0007956	.0002289	.0010117	.0062965	.0178292	.0014707
%RSD	5.998867	.6921124	.1138475	2.558943	15.61263	4.981003	7.845780
#1	1.762508	.1151973	.2013061	.0407020	.0368623	.3577558	.0184627
#2	1.701020	.1140721	.2008495	.0388756	.0475972	.3758654	.0174355
#3	1.910096	.1156092	.2010492	.0390345	.0365282	.3402086	.0203359

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LLICV01 Acquired: 9/30/2025 13:22:39 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0229773	.0225359	.0213062
Stddev	.0056950	.0032587	.0002183
%RSD	24.78553	14.46005	1.024573
#1	.0168736	.0211693	.0211060
#2	.0281486	.0201829	.0212735
#3	.0239096	.0262553	.0215390

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7179.048	86468.60	4786.151	5610.779	8379.927
Stddev	8.323	267.77	21.678	30.699	5.670
%RSD	.1159295	.3096774	.4529310	.5471356	.0676664
#1	7182.291	86579.14	4793.355	5583.404	8384.364
#2	7169.592	86663.40	4803.309	5643.970	8373.539
#3	7185.261	86163.25	4761.788	5604.964	8381.879

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICB01 Acquired: 9/30/2025 13:32:53 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0012315**	**-.001117**	**.0001464**	**.0026718**	**.0031289**	**.0092190**	**.0019628**
Stddev	.0007367	.002011	.0014168	.0019354	.0016218	.0210602	.0014538
%RSD	59.82165	180.1188	967.9676	72.43958	51.83295	228.4435	74.06922
#1	.0016642	.001113	.0017620	.0040503	.0015875	.0301792	.0023228
#2	.0016493	-.001669	-.000439	.0035059	.0048206	-.011940	.0003628
#3	.0003809	-.002794	-.000884	.0004592	.0029785	.009418	.0032028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000149**	**-.000008**	**-.005687**	**-.000456**	**-.000189**	**-.000023**	**-.001264**
Stddev	.000069	.000156	.019067	.000619	.000251	.000171	.009040
%RSD	46.33332	2066.332	335.2990	135.7546	132.7694	753.8573	715.3131
#1	-.000142	-.000165	-.018375	-.000451	-.000055	-.000035	.004197
#2	-.000084	-.000004	-.014924	.000160	-.000479	.000154	.003710
#3	-.000222	.000146	.016240	-.001077	-.000033	-.000187	-.011698

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000038**	**-.026730**	**-.000448**	**-.000176**	**-.164613**	**.0015818**	**.0002720**
Stddev	.000198	.050031	.000354	.000650	.024992	.0037105	.0002675
%RSD	526.1525	187.1695	79.02161	368.8226	15.18257	234.5685	98.34552
#1	.000067	.030927	-.000649	.000561	-.181475	.0035917	.0002269
#2	.000086	-.052425	-.000039	-.000668	-.135899	-.002700	.0000299
#3	-.000266	-.058693	-.000657	-.000422	-.176464	.003854	.0005592

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.406113**	**.0054035**	**-.000049**	**-.001403**	**.0021342**	**.0142283**	**-.000888**
Stddev	.080366	.0014917	.000280	.000658	.0011624	.0365487	.000130
%RSD	19.78900	27.60671	574.6134	46.88387	54.46465	256.8734	14.59511
#1	-.476279	.0043949	.000254	-.001504	.0029501	.0550202	-.000791
#2	-.318435	.0046987	-.000102	-.000701	.0008033	.0032038	-.000839
#3	-.423624	.0071171	-.000297	-.002005	.0026491	-.015539	-.001036

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICB01 Acquired: 9/30/2025 13:32:53 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.000036	-.009673	.0001032
Stddev	.001832	.003645	.0001481
%RSD	5092.570	37.68803	143.5184
#1	.000101	-.011422	.0002642
#2	.001724	-.012114	-.000027
#3	-.001933	-.005482	.000073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7178.889	84103.88	4779.011	5560.458	8503.323
Stddev	25.485	500.92	14.444	40.560	26.691
%RSD	.3550038	.5955978	.3022398	.7294435	.3138868
#1	7178.075	83559.89	4770.907	5516.021	8513.694
#2	7153.820	84205.67	4795.687	5595.489	8473.003
#3	7204.772	84546.10	4770.438	5569.866	8523.271

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CRI01 Acquired: 9/30/2025 13:39:33 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0223359**	**.0406443**	**.0133051**	**.0226435**	**.0525587**	**.1201967**	**.1006270**
Stddev	.0032101	.0045393	.0021139	.0012180	.0017039	.0145820	.0047483
%RSD	14.37184	11.16842	15.88794	5.378795	3.241965	12.13177	4.718679
#1	.0248828	.0392652	.0127282	.0222515	.0536230	.1097924	.1061085
#2	.0233947	.0369544	.0115395	.0240092	.0534597	.1368638	.0977837
#3	.0187301	.0457132	.0156475	.0216698	.0505934	.1139337	.0979887

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063693**	**.0058112**	**2.104422**	**.0096585**	**.0294817**	**.0216447**	**.0992602**
Stddev	.0001154	.0001348	.046254	.0004052	.0001653	.0010162	.0061981
%RSD	1.812495	2.319784	2.197955	4.194926	.5606785	4.694952	6.244268
#1	.0064189	.0058898	2.156878	.0091953	.0295998	.0222260	.1010651
#2	.0064518	.0056556	2.069492	.0098332	.0292928	.0222368	.0923600
#3	.0062374	.0058883	2.086896	.0099470	.0295526	.0204713	.1043556

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0209886**	**2.134469**	**.0395603**	**.0100912**	**1.877220**	**.0375684**	**.0420566**
Stddev	.0006036	.024797	.0001917	.0004119	.046463	.0041157	.0002600
%RSD	2.875641	1.161722	.4845074	4.081736	2.475089	10.95534	.6181040
#1	.0203764	2.137376	.0393817	.0105540	1.824456	.0392199	.0423483
#2	.0210063	2.157684	.0397628	.0099550	1.912016	.0328834	.0418494
#3	.0215831	2.108347	.0395363	.0097647	1.895187	.0406019	.0419722

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.664297**	**.1074997**	**.2004120**	**.0382936**	**.0401939**	**.3580633**	**.0196495**
Stddev	.009195	.0002929	.0007705	.0007956	.0012211	.0188964	.0008798
%RSD	.5525025	.2724481	.3844627	2.077528	3.038091	5.277396	4.477481
#1	1.662938	.1078278	.2002258	.0377769	.0403304	.3372091	.0204656
#2	1.655856	.1074068	.1997516	.0378941	.0389103	.3629312	.0187175
#3	1.674096	.1072646	.2012585	.0392097	.0413411	.3740494	.0197655

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CRI01 Acquired: 9/30/2025 13:39:33 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0201397	.0170922	.0213048
Stddev	.0014824	.0051590	.0001234
%RSD	7.360809	30.18336	.5791265
#1	.0205435	.0127616	.0214404
#2	.0184972	.0157151	.0211991
#3	.0213784	.0228001	.0212749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7185.425	87537.17	4824.337	5638.811	8405.145
Stddev	30.213	50.01	3.690	21.084	38.095
%RSD	.4204704	.0571334	.0764912	.3739059	.4532321
#1	7184.665	87532.77	4820.253	5646.558	8407.938
#2	7216.011	87589.24	4827.431	5654.926	8441.766
#3	7155.600	87489.50	4825.326	5614.950	8365.730

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSA01 Acquired: 9/30/2025 13:44:20 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0050118**	**-.004322**	**-.006577**	**.0054369**	**.0033989**	**245.9513**	**.0076335**
Stddev	.0023172	.002071	.001369	.0024838	.0040712	.3509	.0019738
%RSD	46.23483	47.91031	20.81003	45.68450	119.7806	.1426796	25.85751
#1	.0058478	-.002201	-.005149	.0030901	-.001242	246.3431	.0055079
#2	.0023926	-.006339	-.006706	.0051824	.006368	245.8446	.0079840
#3	.0067950	-.004427	-.007877	.0080382	.005070	245.6660	.0094086

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021244**	**-.002074**	**238.8712**	**.0489873**	**-.000145**	**.0007707**	**102.4454**
Stddev	.0000701	.000044	.1386	.0001098	.000521	.0013831	.8059
%RSD	3.298935	2.112463	.0580385	.2241854	358.4142	179.4477	.7866837
#1	.0021880	-.002030	239.0216	.0488624	.000451	.0006357	102.5273
#2	.0021358	-.002118	238.8434	.0490688	-.000511	-.000540	103.2073
#3	.0020493	-.002073	238.7485	.0490307	-.000375	.002216	101.6017

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064171**	**251.0940**	**.0035592**	**-.000092**	**.0328307**	**.0054742**	**.0009814**
Stddev	.0015377	.0697	.0001268	.000297	.0387667	.0035101	.0005425
%RSD	23.96321	.0277478	3.562000	322.2305	118.0806	64.12038	55.28095
#1	.0046416	251.1371	.0035029	-.000031	-.006480	.0082256	.0005008
#2	.0073230	251.0136	.0037044	-.000415	.033943	.0066759	.0008737
#3	.0072867	251.1312	.0034703	.000170	.071029	.0015211	.0015697

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0672188**	**.0416322**	**-.000045**	**-.003862**	**-.003292**	**.0348087**	**.0040737**
Stddev	.0103584	.0033266	.000533	.000920	.003790	.0157882	.0031967
%RSD	15.40989	7.990482	1193.019	23.82288	115.1311	45.35710	78.47326
#1	.0790807	.0412321	.000283	-.002801	-.007341	.0524308	.0038836
#2	.0626173	.0451408	-.000659	-.004347	-.002703	.0219523	.0009762
#3	.0599585	.0385237	.000242	-.004439	.000169	.0300429	.0073612

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSA01 Acquired: 9/30/2025 13:44:20 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.001094	-.006592	.0031826
Stddev	.003056	.002037	.0002950
%RSD	279.3657	30.89698	9.269497
#1	-.003351	-.008032	.0032124
#2	.002384	-.004262	.0028739
#3	-.002314	-.007484	.0034617

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6726.878	78407.35	4708.272	5241.438	7170.565
Stddev	10.019	363.95	14.804	51.677	11.286
%RSD	.1489404	.4641816	.3144334	.9859227	.1573971
#1	6735.913	78231.86	4691.558	5216.345	7175.686
#2	6728.619	78164.39	4713.523	5207.100	7178.382
#3	6716.103	78825.79	4719.735	5300.870	7157.626

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSAB01 Acquired: 9/30/2025 13:56:31 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.1108445**	**.1075877**	**.0388968**	**.0566945**	**.5994523**	**236.9084**
Stddev	.0020140	.0042659	.0007293	.0031409	.0026174	.1963
%RSD	1.816939	3.965050	1.875044	5.540093	.4366356	.0828739
#1	.1106040	.1053635	.0390422	.0531914	.5965397	236.7364
#2	.1129679	.1125061	.0381057	.0576324	.6002097	237.1223
#3	.1089616	.1048936	.0395425	.0592596	.6016076	236.8664

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4957167**	**.4906645**	**.9796104**	**230.3162**	**.5503526**	**.4890561**
Stddev	.0017534	.0038462	.0027556	.4575	.0004137	.0017867
%RSD	.3537015	.7838730	.2812912	.1986238	.0751692	.3653474
#1	.4977349	.4946153	.9767881	229.9243	.5500403	.4874646
#2	.4948470	.4869323	.9797489	230.8189	.5508218	.4887148
#3	.4945682	.4904459	.9822940	230.2055	.5501957	.4909889

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4690298**	**101.4360**	**.4948959**	**241.6779**	**.9783926**	**.2061131**
Stddev	.0007655	.8388	.0013172	.4210	.0046368	.0009215
%RSD	.1632162	.8269605	.2661625	.1742122	.4739227	.4470864
#1	.4692400	100.6380	.4962804	241.3802	.9735344	.2056357
#2	.4681811	102.3104	.4947491	242.1596	.9788728	.2055282
#3	.4696683	101.3596	.4936583	241.4938	.9827706	.2071753

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0965905**	**.4833760**	**1.000454**	**-.159716**	**.9625347**	**1.005236**
Stddev	.0386770	.0063707	.002470	.069885	.0093695	.015577
%RSD	40.04219	1.317950	.2468448	43.75576	.9734162	1.549541
#1	.1011747	.4895462	1.001747	-.239401	.9733475	.988721
#2	.1327711	.4768222	1.002009	-.108841	.9574424	1.007323
#3	.0558258	.4837597	.997607	-.130907	.9568141	1.019664

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSAB01 Acquired: 9/30/2025 13:56:31 Type: Unk
Method: 6010-200.7 NEW(v228) 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	1.024798	.9826908	.9489267	F .0070675	1.038237	1.024561
Stddev	.022363	.0064251	.0167099	.0006621	.034123	.018427
%RSD	2.182166	.6538268	1.760923	9.367667	3.286608	1.798565
#1	1.002404	.9874105	.9617917	.0073649	.999311	1.039188
#2	1.024860	.9852884	.9549476	.0075288	1.052414	1.030629
#3	1.047130	.9753736	.9300407	.0063089	1.062986	1.003864

Elem	Sr4077
Units	ppm
Avg	.9967437
Stddev	.0242791
%RSD	2.435839
#1	1.018064
#2	1.001850
#3	.970318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6767.666	77774.87	4811.428	5179.201	7223.103
Stddev	20.623	138.68	40.912	13.677	13.180
%RSD	.3047311	.1783079	.8503193	.2640680	.1824643
#1	6747.347	77860.92	4771.610	5163.415	7209.126
#2	6767.070	77848.80	4853.354	5186.716	7224.875
#3	6788.581	77614.89	4809.320	5187.473	7235.306

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSADLX20 Acquired: 9/30/2025 14:00:32 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.001198**	**-.001569**	**-.000951**	**.0047626**	**.0021778**	**12.29642**	**.0002861**
Stddev	.001263	.003711	.000661	.0011669	.0011496	.08289	.0012502
%RSD	105.3659	236.5365	69.50003	24.50024	52.78793	.6741046	436.9308
#1	-.002377	.002697	-.001551	.0040980	.0014082	12.28243	.0010524
#2	.000134	-.004058	-.000242	.0040799	.0016259	12.22141	.0009626
#3	-.001353	-.003346	-.001059	.0061099	.0034993	12.38542	-.001157

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000528**	**-.000233**	**12.15025**	**.0022576**	**-.000381**	**.0005422**	**5.014528**
Stddev	.0000873	.000075	.07243	.0006528	.000108	.0006697	.047330
%RSD	165.3991	32.27969	.5960992	28.91356	28.29010	123.5099	.9438577
#1	-.000047	-.000146	12.17998	.0022057	-.000281	.0010670	4.976690
#2	.000115	-.000280	12.06769	.0016324	-.000495	-.000212	5.067599
#3	.000090	-.000272	12.20308	.0029348	-.000367	.000772	4.999294

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001199**	**12.84705**	**.0001524**	**-.000370**	**-.111453**	**.0027785**	**.0000658**
Stddev	.0002549	.07500	.0001425	.000716	.032399	.0028094	.0002287
%RSD	212.5735	.5837790	93.47600	193.3964	29.06972	101.1085	347.3754
#1	.0003416	12.82661	-.000008	-.000444	-.107370	.0053670	.0000178
#2	.0001769	12.93015	.000264	-.001047	-.145700	-.000209	-.000135
#3	-.000159	12.78439	.000202	.000380	-.081289	.003178	.000315

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.280386**	**.0001796**	**.0001864**	**.0153800**	**-.001066**	**.0360170**	**.0103584**
Stddev	.063334	.0004094	.0003400	.0006857	.002724	.0249428	.0008895
%RSD	22.58808	227.9956	182.3685	4.458260	255.5943	69.25263	8.587614
#1	-.328791	-.000276	.0005489	.0155808	.000840	.0461603	.0113383
#2	-.208708	.000517	.0001356	.0159429	.000149	.0542901	.0096018
#3	-.303657	.000297	-.000125	.0146163	-.004186	.0076007	.0101351

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSADLX20 Acquired: 9/30/2025 14:00:32 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0029370	-.008873	.0000273
Stddev	.0024555	.002656	.0000352
%RSD	83.60599	29.93751	129.0963
#1	.0040187	-.006154	.0000211
#2	.0046660	-.011462	.0000651
#3	.0001264	-.009003	-.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7198.100	83175.04	4842.447	5523.442	8433.716
Stddev	7.848	270.87	25.974	42.538	3.230
%RSD	.1090230	.3256684	.5363904	.7701375	.0382950
#1	7192.105	83296.27	4823.761	5510.180	8430.178
#2	7195.212	82864.72	4872.107	5489.115	8434.463
#3	7206.982	83364.12	4831.473	5571.031	8436.506

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSABDLX20 Acquired: 9/30/2025 14:04:49 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0061095	.0033431	.0014188	.0084315	.0323723	12.09964	.0221667
Stddev	.0004438	.0010426	.0009054	.0006748	.0017260	.05327	.0014694
%RSD	7.264641	31.18640	63.81279	8.003542	5.331744	.4402948	6.628661
#1	.0063859	.0045013	.0021194	.0077893	.0306354	12.12774	.0236534
#2	.0063450	.0030483	.0003965	.0091348	.0323942	12.03820	.0207153
#3	.0055975	.0024796	.0017404	.0083705	.0340872	12.13299	.0221315

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254069	.0461752	11.94449	.0275446	.0230867	.0253371	4.897296
Stddev	.0002331	.0000638	.04567	.0002262	.0004067	.0003108	.040130
%RSD	.9176429	.1381925	.3823828	.8211022	1.761479	1.226634	.8194270
#1	.0253279	.0461272	11.98112	.0277578	.0233422	.0255675	4.937644
#2	.0252234	.0461507	11.89332	.0273073	.0226178	.0254603	4.896857
#3	.0256692	.0462476	11.95904	.0275686	.0233002	.0249837	4.857388

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0245788	12.60802	.0468843	.0095496	-.096257	.0228643	.0501719
Stddev	.0013005	.05121	.0003502	.0010940	.014881	.0002231	.0002219
%RSD	5.291259	.4061561	.7470063	11.45559	15.45938	.9755915	.4421738
#1	.0239333	12.64986	.0468653	.0090581	-.083238	.0226185	.0499165
#2	.0237274	12.55091	.0472436	.0108031	-.112479	.0229207	.0502827
#3	.0260758	12.62327	.0465439	.0087876	-.093055	.0230539	.0503166

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.452518	.0463785	.0491823	.0622754	.0476536	.0417147	-.000237
Stddev	.056525	.0016362	.0002112	.0003587	.0010909	.0217996	.001541
%RSD	12.49124	3.527858	.4294714	.5759456	2.289262	52.25881	651.4597
#1	-.387349	.0462603	.0490244	.0622102	.0468316	.0272934	.001056
#2	-.488245	.0448046	.0494223	.0626621	.0472379	.0310580	-.001942
#3	-.481959	.0480705	.0491003	.0619537	.0488912	.0667927	.000176

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: ICSABDLX20 Acquired: 9/30/2025 14:04:49 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0546743	.0366207	.0550075
Stddev	.0031671	.0038109	.0003084
%RSD	5.792631	10.40643	.5607128
#1	.0575650	.0356687	.0553632
#2	.0551688	.0333760	.0548455
#3	.0512890	.0408173	.0548138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7179.784	83265.30	4832.387	5502.269	8377.680
Stddev	10.513	154.75	40.836	13.290	18.438
%RSD	.1464231	.1858471	.8450431	.2415308	.2200812
#1	7179.670	83329.37	4852.935	5516.980	8371.225
#2	7169.329	83377.72	4858.867	5498.696	8363.338
#3	7190.353	83088.81	4785.358	5491.132	8398.478

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV01 Acquired: 9/30/2025 14:08:56 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.911727**	**4.746685**	**4.851628**	**4.923490**	**4.898274**	**9.681292**	**9.811857**
Stddev	.017428	.135370	.010546	.021979	.012325	.033525	.071616
%RSD	.3548252	2.851877	.2173678	.4464010	.2516263	.3462841	.7298893
#1	4.898324	4.653529	4.839814	4.912379	4.890180	9.675164	9.838005
#2	4.905428	4.684560	4.854980	4.909285	4.892183	9.717457	9.866725
#3	4.931429	4.901966	4.860091	4.948806	4.912459	9.651253	9.730842

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2446658**	**2.434748**	**24.38121**	**.9672779**	**2.427398**	**1.225766**	**4.801438**
Stddev	.0010558	.004930	.03541	.0027832	.005053	.001814	.024305
%RSD	.4315438	.2024709	.1452271	.2877387	.2081824	.1479866	.5061930
#1	.2452168	2.429324	24.40396	.9703377	2.421615	1.224462	4.806364
#2	.2453322	2.435965	24.39926	.9665993	2.429609	1.224998	4.822902
#3	.2434485	2.438955	24.34042	.9648968	2.430968	1.227838	4.775048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.451941**	**24.18207**	**2.432668**	**1.209796**	**23.84991**	**2.432089**	**2.428839**
Stddev	.006908	.04137	.004245	.000474	.22607	.009478	.004759
%RSD	.2817326	.1710762	.1745029	.0392166	.9478870	.3897188	.1959316
#1	2.454921	24.20938	2.427807	1.210304	23.99952	2.440242	2.428480
#2	2.456859	24.13448	2.435644	1.209719	23.96037	2.421689	2.424270
#3	2.444044	24.20237	2.434554	1.209365	23.58985	2.434336	2.433767

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.83286**	**4.906625**	**4.856676**	**4.862674**	**4.883112**	**4.652776**	**4.853230**
Stddev	.15777	.016995	.012148	.016618	.022143	.047667	.027158
%RSD	.6619855	.3463673	.2501373	.3417538	.4534546	1.024481	.5595919
#1	23.89929	4.917346	4.849581	4.845631	4.889350	4.628157	4.825746
#2	23.94655	4.915498	4.849745	4.863559	4.901466	4.622452	4.853893
#3	23.65274	4.887029	4.870704	4.878832	4.858519	4.707718	4.880051

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV01 Acquired: 9/30/2025 14:08:56 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.861670**	**4.852396**	**4.852312**
Stddev	.041211	.039146	.055862
%RSD	.8476718	.8067252	1.151246
#1	4.830175	4.856221	4.911516
#2	4.846524	4.889489	4.844884
#3	4.908311	4.811479	4.800535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6993.712**	**85254.96**	**4793.109**	**5463.024**	**7674.240**
Stddev	18.875	526.02	38.072	19.643	9.431
%RSD	.2698911	.6169937	.7943005	.3595561	.1228914
#1	6980.690	85395.88	4798.004	5473.572	7667.299
#2	7015.359	84672.84	4752.826	5440.361	7684.977
#3	6985.087	85696.17	4828.496	5475.140	7670.444

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB01 Acquired: 9/30/2025 14:18:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0011857**	**.0004835**	**-.000453**	**.0066679**	**.0010727**	**.0266702**	**.0012725**
Stddev	.0014061	.0029544	.001255	.0039978	.0011206	.0117792	.0013303
%RSD	118.5877	611.1058	276.6508	59.95588	104.4640	44.16591	104.5387
#1	.0026378	.0021537	.000167	.0102822	.0023631	.0382758	.0027763
#2	-.000169	.0022245	.000370	.0023738	.0003439	.0270101	.0007923
#3	.001089	-.002928	-.001897	.0073476	.0005111	.0147248	.0002490

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000076**	**-.000045**	**.1455164**	**-.000063**	**-.000364**	**.0003924**	**.0088538**
Stddev	.000033	.000123	.0167646	.000335	.000258	.0007389	.0025694
%RSD	43.65000	271.8969	11.52077	536.2148	71.01046	188.2855	29.01962
#1	-.000114	-.000141	.1400225	.000307	-.000657	-.000153	.0066904
#2	-.000056	.000093	.1643387	-.000347	-.000169	.001233	.0116937
#3	-.000058	-.000087	.1321881	-.000148	-.000265	.000097	.0081773

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000492**	**.1034821**	**-.000625**	**-.000688**	**.2388481**	**.0071297**	**.0005022**
Stddev	.000673	.0297375	.000246	.000888	.0695447	.0007917	.0001284
%RSD	136.6654	28.73683	39.35615	129.0399	29.11669	11.10463	25.55546
#1	.000211	.0765001	-.000343	-.001362	.3029979	.0064377	.0005096
#2	-.001130	.0985803	-.000737	-.001020	.1649395	.0069583	.0006268
#3	-.000558	.1353659	-.000795	.000318	.2486070	.0079930	.0003704

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.323572**	**-.000731**	**-.000206**	**-.007818**	**.0026821**	**.0204561**	**-.000279**
Stddev	.060949	.001068	.000168	.000232	.0044146	.0061793	.000293
%RSD	18.83616	146.0681	81.39203	2.971862	164.5916	30.20780	104.8312
#1	-.274394	.000359	-.000320	-.008026	-.001764	.0258623	-.000576
#2	-.304563	-.001775	-.000284	-.007567	.007065	.0217859	.000008
#3	-.391760	-.000777	-.000014	-.007859	.002745	.0137201	-.000269

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB01 Acquired: 9/30/2025 14:18:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0041622	-.001442	-.000228
Stddev	.0032217	.002497	.000244
%RSD	77.40365	173.1380	107.3752
#1	.0062103	-.003267	-.000146
#2	.0004487	-.002465	-.000034
#3	.0058276	.001404	-.000502

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7169.217	85341.41	4792.615	5551.013	8540.807
Stddev	30.288	135.01	19.080	17.562	30.457
%RSD	.4224726	.1582050	.3981131	.3163793	.3566081
#1	7196.807	85413.42	4779.055	5570.405	8572.188
#2	7136.809	85425.15	4784.357	5546.452	8511.366
#3	7174.035	85185.65	4814.433	5536.181	8538.866

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-1 Acquired: 9/30/2025 14:22:17 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006079**	**.0088558**	**.0150122**	**-.013638**	**.0242739**	**.3084887**	**.0189955**
Stddev	.000725	.0020717	.0016947	.001474	.0027133	.0348950	.0037685
%RSD	11.92353	23.39441	11.28894	10.80944	11.17788	11.31161	19.83920
#1	-.006590	.0109931	.0153969	-.013111	.0255721	.2936859	.0146685
#2	-.006398	.0068565	.0131583	-.012500	.0211554	.2834353	.0207590
#3	-.005249	.0087177	.0164816	-.015304	.0260942	.3483451	.0215589

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008294**	**.0004868**	**2460.887**	**.0340132**	**.0072927**	**.0099432**	**.6281908**
Stddev	.0001121	.0000722	15.822	.0001609	.0001659	.0004340	.0056975
%RSD	13.51090	14.83135	.6429191	.4729754	2.274772	4.364693	.9069696
#1	.0007464	.0005507	2444.166	.0339473	.0074737	.0100001	.6337738
#2	.0009569	.0005014	2462.872	.0338958	.0071479	.0094835	.6223853
#3	.0007850	.0004085	2475.621	.0341966	.0072563	.0103459	.6284132

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0269157**	**2216.865**	**.0279082**	**-.002101**	**2369.018**	**.0146135**	**.0621764**
Stddev	.0017274	6.459	.0004030	.000409	32.469	.0020661	.0005132
%RSD	6.417874	.2913657	1.444176	19.46660	1.370554	14.13825	.8253653
#1	.0289053	2218.592	.0275381	-.001799	2405.459	.0138618	.0627294
#2	.0257980	2209.718	.0278489	-.001938	2343.166	.0130285	.0620844
#3	.0260440	2222.286	.0283376	-.002566	2358.427	.0169502	.0617154

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.99552**	**.0068939**	**.0039590**	**-.011399**	**-.085676**	**.0304417**	**.0153763**
Stddev	.98575	.0003513	.0006361	.002591	.004157	.0367048	.0024477
%RSD	5.800076	5.095779	16.06824	22.72591	4.852351	120.5742	15.91850
#1	16.02178	.0070068	.0034845	-.009463	-.088194	-.010758	.0179524
#2	16.97192	.0065001	.0037106	-.014342	-.080878	.059653	.0150952
#3	17.99286	.0071749	.0046818	-.010393	-.087957	.042430	.0130814

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-1 Acquired: 9/30/2025 14:22:17 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2350183	-.343082	.0612943
Stddev	.0122229	.004689	.0003056
%RSD	5.200817	1.366709	.4986600
#1	.2379300	-.339318	.0615781
#2	.2455225	-.348335	.0613342
#3	.2216026	-.341595	.0609707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5305.935	64700.35	4557.754	4125.305	5324.508
Stddev	2.141	252.17	10.458	19.379	9.359
%RSD	.0403517	.3897495	.2294593	.4697639	.1757748
#1	5303.696	64411.60	4567.899	4105.347	5320.721
#2	5306.146	64877.21	4558.354	4126.520	5317.635
#3	5307.962	64812.26	4547.008	4144.048	5335.167

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-2 Acquired: 9/30/2025 14:26:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0853286**	**-.287501**	**-.022667**	**.0600565**	**-.206985**	**1802.819**	**.0217321**
Stddev	.0035905	.004547	.003637	.0138768	.005761	6.348	.0006250
%RSD	4.207837	1.581655	16.04423	23.10623	2.783134	.3520900	2.876027
#1	.0889494	-.282608	-.019830	.0592318	-.200506	1809.995	.0214690
#2	.0852673	-.291596	-.021405	.0743273	-.211530	1797.939	.0224457
#3	.0817692	-.288300	-.026767	.0466105	-.208918	1800.523	.0212817

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0545050**	**-.096989**	**8.376985**	**-.271034**	**.0227757**	**2.744618**	**2754.751**
Stddev	.0005454	.001812	.244192	.000586	.0004052	.030442	8.979
%RSD	1.000598	1.868334	2.915033	.2161192	1.779070	1.109152	.3259388
#1	.0549465	-.096929	8.512102	-.271061	.0232277	2.731569	2746.087
#2	.0546732	-.098830	8.523757	-.271605	.0226546	2.722875	2764.014
#3	.0538953	-.095207	8.095097	-.270435	.0224449	2.779409	2754.153

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.253686**	**1.852890**	**.0497667**	**^ *****	**44.61561**	**.0499582**	**-.088245**
Stddev	.002696	.031608	.0012003	-----	.26174	.0063047	.001224
%RSD	1.062652	1.705888	2.411900	-----	.5866588	12.62006	1.386480
#1	-.254839	1.817969	.0508389	^ -----	44.76918	.0459244	-.087694
#2	-.250606	1.879540	.0484700	^ -----	44.31339	.0467266	-.089647
#3	-.255614	1.861162	.0499914	^ -----	44.76426	.0572235	-.087394

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1762.912**	**^ *****	**-.019106**	**-.045520**	**.0076056**	**.5504310**	**.0575479**
Stddev	25.498	-----	.000833	.001398	.0020364	.0260265	.0026912
%RSD	1.446332	-----	4.359745	3.071089	26.77515	4.728379	4.676444
#1	1736.375	^ -----	-.019890	-.044283	.0098614	.5204158	.0544435
#2	1765.135	^ -----	-.018231	-.045242	.0059027	.5641381	.0592200
#3	1787.225	^ -----	-.019197	-.047037	.0070528	.5667391	.0589804

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-2 Acquired: 9/30/2025 14:26:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.446922	.2898202	-2.64155
Stddev	.006213	.0033517	.00874
%RSD	1.390146	1.156464	.3307096
#1	-.447535	.2911908	-2.63299
#2	-.452805	.2922692	-2.65046
#3	-.440425	.2860004	-2.64120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6373.238	71968.70	4733.630	4944.117	5381.645
Stddev	19.357	127.03	45.110	23.097	16.596
%RSD	.3037257	.1765081	.9529581	.4671627	.3083772
#1	6378.277	72097.06	4705.892	4920.377	5382.219
#2	6389.578	71965.99	4709.316	4945.462	5397.946
#3	6351.860	71843.04	4785.680	4966.512	5364.769

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831BL Acquired: 9/30/2025 14:46:36 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001422**	**.0015563**	**.0002898**	**.0024065**	**.0012139**	**.0189310**	**-.001469**
Stddev	.001303	.0033215	.0005898	.0022992	.0031109	.0189944	.001814
%RSD	91.58776	213.4269	203.5365	95.53996	256.2753	100.3349	123.4870
#1	-.000146	.0045233	.0006230	.0038890	-.002220	.0325514	-.000238
#2	-.002750	-.002032	.0006377	-.000242	.002019	.0270087	-.003553
#3	-.001371	.002178	-.000391	.003573	.003843	-.002767	-.000617

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000085**	**-.000124**	**-.006924**	**-.000923**	**-.000438**	**-.000027**	**-.007540**
Stddev	.000020	.000072	.028742	.000648	.000194	.000859	.007359
%RSD	23.43266	58.41799	415.1035	70.22330	44.17652	3228.898	97.60281
#1	-.000090	-.000092	-.002724	-.000452	-.000252	-.000317	-.014918
#2	-.000063	-.000207	-.037535	-.001663	-.000639	-.000702	-.007500
#3	-.000103	-.000073	.019486	-.000655	-.000424	.000940	-.000201

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000307**	**-.028833**	**.0001020**	**-.000217**	**.3616851**	**.0029877**	**-.000177**
Stddev	.000535	.020413	.0003202	.000963	.0365611	.0045390	.000239
%RSD	174.5694	70.79545	313.8937	442.9393	10.10855	151.9226	135.3959
#1	-.000188	-.039093	-.000108	-.000503	.3202738	.0063796	.000064
#2	.000159	-.042081	.000471	-.001005	.3895001	-.002169	-.000180
#3	-.000891	-.005326	-.000056	.000856	.3752815	.004752	-.000414

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6002858**	**-.004550**	**-.000070**	**.0104321**	**-.000622**	**.0146915**	**.0000415**
Stddev	.1190868	.001631	.000386	.0004768	.002569	.0189332	.0012369
%RSD	19.83834	35.84422	554.2493	4.570496	412.7761	128.8719	2982.174
#1	.6064825	-.004141	-.000515	.0108611	-.001962	.0091570	.0012332
#2	.4782217	-.006347	.000166	.0099188	.002340	-.000858	-.001236
#3	.7161533	-.003163	.000140	.0105164	-.002245	.035775	.000127

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831BL Acquired: 9/30/2025 14:46:36 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000251	-.000097	-.000311
Stddev	.002395	.001097	.000341
%RSD	953.9211	1134.135	109.7233
#1	-.001023	-.000634	-.000570
#2	.002435	-.000821	-.000439
#3	-.002165	.001165	.000076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7093.159	88651.95	4820.204	5677.201	8303.338
Stddev	10.154	336.06	19.958	30.012	19.649
%RSD	.1431577	.3790775	.4140567	.5286451	.2366446
#1	7083.114	88410.47	4803.133	5676.142	8284.583
#2	7092.945	89035.76	4842.148	5707.729	8301.658
#3	7103.419	88509.64	4815.332	5647.733	8323.774

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831BS Acquired: 9/30/2025 14:50:48 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7879239**	**1.895126**	**.9420796**	**2.029405**	**.8108581**	**1.952104**
Stddev	.0022892	.021195	.0017518	.003592	.0014521	.018106
%RSD	.2905350	1.118379	.1859552	.1770165	.1790870	.9275064
#1	.7854642	1.917851	.9404297	2.033525	.8108415	1.969180
#2	.7883153	1.891631	.9418909	2.026927	.8094144	1.954013
#3	.7899922	1.875896	.9439181	2.027764	.8123185	1.933119

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1978500**	**.2030604**	**.1899466**	**.9833479**	**.3918763**	**.1924086**
Stddev	.0009702	.0005948	.0001482	.0162960	.0003652	.0001800
%RSD	.4903846	.2929295	.0780437	1.657193	.0931866	.0935247
#1	.1988254	.2032491	.1897863	.9995984	.3921609	.1925217
#2	.1978397	.2035380	.1899745	.9834386	.3914645	.1925031
#3	.1968850	.2023941	.1900788	.9670068	.3920034	.1922011

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3050289**	**2.880896**	**.1981351**	**1.952723**	**.4797787**	**.0736367**
Stddev	.0002526	.017424	.0014008	.080499	.0001590	.0013403
%RSD	.0828292	.6048194	.7070051	4.122399	.0331374	1.820091
#1	.3047963	2.900821	.1976403	2.034193	.4796678	.0721089
#2	.3049927	2.873358	.1997162	1.873231	.4799608	.0746141
#3	.3052977	2.868511	.1970488	1.950745	.4797074	.0741871

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.943891**	**.2955430**	**.1852485**	**9.785674**	**.2929421**	**.3978661**
Stddev	.016730	.0083064	.0007326	.069592	.0029884	.0005747
%RSD	.5683061	2.810563	.3954867	.7111644	1.020123	.1444363
#1	2.944186	.2965023	.1855137	9.766876	.2952334	.3984908
#2	2.960471	.2867987	.1844202	9.727412	.2895620	.3977474
#3	2.927014	.3033282	.1858117	9.862734	.2940308	.3973600

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831BS Acquired: 9/30/2025 14:50:48 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.6897636	.1956777	.8313317	5.709411	F 4.255863	.1974800
Stddev	.0012263	.0035507	.0183454	.015414	.009091	.0034555
%RSD	.1777825	1.814563	2.206755	.2699802	.2136176	1.749797
#1	.6884322	.1947157	.8454172	5.711290	4.258086	.1936429
#2	.6908467	.1996103	.8379913	5.693144	4.245867	.2003462
#3	.6900119	.1927072	.8105866	5.723800	4.263637	.1984508

Elem	Sr4077
Units	ppm
Avg	.1900135
Stddev	.0009238
%RSD	.4861855
#1	.1910095
#2	.1898465
#3	.1891846

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7112.454	86084.55	4816.113	5550.515	8179.704
Stddev	8.620	279.13	7.418	12.930	9.218
%RSD	.1211899	.3242526	.1540144	.2329555	.1126899
#1	7112.916	86223.40	4819.082	5548.190	8186.284
#2	7103.613	86267.02	4821.586	5564.450	8169.169
#3	7120.833	85763.22	4807.671	5538.905	8183.660

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-01DLX25 Acquired: 9/30/2025 14:54:47 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000963**	**.0007091**	**-.000561**	**.0067148**	**.0012787**	**.2033432**	**.0150555**
Stddev	.000696	.0014247	.002555	.0058818	.0010067	.0133688	.0018450
%RSD	72.35234	200.9091	455.7075	87.59403	78.72604	6.574522	12.25447
#1	-.000259	-.000055	.002044	.0081109	.0005192	.2080782	.0163765
#2	-.001651	.002353	-.000663	.0117729	.0024206	.1882513	.0129475
#3	-.000977	-.000170	-.003064	.0002606	.0008963	.2137001	.0158424

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000130**	**.0023087**	**8.656832**	**-.000259**	**.0000154**	**-.000133**	**.0128237**
Stddev	.000014	.0000859	.036976	.000186	.0002245	.000305	.0054910
%RSD	10.57978	3.721178	.4271254	71.84725	1455.625	229.8474	42.81914
#1	-.000118	.0022664	8.694167	-.000097	.0002459	-.000341	.0130382
#2	-.000128	.0024075	8.656102	-.000462	-.000203	-.000274	.0182043
#3	-.000145	.0022521	8.620226	-.000217	.000003	.000217	.0072286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9085369**	**1.023289**	**.0003009**	**-.000406**	**.5025169**	**-.001849**	**.0045209**
Stddev	.0027532	.020614	.0003785	.000929	.0518836	.006793	.0002345
%RSD	.3030329	2.014443	125.7810	228.8474	10.32474	367.4287	5.186273
#1	.9074664	1.032083	.0002181	.000280	.4512275	-.004834	.0042725
#2	.9064797	1.038047	-.000029	-.000035	.5549749	.005926	.0045518
#3	.9116645	.999737	.000714	-.001464	.5013484	-.006639	.0047384

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8932166**	**-.000062**	**-.000095**	**.0093610**	**-.001272**	**.1872733**	**.0016881**
Stddev	.0787804	.002143	.000386	.0008387	.004372	.0277880	.0008133
%RSD	8.819857	3431.573	407.8095	8.959058	343.6700	14.83820	48.17631
#1	.8153561	-.000434	-.000122	.0103238	.002939	.2095256	.0014512
#2	.9728858	.002242	.000304	.0089698	-.000967	.1961672	.0025935
#3	.8914078	-.001996	-.000467	.0087894	-.005789	.1561272	.0010196

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-01DLX25 Acquired: 9/30/2025 14:54:47 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.981019**	**-.013389**	**.0183137**
Stddev	.005429	.001162	.0002865
%RSD	.0907712	8.675658	1.564406
#1	5.977240	-.013812	.0185234
#2	5.987240	-.014280	.0184305
#3	5.978576	-.012075	.0179873

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7150.697**	**87418.91**	**4910.274**	**5621.753**	**8297.321**
Stddev	8.307	371.67	53.633	17.495	7.225
%RSD	.1161765	.4251643	1.092260	.3111961	.0870796
#1	7159.376	87237.68	4848.367	5616.644	8305.322
#2	7149.894	87172.62	4939.774	5607.382	8291.273
#3	7142.820	87846.44	4942.681	5641.233	8295.369

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-02DLX40 Acquired: 9/30/2025 14:58:56 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002355**	**.0014707**	**-.000204**	**.0033965**	**.0027046**	**.1452436**	**.0104623**
Stddev	.001767	.0010008	.000443	.0014821	.0014482	.0185739	.0049396
%RSD	75.02309	68.04817	217.1936	43.63486	53.54573	12.78811	47.21313
#1	-.000768	.0021605	-.000224	.0050295	.0035463	.1396595	.0155201
#2	-.002038	.0019288	.000249	.0021366	.0035352	.1301024	.0056501
#3	-.004259	.0003229	-.000636	.0030236	.0010324	.1659690	.0102168

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000060**	**.0000276**	**9.146765**	**-.000250**	**-.000375**	**-.000208**	**-.010630**
Stddev	.000054	.0000958	.133855	.000441	.000141	.000382	.006532
%RSD	89.43094	347.6708	1.463413	176.5153	37.61273	183.7363	61.44877
#1	-.000114	.0001118	9.289325	.000069	-.000450	.000168	-.005130
#2	-.000007	-.000077	9.127200	-.000065	-.000212	-.000596	-.017850
#3	-.000059	.000048	9.023769	-.000753	-.000463	-.000196	-.008910

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3465305**	**1.220446**	**.0000606**	**-.000167**	**.5273616**	**-.003480**	**.0029422**
Stddev	.0034044	.009827	.0002538	.000576	.0296192	.002408	.0001602
%RSD	.9824275	.8052015	418.9544	344.5024	5.616482	69.20125	5.444699
#1	.3490132	1.210514	.0001978	-.000693	.5145577	-.001587	.0031218
#2	.3479287	1.220658	.0002162	.000448	.5612289	-.006190	.0028141
#3	.3426496	1.230165	-.000232	-.000257	.5062983	-.002662	.0028906

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7477571**	**.0001976**	**-.000373**	**.0146680**	**.0004985**	**.1956359**	**.0027910**
Stddev	.0838914	.0013764	.000330	.0016567	.0017170	.0318990	.0006523
%RSD	11.21907	696.6128	88.41640	11.29483	344.4412	16.30532	23.37215
#1	.8062822	.0010632	-.000739	.0131989	-.001397	.1944290	.0020596
#2	.7853443	.0009190	-.000101	.0143413	.001950	.1643574	.0030010
#3	.6516449	-.001390	-.000278	.0164637	.000943	.2281212	.0033125

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-02DLX40 Acquired: 9/30/2025 14:58:56 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.235633**	**-.011810**	**.0196563**
Stddev	.107455	.002693	.0000747
%RSD	2.052376	22.80555	.3801181
#1	5.332542	-.009630	.0197417
#2	5.254284	-.014821	.0196030
#3	5.120074	-.010980	.0196242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7256.168**	**86675.30**	**4896.398**	**5565.249**	**8507.246**
Stddev	11.381	65.01	27.691	6.672	18.611
%RSD	.1568454	.0749995	.5655282	.1198912	.2187641
#1	7268.279	86602.31	4869.477	5572.954	8525.611
#2	7245.695	86726.94	4924.799	5561.437	8488.399
#3	7254.528	86696.66	4894.918	5561.357	8507.727

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-03DLX40 Acquired: 9/30/2025 15:03:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000133**	**.0006124**	**-.000153**	**.0052090**	**.0008500**	**.1749336**	**.0129163**
Stddev	.002768	.0019533	.000757	.0010660	.0002994	.0206977	.0016475
%RSD	2073.763	318.9707	494.0817	20.46475	35.21778	11.83172	12.75550
#1	-.001808	-.000489	-.000662	.0040286	.0011681	.1984753	.0147953
#2	-.001653	.002868	.000716	.0061014	.0005738	.1667310	.0122350
#3	.003061	-.000541	-.000514	.0054971	.0008082	.1595944	.0117187

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000157**	**-.000011**	**9.750228**	**-.000475**	**-.000146**	**.0002258**	**.0030026**
Stddev	.000092	.000063	.139909	.000308	.000159	.0005281	.0039174
%RSD	58.82245	559.5809	1.434935	64.89949	108.7505	233.9391	130.4698
#1	-.000214	.000044	9.896025	-.000435	.000013	.0007836	.0075249
#2	-.000050	.000002	9.737597	-.000188	-.000305	.0001601	.0008278
#3	-.000206	-.000080	9.617063	-.000801	-.000147	-.000266	.0006550

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4194664**	**1.064464**	**.0003294**	**-.000973**	**.4766913**	**-.000655**	**.0116956**
Stddev	.0047961	.025559	.0003278	.000561	.0309567	.003803	.0004834
%RSD	1.143392	2.401156	99.54024	57.60533	6.494084	580.6379	4.133084
#1	.4210492	1.077156	.0004342	-.000414	.4964956	-.002961	.0121261
#2	.4232711	1.035043	-.000038	-.001535	.4925605	.003735	.0111727
#3	.4140789	1.081194	.000592	-.000971	.4410178	-.002739	.0117880

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5241733**	**.0021811**	**-.000056**	**.0151838**	**.0007152**	**.2030501**	**.0050313**
Stddev	.0705348	.0009803	.000312	.0002793	.0019312	.0149891	.0008229
%RSD	13.45638	44.94314	561.5134	1.839822	270.0229	7.381945	16.35534
#1	.4716032	.0022909	-.000406	.0153878	.0026893	.2203348	.0059519
#2	.4965839	.0011506	.000194	.0152982	-.001170	.1936318	.0047750
#3	.6043327	.0031019	.000045	.0148654	.000626	.1951837	.0043672

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-03DLX40 Acquired: 9/30/2025 15:03:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.706022**	**-.011684**	**.0213794**
Stddev	.181565	.001986	.0006048
%RSD	3.181987	16.99848	2.829116
#1	5.897681	-.012147	.0218443
#2	5.683784	-.009508	.0215982
#3	5.536600	-.013398	.0206956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7247.087**	**87560.67**	**4832.580**	**5607.696**	**8489.255**
Stddev	6.233	242.51	41.657	37.238	3.852
%RSD	.0860036	.2769649	.8619980	.6640577	.0453732
#1	7253.402	87830.74	4869.556	5650.524	8488.041
#2	7246.918	87361.53	4787.449	5582.966	8493.568
#3	7240.940	87489.74	4840.734	5589.598	8486.157

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DLX40 Acquired: 9/30/2025 15:07:14 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000588**	**.0000418**	**-.000162**	**.0042670**	**-.001775**	**.0477534**	**.0142886**
Stddev	.000584	.0024951	.001894	.0013957	.002381	.0242238	.0020865
%RSD	99.33651	5971.351	1166.233	32.71032	134.1641	50.72690	14.60286
#1	-.000671	-.002683	.000042	.0046571	.000389	.0366427	.0118899
#2	-.001126	.002215	-.002151	.0054261	-.001387	.0755396	.0152923
#3	.000033	.000594	.001621	.0027177	-.004326	.0310780	.0156836

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000130**	**.0000538**	**12.02423**	**.0000814**	**-.000089**	**-.000257**	**-.004781**
Stddev	.000048	.0001464	.17541	.0001359	.000230	.000149	.005670
%RSD	36.89027	271.9565	1.458803	166.8489	258.4417	58.06944	118.5995
#1	-.000078	.0002199	12.17971	.0001492	.000127	-.000220	-.009552
#2	-.000172	-.000002	12.05891	-.000075	-.000062	-.000129	-.006276
#3	-.000141	-.000056	11.83407	.000170	-.000331	-.000420	.001487

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3142840**	**1.460098**	**-.000045**	**-.000660**	**.4252078**	**-.002438**	**.0034383**
Stddev	.0029480	.053622	.000284	.000366	.0213871	.006122	.0004136
%RSD	.9380161	3.672474	625.3768	55.47053	5.029803	251.0511	12.02796
#1	.3173385	1.519848	.000165	-.000264	.4009889	-.009142	.0033241
#2	.3140579	1.416161	-.000369	-.000731	.4331344	.002856	.0038970
#3	.3114555	1.444284	.000067	-.000986	.4414999	-.001030	.0030939

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7837404**	**.0010318**	**-.000122**	**.0142454**	**.0007599**	**.2244734**	**.0036938**
Stddev	.0608345	.0000674	.000543	.0011828	.0030543	.0139970	.0007583
%RSD	7.762078	6.531118	444.3774	8.302913	401.9568	6.235480	20.52887
#1	.8324917	.0010830	-.000718	.0128996	-.002640	.2405765	.0045329
#2	.7155660	.0010569	.000345	.0151198	.001649	.2176193	.0034909
#3	.8031635	.0009554	.000006	.0147168	.003271	.2152245	.0030576

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DLX40 Acquired: 9/30/2025 15:07:14 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**6.711086**	**-.012840**	**.0244737**
Stddev	.227727	.005650	.0004083
%RSD	3.393289	44.00652	1.668438
#1	6.937428	-.018767	.0249452
#2	6.713830	-.012237	.0242356
#3	6.482000	-.007515	.0242404

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7210.956**	**87065.53**	**4871.126**	**5560.603**	**8403.771**
Stddev	7.154	164.13	12.062	36.886	8.593
%RSD	.0992164	.1885088	.2476244	.6633524	.1022552
#1	7219.180	87251.22	4871.404	5569.700	8405.869
#2	7206.164	87005.51	4858.927	5592.090	8394.323
#3	7207.524	86939.86	4883.046	5520.020	8411.121

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DUPDLX40 Acquired: 9/30/2025 15:11:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002933**	**.0007295**	**-.000802**	**.0014901**	**.0002754**	**.0430536**	**.0124540**
Stddev	.0010441	.0007208	.000755	.0023467	.0024632	.0041755	.0021908
%RSD	355.9987	98.81132	94.15502	157.4857	894.5069	9.698458	17.59137
#1	.0011991	.0000227	-.000878	.0014548	-.002420	.0388234	.0099726
#2	-.000849	.0007023	-.000012	-.000839	.002409	.0471722	.0141209
#3	.000529	.0014636	-.001516	.003854	.000837	.0431653	.0132684

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**.0001503**	**13.13562**	**-.000429**	**-.000218**	**.0003485**	**-.002740**
Stddev	.000077	.0001113	.26799	.000613	.000361	.0004186	.002750
%RSD	141.1024	74.05748	2.040145	143.0326	165.9340	120.1112	100.3321
#1	.000030	.0002777	13.42266	.000203	.000018	-.000102	.000301
#2	-.000073	.0001008	13.09220	-.000468	-.000634	.000725	-.003474
#3	-.000121	.0000723	12.89199	-.001021	-.000037	.000422	-.005049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3414452**	**1.582954**	**.0001701**	**-.001115**	**.4117055**	**.0080344**	**.0040638**
Stddev	.0082365	.040085	.0003737	.000411	.0379534	.0041643	.0008715
%RSD	2.412247	2.532313	219.6677	36.85399	9.218590	51.83103	21.44427
#1	.3505026	1.574912	.0004825	-.000810	.4287135	.0118509	.0050402
#2	.3394292	1.626450	.0002718	-.001582	.4381802	.0035929	.0033647
#3	.3344039	1.547499	-.000244	-.000953	.3682228	.0086593	.0037867

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7872115**	**.0017947**	**-.000216**	**.0147137**	**-.001127**	**.2243882**	**.0032081**
Stddev	.0896801	.0010805	.000135	.0009426	.002911	.0240966	.0008015
%RSD	11.39212	60.20517	62.41159	6.406493	258.1644	10.73881	24.98228
#1	.8902684	.0029354	-.000077	.0142631	-.000800	.2027126	.0035522
#2	.7269091	.0016618	-.000346	.0157971	.001606	.2503347	.0037801
#3	.7444571	.0007868	-.000223	.0140809	-.004188	.2201174	.0022921

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DUPDLX40 Acquired: 9/30/2025 15:11:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.148042**	**-.014119**	**.0269743**
Stddev	.277958	.001379	.0005518
%RSD	3.888587	9.765246	2.045789
#1	7.413065	-.012547	.0275589
#2	7.172320	-.015124	.0264624
#3	6.858742	-.014685	.0269017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7220.503**	**88140.26**	**4907.164**	**5649.300**	**8380.704**
Stddev	22.515	79.63	47.419	6.340	22.552
%RSD	.3118150	.0903410	.9663202	.1122253	.2690926
#1	7195.880	88155.56	4925.509	5641.979	8354.732
#2	7240.038	88054.09	4942.669	5652.981	8392.045
#3	7225.592	88211.13	4853.313	5652.939	8395.334

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-3 Acquired: 9/30/2025 15:31:53 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1223392**	**.0490558**	**207.7847**	**.0240869**	**.3105019**	**.0564651**	**.0032096**
Stddev	.0004773	.0010698	.8606	.0004291	.0035094	.0253522	.0003321
%RSD	.3901416	2.180781	.4141956	1.781283	1.130246	44.89890	10.34829
#1	.1227589	.0482153	207.8497	.0237771	.3123024	.0276041	.0033443
#2	.1218200	.0502601	208.6110	.0245766	.3064576	.0751402	.0028313
#3	.1224386	.0486922	206.8934	.0239069	.3127456	.0666508	.0034532

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007862**	**-.003592**	**.2203753**	**24.01821**	**.0120248**	**48.04118**	**.0620960**
Stddev	.000132	.000132	.0154136	.25284	.0003240	.33169	.0104633
%RSD	1.682177	3.683600	6.994226	1.052684	2.694581	.6904335	16.85022
#1	-.008001	-.003739	.2352930	23.77876	.0122618	47.98293	.0508424
#2	-.007738	-.003554	.2213232	24.28259	.0116555	48.39814	.0639152
#3	-.007847	-.003482	.2045097	23.99330	.0121569	47.74248	.0715304

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.04798**	**-.267154**	**23.37935**	**.0035503**	**-.089688**	**-.047863**	**32.49050**
Stddev	.19453	.042164	.08092	.0003497	.022923	.003414	.50989
%RSD	.3599245	15.78270	.3461174	9.848992	25.55860	7.133847	1.569342
#1	53.96371	-.299977	23.28635	.0038432	-.082074	-.051600	32.07866
#2	53.90979	-.219601	23.41804	.0031632	-.071541	-.047085	33.06081
#3	54.27043	-.281885	23.43367	.0036446	-.115449	-.044905	32.33205

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.017337**	**.0027912**	**-.027451**	**-.009034**	**-.045194**	**-.099402**	**.2341510**
Stddev	.026338	.0006810	.000681	.000940	.001720	.011488	.0012305
%RSD	151.9200	24.39931	2.479625	10.40454	3.806564	11.55758	.5255187
#1	-.045217	.0033508	-.027713	-.009510	-.043333	-.088479	.2327309
#2	-.013918	.0029899	-.027961	-.009641	-.045522	-.111382	.2349007
#3	.007125	.0020329	-.026678	-.007952	-.046726	-.098345	.2348214

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: LR-3 Acquired: 9/30/2025 15:31:53 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1512321	-.013323	.0002467
Stddev	.0027735	.003644	.0001921
%RSD	1.833961	27.34878	77.86057
#1	.1484047	-.009768	.0002422
#2	.1539484	-.013152	.0004411
#3	.1513431	-.017050	.0000570

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6748.606	88075.31	4900.335	5407.908	8464.051
Stddev	43.902	413.05	35.329	40.630	40.864
%RSD	.6505298	.4689684	.7209508	.7513065	.4827965
#1	6768.645	88383.22	4940.145	5422.460	8481.518
#2	6698.260	87605.92	4872.715	5362.006	8417.356
#3	6778.912	88236.79	4888.145	5439.258	8493.279

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV02 Acquired: 9/30/2025 15:41:05 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.984203**	**4.674155**	**4.894823**	**5.036349**	**4.941945**	**9.677836**	**9.887643**
Stddev	.012291	.016434	.001228	.002839	.009706	.040429	.013507
%RSD	.2466071	.3515923	.0250938	.0563759	.1963982	.4177466	.1366056
#1	4.972865	4.655265	4.895618	5.033099	4.930900	9.636208	9.898917
#2	4.997266	4.685166	4.893408	5.038349	4.949114	9.680351	9.872672
#3	4.982478	4.682035	4.895442	5.037598	4.945821	9.716949	9.891338

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2463997**	**2.458668**	**24.57133**	**.9930166**	**2.451284**	**1.232074**	**4.946563**
Stddev	.0005015	.000636	.00959	.0025943	.002715	.001662	.014466
%RSD	.2035358	.0258810	.0390298	.2612513	.1107701	.1348916	.2924446
#1	.2465770	2.457934	24.57209	.9952501	2.448186	1.231260	4.931289
#2	.2467884	2.459009	24.56138	.9936286	2.452416	1.230976	4.960057
#3	.2458336	2.459061	24.58052	.9901710	2.453250	1.233986	4.948343

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.454596**	**24.27611**	**2.448849**	**1.235310**	**23.75781**	**2.454556**	**2.310895**
Stddev	.002809	.10274	.001897	.003308	.12967	.011880	.004594
%RSD	.1144343	.4232002	.0774497	.2677901	.5458046	.4839823	.1987781
#1	2.456859	24.21605	2.446674	1.239024	23.71182	2.466324	2.315815
#2	2.455476	24.39474	2.450158	1.234222	23.65739	2.454778	2.310152
#3	2.451453	24.21754	2.449715	1.232682	23.90420	2.442568	2.306718

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.99652**	**4.932262**	**4.955857**	**4.928302**	**4.879547**	**4.817558**	**4.901514**
Stddev	.11977	.008885	.005759	.005764	.009538	.016638	.007953
%RSD	.4791464	.1801441	.1162054	.1169593	.1954632	.3453569	.1622554
#1	25.02328	4.935028	4.957069	4.921649	4.889713	4.831262	4.906506
#2	24.86564	4.939435	4.949588	4.931790	4.870795	4.799045	4.905694
#3	25.10066	4.922322	4.960913	4.931468	4.878132	4.822366	4.892343

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV02 Acquired: 9/30/2025 15:41:05 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.054031**	**4.715384**	**4.870475**
Stddev	.015425	.005939	.076841
%RSD	.3052043	.1259424	1.577684
#1	5.042595	4.710467	4.800380
#2	5.071574	4.713702	4.858412
#3	5.047922	4.721982	4.952634

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7199.103**	**85194.28**	**4915.811**	**5522.930**	**7918.654**
Stddev	26.488	260.56	19.246	33.553	22.697
%RSD	.3679318	.3058416	.3915159	.6075286	.2866231
#1	7190.787	85433.16	4937.056	5545.458	7911.010
#2	7228.751	85233.24	4910.835	5538.965	7944.186
#3	7177.771	84916.43	4899.541	5484.368	7900.766

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB02 Acquired: 9/30/2025 15:50:15 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.000362**	**.0005746**	**-.000152**	**.0043893**	**.0022325**	**.0132011**	**.0015688**
Stddev	.002409	.0021034	.001022	.0031269	.0008857	.0339447	.0017502
%RSD	665.1490	366.0891	670.5560	71.23875	39.67301	257.1347	111.5619
#1	-.003039	-.001589	.000185	.0063899	.0015772	-.025441	.0035286
#2	.000323	.002612	-.001301	.0007860	.0018802	.026838	.0001619
#3	.001630	.000701	.000658	.0059920	.0032402	.038207	.0010158

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000359**	**.0000212**	**.0211063**	**.0001205**	**-.000415**	**-.000501**	**-.011624**
Stddev	.0000467	.0000435	.0110347	.0005228	.000094	.000335	.003733
%RSD	129.8537	204.9773	52.28146	433.8519	22.65415	66.94875	32.11800
#1	.0000557	-.000026	.0083653	.0006107	-.000394	-.000822	-.008047
#2	.0000695	.000031	.0275954	-.000430	-.000332	-.000527	-.011330
#3	-.000017	.000059	.0273582	.000180	-.000517	-.000153	-.015496

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000776**	**-.072428**	**.0002305**	**-.000626**	**-.134637**	**.0003429**	**-.000502**
Stddev	.001849	.046362	.0005765	.000914	.054560	.0081667	.000312
%RSD	238.2354	64.01142	250.1364	146.1585	40.52360	2381.427	62.10402
#1	.001358	-.018898	.0008136	-.000414	-.077047	.0089085	-.000402
#2	-.001884	-.099786	.0002169	-.001627	-.185553	-.007356	-.000253
#3	-.001802	-.098600	-.000339	.000164	-.141310	-.000524	-.000852

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.091262**	**-.001819**	**.0001727**	**.0155367**	**-.000708**	**.0207967**	**.0011657**
Stddev	.091299	.000458	.0003827	.0007745	.001252	.0134142	.0013105
%RSD	100.0408	25.17009	221.6291	4.985155	176.7391	64.50144	112.4220
#1	-.159341	-.001599	.0003350	.0146829	-.002130	.0355466	-.000183
#2	-.126934	-.002345	.0004474	.0161942	-.000223	.0093264	.002434
#3	.012488	-.001512	-.000264	.0157331	.000228	.0175171	.001246

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB02 Acquired: 9/30/2025 15:50:15 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.001334	-.009822	.0000072
Stddev	.003152	.007177	.0001220
%RSD	236.2222	73.07252	1686.525
#1	-.001176	-.002654	.0000537
#2	-.004562	-.017009	-.000131
#3	.001736	-.009803	.000099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7306.928	88499.16	4964.799	5724.601	8588.820
Stddev	7.173	321.33	59.608	10.315	6.608
%RSD	.0981606	.3630935	1.200614	.1801792	.0769427
#1	7306.445	88847.56	4900.173	5724.605	8583.117
#2	7300.009	88214.42	5017.623	5734.913	8587.281
#3	7314.330	88435.49	4976.601	5714.284	8596.062

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01LDLX200 Acquired: 9/30/2025 16:02:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000940**	**-.001785**	**-.001726**	**.0033070**	**-.000764**	**.0151218**	**.0033496**
Stddev	.001082	.001564	.000862	.0021967	.002476	.0109677	.0023368
%RSD	115.0754	87.62921	49.95269	66.42456	324.2289	72.52884	69.76211
#1	-.001382	-.000322	-.002577	.0036202	-.002592	.0277819	.0055397
#2	.000293	-.003433	-.001748	.0009706	.002054	.0085081	.0036196
#3	-.001732	-.001599	-.000853	.0053303	-.001752	.0090754	.0008896

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000091**	**-.000046**	**2.352449**	**-.000019**	**-.000313**	**-.000230**	**-.015154**
Stddev	.000037	.000084	.031091	.000565	.000288	.000284	.009640
%RSD	40.48237	180.5118	1.321641	2914.427	92.23255	123.1114	63.61177
#1	-.000095	.000001	2.316672	.000428	-.000593	-.000284	-.026126
#2	-.000125	-.000143	2.372915	.000169	-.000017	.000076	-.008042
#3	-.000052	.000003	2.367761	-.000655	-.000328	-.000483	-.011295

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0623604**	**.2481860**	**-.000239**	**-.001103**	**-.074335**	**-.002829**	**.0006776**
Stddev	.0022070	.0431332	.000180	.000571	.012888	.000414	.0003413
%RSD	3.539131	17.37939	75.25442	51.75719	17.33820	14.62837	50.37279
#1	.0599817	.2677548	-.000034	-.000660	-.059474	-.003115	.0003227
#2	.0643418	.2780661	-.000313	-.000902	-.081076	-.002354	.0010035
#3	.0627579	.1987372	-.000371	-.001748	-.082455	-.003018	.0007066

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0832694**	**-.000799**	**-.000180**	**.0222274**	**-.002452**	**.0450557**	**.0008961**
Stddev	.0296691	.000998	.000131	.0008169	.005914	.0066773	.0005982
%RSD	35.63019	125.0289	72.33163	3.675147	241.1621	14.82012	66.75905
#1	.1164509	-.001908	-.000274	.0214411	.001543	.0407198	.0015857
#2	.0740608	.000027	-.000031	.0230718	.000347	.0527451	.0005863
#3	.0592966	-.000514	-.000237	.0221694	-.009247	.0417022	.0005163

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01LDLX200 Acquired: 9/30/2025 16:02:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.317489**	**-.014214**	**.0046953**
Stddev	.059215	.005455	.0002492
%RSD	4.494513	38.37662	5.307645
#1	1.380969	-.020510	.0046117
#2	1.307750	-.010888	.0044986
#3	1.263747	-.011245	.0049755

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7257.481**	**88712.58**	**4937.773**	**5692.538**	**8485.899**
Stddev	4.240	272.84	6.274	49.444	14.646
%RSD	.0584182	.3075565	.1270684	.8685687	.1725870
#1	7255.088	88406.64	4943.965	5656.598	8470.012
#2	7262.376	88930.69	4937.936	5672.091	8488.825
#3	7254.979	88800.41	4931.419	5748.925	8498.862

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-02DLX40 Acquired: 9/30/2025 16:06:35 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0266843**	**.0636084**	**.0319425**	**.0733192**	**.0263456**	**.1268320**	**.0211485**
Stddev	.0016435	.0017074	.0024133	.0082363	.0039318	.0235142	.0046616
%RSD	6.159090	2.684282	7.555210	11.23344	14.92379	18.53961	22.04205
#1	.0270476	.0655794	.0337198	.0823460	.0301424	.1109738	.0234401
#2	.0281158	.0625827	.0329126	.0713990	.0266029	.1156744	.0242207
#3	.0248896	.0626631	.0291951	.0662127	.0222915	.1538479	.0157847

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079732**	**.0064098**	**13.41788**	**.0158208**	**.0061694**	**.0101453**	**.1177634**
Stddev	.0001160	.0005144	.25538	.0006542	.0003477	.0009390	.0082599
%RSD	1.454422	8.024332	1.903287	4.135289	5.635093	9.255572	7.013985
#1	.0081070	.0068886	13.67098	.0163327	.0065691	.0111706	.1255176
#2	.0079097	.0064748	13.42239	.0160460	.0060023	.0093271	.1186958
#3	.0079028	.0058661	13.16028	.0150837	.0059369	.0099384	.1090769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3578831**	**1.653768**	**.0163960**	**.0018935**	**.4456355**	**.0143202**	**.0128546**
Stddev	.0038244	.033764	.0013055	.0004936	.0504813	.0045159	.0003484
%RSD	1.068620	2.041639	7.962351	26.06634	11.32794	31.53519	2.710082
#1	.3614126	1.682698	.0177203	.0024166	.4850211	.0125483	.0132491
#2	.3584170	1.661938	.0163575	.0014360	.4631575	.0194534	.0127253
#3	.3538199	1.616669	.0151102	.0018278	.3887278	.0109590	.0125894

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.257519**	**.0161678**	**.0137358**	**.0430955**	**.0084926**	**.2584180**	**.1953821**
Stddev	.099898	.0017863	.0011821	.0011455	.0054340	.0107046	.0122270
%RSD	7.944065	11.04881	8.605677	2.658026	63.98558	4.142365	6.258013
#1	1.370204	.0178558	.0150156	.0443718	.0142563	.2662329	.2079204
#2	1.222534	.0163504	.0135067	.0427583	.0077585	.2628042	.1947336
#3	1.179819	.0142971	.0126851	.0421565	.0034629	.2462169	.1834922

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-02DLX40 Acquired: 9/30/2025 16:06:35 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.011956**	**-.004343**	**.0357089**
Stddev	.409297	.004675	.0008796
%RSD	5.837135	107.6441	2.463224
#1	7.437559	-.000945	.0365053
#2	6.977116	-.002410	.0358566
#3	6.621192	-.009675	.0347649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7390.508**	**86042.63**	**4942.159**	**5629.642**	**8679.063**
Stddev	14.312	62.50	21.197	10.288	25.721
%RSD	.1936582	.0726441	.4288984	.1827447	.2963574
#1	7386.517	86067.57	4917.968	5624.195	8652.846
#2	7406.393	85971.51	4957.478	5641.508	8704.257
#3	7378.615	86088.82	4951.033	5623.223	8680.086

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-03DLX40 Acquired: 9/30/2025 16:10:43 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0238683**	**.0578388**	**.0303133**	**.0659619**	**.0259368**	**.1203935**	**.0194869**
Stddev	.0020991	.0012812	.0012430	.0012069	.0042132	.0202870	.0024692
%RSD	8.794638	2.215096	4.100444	1.829629	16.24404	16.85054	12.67101
#1	.0259924	.0591780	.0308171	.0672290	.0281749	.1338967	.0222972
#2	.0238173	.0566248	.0312253	.0648260	.0285586	.1302192	.0184982
#3	.0217951	.0577137	.0288975	.0658308	.0210769	.0970645	.0176652

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069572**	**.0060569**	**11.76563**	**.0136482**	**.0056552**	**.0093871**	**.1062441**
Stddev	.0001946	.0002882	.31081	.0004612	.0002922	.0010398	.0104981
%RSD	2.797040	4.757789	2.641668	3.378931	5.167699	11.07737	9.881078
#1	.0071813	.0063663	12.10001	.0141751	.0057777	.0105264	.1181186
#2	.0068309	.0060082	11.71134	.0134515	.0058663	.0091458	.1024177
#3	.0068593	.0057962	11.48554	.0133181	.0053216	.0084891	.0981959

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3125093**	**1.507534**	**.0152351**	**.0013604**	**.3658110**	**.0133251**	**.0113670**
Stddev	.0087212	.072530	.0006220	.0010693	.0064700	.0026786	.0002819
%RSD	2.790698	4.811200	4.082327	78.60407	1.768688	20.10201	2.480226
#1	.3221790	1.578205	.0158732	.0004606	.3592690	.0111182	.0112866
#2	.3101101	1.511121	.0152015	.0025426	.3659574	.0163053	.0116803
#3	.3052388	1.433277	.0146307	.0010781	.3722067	.0125518	.0111339

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9876156**	**.0136931**	**.0121509**	**.0425250**	**.0108933**	**.2138665**	**.1846064**
Stddev	.0883833	.0011165	.0006886	.0012042	.0022885	.0188129	.0068852
%RSD	8.949156	8.153552	5.667349	2.831724	21.00831	8.796559	3.729671
#1	1.089479	.0149435	.0129461	.0436110	.0135331	.2173763	.1918500
#2	.931255	.0133396	.0117594	.0427341	.0096760	.1935458	.1838227
#3	.942113	.0127962	.0117473	.0412300	.0094707	.2306773	.1781466

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-03DLX40 Acquired: 9/30/2025 16:10:43 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.651692	-.010139	.0314293
Stddev	.257223	.004142	.0008591
%RSD	3.867038	40.85431	2.733496
#1	6.925418	-.007242	.0324131
#2	6.614677	-.008292	.0310477
#3	6.414982	-.014884	.0308271

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7302.866	89659.57	4976.664	5705.228	8476.710
Stddev	6.345	195.44	50.151	18.076	7.962
%RSD	.0868831	.2179754	1.007732	.3168389	.0939224
#1	7308.714	89779.05	4936.987	5708.113	8476.325
#2	7303.762	89765.61	5033.033	5721.688	8484.856
#3	7296.120	89434.03	4959.972	5685.883	8468.947

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01ADLX40 Acquired: 9/30/2025 16:14:50 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0243073**	**.0599464**	**.0297578**	**.0710670**	**.0275468**	**.1176081**	**.0170373**
Stddev	.0003583	.0044451	.0018048	.0015652	.0008014	.0218303	.0026861
%RSD	1.474115	7.415076	6.064840	2.202480	2.909032	18.56188	15.76616
#1	.0245841	.0649769	.0285685	.0719740	.0281957	.1132057	.0181404
#2	.0239026	.0583136	.0318345	.0692596	.0277937	.0983145	.0189962
#3	.0244353	.0565486	.0288705	.0719674	.0266511	.1413041	.0139752

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070895**	**.0062997**	**11.31675**	**.0141760**	**.0059077**	**.0098359**	**.0987665**
Stddev	.0000189	.0000408	.20383	.0004379	.0001002	.0006957	.0129098
%RSD	.2661369	.6472545	1.801099	3.088918	1.696028	7.072692	13.07102
#1	.0071108	.0063368	11.54275	.0144438	.0060201	.0106323	.0849851
#2	.0070749	.0063062	11.26065	.0144135	.0058278	.0095279	.1007359
#3	.0070828	.0062561	11.14685	.0136707	.0058752	.0093473	.1105784

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3014243**	**1.415617**	**.0155987**	**.0015945**	**.3502769**	**.0108359**	**.0116060**
Stddev	.0048478	.067288	.0005328	.0014581	.0159400	.0024274	.0001823
%RSD	1.608308	4.753267	3.415646	91.44701	4.550687	22.40102	1.570633
#1	.3068596	1.484268	.0161760	.0026093	.3631900	.0119256	.0117918
#2	.2998661	1.349781	.0154944	-.000076	.3551790	.0125275	.0114274
#3	.2975472	1.412803	.0151258	.002251	.3324615	.0080547	.0115989

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9600460**	**.0126018**	**.0130279**	**.0428034**	**.0044132**	**.2494714**	**.1900834**
Stddev	.0971621	.0006017	.0003850	.0010306	.0023099	.0103368	.0052756
%RSD	10.12057	4.774787	2.954901	2.407633	52.34106	4.143495	2.775429
#1	1.022158	.0128253	.0133983	.0430919	.0051192	.2609444	.1960993
#2	.848076	.0130597	.0130557	.0416593	.0062877	.2408840	.1879053
#3	1.009904	.0119203	.0126298	.0436589	.0018327	.2465857	.1862455

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01ADLX40 Acquired: 9/30/2025 16:14:50 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**6.609234**	**-.004057**	**.0302151**
Stddev	.205187	.007298	.0007570
%RSD	3.104553	179.8716	2.505344
#1	6.828925	-.008050	.0310579
#2	6.576224	-.008488	.0299946
#3	6.422553	.004366	.0295928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7385.295**	**88835.08**	**4997.947**	**5683.767**	**8597.012**
Stddev	7.856	468.79	11.921	30.386	7.142
%RSD	.1063785	.5277090	.2385247	.5346053	.0830739
#1	7386.320	88890.22	4986.612	5658.158	8595.362
#2	7376.976	89273.86	5010.379	5717.342	8590.839
#3	7392.588	88341.16	4996.849	5675.801	8604.834

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831TB Acquired: 9/30/2025 16:18:58 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002146**	**.0002212**	**.0002160**	**.0020489**	**.0000659**	**.0111086**	**-.000520**
Stddev	.001926	.0015379	.0004232	.0008577	.0014988	.0131860	.000653
%RSD	89.75709	695.2787	195.9387	41.86339	2273.712	118.7009	125.6748
#1	-.001866	-.001513	.0002387	.0010585	-.001634	.0163332	.000233
#2	-.000375	.001418	-.000218	.0025329	.001199	.0208817	-.000936
#3	-.004197	.000758	.000627	.0025552	.000632	-.003889	-.000857

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000062**	**-.000132**	**.0037859**	**-.000032**	**-.000637**	**-.000344**	**-.006406**
Stddev	.000057	.000017	.0115972	.000645	.000069	.000335	.008375
%RSD	91.56413	12.55308	306.3298	2005.288	10.81544	97.38208	130.7233
#1	-.000047	-.000113	-.007409	.000704	-.000595	-.000682	-.005753
#2	-.000125	-.000145	.015748	-.000299	-.000716	-.000013	-.015089
#3	-.000014	-.000139	.003019	-.000501	-.000599	-.000336	.001622

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000608**	**-.035128**	**.0000368**	**-.001088**	**-.180566**	**.0000902**	**.0014467**
Stddev	.000957	.026986	.0001808	.000646	.048585	.0068767	.0001517
%RSD	157.3620	76.82150	491.3376	59.32879	26.90678	7620.217	10.48344
#1	-.001496	-.066211	-.000156	-.001723	-.124791	.0060352	.0016009
#2	-.000734	-.021500	.000203	-.000432	-.213682	.0016765	.0012977
#3	.000406	-.017674	.000063	-.001111	-.203225	-.007441	.0014415

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.183896**	**-.004714**	**-.000437**	**.0170865**	**-.002552**	**.0037864**	**.0017722**
Stddev	.093053	.000349	.000268	.0007698	.001975	.0146770	.0009198
%RSD	50.60123	7.403573	61.35256	4.505487	77.37012	387.6240	51.90196
#1	-.107807	-.005100	-.000128	.0177209	-.000273	-.007965	.0024334
#2	-.156237	-.004421	-.000610	.0173086	-.003632	.020238	.0021614
#3	-.287643	-.004620	-.000572	.0162300	-.003751	-.000913	.0007218

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169831TB Acquired: 9/30/2025 16:18:58 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019980	-.013024	-.000260
Stddev	.0015656	.002626	.000193
%RSD	78.36012	20.16206	74.10323
#1	.0037838	-.014011	-.000455
#2	.0008614	-.010048	-.000257
#3	.0013487	-.015014	-.000069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7431.411	89546.25	5018.759	5796.208	8726.928
Stddev	12.452	54.59	29.806	15.994	3.674
%RSD	.1675541	.0609593	.5938836	.2759346	.0421014
#1	7430.165	89609.22	5035.529	5806.492	8722.765
#2	7419.629	89512.24	5036.401	5804.351	8729.716
#3	7444.439	89517.31	4984.346	5777.782	8728.305

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-01 Acquired: 9/30/2025 16:23:09 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.003209	.0191517	-.000671	.0057901	.0057608	4.321120
Stddev	.000541	.0018057	.001264	.0012906	.0030981	.009066
%RSD	16.87208	9.428145	188.4487	22.29036	53.77896	.2097992
#1	-.003488	.0193382	-.000404	.0064024	.0043752	4.328088
#2	-.003554	.0172601	-.002047	.0043073	.0093099	4.324402
#3	-.002585	.0208569	.000438	.0066606	.0035974	4.310871

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3381770	-.002619	.0571774	202.6291	.0161916	.0061124
Stddev	.0032008	.000122	.0000840	.9390	.0003486	.0002414
%RSD	.9464706	4.665962	.1469391	.4634019	2.153040	3.949523
#1	.3416153	-.002532	.0572679	203.6690	.0164742	.0058346
#2	.3376320	-.002759	.0571018	202.3747	.0162986	.0062714
#3	.3352838	-.002567	.0571624	201.8435	.0158020	.0062312

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003533	.4166578	21.32428	24.18561	.0140683	-.000201
Stddev	.0000933	.0047503	.13851	.09729	.0005446	.000329
%RSD	26.41194	1.140084	.6495541	.4022812	3.871277	163.4845
#1	.0003917	.4135421	21.46218	24.29676	.0141616	.000062
#2	.0002469	.4221251	21.32549	24.11586	.0145602	-.000095
#3	.0004212	.4143060	21.18516	24.14422	.0134830	-.000570

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.18158	-.002156	.1199408	19.06169	.0972689	.0000552
Stddev	.11998	.009573	.0006342	.08371	.0019457	.0001283
%RSD	1.178432	443.9411	.5287382	.4391409	2.000307	232.3600
#1	10.30149	.005234	.1201745	19.13140	.0988925	.0001847
#2	10.18173	.001268	.1204250	19.08482	.0951123	.0000528
#3	10.06152	-.012971	.1192230	18.96885	.0978019	-.000072

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-01 Acquired: 9/30/2025 16:23:09 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005998	-.004086	4.144783	.0432683	F 146.4924	-.055101
Stddev	.001305	.001553	.014930	.0021210	.0627	.004463
%RSD	21.76121	37.99803	.3602068	4.901938	.0428346	8.099057
#1	-.007471	-.005876	4.146504	.0454491	146.5295	-.056504
#2	-.005536	-.003092	4.129067	.0412127	146.5277	-.050106
#3	-.004986	-.003292	4.158778	.0431431	146.4199	-.058695

Elem	Sr4077
Units	ppm
Avg	.4386308
Stddev	.0035034
%RSD	.7987198
#1	.4420661
#2	.4387631
#3	.4350630

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7381.198	86440.11	4936.061	5605.503	8094.980
Stddev	30.433	202.95	22.585	6.408	34.989
%RSD	.4122977	.2347867	.4575461	.1143120	.4322361
#1	7348.077	86284.74	4910.102	5611.518	8056.711
#2	7387.593	86669.72	4946.882	5606.227	8102.893
#3	7407.926	86365.86	4951.200	5598.764	8125.334

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-02 Acquired: 9/30/2025 16:27:14 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.004114**	**.0102818**	**.0035461**	**.0062204**	**.0057460**	**3.428829**
Stddev	.001599	.0012100	.0008576	.0028979	.0031625	.018500
%RSD	38.87601	11.76850	24.18540	46.58711	55.03881	.5395530
#1	-.005302	.0089039	.0045323	.0076469	.0092301	3.440251
#2	-.002295	.0111710	.0031317	.0028858	.0049513	3.438751
#3	-.004744	.0107705	.0029744	.0081286	.0030566	3.407484

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2595992**	**-.001162**	**.0008406**	**263.0597**	**.0079497**	**.0008789**
Stddev	.0023272	.000083	.0000450	.5152	.0007396	.0002123
%RSD	.8964471	7.185243	5.352311	.1958490	9.303578	24.15300
#1	.2587995	-.001067	.0007994	263.4402	.0070957	.0007657
#2	.2622208	-.001224	.0008886	263.2655	.0083761	.0007472
#3	.2577773	-.001195	.0008339	262.4734	.0083773	.0011237

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086186**	**.0830186**	**9.908923**	**35.27876**	**.0089669**	**-.000360**
Stddev	.0006714	.0161094	.042994	.03269	.0000657	.000240
%RSD	7.789472	19.40453	.4338948	.0926688	.7325390	66.74868
#1	.0093741	.0909203	9.945943	35.26714	.0088948	-.000412
#2	.0083915	.0936515	9.919061	35.31567	.0089825	-.000569
#3	.0080903	.0644841	9.861766	35.25345	.0090234	-.000098

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.81906**	**-.004188**	**.1179228**	**22.25477**	**.1204554**	**.0004058**
Stddev	.13583	.004274	.0007466	.23802	.0018179	.0001948
%RSD	.8586202	102.0399	.6331174	1.069543	1.509181	48.00528
#1	15.92715	-.005491	.1176862	22.46750	.1187442	.0004110
#2	15.86342	.000585	.1187591	22.29912	.1202582	.0005979
#3	15.66660	-.007659	.1173232	21.99769	.1223639	.0002084

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-02 Acquired: 9/30/2025 16:27:14 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005019	-.008314	5.332313	.0512265	F 189.6135	-.062135
Stddev	.001012	.001609	.074624	.0005661	.5035	.001812
%RSD	20.16595	19.35234	1.399460	1.105050	.2655493	2.916180
#1	-.004116	-.008472	5.362274	.0508075	189.9271	-.060450
#2	-.004828	-.006632	5.387301	.0510014	189.0327	-.061904
#3	-.006113	-.009838	5.247366	.0518705	189.8808	-.064052

Elem	Sr4077
Units	ppm
Avg	.5687719
Stddev	.0025357
%RSD	.4458202
#1	.5705255
#2	.5699257
#3	.5658645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7149.656	86870.17	4971.757	5580.447	7741.594
Stddev	21.172	461.08	3.365	34.493	20.471
%RSD	.2961221	.5307683	.0676769	.6181051	.2644334
#1	7126.561	86619.43	4975.289	5562.711	7719.150
#2	7154.261	86588.79	4968.588	5558.431	7746.392
#3	7168.146	87402.28	4971.395	5620.200	7759.240

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-03 Acquired: 9/30/2025 16:31:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005982	.0107738	.0018691	.0044651	.0077433	4.406631
Stddev	.002157	.0006696	.0011703	.0032563	.0014883	.026667
%RSD	36.05534	6.214815	62.61214	72.92687	19.22043	.6051614
#1	-.005096	.0113135	.0024403	.0045562	.0094222	4.425809
#2	-.004409	.0109834	.0005229	.0011642	.0072218	4.417906
#3	-.008440	.0100245	.0026441	.0076749	.0065860	4.376178

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2973756	-.001118	.0012472	263.0643	.0097527	.0036166
Stddev	.0009662	.000044	.0000897	.9378	.0002819	.0001800
%RSD	.3249145	3.909733	7.193995	.3564736	2.890597	4.977388
#1	.2973576	-.001127	.0012709	263.8970	.0096360	.0037286
#2	.2983506	-.001157	.0011480	263.2475	.0100743	.0034090
#3	.2964184	-.001071	.0013227	262.0485	.0095479	.0037123

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158272	.1680522	11.18551	29.32269	.0111547	.0000383
Stddev	.0006802	.0009270	.04007	.12970	.0004397	.0005514
%RSD	4.297498	.5516255	.3582546	.4423070	3.941767	1441.361
#1	.0151205	.1672774	11.23062	29.17297	.0115772	-.000536
#2	.0164773	.1678000	11.17186	29.40058	.0111874	.000564
#3	.0158839	.1690792	11.15404	29.39452	.0106996	.000087

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.82675	-.002977	.3704529	15.98387	.2184446	.0003370
Stddev	.08398	.003455	.0008192	.13162	.0020224	.0006428
%RSD	.6073512	116.0521	.2211483	.8234811	.9258213	190.7161
#1	13.90209	-.006937	.3695427	16.07615	.2180671	.0009570
#2	13.73621	-.001410	.3706845	15.83314	.2206291	.0003805
#3	13.84195	-.000583	.3711314	16.04231	.2166375	-.000326

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3177-03 Acquired: 9/30/2025 16:31:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005065	-.004182	6.019951	.1007680	F 188.6110	-.059339
Stddev	.000730	.004158	.058760	.0006342	1.6267	.006294
%RSD	14.41555	99.41790	.9760841	.6293605	.8624850	10.60631
#1	-.005657	.000563	6.052169	.1001109	190.3753	-.060626
#2	-.004249	-.005921	5.952129	.1008168	188.2872	-.052501
#3	-.005290	-.007188	6.055555	.1013764	187.1705	-.064890

Elem	Sr4077
Units	ppm
Avg	.5895263
Stddev	.0031480
%RSD	.5339839
#1	.5929850
#2	.5887655
#3	.5868284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7222.559	88364.71	5038.993	5628.319	7818.300
Stddev	20.447	151.50	35.420	29.113	23.271
%RSD	.2831010	.1714454	.7029213	.5172541	.2976454
#1	7201.068	88253.67	5029.907	5594.989	7795.501
#2	7224.837	88537.30	5009.001	5648.775	7817.384
#3	7241.772	88303.17	5078.071	5641.194	7842.016

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01 Acquired: 9/30/2025 16:35:23 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.002272	.0055051	.0039524	.0042968	.0056083	.6324815
Stddev	.002443	.0045292	.0013789	.0053601	.0022196	.0364809
%RSD	107.4959	82.27224	34.88874	124.7462	39.57695	5.767906
#1	-.004969	.0028467	.0048208	-.001886	.0066777	.5971852
#2	-.001640	.0107347	.0046740	.007149	.0030565	.6700416
#3	-.000208	.0029339	.0023624	.007628	.0070908	.6302176

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2648091	-.001064	.0019482	298.5219	.0162807	.0013188
Stddev	.0014659	.000059	.0000447	.0274	.0007156	.0002453
%RSD	.5535866	5.553973	2.293256	.0091754	4.395556	18.59891
#1	.2654867	-.001105	.0019021	298.5229	.0169456	.0015772
#2	.2658136	-.000996	.0019512	298.5488	.0155233	.0012898
#3	.2631269	-.001090	.0019913	298.4941	.0163732	.0010892

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093068	.1413083	7.774671	36.35397	.0047525	-.000376
Stddev	.0002498	.0042739	.009374	.05737	.0004009	.000201
%RSD	2.683583	3.024515	.1205685	.1578189	8.434609	53.56963
#1	.0090447	.1368418	7.771521	36.30100	.0043557	-.000215
#2	.0093335	.1417237	7.767278	36.41492	.0051573	-.000601
#3	.0095421	.1453593	7.785214	36.34599	.0047444	-.000311

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.91813	.0048910	.1325135	23.81901	.1838246	.0009598
Stddev	.10603	.0032670	.0021745	.13636	.0018684	.0004681
%RSD	.8896615	66.79707	1.640929	.5724841	1.016391	48.77559
#1	11.79624	.0025292	.1309426	23.66667	.1859091	.0004198
#2	11.98903	.0086195	.1349953	23.86071	.1832642	.0012508
#3	11.96913	.0035243	.1316027	23.92965	.1823006	.0012088

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01 Acquired: 9/30/2025 16:35:23 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006425	-.007432	5.614027	.1011732	F 201.8259	-.068395
Stddev	.000572	.001722	.040823	.0014965	2.0155	.006591
%RSD	8.899167	23.16991	.7271599	1.479142	.9986096	9.636798
#1	-.005921	-.006625	5.566901	.0994454	203.9608	-.061997
#2	-.006307	-.006261	5.638505	.1020164	201.5607	-.068023
#3	-.007046	-.009409	5.636675	.1020579	199.9562	-.075163

Elem	Sr4077
Units	ppm
Avg	.6191662
Stddev	.0010192
%RSD	.1646097
#1	.6186194
#2	.6203421
#3	.6185371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7266.056	84053.91	5029.568	5498.045	7933.645
Stddev	42.069	135.54	25.115	10.073	44.816
%RSD	.5789745	.1612520	.4993498	.1832028	.5648881
#1	7248.861	84018.25	5001.797	5493.236	7909.406
#2	7235.308	84203.71	5050.689	5509.621	7906.168
#3	7313.998	83939.77	5036.219	5491.279	7985.361

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DUP Acquired: 9/30/2025 16:39:27 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.003083	.0063482	.0039754	.0023967	.0028356	.6622727
Stddev	.001821	.0019942	.0018290	.0007041	.0010688	.0268242
%RSD	59.05660	31.41321	46.00808	29.37641	37.69206	4.050322
#1	-.005040	.0080086	.0060561	.0017391	.0017053	.6509148
#2	-.002769	.0068997	.0032486	.0031395	.0029717	.6429960
#3	-.001439	.0041363	.0026215	.0023115	.0038299	.6929073

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2634056	-.001132	.0019915	297.2518	.0059433	.0009865
Stddev	.0028923	.000054	.0001044	1.1926	.0005739	.0003269
%RSD	1.098055	4.769021	5.243890	.4012068	9.656053	33.13418
#1	.2603461	-.001079	.0019557	295.9095	.0058944	.0006134
#2	.2637756	-.001187	.0021091	298.1893	.0053955	.0012223
#3	.2660952	-.001129	.0019097	297.6567	.0065401	.0011239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081481	.0708297	7.725060	36.26077	.0040423	-.000748
Stddev	.0004707	.0050731	.052318	.08604	.0002139	.001077
%RSD	5.776479	7.162347	.6772555	.2372889	5.291336	143.9850
#1	.0077806	.0681531	7.673133	36.20226	.0041748	-.001980
#2	.0086786	.0766805	7.777761	36.22048	.0041565	.000011
#3	.0079849	.0676554	7.724285	36.35956	.0037955	-.000274

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.26022	.0020752	.1260759	22.47616	.1810738	.0006427
Stddev	.19591	.0049262	.0008391	.34692	.0029126	.0002446
%RSD	1.739838	237.3839	.6655751	1.543497	1.608510	38.05806
#1	11.28687	-.003454	.1256409	22.52316	.1789321	.0006450
#2	11.44144	.005996	.1255435	22.79719	.1798990	.0008861
#3	11.05235	.003684	.1270432	22.10814	.1843904	.0003969

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01DUP Acquired: 9/30/2025 16:39:27 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006152	-.003885	5.321942	.1007338	F 200.4021	-.067972
Stddev	.000615	.003195	.045322	.0007361	.9683	.004145
%RSD	9.998309	82.25223	.8516141	.7307410	.4831794	6.098015
#1	-.005443	-.007564	5.343528	.1000252	200.5207	-.068760
#2	-.006544	-.002284	5.352437	.1014947	201.3056	-.063490
#3	-.006469	-.001806	5.269862	.1006814	199.3799	-.071666

Elem	Sr4077
Units	ppm
Avg	.6143930
Stddev	.0037055
%RSD	.6031138
#1	.6116914
#2	.6186173
#3	.6128704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7247.261	87753.29	4973.940	5601.249	7931.474
Stddev	31.967	695.54	55.124	24.568	27.479
%RSD	.4410924	.7926095	1.108257	.4386178	.3464546
#1	7278.861	87669.27	5030.146	5603.463	7951.501
#2	7214.939	87103.58	4971.708	5575.649	7900.147
#3	7247.985	88487.03	4919.966	5624.635	7942.774

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV03 Acquired: 9/30/2025 16:43:33 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.986873**	**4.692036**	**4.894284**	**5.051598**	**4.926252**	**9.672347**	**9.747223**
Stddev	.011303	.104648	.005657	.000381	.003588	.058397	.034879
%RSD	.2266535	2.230337	.1155879	.0075385	.0728345	.6037531	.3578399
#1	4.988534	4.571846	4.898169	5.051998	4.926515	9.605604	9.708940
#2	4.974831	4.741313	4.887793	5.051240	4.922539	9.697400	9.777200
#3	4.997253	4.762950	4.896889	5.051557	4.929701	9.714038	9.755530

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2488529**	**2.458541**	**24.37535**	**.9816788**	**2.442762**	**1.230109**	**4.774585**
Stddev	.0017320	.002748	.09626	.0017831	.002649	.001150	.052589
%RSD	.6960058	.1117815	.3948976	.1816324	.1084334	.0934961	1.101436
#1	.2494072	2.460155	24.29153	.9832965	2.443354	1.231194	4.737560
#2	.2469116	2.455368	24.48047	.9819727	2.439867	1.228903	4.834781
#3	.2502400	2.460099	24.35404	.9797670	2.445064	1.230230	4.751416

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.427873**	**24.30171**	**2.446284**	**1.219371**	**23.11137**	**2.435910**	**2.435297**
Stddev	.017415	.18283	.004166	.001585	.29392	.008415	.010619
%RSD	.7172821	.7523183	.1702979	.1299911	1.271766	.3454572	.4360609
#1	2.408569	24.09674	2.448624	1.219671	22.87478	2.429457	2.434152
#2	2.442404	24.44796	2.441474	1.220785	23.44040	2.432845	2.446442
#3	2.432645	24.36044	2.448754	1.217658	23.01894	2.445428	2.425296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.13696**	**4.978646**	**4.921292**	**4.924146**	**4.833735**	**4.639380**	**4.939354**
Stddev	.22801	.032064	.004361	.010779	.013489	.028090	.012600
%RSD	.9446602	.6440366	.0886192	.2189110	.2790677	.6054732	.2550959
#1	23.93380	4.983594	4.919560	4.935775	4.821004	4.609673	4.950296
#2	24.38357	4.944396	4.918062	4.914488	4.832328	4.665511	4.925578
#3	24.09352	5.007949	4.926253	4.922173	4.847872	4.642957	4.942188

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV03 Acquired: 9/30/2025 16:43:33 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.381403**	**4.723621**	**4.869946**
Stddev	.033397	.031245	.047579
%RSD	.6205960	.6614580	.9769978
#1	5.419901	4.688912	4.834794
#2	5.364096	4.749503	4.850957
#3	5.360212	4.732447	4.924088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7262.253**	**87502.64**	**4910.956**	**5630.451**	**7957.929**
Stddev	6.792	592.53	28.307	59.118	3.182
%RSD	.0935199	.6771602	.5764027	1.049978	.0399868
#1	7269.135	88044.87	4939.451	5663.764	7955.725
#2	7262.068	86870.16	4910.576	5562.193	7961.577
#3	7255.555	87592.88	4882.841	5665.394	7956.484

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB03 Acquired: 9/30/2025 16:53:38 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.000685**	**-.000535**	**-.001529**	**.0020180**	**-.000861**	**-.008821**	**.0007677**
Stddev	.002936	.001553	.000546	.0005861	.003275	.017974	.0018998
%RSD	428.5316	290.4675	35.68974	29.04305	380.3761	203.7527	247.4595
#1	-.002046	.001232	-.001062	.0014698	.002915	-.006291	.0011950
#2	.002685	-.001153	-.001397	.0026358	-.002923	.007753	-.001309
#3	-.002694	-.001683	-.002129	.0019485	-.002575	-.027926	.002418

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000101**	**-.000048**	**.0022890**	**-.000212**	**-.000365**	**-.000003**	**-.004436**
Stddev	.0000865	.000022	.0019707	.000082	.000280	.000368	.005585
%RSD	856.6091	45.57698	86.09510	38.73127	76.74748	14018.10	125.9239
#1	-.000085	-.000061	.0037226	-.000117	-.000526	-.000288	-.004432
#2	.000084	-.000059	.0031025	-.000265	-.000528	-.000132	-.010023
#3	.000032	-.000023	.0000417	-.000254	-.000042	.000412	.001148

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001121**	**-.002176**	**-.000237**	**-.000636**	**-.165568**	**-.002118**	**.0000660**
Stddev	.002249	.039968	.000094	.000497	.045580	.003723	.0003586
%RSD	200.5788	1836.637	39.59471	78.22334	27.52961	175.8208	543.2638
#1	.000710	-.030629	-.000327	-.000303	-.152635	-.004142	-.000272
#2	-.003631	.043519	-.000245	-.001208	-.216217	-.004390	.000442
#3	-.000442	-.019418	-.000140	-.000397	-.127852	.002179	.000027

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.079725**	**-.003146**	**-.000282**	**.0167912**	**-.000260**	**.0091774**	**.0019231**
Stddev	.061941	.000865	.000355	.0002041	.001877	.0131328	.0009177
%RSD	77.69306	27.49900	125.7377	1.215688	720.9397	143.0985	47.71969
#1	-.055644	-.003823	-.000398	.0165565	.001447	.0225028	.0029766
#2	-.150091	-.003444	.000116	.0168895	.000041	-.003754	.0012969
#3	-.033441	-.002171	-.000565	.0169275	-.002269	.008783	.0014960

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB03 Acquired: 9/30/2025 16:53:38 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.004913	-.009353	-.000066
Stddev	.001643	.005118	.000264
%RSD	33.44370	54.72507	398.3085
#1	-.006797	-.012692	-.000262
#2	-.003780	-.011907	.000234
#3	-.004161	-.003460	-.000170

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7591.217	91540.67	5059.723	5866.155	9109.021
Stddev	2.664	250.97	8.217	7.144	.936
%RSD	.0350876	.2741579	.1623934	.1217820	.0102777
#1	7591.788	91723.80	5069.052	5874.037	9108.398
#2	7588.315	91643.61	5053.562	5864.320	9110.097
#3	7593.549	91254.60	5056.554	5860.107	9108.566

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01LX5 Acquired: 9/30/2025 16:58:55 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.001078	.0127636	-.000955	.0018152	.0030503	.1380196
Stddev	.000374	.0016792	.001685	.0021600	.0012195	.0196163
%RSD	34.67484	13.15624	176.4481	118.9966	39.97771	14.21271
#1	-.000647	.0135586	-.002395	.0024860	.0016972	.1590434
#2	-.001304	.0108345	-.001368	-.000601	.0040643	.1348083
#3	-.001284	.0138977	.000898	.003560	.0033896	.1202070

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0549697	-.000296	.0003936	60.83417	.0017640	-.000154
Stddev	.0006713	.000119	.0000274	.03144	.0003991	.000220
%RSD	1.221275	40.25493	6.957604	.0516822	22.62718	142.5776
#1	.0557448	-.000434	.0003638	60.86976	.0022248	-.000001
#2	.0545758	-.000222	.0003992	60.81018	.0015250	-.000406
#3	.0545885	-.000233	.0004177	60.82258	.0015422	-.000056

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019480	.0051783	1.590712	7.430013	.0010370	-.000813
Stddev	.0008624	.0110687	.007074	.051035	.0003759	.000863
%RSD	44.27307	213.7518	.4447188	.6868697	36.24503	106.1971
#1	.0010752	.0158446	1.584254	7.488603	.0007590	-.001806
#2	.0019690	-.006253	1.598272	7.395248	.0008874	-.000380
#3	.0027997	.005943	1.589609	7.406187	.0014646	-.000251

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.079684	.0053605	.0252454	4.188280	.0363623	-.000235
Stddev	.030011	.0008544	.0005724	.056835	.0012147	.000342
%RSD	1.443032	15.93894	2.267284	1.356997	3.340474	145.4213
#1	2.045257	.0045030	.0250155	4.165414	.0352439	.000156
#2	2.100315	.0053667	.0248238	4.252986	.0376545	-.000475
#3	2.093482	.0062117	.0258970	4.146438	.0361885	-.000386

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01LX5 Acquired: 9/30/2025 16:58:55 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0124131	-.000121	1.032717	.0206194	F 40.88314	-.022390
Stddev	.0004002	.002055	.019367	.0006528	.34278	.001549
%RSD	3.223886	1699.412	1.875313	3.166092	.8384349	6.919074
#1	.0125571	.000356	1.010393	.0208891	40.54718	-.021416
#2	.0127213	-.002372	1.045014	.0198749	41.23235	-.021578
#3	.0119608	.001653	1.042745	.0210941	40.86990	-.024177

Elem	Sr4077
Units	ppm
Avg	.1259227
Stddev	.0009181
%RSD	.7291322
#1	.1249186
#2	.1267195
#3	.1261301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7433.223	90480.35	5012.378	5802.725	8356.435
Stddev	15.616	741.04	8.629	58.245	20.371
%RSD	.2100793	.8190099	.1721495	1.003759	.2437702
#1	7417.111	90743.55	5003.002	5826.307	8333.481
#2	7448.290	89643.64	5014.148	5736.386	8372.361
#3	7434.267	91053.87	5019.985	5845.481	8363.462

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-02 Acquired: 9/30/2025 17:03:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7919400**	**1.995211**	**.9301691**	**2.016972**	**.7821257**	**2.503286**
Stddev	.0018679	.049441	.0004391	.014138	.0037091	.029740
%RSD	.2358585	2.478004	.0472045	.7009305	.4742338	1.188033
#1	.7931864	2.051906	.9305713	2.032745	.7862997	2.506286
#2	.7897924	1.972670	.9302355	2.005441	.7792078	2.472159
#3	.7928412	1.961057	.9297007	2.012729	.7808695	2.531411

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4613648**	**.1889970**	**.1929470**	**297.4011**	**.3956704**	**.1927037**
Stddev	.0025848	.0005948	.0005303	.2532	.0033968	.0005395
%RSD	.5602521	.3146855	.2748423	.0851406	.8585020	.2799753
#1	.4642195	.1893462	.1935585	297.6573	.3926787	.1933265
#2	.4606920	.1893345	.1926692	297.3951	.3993630	.1923817
#3	.4591830	.1883103	.1926133	297.1510	.3949694	.1924028

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2953538**	**2.963245**	**8.022178**	**37.83195**	**.4824323**	**.0681706**
Stddev	.0006235	.007738	.001276	.06755	.0005602	.0014728
%RSD	.2111204	.2611460	.0159043	.1785562	.1161248	2.160496
#1	.2960286	2.971049	8.021200	37.89679	.4829220	.0664728
#2	.2947988	2.955574	8.023621	37.83708	.4825534	.0691050
#3	.2952340	2.963113	8.021713	37.76198	.4818214	.0689339

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.50998**	**.2789078**	**.3258403**	**32.82591**	**.4542071**	**.4046802**
Stddev	.15235	.0061109	.0009449	.25665	.0015320	.0006720
%RSD	1.049997	2.190996	.2899845	.7818477	.3372952	.1660641
#1	14.34185	.2799268	.3252662	32.56046	.4547735	.4053845
#2	14.63889	.2844451	.3269308	33.07274	.4553753	.4040460
#3	14.54920	.2723515	.3253238	32.84453	.4524725	.4046102

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-02 Acquired: 9/30/2025 17:03:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.6882887**	**.1829496**	**6.226373**	**5.967214**	F **208.9431**	**.1226760**
Stddev	.0021489	.0016053	.057618	.025618	1.7786	.0057916
%RSD	.3122152	.8774424	.9253858	.4293112	.8512416	4.721070
#1	.6906674	.1840112	6.173553	5.996070	210.9967	.1291514
#2	.6877113	.1811028	6.287817	5.947147	207.9016	.1179910
#3	.6864874	.1837347	6.217747	5.958425	207.9308	.1208856

Elem	Sr4077
Units	ppm
Avg	**.8047459**
Stddev	.0016335
%RSD	.2029783
#1	.8058990
#2	.8028767
#3	.8054619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7187.917**	**86067.42**	**4951.260**	**5562.864**	**7773.794**
Stddev	13.140	381.65	19.327	5.630	6.083
%RSD	.1828066	.4434311	.3903385	.1012146	.0782489
#1	7199.418	86459.96	4932.350	5560.945	7780.664
#2	7190.738	85697.68	4970.978	5569.202	7771.625
#3	7173.596	86044.62	4950.453	5558.443	7769.093

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-03 Acquired: 9/30/2025 17:06:58 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7960824**	**1.961347**	**.9378918**	**2.033015**	**.7926176**	**2.528989**
Stddev	.0006070	.126009	.0028507	.008493	.0061120	.007726
%RSD	.0762524	6.424598	.3039494	.4177346	.7711169	.3054941
#1	.7958367	2.086420	.9347400	2.033206	.7859257	2.521444
#2	.7967737	1.963198	.9402899	2.041410	.7979052	2.528639
#3	.7956367	1.834423	.9386457	2.024428	.7940218	2.536884

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4618859**	**.1907507**	**.1946481**	**299.0324**	**.3934419**	**.1947907**
Stddev	.0022726	.0024547	.0006347	1.0590	.0015306	.0006410
%RSD	.4920315	1.286889	.3260706	.3541561	.3890365	.3290836
#1	.4634326	.1933015	.1941186	300.2542	.3926159	.1941012
#2	.4592766	.1884048	.1953517	298.4662	.3952080	.1953686
#3	.4629484	.1905458	.1944741	298.3768	.3925016	.1949023

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2973088**	**2.905344**	**7.995230**	**38.15277**	**.4877061**	**.0605815**
Stddev	.0004783	.028792	.025543	.06869	.0015619	.0005984
%RSD	.1608897	.9910171	.3194827	.1800333	.3202542	.9877613
#1	.2967578	2.889055	8.009536	38.16969	.4863718	.0608980
#2	.2975501	2.938588	8.010415	38.07720	.4894241	.0609552
#3	.2976184	2.888388	7.965740	38.21141	.4873223	.0598913

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.09673**	**.2839018**	**.3233487**	**32.15233**	**.4585473**	**.4093792**
Stddev	.10859	.0046906	.0031461	.32517	.0060490	.0002484
%RSD	.7702908	1.652190	.9729903	1.011334	1.319156	.0606690
#1	14.01421	.2880032	.3257847	31.83663	.4642735	.4094396
#2	14.21975	.2849147	.3197967	32.48620	.4522204	.4095918
#3	14.05624	.2787875	.3244648	32.13417	.4591478	.4091062

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-03 Acquired: 9/30/2025 17:06:58 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.6942946	.1843973	6.117096	6.002213	F 209.2682	.1239745
Stddev	.0025320	.0019942	.035013	.036208	1.5485	.0040569
%RSD	.3646895	1.081476	.5723841	.6032511	.7399824	3.272373
#1	.6917515	.1829692	6.113919	6.029751	210.7747	.1199081
#2	.6968154	.1866758	6.153589	6.015688	209.3490	.1280218
#3	.6943169	.1835470	6.083779	5.961199	207.6808	.1239935

Elem	Sr4077
Units	ppm
Avg	.8092780
Stddev	.0016723
%RSD	.2066390
#1	.8111646
#2	.8086912
#3	.8079782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7278.514	88283.38	4960.688	5677.419	7868.812
Stddev	30.191	1084.73	36.867	42.588	24.610
%RSD	.4148030	1.228688	.7431838	.7501224	.3127510
#1	7244.000	88581.72	4923.568	5688.065	7840.580
#2	7300.025	87080.70	4961.198	5630.518	7880.121
#3	7291.519	89187.71	4997.297	5713.673	7885.733

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01A Acquired: 9/30/2025 17:10:54 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.7935787	1.806582	.9312070	2.016588	.7917037	2.512761
Stddev	.0011634	.036743	.0039368	.005180	.0039261	.001667
%RSD	.1466075	2.033846	.4227669	.2568762	.4958995	.0663406
#1	.7945575	1.781340	.9355089	2.021570	.7958869	2.514642
#2	.7922924	1.848736	.9303282	2.016965	.7911252	2.511468
#3	.7938861	1.789670	.9277838	2.011230	.7880990	2.512173

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4506331	.1870780	.1930550	292.2248	.3979031	.1937370
Stddev	.0043706	.0015136	.0012499	2.4212	.0031824	.0010353
%RSD	.9698845	.8090802	.6474505	.8285534	.7998027	.5343864
#1	.4546790	.1888105	.1944364	294.5505	.3970726	.1949253
#2	.4512226	.1864107	.1927266	292.4057	.3952183	.1930297
#3	.4459976	.1860126	.1920021	289.7182	.4014185	.1932560

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2957084	2.976342	7.797370	37.33699	.4838991	.0681363
Stddev	.0010688	.029871	.068847	.23187	.0028591	.0005127
%RSD	.3614438	1.003607	.8829454	.6210158	.5908487	.7524802
#1	.2969239	2.966740	7.866130	37.57124	.4872003	.0675451
#2	.2949153	2.952454	7.797541	37.33215	.4822797	.0684595
#3	.2952861	3.009834	7.728437	37.10758	.4822172	.0684043

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.11315	.2822328	.3267524	32.50732	.4476313	.4090582
Stddev	.15473	.0014456	.0017881	.24173	.0062629	.0023765
%RSD	1.096361	.5122041	.5472208	.7436209	1.399114	.5809743
#1	14.08441	.2810875	.3252677	32.32884	.4547851	.4114080
#2	13.97481	.2817538	.3262521	32.41070	.4431373	.4091108
#3	14.28024	.2838571	.3287373	32.78242	.4449715	.4066558

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3179-01A Acquired: 9/30/2025 17:10:54 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.6900582	.1806549	6.240071	5.922334	F 202.4158	.1207717
Stddev	.0052875	.0024035	.082320	.027217	1.2957	.0054497
%RSD	.7662447	1.330461	1.319212	.4595732	.6401417	4.512399
#1	.6959601	.1831526	6.167956	5.937240	202.9263	.1161376
#2	.6884616	.1804540	6.222499	5.938842	203.3785	.1267757
#3	.6857530	.1783581	6.329758	5.890920	200.9425	.1194019

Elem	Sr4077
Units	ppm
Avg	.7916195
Stddev	.0063234
%RSD	.7987882
#1	.7975094
#2	.7924117
#3	.7849373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7337.809	87163.99	5070.062	5630.299	7963.362
Stddev	22.235	735.98	42.753	40.807	31.050
%RSD	.3030222	.8443644	.8432479	.7247808	.3899137
#1	7312.452	87565.99	5022.923	5674.927	7927.512
#2	7346.997	87611.43	5080.933	5621.082	7981.723
#3	7353.978	86314.56	5106.330	5594.889	7980.852

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169892BL Acquired: 9/30/2025 17:14:50 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.002153	.0112666	-.000304	.0028673	-.001182	.0071126
Stddev	.002815	.0019727	.001581	.0034087	.001349	.0137276
%RSD	130.7064	17.50938	519.6412	118.8831	114.0694	193.0055
#1	-.005372	.0124003	-.001056	.0027884	-.000912	.0182971
#2	-.000938	.0124107	-.001369	.0063148	-.002646	-.008207
#3	-.000151	.0089887	.001512	-.000501	.000011	.011248

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003190	-.000003	.0000129	.0022249	.0004406	-.000220
Stddev	.002983	.000076	.0000588	.0266451	.0002381	.000186
%RSD	93.51145	2923.084	457.8170	1197.596	54.03499	84.33291
#1	-.002747	.000076	.0000701	.0021005	.0006009	-.000209
#2	-.000453	-.000074	.0000158	.0289319	.0005539	-.000412
#3	-.006369	-.000010	-.000047	-.024358	.0001670	-.000041

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000253	-.000902	-.000584	.0334414	.0001559	-.000795
Stddev	.000290	.008866	.000432	.0682330	.0001047	.000139
%RSD	114.5958	983.1592	73.91017	204.0372	67.17432	17.48717
#1	.000073	-.010459	-.000582	-.043537	.0001105	-.000794
#2	-.000349	.000699	-.000153	.057386	.0002756	-.000657
#3	-.000483	.007055	-.001017	.086475	.0000815	-.000935

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.068247	-.000992	.0002323	-.007463	-.003965	.0006261
Stddev	.020157	.001415	.0005735	.062206	.000900	.0002911
%RSD	29.53545	142.6264	246.8531	833.5755	22.68785	46.49484
#1	-.051751	-.002596	.0000358	.026031	-.002930	.0009550
#2	-.090715	.000079	-.000217	-.079239	-.004555	.0004014
#3	-.062274	-.000459	.000878	.030821	-.004410	.0005220

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169892BL Acquired: 9/30/2025 17:14:50 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0159951	-.001067	.0366483	.0010025	F .2460822	-.008510
Stddev	.0001590	.003925	.0062153	.0005637	.0260659	.000352
%RSD	.9941615	368.0018	16.95938	56.22859	10.59236	4.139662
#1	.0159906	.003409	.0375284	.0016358	.2730302	-.008862
#2	.0158384	-.003924	.0423767	.0008160	.2442179	-.008157
#3	.0161563	-.002685	.0300398	.0005557	.2209985	-.008512

Elem	Sr4077
Units	ppm
Avg	-.000143
Stddev	.000053
%RSD	36.83828
#1	-.000165
#2	-.000181
#3	-.000083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7694.110	91198.98	5151.754	5947.408	9092.321
Stddev	22.591	386.09	19.059	20.089	16.526
%RSD	.2936181	.4233538	.3699473	.3377707	.1817542
#1	7715.541	91575.30	5129.809	5938.965	9098.455
#2	7670.515	90803.80	5164.162	5932.920	9073.605
#3	7696.275	91217.85	5161.291	5970.341	9104.903

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169892BS Acquired: 9/30/2025 17:19:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.6842831**	**1.690214**	**.8220645**	**1.774386**	**.8604743**	**1.691023**
Stddev	.0025122	.056005	.0015116	.008526	.0014547	.017325
%RSD	.3671245	3.313487	.1838757	.4804965	.1690628	1.024542
#1	.6852468	1.732874	.8222818	1.779280	.8609277	1.697955
#2	.6814317	1.626793	.8204560	1.764541	.8588468	1.671305
#3	.6861707	1.710975	.8234556	1.779336	.8616483	1.703808

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1683558**	**.1759951**	**.1648777**	**.8572313**	**.3389328**	**.1661204**
Stddev	.0036289	.0017145	.0001798	.0266213	.0005444	.0004254
%RSD	2.155492	.9741985	.1090539	3.105496	.1606258	.2560532
#1	.1709967	.1776293	.1650207	.8862246	.3384591	.1663606
#2	.1642179	.1742102	.1646758	.8338897	.3395276	.1663714
#3	.1698529	.1761457	.1649366	.8515795	.3388119	.1656293

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2630490**	**2.523484**	**.1724742**	**1.688383**	**.4150359**	**.0656046**
Stddev	.0004733	.008664	.0015182	.048574	.0003861	.0005591
%RSD	.1799148	.3433175	.8802497	2.876927	.0930398	.8522081
#1	.2634582	2.527884	.1733006	1.700108	.4154680	.0662047
#2	.2631582	2.513503	.1707221	1.635020	.4147246	.0650985
#3	.2625307	2.529063	.1734000	1.730021	.4149150	.0655107

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.447831**	**.2535628**	**.1744823**	**8.746002**	**.2598926**	**.4209701**
Stddev	.019202	.0015319	.0006312	.058633	.0019739	.0010075
%RSD	.7844591	.6041298	.3617339	.6703956	.7595045	.2393250
#1	2.448470	.2527064	.1740013	8.698528	.2610865	.4219485
#2	2.428317	.2526507	.1751969	8.811542	.2576142	.4199358
#3	2.466706	.2553313	.1742486	8.727935	.2609771	.4210259

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169892BS Acquired: 9/30/2025 17:19:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.7224173	.2022269	.8763718	4.885420	F .1313008	.1690845
Stddev	.0014591	.0000933	.0467582	.037119	.0033411	.0019466
%RSD	.2019798	.0461300	5.335430	.7597870	2.544613	1.151232
#1	.7234214	.2021405	.8434187	4.893753	.1336882	.1713320
#2	.7207435	.2023258	.9298875	4.844843	.1327316	.1679355
#3	.7230869	.2022143	.8558091	4.917664	.1274826	.1679859

Elem	Sr4077
Units	ppm
Avg	.1669281
Stddev	.0009746
%RSD	.5838716
#1	.1677008
#2	.1658332
#3	.1672505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7607.660	90490.05	5128.971	5901.668	8795.170
Stddev	22.007	562.49	26.611	35.927	21.943
%RSD	.2892719	.6216073	.5188372	.6087600	.2494842
#1	7583.519	91139.56	5121.490	5940.321	8769.870
#2	7612.858	90165.69	5158.522	5869.294	8806.623
#3	7626.602	90164.89	5106.902	5895.391	8809.016

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3215-01 Acquired: 9/30/2025 17:23:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0631941	-.000288	1.679702	.0089627	-.019260	157.0413	1.610931
Stddev	.0023036	.000762	.002923	.0024535	.002588	.4071	.013913
%RSD	3.645317	264.4310	.1739917	27.37457	13.43676	.2592521	.8636388
#1	.0658408	.000435	1.681097	.0063295	-.017834	156.8994	1.608090
#2	.0621007	-.001083	1.681667	.0093741	-.017698	157.5004	1.626045
#3	.0616408	-.000217	1.676344	.0111844	-.022247	156.7242	1.598658

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136795	-.002132	18.69256	.2881459	.1384063	.6374478	275.6441
Stddev	.0000296	.000361	.11666	.0008412	.0001598	.0002328	1.0582
%RSD	.2163454	16.91206	.6240749	.2919323	.1154276	.0365234	.3838837
#1	.0136783	-.002401	18.66716	.2888431	.1385837	.6376524	276.2820
#2	.0137097	-.002274	18.81982	.2872116	.1383615	.6374965	276.2277
#3	.0136505	-.001722	18.59070	.2883831	.1382737	.6371945	274.4227

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.483498	34.53246	.2559362	.0015773	7.470952	.3717725	.8212383
Stddev	.033485	.16749	.0009628	.0001663	.041255	.0005813	.0009700
%RSD	.7468603	.4850108	.3761844	10.54130	.5522042	.1563625	.1181209
#1	4.476782	34.49197	.2559266	.0013917	7.437548	.3717299	.8211525
#2	4.519833	34.71648	.2569038	.0017126	7.517067	.3723739	.8203140
#3	4.453880	34.38893	.2549783	.0016276	7.458241	.3712136	.8222484

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.62236	.1759079	.0043582	.0371674	4.023916	2.996982	8.561214
Stddev	.02153	.0024039	.0002193	.0006883	.031563	.018215	.079759
%RSD	.1580152	1.366573	5.032638	1.851855	.7843804	.6077830	.9316345
#1	13.59760	.1786210	.0041227	.0376267	4.006846	2.994051	8.486364
#2	13.63662	.1740434	.0043952	.0374994	4.060337	3.016485	8.552166
#3	13.63285	.1750594	.0045566	.0363761	4.004563	2.980410	8.645111

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3215-01 Acquired: 9/30/2025 17:23:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.605468**	**.1593981**	**-.125995**
Stddev	.045805	.0046978	.000829
%RSD	1.270444	2.947207	.6580648
#1	3.562340	.1576000	-.126948
#2	3.600515	.1647293	-.125601
#3	3.653549	.1558649	-.125437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9089.744**	**105450.4**	**6326.006**	**7020.251**	**8158.659**
Stddev	20.340	354.9	45.041	32.628	14.194
%RSD	.2237636	.3365358	.7119950	.4647685	.1739703
#1	9074.434	105789.6	6375.706	7030.639	8144.615
#2	9112.823	105479.8	6287.885	7046.421	8172.998
#3	9081.976	105081.7	6314.426	6983.694	8158.363

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3220-01 Acquired: 9/30/2025 17:27:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0699941	-.001021	.5008838	.0058390	-.026795	198.9239	.7971428
Stddev	.0026635	.006139	.0031432	.0016837	.000911	.3423	.0032145
%RSD	3.805300	601.1634	.6275316	28.83445	3.401023	.1720655	.4032481
#1	.0669905	.003337	.4994036	.0040201	-.026972	199.1463	.7975503
#2	.0709230	-.008043	.5044938	.0061541	-.027605	198.5297	.8001341
#3	.0720687	.001642	.4987539	.0073429	-.025808	199.0956	.7937441

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152885	-.001781	46.26538	.2345006	.1506945	.6332032	316.6714
Stddev	.0002553	.000064	.05118	.0006569	.0007421	.0020678	2.5888
%RSD	1.669813	3.608858	.1106256	.2801406	.4924818	.3265571	.8174987
#1	.0155094	-.001830	46.32294	.2342502	.1508807	.6336552	316.6307
#2	.0153470	-.001805	46.22498	.2352459	.1513258	.6350076	319.2803
#3	.0150090	-.001709	46.24822	.2340057	.1498770	.6309468	314.1032

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.667675	50.21139	.2884247	.0002727	10.55894	.4951389	.6254046
Stddev	.023511	.08399	.0013854	.0009827	.09584	.0032365	.0026718
%RSD	.5036877	.1672826	.4803436	360.2925	.9076553	.6536440	.4272079
#1	4.679516	50.26384	.2877902	.0006726	10.54829	.4976086	.6223203
#2	4.682911	50.11451	.2900138	.0009924	10.65965	.4963330	.6268832
#3	4.640598	50.25581	.2874702	-.000847	10.46886	.4914751	.6270102

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.44481	.2166705	.0038808	.0353045	4.945040	3.548928	9.582972
Stddev	.11316	.0108571	.0004399	.0007705	.009946	.026805	.028263
%RSD	.7326961	5.010885	11.33550	2.182578	.2011285	.7552966	.2949298
#1	15.37686	.2189076	.0042973	.0354330	4.947471	3.577778	9.615605
#2	15.57545	.2262349	.0034207	.0344778	4.953544	3.544213	9.567018
#3	15.38213	.2048691	.0039243	.0360028	4.934104	3.524794	9.566294

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3220-01 Acquired: 9/30/2025 17:27:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.451386**	**.1921964**	**-.044400**
Stddev	.011617	.0019920	.002153
%RSD	.3365827	1.036413	4.849830
#1	3.462893	.1905776	-.044055
#2	3.451603	.1915907	-.046705
#3	3.439663	.1944209	-.042440

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9514.044**	**112082.8**	**6642.082**	**7353.419**	**7833.073**
Stddev	40.691	425.6	11.874	36.487	41.219
%RSD	.4276907	.3797470	.1787700	.4961930	.5262153
#1	9482.742	112095.1	6629.592	7323.399	7801.385
#2	9499.350	111651.2	6643.429	7342.829	7818.161
#3	9560.041	112502.2	6653.225	7394.030	7879.672

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3221-01 Acquired: 9/30/2025 17:31:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1105742	-.001005	.6636533	.0048463	-.026147	151.1826	.8294106
Stddev	.0023832	.000794	.0049765	.0024020	.004092	.1527	.0029625
%RSD	2.155245	79.06313	.7498625	49.56333	15.64799	.1010201	.3571799
#1	.1133240	-.000164	.6600381	.0020847	-.027706	151.0100	.8298284
#2	.1091072	-.001742	.6615926	.0064499	-.029231	151.3000	.8321421
#3	.1092915	-.001108	.6693291	.0060044	-.021506	151.2379	.8262614

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159393	-.001413	138.6457	.2294263	.2157234	.7744975	308.6214
Stddev	.0001013	.000250	.2950	.0008971	.0004949	.0019449	2.3655
%RSD	.6355812	17.65850	.2127973	.3910088	.2294295	.2511150	.7664703
#1	.0158239	-.001646	138.4097	.2286370	.2152468	.7726258	310.7876
#2	.0160132	-.001150	138.9765	.2292401	.2156886	.7765081	306.0974
#3	.0159810	-.001444	138.5510	.2304019	.2162348	.7743585	308.9794

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.513988	122.1097	.2425891	-.000277	11.93198	.4604073	1.029505
Stddev	.019456	.2668	.0005124	.001366	.10624	.0042104	.000882
%RSD	.4310101	.2185328	.2112381	492.5121	.8903471	.9144912	.0856271
#1	4.503427	121.8475	.2419976	.000756	12.04779	.4621281	1.028968
#2	4.536440	122.1005	.2428695	-.001826	11.83905	.4634847	1.029024
#3	4.502096	122.3810	.2429001	.000237	11.90908	.4556091	1.030522

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.56766	.2167464	.0079777	.0295765	5.320843	3.066484	7.018810
Stddev	.05262	.0134914	.0002411	.0010864	.011854	.084561	.030610
%RSD	.4186991	6.224527	3.021869	3.673106	.2227822	2.757592	.4361197
#1	12.62789	.2271783	.0082549	.0283317	5.309437	3.164114	7.043324
#2	12.53061	.2015104	.0078619	.0303331	5.333099	3.016348	7.028606
#3	12.54448	.2215505	.0078165	.0300647	5.319993	3.018989	6.984501

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3221-01 Acquired: 9/30/2025 17:31:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.464061**	**.1898205**	**-.073537**
Stddev	.007876	.0014318	.002891
%RSD	.3196275	.7542913	3.931247
#1	2.473056	.1895334	-.075657
#2	2.460726	.1885540	-.070244
#3	2.458401	.1913741	-.074712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8867.710**	**107154.6**	**6361.070**	**6935.158**	**7597.598**
Stddev	38.905	413.2	49.335	21.425	33.977
%RSD	.4387311	.3856155	.7755694	.3089388	.4472129
#1	8879.429	106748.1	6399.178	6929.002	7609.156
#2	8824.292	107574.2	6305.346	6958.988	7559.349
#3	8899.409	107141.4	6378.688	6917.485	7624.289

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3222-01 Acquired: 9/30/2025 17:35:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0478351	.0025311	.2726190	.0027546	-.019493	116.1274	.5404139
Stddev	.0008583	.0011902	.0020403	.0016631	.001425	1.0367	.0063415
%RSD	1.794303	47.02107	.7484073	60.37645	7.309196	.8926993	1.173445
#1	.0471019	.0013442	.2739353	.0046348	-.018301	115.0197	.5346093
#2	.0476241	.0037245	.2702687	.0021531	-.019109	116.2882	.5394503
#3	.0487792	.0025245	.2736530	.0014759	-.021071	117.0743	.5471819

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106054	-.001779	77.50753	.2137292	.1306027	.6139058	265.4557
Stddev	.0000979	.000107	.66907	.0005496	.0002938	.0012593	2.5050
%RSD	.9233609	6.009849	.8632353	.2571494	.2249572	.2051313	.9436504
#1	.0105176	-.001791	76.85535	.2132816	.1302695	.6125551	264.5618
#2	.0107110	-.001667	77.47495	.2135633	.1308246	.6141147	263.5204
#3	.0105876	-.001879	78.19230	.2143426	.1307140	.6150476	268.2850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.814879	59.36294	.2255263	-.000233	5.329121	.4880092	.5371314
Stddev	.020214	.47480	.0010082	.000581	.050865	.0046627	.0016792
%RSD	.5298672	.7998294	.4470603	249.4166	.9544747	.9554584	.3126304
#1	3.803652	58.88507	.2250076	-.000807	5.270470	.4845786	.5389356
#2	3.802771	59.36914	.2248830	-.000244	5.361143	.4861308	.5368447
#3	3.838215	59.83461	.2266883	.000353	5.355750	.4933181	.5356141

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.881313	.4648594	.0081180	.0493943	6.649852	2.944617	5.467867
Stddev	.038553	.0027819	.0004337	.0014030	.037529	.033142	.035065
%RSD	.4340920	.5984279	5.342505	2.840321	.5643637	1.125510	.6412998
#1	8.849924	.4644000	.0086151	.0486485	6.613192	2.906373	5.463631
#2	8.869669	.4623358	.0078165	.0485217	6.648170	2.962526	5.435111
#3	8.924346	.4678423	.0079225	.0510126	6.688194	2.964950	5.504857

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3222-01 Acquired: 9/30/2025 17:35:03 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.516589**	**.1169540**	**-.088744**
Stddev	.016153	.0016270	.001903
%RSD	.4593455	1.391186	2.144803
#1	3.513315	.1177116	-.088299
#2	3.502324	.1180641	-.087102
#3	3.534129	.1150863	-.090830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9154.593**	**108486.3**	**6507.009**	**7137.503**	**7942.216**
Stddev	33.367	680.6	31.906	20.350	19.976
%RSD	.3644802	.6273839	.4903273	.2851083	.2515207
#1	9153.476	109014.4	6543.691	7160.947	7936.876
#2	9121.799	108726.3	6491.629	7124.407	7925.453
#3	9188.505	107718.2	6485.706	7127.155	7964.320

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV04 Acquired: 9/30/2025 17:39:03 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.959390**	**5.170732**	**4.874347**	**5.025340**	**4.903275**	**9.552408**	**9.780038**
Stddev	.006385	.125534	.007622	.011313	.008211	.037231	.054239
%RSD	.1287513	2.427780	.1563636	.2251287	.1674648	.3897542	.5545841
#1	4.964618	5.067554	4.868873	5.015056	4.897671	9.509480	9.723545
#2	4.961280	5.310494	4.871116	5.037459	4.899455	9.571852	9.784871
#3	4.952274	5.134147	4.883052	5.023505	4.912701	9.575891	9.831698

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2452545**	**2.449896**	**24.32987**	**.9713398**	**2.437752**	**1.223985**	**4.872949**
Stddev	.0006743	.004028	.13309	.0033732	.004216	.002308	.011826
%RSD	.2749340	.1644203	.5470065	.3472715	.1729614	.1885576	.2426876
#1	.2448037	2.447136	24.18162	.9715745	2.436167	1.222838	4.859886
#2	.2460297	2.448033	24.36895	.9745895	2.434557	1.222475	4.882927
#3	.2449302	2.454518	24.43904	.9678554	2.442531	1.226642	4.876033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.431977**	**24.04704**	**2.442754**	**1.210621**	**22.99816**	**2.424875**	**2.435122**
Stddev	.014263	.09517	.002908	.002183	.10381	.013735	.006389
%RSD	.5864639	.3957790	.1190393	.1803259	.4513880	.5664032	.2623781
#1	2.417109	23.97658	2.441879	1.208576	22.89103	2.409529	2.439607
#2	2.433276	24.15531	2.440384	1.212920	23.00513	2.429084	2.437952
#3	2.445546	24.00924	2.445999	1.210366	23.09830	2.436013	2.427806

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.31655**	**4.915180**	**4.882727**	**4.900185**	**4.831182**	**4.623544**	**4.936435**
Stddev	.06034	.015258	.005799	.001675	.029682	.004905	.010191
%RSD	.2481614	.3104212	.1187609	.0341744	.6143863	.1060947	.2064376
#1	24.27030	4.901202	4.876718	4.898291	4.798416	4.618321	4.925150
#2	24.38481	4.931457	4.883175	4.901467	4.838856	4.628054	4.944964
#3	24.29454	4.912880	4.888290	4.900798	4.856273	4.624256	4.939191

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV04 Acquired: 9/30/2025 17:39:03 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**5.159416**	**4.636130**	**4.827599**
Stddev	.015406	.024855	.033872
%RSD	.2986068	.5361150	.7016340
#1	5.152020	4.608503	4.803060
#2	5.177126	4.643211	4.813494
#3	5.149102	4.656676	4.866245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7400.113**	**89585.54**	**5070.696**	**5755.876**	**8089.857**
Stddev	21.659	507.07	36.694	34.180	20.243
%RSD	.2926811	.5660161	.7236450	.5938248	.2502317
#1	7402.716	89914.32	5102.018	5773.811	8091.996
#2	7420.353	89001.57	5030.324	5716.461	8108.946
#3	7377.271	89840.74	5079.746	5777.355	8068.629

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB04 Acquired: 9/30/2025 17:43:07 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000557**	**.0091160**	**.0004706**	**.0068221**	**-.000120**	**.0170235**
Stddev	.000369	.0021960	.0006819	.0013376	.000984	.0153118
%RSD	66.16509	24.08912	144.8776	19.60616	822.8603	89.94524
#1	-.000352	.0089585	.0012163	.0055350	.000053	.0183131
#2	-.000337	.0070030	.0003168	.0067263	.000767	.0011076
#3	-.000983	.0113865	-.000121	.0082050	-.001179	.0316496

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001722**	**-.000122**	**-.000153**	**-.008319**	**-.000000**	**-.000249**
Stddev	.000301	.000055	.000082	.021304	.000240	.000171
%RSD	17.49217	45.19159	53.31673	256.0923	70173.09	68.81696
#1	-.002021	-.000185	-.000139	-.016083	-.000246	-.000052
#2	-.001726	-.000095	-.000080	-.024652	.000235	-.000359
#3	-.001419	-.000086	-.000241	.015778	.000009	-.000337

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000300**	**-.012702**	**.0007358**	**-.038680**	**-.000082**	**-.000516**
Stddev	.000199	.009806	.0005379	.029047	.000336	.000237
%RSD	66.16787	77.20527	73.10751	75.09600	408.2176	45.88333
#1	-.000071	-.004575	.0005962	-.070196	-.000411	-.000322
#2	-.000429	-.023594	.0013297	-.032859	.000260	-.000446
#3	-.000400	-.009937	.0002814	-.012983	-.000096	-.000781

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.286125**	**.0002540**	**.0004016**	**-.340153**	**-.000407**	**.0008246**
Stddev	.014168	.0026711	.0001120	.029963	.001038	.0002999
%RSD	4.951676	1051.692	27.88319	8.808654	255.2030	36.37214
#1	-.294532	-.000082	.0005209	-.336271	.000777	.0011332
#2	-.269767	-.002233	.0003851	-.312320	-.000834	.0005342
#3	-.294075	.003077	.0002988	-.371868	-.001163	.0008065

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB04 Acquired: 9/30/2025 17:43:07 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006197	.0000576	.0260631	.0014297	F .0106721	F -.019467
Stddev	.000757	.0028653	.0091369	.0002775	.0002091	.007513
%RSD	12.21553	4972.025	35.05698	19.41051	1.959125	38.59154
#1	-.005896	.0006761	.0348674	.0016740	.0105101	-.012787
#2	-.005636	-.003066	.0266956	.0014871	.0109081	-.027600
#3	-.007058	.002563	.0166264	.0011279	.0105980	-.018013

Elem	Sr4077
Units	ppm
Avg	-.000155
Stddev	.000376
%RSD	242.0379
#1	-.000525
#2	.000227
#3	-.000169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7675.318	93042.23	5153.552	5952.709	9076.732
Stddev	22.328	534.55	20.352	39.857	23.630
%RSD	.2909102	.5745241	.3949156	.6695554	.2603325
#1	7650.340	93424.49	5134.376	5991.677	9055.841
#2	7693.340	92431.40	5174.905	5912.020	9102.378
#3	7682.275	93270.81	5151.373	5954.431	9071.978

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3230-01 Acquired: 9/30/2025 17:47:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0473306	.0071463	.2931558	-.003282	-.003236	72.37848
Stddev	.0026333	.0031726	.0023053	.003641	.002863	.19471
%RSD	5.563698	44.39505	.7863891	110.9391	88.44955	.2690161
#1	.0455464	.0090715	.2932108	-.005740	-.001650	72.24471
#2	.0460904	.0034845	.2908235	-.005006	-.001518	72.60187
#3	.0503551	.0088829	.2954332	.000901	-.006541	72.28887

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4637079	.0069093	-.000215	912.5548	.2680507	2.605633
Stddev	.0024386	.0000839	.000207	8.0436	.0021229	.002360
%RSD	.5258906	1.215046	96.53458	.8814379	.7919889	.0905884
#1	.4609501	.0068710	.000024	914.4146	.2675550	2.608028
#2	.4655794	.0070055	-.000344	919.5056	.2703776	2.603309
#3	.4645943	.0068513	-.000325	903.7442	.2662195	2.605563

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6821831	186.6072	2.576569	150.6870	.4158631	-.000991
Stddev	.0011910	.5643	.013708	.3750	.0005992	.000771
%RSD	.1745840	.3023915	.5320250	.2488359	.1440841	77.71421
#1	.6811866	185.9725	2.571084	150.3082	.4165406	-.001203
#2	.6818606	186.7971	2.592170	151.0580	.4156458	-.001634
#3	.6835021	187.0521	2.566453	150.6950	.4154028	-.000137

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.254556	.2107467	.7815688	7.923191	.2054885	.0968617
Stddev	.006590	.0003857	.0013699	.074653	.0051345	.0006518
%RSD	.2922916	.1830037	.1752716	.9422044	2.498670	.6728794
#1	2.256421	.2111073	.7799901	7.847173	.2013757	.0972430
#2	2.247234	.2107927	.7822718	7.926002	.2038467	.0961091
#3	2.260012	.2103401	.7824444	7.996399	.2112431	.0972329

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3230-01 Acquired: 9/30/2025 17:47:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0518593	3.045511	6.819316	2.948048	F 25.95965	-.015399
Stddev	.0002153	.005979	.040138	.001687	.03210	.004417
%RSD	.4151694	.1963261	.5885858	.0572333	.1236684	28.68453
#1	.0521032	3.039506	6.777835	2.948966	25.98145	-.013968
#2	.0516959	3.051464	6.857960	2.946101	25.92278	-.011874
#3	.0517787	3.045564	6.822154	2.949077	25.97471	-.020354

Elem	Sr4077
Units	ppm
Avg	3.354177
Stddev	.010971
%RSD	.3270933
#1	3.347100
#2	3.366815
#3	3.348615

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7187.150	84760.53	5243.268	5610.896	7084.254
Stddev	19.826	188.71	33.962	16.479	9.482
%RSD	.2758471	.2226410	.6477218	.2937001	.1338453
#1	7209.435	84551.15	5226.728	5593.801	7095.130
#2	7180.548	84812.93	5220.744	5626.682	7077.723
#3	7171.468	84917.50	5282.331	5612.205	7079.910

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01 Acquired: 9/30/2025 17:51:25 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0826921	-.003711	4.538728	.0054098	-.010059	63.89293	.9902085
Stddev	.0022131	.003988	.001717	.0034449	.000930	.23610	.0056798
%RSD	2.676362	107.4714	.0378353	63.67852	9.247625	.3695238	.5735936
#1	.0851688	.000660	4.537785	.0060903	-.010364	64.01145	.9928754
#2	.0809085	-.004642	4.537689	.0016755	-.010799	64.04630	.9940641
#3	.0819988	-.007150	4.540710	.0084638	-.009015	63.62105	.9836861

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085988	.0703330	25.64256	.1269136	.0629836	1.012396	222.8531
Stddev	.0000559	.0001643	.11215	.0009842	.0002952	.003366	.8687
%RSD	.6503822	.2336491	.4373498	.7754673	.4687407	.3324450	.3898138
#1	.0085891	.0701724	25.64652	.1278936	.0627219	1.012142	223.8557
#2	.0086590	.0705009	25.75268	.1269218	.0629252	1.009164	222.3790
#3	.0085484	.0703258	25.52849	.1259253	.0633036	1.015881	222.3246

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.937928	14.92091	.1640145	.0008666	1.574949	.2047364	19.62192
Stddev	.023627	.02268	.0008233	.0002614	.008158	.0044626	.52079
%RSD	.5999898	.1520257	.5019939	30.16785	.5179676	2.179655	2.654140
#1	3.948301	14.94639	.1634778	.0005731	1.568805	.2098667	20.19559
#2	3.954594	14.91341	.1636033	.0010744	1.571837	.2017536	19.49132
#3	3.910889	14.90293	.1649625	.0009523	1.584204	.2025889	19.17886

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.500027	.1011699	-.011667	.1771176	2.344559	7.606469	6.503454
Stddev	.064386	.0013634	.000329	.0013360	.013144	.055226	.010521
%RSD	1.170654	1.347598	2.816074	.7543213	.5605960	.7260379	.1617789
#1	5.426188	.0996274	-.011341	.1757597	2.347977	7.599576	6.498008
#2	5.529430	.1022135	-.011998	.1771627	2.355655	7.664818	6.515581
#3	5.544463	.1016689	-.011660	.1784306	2.330044	7.555014	6.496771

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01 Acquired: 9/30/2025 17:51:25 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.409460**	**.0734813**	**-.052491**
Stddev	.005993	.0020149	.000604
%RSD	.4251663	2.742083	1.150482
#1	1.403549	.0715062	-.052936
#2	1.415531	.0755338	-.051803
#3	1.409299	.0734040	-.052732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8376.645**	**102202.1**	**5826.464**	**6599.630**	**8256.648**
Stddev	23.335	752.9	49.850	83.878	29.708
%RSD	.2785740	.7367227	.8555788	1.270957	.3598013
#1	8353.966	101346.8	5793.747	6507.730	8231.824
#2	8375.383	102494.9	5801.808	6619.095	8248.558
#3	8400.585	102764.7	5883.837	6672.064	8289.563

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01LX5 Acquired: 9/30/2025 17:59:40 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0159082**	**.0080586**	**.9460932**	**.0047883**	**-.002192**	**15.21977**	**.2293754**
Stddev	.0006656	.0010893	.0056220	.0014959	.002568	.08335	.0007996
%RSD	4.184188	13.51727	.5942298	31.24137	117.1612	.5476521	.3485924
#1	.0152764	.0089683	.9524635	.0042200	-.000184	15.29475	.2302178
#2	.0166031	.0068515	.9439901	.0036599	-.001306	15.23454	.2292815
#3	.0158451	.0083561	.9418260	.0064852	-.005085	15.13002	.2286270

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020369**	**.0148436**	**6.055548**	**.0292972**	**.0128346**	**.2378418**	**51.84113**
Stddev	.0000305	.0001994	.053502	.0006337	.0002117	.0018286	.23548
%RSD	1.495886	1.343091	.8835272	2.162922	1.649520	.7688384	.4542424
#1	.0020328	.0150641	6.116958	.0296797	.0129537	.2397413	51.87519
#2	.0020087	.0146760	6.030686	.0296461	.0129599	.2376906	52.05773
#3	.0020692	.0147906	6.019001	.0285658	.0125902	.2360934	51.59047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9419461**	**3.566994**	**.0339763**	**-.000425**	**.3308387**	**.0472641**	**5.334946**
Stddev	.0069650	.037307	.0005091	.000232	.0142361	.0026919	.017329
%RSD	.7394217	1.045897	1.498499	54.50524	4.303026	5.695524	.3248220
#1	.9484255	3.606974	.0344588	-.000158	.3152262	.0441558	5.354901
#2	.9428323	3.560897	.0334442	-.000544	.3341893	.0488335	5.326260
#3	.9345804	3.533111	.0340258	-.000574	.3431006	.0488030	5.323678

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.470185**	**.0171805**	**-.003433**	**.0543474**	**.5505113**	**1.794983**	**1.372092**
Stddev	.038005	.0014465	.000480	.0003674	.0032421	.022080	.010586
%RSD	2.585064	8.419286	13.98237	.6759790	.5889203	1.230112	.7714959
#1	1.457908	.0180438	-.003508	.0545347	.5542541	1.788345	1.384187
#2	1.439835	.0179870	-.003871	.0545834	.5487070	1.819621	1.367576
#3	1.512811	.0155105	-.002920	.0539241	.5485727	1.776983	1.364513

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01LX5 Acquired: 9/30/2025 17:59:40 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**.3005857**	**.0135294**	**-.011630**
Stddev	.0008460	.0016693	.000210
%RSD	.2814367	12.33861	1.809300
#1	.3013712	.0152177	-.011416
#2	.2996901	.0134909	-.011637
#3	.3006959	.0118797	-.011837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7737.161**	**94327.35**	**5325.026**	**6091.599**	**8604.138**
Stddev	36.532	252.50	15.991	7.773	36.643
%RSD	.4721655	.2676840	.3002900	.1276052	.4258814
#1	7702.015	94597.95	5306.628	6095.804	8564.138
#2	7734.530	94286.04	5332.876	6082.630	8612.189
#3	7774.937	94098.05	5335.575	6096.364	8636.086

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01MS Acquired: 9/30/2025 18:03:45 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7545764**	**1.846887**	**24.40967**	**1.709349**	**.4237255**	**71.60284**
Stddev	.0024175	.040070	.03198	.005349	.0009584	.06557
%RSD	.3203763	2.169601	.1310134	.3129109	.2261785	.0915754
#1	.7559268	1.880549	24.44659	1.714804	.4246341	71.52963
#2	.7560169	1.857547	24.39107	1.704114	.4227241	71.65617
#3	.7517854	1.802565	24.39133	1.709129	.4238184	71.62271

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.410947**	**.1831904**	**.1959948**	**27.32735**	**.5022188**	**.2513631**
Stddev	.006256	.0015618	.0004410	.02613	.0019065	.0006960
%RSD	.4434154	.8525480	.2249902	.0956009	.3796064	.2768908
#1	1.416465	.1848451	.1964206	27.34991	.5037223	.2520962
#2	1.412226	.1817420	.1955401	27.33340	.5028595	.2507113
#3	1.404150	.1829840	.1960235	27.29873	.5000745	.2512819

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.203262**	**190.3657**	**3.488038**	**17.11973**	**.6497361**	**.0686349**
Stddev	.002233	1.6341	.015144	.04487	.0010896	.0013124
%RSD	.1855437	.8584251	.4341787	.2620698	.1676945	1.912095
#1	1.205596	189.0708	3.491794	17.08476	.6506220	.0672970
#2	1.201147	192.2018	3.500951	17.17032	.6500667	.0699202
#3	1.203041	189.8245	3.471369	17.10412	.6485195	.0686874

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.890311**	**.4474765**	**4.059768**	**14.06760**	**.3607775**	**.3584305**
Stddev	.039879	.0093463	.011900	.16832	.0041763	.0007592
%RSD	1.025073	2.088670	.2931098	1.196487	1.157580	.2118243
#1	3.869514	.4465162	4.072629	14.15412	.3600771	.3589022
#2	3.936290	.4572658	4.057525	14.17505	.3652596	.3575546
#3	3.865131	.4386474	4.049149	13.87362	.3569956	.3588345

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01MS Acquired: 9/30/2025 18:03:45 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.9077445	2.275393	4.042092	F 11.39125	1.252985	.2444412
Stddev	.0044620	.002821	.077128	.03687	.006492	.0044971
%RSD	.4915460	.1239610	1.908123	.3236808	.5181387	1.839757
#1	.9101957	2.276855	3.992157	11.43362	1.259489	.2419160
#2	.9104437	2.277183	4.130923	11.37374	1.252960	.2417743
#3	.9025943	2.272142	4.003195	11.36640	1.246505	.2496334

Elem	Sr4077
Units	ppm
Avg	.1671905
Stddev	.0021852
%RSD	1.307026
#1	.1697066
#2	.1660977
#3	.1657672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8438.476	97503.71	5687.006	6435.946	8377.207
Stddev	11.496	368.90	52.766	85.380	10.850
%RSD	.1362323	.3783413	.9278337	1.326608	.1295226
#1	8428.288	97289.77	5626.078	6356.753	8364.837
#2	8450.939	97291.69	5717.154	6424.690	8385.115
#3	8436.200	97929.68	5717.786	6526.396	8381.669

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01DUP Acquired: 9/30/2025 18:11:13 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0817312	-.003992	4.455767	.0066406	-.010521	63.99487	.9852366
Stddev	.0006059	.001700	.008370	.0030104	.000477	.30603	.0079527
%RSD	.7412912	42.58693	.1878434	45.33351	4.536956	.4782132	.8071902
#1	.0816090	-.002624	4.465041	.0089902	-.010811	63.93535	.9806670
#2	.0811957	-.003457	4.448776	.0032472	-.009970	63.72298	.9806232
#3	.0823888	-.005896	4.453482	.0076843	-.010782	64.32629	.9944196

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084169	.0711418	25.69722	.1270355	.0622685	1.002535	218.9757
Stddev	.0001173	.0001633	.12648	.0000977	.0005303	.002406	2.2172
%RSD	1.393720	.2296036	.4921781	.0768769	.8515990	.2399515	1.012540
#1	.0083906	.0711723	25.61998	.1271470	.0628556	1.002018	220.7692
#2	.0083151	.0712878	25.62849	.1269649	.0621256	1.005157	216.4967
#3	.0085452	.0709654	25.84318	.1269947	.0618243	1.000430	219.6613

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.947377	14.89124	.1636728	.0008740	1.668047	.2032372	19.86865
Stddev	.026577	.14417	.0007190	.0013746	.012405	.0028585	.05413
%RSD	.6732931	.9681484	.4392734	157.2753	.7437016	1.406473	.2724546
#1	3.929552	14.87746	.1644646	.0020225	1.663275	.2002741	19.92501
#2	3.934654	14.75446	.1630607	-.000649	1.658736	.2034593	19.86388
#3	3.977924	15.04181	.1634932	.001249	1.682129	.2059781	19.81706

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.563024	.0858436	-.011787	.1872768	2.360978	8.268016	6.459427
Stddev	.041962	.0173603	.000435	.0011993	.014505	.052898	.028144
%RSD	.7542991	20.22315	3.686724	.6404120	.6143498	.6397919	.4356995
#1	5.586660	.1056253	-.011333	.1863545	2.350630	8.310344	6.430530
#2	5.514576	.0731432	-.012199	.1886327	2.354747	8.208714	6.486752
#3	5.587837	.0787625	-.011828	.1868434	2.377557	8.284990	6.460999

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01DUP Acquired: 9/30/2025 18:11:13 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.478789**	**.0732701**	**-.048418**
Stddev	.010691	.0020935	.002211
%RSD	.7229530	2.857163	4.566734
#1	1.469433	.0756800	-.050870
#2	1.490442	.0719012	-.046574
#3	1.476493	.0722292	-.047812

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8467.737**	**102674.0**	**5803.845**	**6619.679**	**8362.519**
Stddev	12.098	200.8	69.594	7.690	11.970
%RSD	.1428703	.1955439	1.199107	.1161614	.1431355
#1	8459.520	102905.8	5883.050	6616.685	8348.804
#2	8462.062	102559.2	5752.486	6613.937	8367.890
#3	8481.629	102557.0	5775.997	6628.415	8370.862

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01MSD Acquired: 9/30/2025 18:15:28 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.7461151	1.795237	3.666941	1.695677	.4240842	61.50052
Stddev	.0055661	.019830	.002918	.004152	.0007467	.12080
%RSD	.7460125	1.104595	.0795621	.2448873	.1760725	.1964240
#1	.7511915	1.788446	3.670056	1.698949	.4232754	61.63822
#2	.7401631	1.779694	3.664272	1.691006	.4247473	61.45097
#3	.7469907	1.817570	3.666496	1.697076	.4242301	61.41237

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8417313	.1763356	.1942121	21.50822	.4800411	.2446065
Stddev	.0034904	.0017928	.0003395	.02284	.0025537	.0001426
%RSD	.4146715	1.016672	.1748139	.1061837	.5319710	.0582923
#1	.8457134	.1746127	.1942925	21.52961	.4779475	.2444793
#2	.8392019	.1762031	.1938396	21.51090	.4828862	.2447606
#3	.8402784	.1781909	.1945042	21.48417	.4792896	.2445796

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9886931	212.5369	3.158453	16.03924	.6119683	.0652465
Stddev	.0020240	2.4045	.008971	.03412	.0011941	.0010714
%RSD	.2047131	1.131313	.2840360	.2127457	.1951301	1.642113
#1	.9886740	214.7566	3.168644	16.04903	.6133468	.0659099
#2	.9866787	212.8714	3.151749	16.00129	.6112492	.0658191
#3	.9907266	209.9828	3.154966	16.06740	.6113091	.0640104

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.684663	.4218160	2.783374	13.29350	.3404784	.3497988
Stddev	.098757	.0024705	.017376	.09060	.0091327	.0004592
%RSD	2.680225	.5856729	.6242895	.6815029	2.682300	.1312729
#1	3.798378	.4241127	2.772242	13.36388	.3487736	.3500443
#2	3.635198	.4221330	2.803397	13.32533	.3419696	.3492690
#3	3.620413	.4192024	2.774484	13.19128	.3306919	.3500830

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01MSD Acquired: 9/30/2025 18:15:28 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.8214134	2.256933	3.813280	F 11.43220	.9433753	.2302597
Stddev	.0017164	.009905	.004814	.02725	.0089470	.0019435
%RSD	.2089527	.4388687	.1262306	.2383872	.9483975	.8440548
#1	.8233926	2.268291	3.814448	11.46060	.9380786	.2324153
#2	.8203345	2.250089	3.817403	11.40626	.9383420	.2297222
#3	.8205131	2.252420	3.807990	11.42974	.9537052	.2286415

Elem	Sr4077
Units	ppm
Avg	.0771412
Stddev	.0013236
%RSD	1.715866
#1	.0767655
#2	.0760460
#3	.0786120

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8425.771	100915.8	5817.870	6542.649	8238.891
Stddev	8.509	224.4	47.880	33.263	10.164
%RSD	.1009850	.2223187	.8229826	.5084004	.1233602
#1	8421.965	100685.8	5850.163	6547.428	8232.525
#2	8419.829	100927.7	5840.587	6507.255	8233.537
#3	8435.518	101134.0	5762.860	6573.264	8250.613

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01A Acquired: 9/30/2025 18:19:23 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7787572**	**1.846939**	**6.631917**	**1.748448**	**.6783043**	**63.60111**
Stddev	.0029469	.120104	.007556	.007690	.0023135	.14510
%RSD	.3784077	6.502868	.1139412	.4398050	.3410674	.2281478
#1	.7757787	1.764735	6.623242	1.741524	.6792246	63.76857
#2	.7788217	1.791310	6.637064	1.747097	.6800160	63.52218
#3	.7816713	1.984772	6.635446	1.756724	.6756723	63.51257

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.278142**	**.1828196**	**.2167841**	**28.39189**	**.4746475**	**.2675309**
Stddev	.003157	.0014293	.0002928	.00659	.0011317	.0007353
%RSD	.2469775	.7818003	.1350673	.0231971	.2384312	.2748577
#1	1.281146	.1834991	.2164481	28.39821	.4758116	.2666860
#2	1.274852	.1837824	.2169192	28.38507	.4745795	.2680261
#3	1.278427	.1811774	.2169849	28.39239	.4735513	.2678807

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.498518**	**312.2978**	**4.133642**	**17.11830**	**.6529565**	**.0694401**
Stddev	.001845	1.4713	.012835	.04870	.0009751	.0004221
%RSD	.1231212	.4711352	.3104888	.2845090	.1493415	.6079111
#1	1.498465	312.4107	4.139477	17.17283	.6518796	.0692809
#2	1.500388	310.7732	4.142522	17.10292	.6532102	.0691208
#3	1.496700	313.7094	4.118926	17.07914	.6537798	.0699187

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.212149**	**.4606996**	**10.56192**	**14.12419**	**.4400021**	**.3578888**
Stddev	.067309	.0034533	.10380	.11775	.0119794	.0003497
%RSD	1.597973	.7495854	.9827759	.8336735	2.722584	.0977217
#1	4.258977	.4622904	10.52417	14.25980	.4355716	.3576657
#2	4.135015	.4630707	10.48227	14.06492	.4308690	.3577089
#3	4.242456	.4567375	10.67931	14.04785	.4535657	.3582919

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-01A Acquired: 9/30/2025 18:19:23 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.8385763	2.390959	5.640064	F 11.91930	2.690571	.2562335
Stddev	.0026312	.010948	.028303	.10019	.036979	.0024274
%RSD	.3137712	.4579034	.5018169	.8405818	1.374398	.9473438
#1	.8357797	2.398180	5.608810	11.82671	2.659034	.2580435
#2	.8389464	2.378362	5.663964	11.90553	2.681410	.2571819
#3	.8410029	2.396336	5.647417	12.02567	2.731270	.2534751

Elem	Sr4077
Units	ppm
Avg	.0335428
Stddev	.0007645
%RSD	2.279067
#1	.0343907
#2	.0333317
#3	.0329061

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8475.357	100329.9	5797.025	6538.492	8349.747
Stddev	18.216	314.6	44.243	24.156	9.307
%RSD	.2149318	.3135240	.7632078	.3694373	.1114602
#1	8454.355	99980.0	5768.152	6516.247	8339.298
#2	8484.842	100420.6	5774.962	6564.188	8357.147
#3	8486.873	100589.2	5847.962	6535.041	8352.795

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-05 Acquired: 9/30/2025 18:23:26 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0697655**	**-.004321**	**2.820153**	**.0067928**	**-.013955**	**58.72323**	**.6208590**
Stddev	.0021390	.002587	.002096	.0025507	.002283	.16994	.0018730
%RSD	3.065951	59.86914	.0743158	37.54979	16.35915	.2893928	.3016723
#1	.0674775	-.003557	2.822507	.0043140	-.014551	58.81924	.6215539
#2	.0717151	-.007205	2.818490	.0066546	-.015881	58.82343	.6222851
#3	.0701041	-.002203	2.819461	.0094098	-.011433	58.52701	.6187379

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086392**	**.0063575**	**24.29787**	**.1056201**	**.0544097**	**.7797772**	**221.1185**
Stddev	.0000517	.0001973	.02475	.0007754	.0001361	.0002635	.3845
%RSD	.5985287	3.102692	.1018424	.7341476	.2500522	.0337879	.1738715
#1	.0086419	.0062254	24.27749	.1048655	.0544137	.7800226	220.7395
#2	.0085861	.0065842	24.29073	.1055800	.0542716	.7798103	221.1078
#3	.0086894	.0062628	24.32541	.1064147	.0545436	.7794988	221.5082

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.583869**	**13.35403**	**.1203928**	**-.001029**	**1.215466**	**.1816155**	**3.075598**
Stddev	.007456	.06388	.0003094	.000404	.051921	.0019522	.002902
%RSD	.2885487	.4783818	.2570138	39.23518	4.271711	1.074888	.0943570
#1	2.575631	13.42697	.1201225	-.001408	1.170663	.1831933	3.072254
#2	2.585820	13.30804	.1207303	-.000605	1.203366	.1822209	3.077085
#3	2.590155	13.32707	.1203256	-.001072	1.272369	.1794324	3.077456

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.986441**	**.0917802**	**-.000190**	**.0841857**	**2.136753**	**3.053478**	**6.284113**
Stddev	.045883	.0059735	.000657	.0010435	.007363	.019177	.019812
%RSD	.9201565	6.508525	345.7485	1.239538	.3445653	.6280386	.3152645
#1	5.025896	.0986286	.000211	.0847819	2.130717	3.031740	6.305781
#2	4.936091	.0876432	.000167	.0847945	2.144955	3.068003	6.266924
#3	4.997336	.0890689	-.000948	.0829808	2.134585	3.060691	6.279636

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-05 Acquired: 9/30/2025 18:23:26 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.016009	.0654782	-.084272
Stddev	.003425	.0046632	.000178
%RSD	.3370905	7.121752	.2109527
#1	1.019785	.0624007	-.084477
#2	1.015137	.0708435	-.084163
#3	1.013104	.0631905	-.084176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8495.848	102765.7	5826.272	6625.809	8384.918
Stddev	10.265	310.0	17.214	5.636	12.739
%RSD	.1208267	.3016682	.2954626	.0850588	.1519235
#1	8486.714	103084.5	5845.093	6632.314	8370.308
#2	8493.873	102747.5	5811.324	6622.707	8390.740
#3	8506.958	102465.2	5822.400	6622.406	8393.705

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-09 Acquired: 9/30/2025 18:27:28 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0943244**	**-.002770**	**24.61923**	**-.002897**	**.0235960**	**145.0759**
Stddev	.0014836	.002971	.00094	.005084	.0042114	.4420
%RSD	1.572897	107.2583	.0038009	175.4832	17.84810	.3046675
#1	.0931101	-.001739	24.61954	-.001251	.0282575	144.7437
#2	.0959781	-.000452	24.61817	.001160	.0224649	145.5775
#3	.0938849	-.006119	24.61996	-.008599	.0200656	144.9064

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.412917**	**.0121139**	**.0203711**	**872.6142**	**4.455533**	**.1302450**
Stddev	.021614	.0000445	.0001997	17.4868	.023921	.0002174
%RSD	.6332899	.3669409	.9800460	2.003959	.5368824	.1669198
#1	3.395358	.0120857	.0205531	852.6607	4.434102	.1299997
#2	3.437056	.0120910	.0201576	885.2712	4.451157	.1304140
#3	3.406336	.0121652	.0204026	879.9105	4.481340	.1303212

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8381958**	**335.8084**	**4.884220**	**150.1751**	**.3937468**	**.0006351**
Stddev	.0008298	.8425	.027777	.6818	.0008980	.0004022
%RSD	.0989967	.2508791	.5687085	.4539907	.2280518	63.32515
#1	.8380063	334.8429	4.876737	150.4050	.3937972	.0008948
#2	.8374771	336.1884	4.914972	150.7123	.3946185	.0008387
#3	.8391039	336.3940	4.860952	149.4081	.3928248	.0001718

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.92140**	**.4010115**	**6.654672**	**16.89336**	**.3319559**	**-.001684**
Stddev	.10480	.0040711	.004385	.13989	.0018850	.000492
%RSD	.3623465	1.015204	.0659003	.8280753	.5678326	29.19657
#1	28.80040	.3974399	6.659735	16.77521	.3307420	-.002249
#2	28.98130	.4054443	6.652075	16.85703	.3309983	-.001443
#3	28.98250	.4001503	6.652206	17.04783	.3341274	-.001358

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-09 Acquired: 9/30/2025 18:27:28 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0408859	7.256906	5.207235	6.914128	F 13.42441	.0414062
Stddev	.0011703	.024492	.033893	.031282	.07472	.0075846
%RSD	2.862317	.3375038	.6508871	.4524422	.5565809	18.31761
#1	.0420940	7.238503	5.230802	6.897316	13.40006	.0493978
#2	.0397575	7.284705	5.168392	6.894846	13.36490	.0405132
#3	.0408063	7.247509	5.222511	6.950222	13.50826	.0343076

Elem	Sr4077
Units	ppm
Avg	3.355862
Stddev	.034759
%RSD	1.035782
#1	3.321543
#2	3.391046
#3	3.354997

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7919.798	94863.37	5808.011	6190.864	7015.606
Stddev	4.667	368.01	45.221	32.194	5.449
%RSD	.0589305	.3879421	.7785949	.5200314	.0776749
#1	7920.735	95237.93	5819.560	6226.264	7009.383
#2	7914.733	94502.27	5758.135	6163.334	7019.524
#3	7923.925	94849.92	5846.337	6182.996	7017.912

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-13 Acquired: 9/30/2025 18:31:45 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0401580**	**.0063599**	**.5286139**	**.0061903**	**-.017340**	**108.2809**	**.3517267**
Stddev	.0021176	.0007459	.0016921	.0027223	.001393	.0235	.0013582
%RSD	5.273045	11.72879	.3200936	43.97658	8.033644	.0217221	.3861390
#1	.0394761	.0066039	.5304099	.0083039	-.018501	108.2927	.3501742
#2	.0425325	.0055226	.5270497	.0071485	-.017722	108.2961	.3523112
#3	.0384654	.0069533	.5283822	.0031185	-.015795	108.2538	.3526948

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074557**	**-.001792**	**15.08167**	**.1268544**	**.0894057**	**.4532757**	**190.4513**
Stddev	.0001249	.000092	.03087	.0002871	.0001941	.0015594	1.1852
%RSD	1.675016	5.108699	.2047052	.2262906	.2171031	.3440272	.6222976
#1	.0075480	-.001732	15.11665	.1266673	.0892082	.4550568	189.0828
#2	.0073136	-.001898	15.05824	.1267109	.0895962	.4521559	191.1411
#3	.0075056	-.001747	15.07011	.1271849	.0894128	.4526143	191.1301

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.653518**	**17.79235**	**.1293859**	**-.000317**	**17.34577**	**.2420163**	**.5441782**
Stddev	.008381	.02894	.0008429	.000403	.06149	.0006667	.0014421
%RSD	.1801017	.1626325	.6514616	127.1123	.3545208	.2754958	.2650024
#1	4.663177	17.79396	.1299210	-.000736	17.28223	.2412845	.5426773
#2	4.648167	17.76264	.1284142	-.000282	17.35011	.2421752	.5443040
#3	4.649211	17.82045	.1298224	.000067	17.40499	.2425893	.5455532

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.756318**	**.0902157**	**.0018743**	**.0376323**	**2.358049**	**3.408210**	**4.231796**
Stddev	.084209	.0082187	.0002916	.0004642	.007580	.018826	.025243
%RSD	1.246374	9.110044	15.55992	1.233603	.3214485	.5523600	.5965011
#1	6.660578	.0812187	.0021872	.0381633	2.366774	3.390884	4.210375
#2	6.818902	.0973289	.0016101	.0374307	2.354287	3.405503	4.225387
#3	6.789474	.0920995	.0018255	.0373030	2.353086	3.428242	4.259625

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-13 Acquired: 9/30/2025 18:31:45 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5613740	.0724196	-.112710
Stddev	.0066214	.0031139	.001166
%RSD	1.179504	4.299846	1.034870
#1	.5578142	.0755873	-.111369
#2	.5572940	.0723092	-.113270
#3	.5690139	.0693624	-.113490

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8223.567	98869.91	5633.973	6397.900	8237.124
Stddev	3.647	170.39	40.811	16.722	13.677
%RSD	.0443449	.1723387	.7243745	.2613701	.1660386
#1	8226.606	98945.06	5587.453	6381.106	8252.031
#2	8219.523	98674.86	5650.716	6398.045	8234.185
#3	8224.572	98989.81	5663.749	6414.549	8225.155

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV05 Acquired: 9/30/2025 18:55:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.916706**	**5.238023**	**4.836755**	**4.953787**	**4.890738**	**9.525533**	**9.779707**
Stddev	.008031	.086859	.003345	.002889	.006358	.083709	.071064
%RSD	.1633486	1.658242	.0691626	.0583269	.1300014	.8787903	.7266486
#1	4.915223	5.197730	4.836001	4.955729	4.891201	9.569869	9.849363
#2	4.925375	5.178627	4.833850	4.950466	4.896852	9.428981	9.707314
#3	4.909519	5.337711	4.840412	4.955165	4.884162	9.577749	9.782445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2461581**	**2.426780**	**24.24287**	**.9778682**	**2.424024**	**1.214087**	**4.836148**
Stddev	.0025626	.001379	.14297	.0016169	.001272	.001382	.025616
%RSD	1.041025	.0568318	.5897427	.1653480	.0524922	.1138365	.5296859
#1	.2472768	2.426349	24.31255	.9760020	2.423431	1.215205	4.810974
#2	.2432264	2.425668	24.07842	.9788486	2.423156	1.214513	4.862185
#3	.2479712	2.428323	24.33764	.9787541	2.425485	1.212542	4.835285

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.440442**	**23.97534**	**2.425104**	**1.221695**	**23.02334**	**2.422172**	**2.419472**
Stddev	.009447	.14141	.000284	.002045	.07634	.015549	.003696
%RSD	.3871190	.5898034	.0117025	.1673838	.3315892	.6419297	.1527747
#1	2.449892	24.10246	2.424919	1.219416	23.03455	2.432316	2.420583
#2	2.430998	23.82303	2.424962	1.222300	23.09346	2.404271	2.415347
#3	2.440436	24.00051	2.425431	1.223370	22.94201	2.429930	2.422485

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.72471**	**4.943023**	**4.890284**	**4.845440**	**4.847816**	**4.696163**	**4.860433**
Stddev	.12003	.055784	.005848	.005203	.022802	.039645	.008886
%RSD	.5059447	1.128536	.1195810	.1073868	.4703535	.8442039	.1828263
#1	23.62229	4.973835	4.895819	4.848727	4.869841	4.666338	4.862441
#2	23.85679	4.878629	4.884167	4.839441	4.824309	4.741152	4.850714
#3	23.69505	4.976605	4.890865	4.848152	4.849297	4.680998	4.868143

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV05 Acquired: 9/30/2025 18:55:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**4.963256**	**4.609173**	**4.804501**
Stddev	.014934	.026798	.098591
%RSD	.3008909	.5813995	2.052064
#1	4.964033	4.638135	4.917334
#2	4.947949	4.585257	4.734974
#3	4.977787	4.604127	4.761196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7481.873**	**88574.87**	**5040.149**	**5784.802**	**8215.697**
Stddev	8.854	220.66	48.541	21.077	11.747
%RSD	.1183368	.2491193	.9630836	.3643581	.1429795
#1	7472.410	88519.52	4997.690	5780.999	8206.700
#2	7489.955	88387.15	5093.067	5765.885	8228.986
#3	7483.255	88817.93	5029.691	5807.521	8211.405

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB05 Acquired: 9/30/2025 18:59:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.001045**	**-.001454**	**.0008171**	**.0047871**	**.0018077**	**.0076638**
Stddev	.001455	.001147	.0011827	.0007202	.0019278	.0160013
%RSD	139.2263	78.85106	144.7571	15.04560	106.6458	208.7906
#1	.000626	-.000196	-.000500	.0041448	.0001537	-.005364
#2	-.001727	-.002440	.001788	.0055658	.0013444	.025524
#3	-.002034	-.001727	.001164	.0046507	.0039249	.002831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000655**	**-.000230**	**-.000039**	**-.014836**	**-.000447**	**-.000808**
Stddev	.002036	.000066	.000048	.038185	.000358	.000491
%RSD	310.7104	28.48781	123.6091	257.3805	80.09362	60.70356
#1	-.002340	-.000295	-.000035	.022642	-.000124	-.000537
#2	-.001233	-.000164	-.000089	-.013459	-.000384	-.000513
#3	.001607	-.000232	.000007	-.053691	-.000833	-.001374

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000222**	**-.009058**	**.0008639**	**-.003286**	**.0002491**	**-.001065**
Stddev	.000570	.006708	.0007929	.047649	.0002923	.001006
%RSD	256.6115	74.04919	91.79012	1450.248	117.3558	94.44640
#1	-.000489	-.016454	.0017592	-.046383	.0002977	-.001602
#2	-.000610	-.007354	.0002501	.047883	.0005140	-.001688
#3	.000432	-.003367	.0005823	-.011357	-.000064	.000095

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.273804**	**.0068122**	**.0002941**	**-.603930**	**-.001194**	**.0004324**
Stddev	.041345	.0032853	.0001048	.094227	.000792	.0002029
%RSD	15.10013	48.22656	35.63413	15.60234	66.33205	46.92053
#1	-.268749	.0071974	.0003072	-.673234	-.001677	.0006255
#2	-.317443	.0033513	.0001834	-.496639	-.000280	.0004508
#3	-.235219	.0098880	.0003917	-.641917	-.001624	.0002210

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB05 Acquired: 9/30/2025 18:59:18 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.005566**	**-.001764**	**.0246077**	**.0010342**	**.0040818**	F **-.018876**
Stddev	.000849	.003712	.0056060	.0010084	.0025579	.006040
%RSD	15.24710	210.4217	22.78159	97.50270	62.66738	31.99913
#1	-.005974	-.000411	.0253086	.0016969	.0013658	-.018021
#2	-.006133	-.005963	.0298302	-.000126	.0044346	-.025298
#3	-.004590	.001082	.0186841	.001532	.0064450	-.013309

Elem	Sr4077
Units	ppm
Avg	**-.000202**
Stddev	.000258
%RSD	127.6953
#1	.000078
#2	-.000430
#3	-.000254

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7629.833**	**90458.07**	**5091.232**	**5945.962**	**8867.885**
Stddev	11.986	329.89	51.413	37.970	12.098
%RSD	.1570980	.3646925	1.009840	.6385914	.1364291
#1	7616.025	90146.03	5133.792	5924.276	8858.211
#2	7637.567	90803.31	5105.797	5989.805	8863.992
#3	7635.906	90424.87	5034.108	5923.804	8881.450

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3232-01 Acquired: 9/30/2025 19:03:29 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0784288**	**-.016636**	**19.23783**	**-.001818**	**.0196812**	**150.6068**
Stddev	.0014237	.002825	.02961	.001380	.0040995	.4119
%RSD	1.815273	16.98153	.1539393	75.90317	20.82928	.2734679
#1	.0800108	-.015453	19.22025	-.001712	.0212646	150.1698
#2	.0772507	-.019860	19.22122	-.000494	.0227528	150.9878
#3	.0780248	-.014594	19.27202	-.003247	.0150262	150.6629

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.959595**	**.0121322**	**.0087675**	**801.2174**	**3.990443**	**.0994363**
Stddev	.008503	.0001157	.0001358	11.4135	.006772	.0006851
%RSD	.4338985	.9536371	1.548759	1.424519	.1697167	.6890021
#1	1.950384	.0120026	.0086578	794.8788	3.990301	.1002274
#2	1.961255	.0122252	.0089193	814.3934	3.983743	.0990345
#3	1.967144	.0121687	.0087254	794.3800	3.997285	.0990469

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7196542**	**314.2839**	**4.241743**	**56.57622**	**.2155753**	**.0011068**
Stddev	.0007159	.7255	.024051	.15304	.0000852	.0001566
%RSD	.0994743	.2308496	.5670028	.2705035	.0395089	14.14782
#1	.7190155	314.1011	4.214460	56.40809	.2156404	.0011717
#2	.7195191	313.6673	4.250893	56.61316	.2156067	.0012206
#3	.7204280	315.0833	4.259876	56.70740	.2154789	.0009282

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.50319**	**.3071346**	**4.073878**	**9.635000**	**.3102063**	**.0004135**
Stddev	.19814	.0045509	.010852	.102170	.0027404	.0004263
%RSD	.6495703	1.481738	.2663869	1.060401	.8834254	103.0936
#1	30.28713	.3018854	4.080621	9.632007	.3118568	.0002321
#2	30.54606	.3095452	4.061360	9.534359	.3070429	.0009005
#3	30.67639	.3099731	4.079654	9.738633	.3117191	.0001079

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3232-01 Acquired: 9/30/2025 19:03:29 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0885221	6.438871	3.521367	5.906191	F 10.03732	.0102138
Stddev	.0009646	.019115	.007379	.013742	.06290	.0020304
%RSD	1.089718	.2968672	.2095589	.2326672	.6266258	19.87919
#1	.0894341	6.417079	3.523007	5.911320	10.06761	.0125485
#2	.0875123	6.446734	3.527788	5.890622	9.96501	.0092324
#3	.0886197	6.452801	3.513305	5.916630	10.07934	.0088605

Elem	Sr4077
Units	ppm
Avg	4.129106
Stddev	.071698
%RSD	1.736399
#1	4.049113
#2	4.187580
#3	4.150624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8029.469	95453.41	5933.772	6284.298	7180.258
Stddev	12.148	327.90	38.410	26.885	15.743
%RSD	.1512905	.3435227	.6473051	.4278132	.2192476
#1	8034.115	95660.41	5968.460	6302.704	7182.173
#2	8038.608	95075.35	5892.493	6253.445	7194.956
#3	8015.684	95624.47	5940.362	6296.746	7163.646

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01RE Acquired: 9/30/2025 19:07:46 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.9697808**	**-.742279**	**62.09225**	**-.336552**	**-.409744**	**215.5324**
Stddev	.0041193	.019853	.58838	.004691	.001007	.7982
%RSD	.4247643	2.674564	.9475912	1.393948	.2457810	.3703297
#1	.9687552	-.765157	61.85852	-.337886	-.410891	214.6134
#2	.9743160	-.732089	62.76158	-.331339	-.409333	215.9307
#3	.9662712	-.729590	61.65665	-.340432	-.409007	216.0530

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.844971**	**.1215407**	**.4396733**	F **2576.798**	**11.72980**	**4.241077**
Stddev	.013256	.0009117	.0112334	33.177	.06307	.035917
%RSD	.3447586	.7501218	2.554944	1.287517	.5376727	.8468918
#1	3.829924	.1206492	.4301547	2572.247	11.80126	4.229742
#2	3.850060	.1224713	.4520638	2612.015	11.68193	4.281294
#3	3.854928	.1215016	.4368013	2546.131	11.70621	4.212194

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.25729**	F **5335.129**	**45.81393**	**105.2112**	**15.80286**	^ *****
Stddev	.09524	64.057	.24138	.4053	.15247	-----
%RSD	.4480355	1.200671	.5268636	.3851992	.9648104	-----
#1	21.24296	5405.354	45.54789	104.8903	15.74667	^ -----
#2	21.35888	5320.132	46.01893	105.6666	15.97545	^ -----
#3	21.17002	5279.900	45.87498	105.0767	15.68647	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**72.27827**	**1.242272**	F **60.01080**	**97.99060**	^ *****	**.4708810**
Stddev	.80761	.004266	.70090	.50762	-----	.0005622
%RSD	1.117369	.3434314	1.167951	.5180285	-----	.1193922
#1	73.18645	1.241511	60.06554	98.45751	^ -----	.4709947
#2	71.64076	1.238438	59.28414	97.45026	^ -----	.4713776
#3	72.00759	1.246868	60.68273	98.06401	^ -----	.4702706

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01RE Acquired: 9/30/2025 19:07:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.914365	F 11.01313	9.309300	F 54.70657	F 333.2952	.4771225
Stddev	.012383	.04369	.074683	.27910	1.2351	.0140293
%RSD	.6468294	.3967536	.8022380	.5101815	.3705782	2.940400
#1	1.910164	10.96691	9.383994	54.70251	332.8770	.4625506
#2	1.928301	11.05377	9.234628	54.98769	334.6851	.4782792
#3	1.904629	11.01871	9.309279	54.42952	332.3235	.4905376

Elem	Sr4077
Units	ppm
Avg	F 13.02801
Stddev	.22943
%RSD	1.761031
#1	12.76634
#2	13.19466
#3	13.12304

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5954.068	75437.65	4886.971	4653.805	3402.785
Stddev	33.285	605.53	59.259	8.152	33.175
%RSD	.5590261	.8026911	1.212590	.1751698	.9749316
#1	5937.605	74924.93	4920.529	4663.160	3408.346
#2	5932.224	75282.31	4818.548	4648.219	3367.181
#3	5992.377	76105.72	4921.834	4650.037	3432.828

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3187-04 Acquired: 9/30/2025 19:12:33 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012660	-.001201	.0183592	.0076534	.0028657	.1442063	.5938016
Stddev	.0025266	.002884	.0007272	.0017097	.0014389	.0180194	.0031765
%RSD	199.5784	240.2368	3.960931	22.33988	50.20924	12.49557	.5349412
#1	.0004882	-.001931	.0175195	.0081868	.0016438	.1412476	.5971945
#2	-.000780	.001979	.0187715	.0057405	.0044516	.1635219	.5933120
#3	.004090	-.003650	.0187865	.0090328	.0025018	.1278494	.5908984

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000268	.0008830	27.75376	.0027840	.0014150	.0055562	.2368456
Stddev	.000027	.0001544	.11789	.0003554	.0001764	.0002611	.0012491
%RSD	10.14241	17.48710	.4247576	12.76703	12.46443	4.698544	.5274006
#1	-.000297	.0009939	27.88629	.0023779	.0015410	.0058353	.2356037
#2	-.000243	.0007066	27.66058	.0029354	.0012134	.0055151	.2368314
#3	-.000264	.0009486	27.71441	.0030387	.0014906	.0053181	.2381018

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5788471	8.700527	.0061406	-.001196	300.9400	-.003782	.1005653
Stddev	.0034236	.104436	.0003119	.000907	2.4860	.000872	.0008521
%RSD	.5914585	1.200336	5.078916	75.80244	.8260764	23.05060	.8473341
#1	.5790581	8.717200	.0063976	-.002082	301.9716	-.003558	.1015246
#2	.5753229	8.588759	.0057936	-.000270	298.1042	-.004744	.0998962
#3	.5821604	8.795624	.0062306	-.001236	302.7440	-.003044	.1002751

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.113905	.0339817	.0009277	-.002702	-.000667	1.969818	.1225399
Stddev	.089011	.0012632	.0003788	.001577	.005203	.010300	.0013918
%RSD	.9766494	3.717340	40.83639	58.35740	779.6407	.5229085	1.135812
#1	9.165297	.0350386	.0010576	-.000881	-.006647	1.980753	.1241460
#2	9.011124	.0325827	.0005010	-.003598	.002827	1.968405	.1217889
#3	9.165293	.0343237	.0012244	-.003628	.001818	1.960298	.1216850

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3187-04 Acquired: 9/30/2025 19:12:33 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6405989	-.027691	.1065904
Stddev	.0043578	.003556	.0004656
%RSD	.6802689	12.84072	.4367932
#1	.6431290	-.024210	.1070796
#2	.6431008	-.031317	.1061527
#3	.6355670	-.027548	.1065388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7422.686	87842.92	5089.680	5773.010	7935.408
Stddev	5.912	331.25	6.878	13.381	6.155
%RSD	.0796457	.3770943	.1351312	.2317892	.0775622
#1	7415.869	87558.50	5083.728	5767.852	7929.766
#2	7426.406	88206.62	5088.104	5788.203	7934.486
#3	7425.782	87763.65	5097.209	5762.976	7941.972

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3230-03 Acquired: 9/30/2025 19:16:39 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001008**	**-.001381**	**.0013811**	**.0059081**	**.0024287**	**.0409036**	**.0558151**
Stddev	.001344	.002125	.0008621	.0032782	.0015256	.0189524	.0040658
%RSD	133.3788	153.8973	62.42120	55.48623	62.81645	46.33426	7.284399
#1	-.002505	-.003130	.0013219	.0024608	.0006672	.0627872	.0588529
#2	-.000617	.000984	.0005502	.0089858	.0033279	.0301210	.0511962
#3	.000097	-.001996	.0022714	.0062776	.0032909	.0298027	.0573961

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000194**	**.0000380**	**150.7820**	**.0033073**	**-.000047**	**.0009459**	**.0303095**
Stddev	.000033	.0000862	.0326	.0001175	.000110	.0004500	.0113032
%RSD	17.12454	226.6305	.0216325	3.551827	232.2501	47.56760	37.29256
#1	-.000158	.0000693	150.8100	.0031913	-.000174	.0014607	.0433394
#2	-.000200	-.000059	150.7462	.0033045	.000027	.0006278	.0231395
#3	-.000223	.000104	150.7898	.0034261	.000005	.0007493	.0244496

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009342**	**8.487315**	**.0028067**	**-.000763**	**309.3897**	**-.000799**	**.0052774**
Stddev	.0004427	.029827	.0004539	.000537	4.2275	.002921	.0002389
%RSD	47.38968	.3514342	16.17152	70.31433	1.366394	365.7964	4.526622
#1	.0012432	8.481161	.0023431	-.000184	312.8094	.002490	.0054282
#2	.0004270	8.461045	.0028267	-.001244	310.6967	-.003093	.0050019
#3	.0011323	8.519740	.0032502	-.000863	304.6631	-.001794	.0054020

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.011762**	**.0160255**	**.0032380**	**-.006566**	**-.001404**	**2.321867**	**.0088945**
Stddev	.037623	.0010986	.0002992	.001092	.002851	.035993	.0006522
%RSD	1.249198	6.855063	9.239451	16.63370	203.0055	1.550175	7.332327
#1	2.996558	.0163749	.0030703	-.005645	-.004040	2.346942	.0084160
#2	2.984120	.0147947	.0030603	-.007773	.001621	2.338032	.0096374
#3	3.054607	.0169068	.0035834	-.006281	-.001794	2.280625	.0086303

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3230-03 Acquired: 9/30/2025 19:16:39 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.326592	-.030932	.7947510
Stddev	.045903	.001676	.0045734
%RSD	.6265297	5.418287	.5754543
#1	7.325770	-.031710	.8000187
#2	7.281104	-.032078	.7924416
#3	7.372900	-.029009	.7917928

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7377.872	88678.00	5150.014	5791.110	7817.323
Stddev	48.729	436.13	21.467	33.619	49.839
%RSD	.6604714	.4918117	.4168267	.5805327	.6375413
#1	7434.139	88719.13	5165.275	5791.997	7874.035
#2	7349.462	88222.77	5159.300	5757.056	7797.432
#3	7350.017	89092.11	5125.468	5824.277	7780.501

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-04 Acquired: 9/30/2025 19:20:48 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002921**	**.0001797**	**2.431526**	**.0083339**	**.0029739**	**.0764227**	**.2245758**
Stddev	.003059	.0009154	.004230	.0033896	.0036878	.0182037	.0035257
%RSD	104.7267	509.4406	.1739551	40.67187	124.0046	23.81979	1.569914
#1	-.004486	.0011830	2.433117	.0089227	.0072186	.0585800	.2279415
#2	-.004881	-.000610	2.426731	.0113905	.0005565	.0949672	.2248766
#3	.000604	-.000034	2.434730	.0046885	.0011467	.0757209	.2209095

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000154**	**.0028876**	**10.96431**	**.0005617**	**.0011883**	**.0464776**	**.0143753**
Stddev	.000044	.0000055	.04294	.0003505	.0001780	.0005213	.0056241
%RSD	28.45228	.1904739	.3916105	62.40536	14.98348	1.121574	39.12300
#1	-.000152	.0028897	10.95735	.0003446	.0011384	.0469947	.0167107
#2	-.000199	.0028813	11.01031	.0009660	.0010405	.0464859	.0184555
#3	-.000111	.0028917	10.92529	.0003744	.0013859	.0459522	.0079598

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1500381**	**.7208823**	**.0031989**	**-.001157**	**275.5813**	**.0025690**	**.8418842**
Stddev	.0008703	.0381796	.0004291	.000739	3.7565	.0067656	.0017700
%RSD	.5800422	5.296235	13.41447	63.88814	1.363123	263.3571	.2102454
#1	.1497572	.7540597	.0032192	-.001857	279.0852	-.004451	.8411724
#2	.1493429	.7294358	.0036176	-.000384	271.6150	.003111	.8405809
#3	.1510141	.6791514	.0027600	-.001231	276.0438	.009047	.8438993

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3052327**	**.0008700**	**.0000163**	**-.006147**	**-.001498**	**.5866253**	**.0233108**
Stddev	.1006803	.0008211	.0000865	.000359	.002324	.0126710	.0012917
%RSD	32.98476	94.38251	529.8344	5.835506	155.1063	2.159973	5.541448
#1	.2122125	-.000050	.0000805	-.005743	-.000505	.5919222	.0243751
#2	.4121328	.001131	.0000504	-.006271	.000164	.5721654	.0236837
#3	.2913529	.001529	-.000082	-.006427	-.004154	.5957882	.0218736

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-04 Acquired: 9/30/2025 19:20:48 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2667942	-.020500	.0689431
Stddev	.0057004	.003954	.0003667
%RSD	2.136616	19.28977	.5318530
#1	.2704739	-.016959	.0693664
#2	.2602279	-.019774	.0687212
#3	.2696807	-.024767	.0687418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7517.301	89248.99	5198.064	5865.954	8033.186
Stddev	14.326	295.47	43.370	31.415	12.612
%RSD	.1905703	.3310622	.8343434	.5355530	.1569997
#1	7502.787	88939.89	5203.281	5830.423	8020.501
#2	7517.686	89528.62	5152.322	5877.389	8033.333
#3	7531.431	89278.46	5238.590	5890.051	8045.724

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-08 Acquired: 9/30/2025 19:24:57 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000692**	**-.002120**	**.0923866**	**.0098092**	**.0019996**	**.0717767**	**.1474903**
Stddev	.001806	.002801	.0009986	.0039360	.0016552	.0197564	.0011714
%RSD	261.1031	132.1576	1.080919	40.12599	82.77545	27.52477	.7942080
#1	-.002769	-.005255	.0933694	.0139971	.0036409	.0925038	.1478027
#2	.000502	.000136	.0924176	.0061860	.0003308	.0696657	.1484739
#3	.000192	-.001240	.0913729	.0092444	.0020271	.0531606	.1461944

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000124**	**.0007202**	**7.364188**	**.0006126**	**-.000420**	**.0123446**	**.0102467**
Stddev	.000040	.0000937	.028923	.0008167	.000432	.0007158	.0127737
%RSD	32.07336	13.00943	.3927556	133.3116	102.8483	5.798326	124.6616
#1	-.000152	.0008220	7.345331	.0014209	-.000582	.0122386	.0014083
#2	-.000078	.0006376	7.349745	-.000212	-.000747	.0116878	.0248923
#3	-.000142	.0007010	7.397488	.000629	.000070	.0131075	.0044395

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0373124**	**.4340880**	**.0012966**	**-.000815**	**298.8783**	**.0075403**	**.1810525**
Stddev	.0002334	.0398218	.0002204	.000324	1.0865	.0060237	.0004054
%RSD	.6255990	9.173666	17.00212	39.72719	.3635150	79.88603	.2239377
#1	.0373182	.4731404	.0013507	-.000481	298.5902	.0063870	.1808828
#2	.0370761	.4355846	.0010541	-.000836	297.9649	.0140573	.1807596
#3	.0375429	.3935390	.0014849	-.001127	300.0798	.0021767	.1815153

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3963947**	**.0000828**	**.0002701**	**-.005362**	**-.000526**	**.4503256**	**.0362806**
Stddev	.0178469	.0004976	.0004509	.000249	.003225	.0048840	.0002913
%RSD	4.502295	601.0971	166.9497	4.639966	612.7757	1.084557	.8028392
#1	.4167053	.0003238	.0003927	-.005093	-.004250	.4452725	.0365163
#2	.3892591	-.000489	.0006471	-.005411	.001333	.4550209	.0363706
#3	.3832196	.000414	-.000229	-.005583	.001338	.4506833	.0359550

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-08 Acquired: 9/30/2025 19:24:57 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2276579	-.018208	.0476266
Stddev	.0058798	.001465	.0000234
%RSD	2.582744	8.044452	.0490552
#1	.2344473	-.019891	.0476012
#2	.2242764	-.017505	.0476315
#3	.2242500	-.017227	.0476471

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7441.136	87319.82	5138.494	5786.038	7932.253
Stddev	14.827	266.78	6.971	26.424	13.010
%RSD	.1992584	.3055248	.1356586	.4566872	.1640114
#1	7431.447	87374.41	5136.794	5785.892	7928.451
#2	7458.205	87555.09	5146.157	5812.534	7946.741
#3	7433.757	87029.96	5132.530	5759.687	7921.568

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-12 Acquired: 9/30/2025 19:29:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002432**	**-.000082**	**-.000418**	**.0048443**	**.0017392**	**.0279216**	**.0514963**
Stddev	.001635	.002195	.002078	.0017147	.0012215	.0361318	.0027913
%RSD	67.23641	2690.500	496.9080	35.39563	70.23552	129.4045	5.420386
#1	-.004273	-.002227	-.000620	.0062806	.0018831	-.010040	.0546689
#2	-.001148	-.000178	-.002388	.0053065	.0028823	.061892	.0504022
#3	-.001876	.002160	.001753	.0029460	.0004520	.031913	.0494178

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000139**	**-.000097**	**133.9983**	**.0020056**	**-.000152**	**.0017458**	**.1289777**
Stddev	.000062	.000103	.9376	.0003426	.000410	.0004950	.0063361
%RSD	44.97555	106.7270	.6997294	17.08106	270.5171	28.35420	4.912531
#1	-.000069	-.000150	135.0605	.0018242	-.000615	.0017892	.1223043
#2	-.000158	-.000162	133.6492	.0017919	.000167	.0012305	.1297172
#3	-.000190	.000022	133.2854	.0024008	-.000008	.0022176	.1349115

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0164840**	**2.173660**	**.0012617**	**-.001806**	**277.2103**	**-.003516**	**.0031379**
Stddev	.0009279	.043279	.0004449	.000314	1.2395	.009017	.0003116
%RSD	5.628776	1.991079	35.26131	17.37708	.4471446	256.4233	9.930051
#1	.0169447	2.201895	.0008100	-.001600	278.6383	-.012893	.0028501
#2	.0154160	2.195252	.0012758	-.001651	276.4121	-.002746	.0034688
#3	.0170914	2.123832	.0016994	-.002168	276.5806	.005091	.0030948

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.979635**	**.0168221**	**.0010808**	**-.006554**	**-.003827**	**4.682727**	**.0061846**
Stddev	.078683	.0008730	.0004580	.001004	.003936	.034100	.0009655
%RSD	3.974633	5.189320	42.37485	15.31110	102.8533	.7282164	15.61094
#1	1.932785	.0174647	.0010856	-.007550	-.006216	4.720472	.0051792
#2	1.935645	.0158282	.0015364	-.006570	-.005982	4.673565	.0071045
#3	2.070476	.0171735	.0006205	-.005543	.000716	4.654143	.0062701

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-12 Acquired: 9/30/2025 19:29:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.057199**	**-.041768**	**.7398883**
Stddev	.009677	.002310	.0050958
%RSD	.4703777	5.531629	.6887241
#1	2.047543	-.044112	.7450482
#2	2.057156	-.041699	.7397574
#3	2.066896	-.039493	.7348591

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7361.837**	**88324.08**	**5075.555**	**5805.513**	**7812.523**
Stddev	9.030	235.77	35.337	23.420	11.477
%RSD	.1226605	.2669381	.6962137	.4034138	.1469015
#1	7355.547	88055.11	5044.664	5824.296	7800.696
#2	7357.780	88422.15	5067.915	5812.971	7813.259
#3	7372.184	88495.00	5114.087	5779.272	7823.614

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-16 Acquired: 9/30/2025 19:33:15 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001629**	**-.001166**	**.0059367**	**.0063342**	**.0018818**	**.0722392**	**.0706861**
Stddev	.001918	.001105	.0009305	.0033591	.0032101	.0094105	.0025844
%RSD	117.7345	94.77124	15.67333	53.03165	170.5893	13.02693	3.656223
#1	-.001202	-.002215	.0069636	.0099625	.0055725	.0627821	.0705964
#2	.000039	-.000012	.0056969	.0057074	.0003346	.0723329	.0733141
#3	-.003724	-.001271	.0051495	.0033326	-.000262	.0816025	.0681476

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000096**	**.0000771**	**6.027143**	**.0001513**	**-.000419**	**.0023562**	**.0008804**
Stddev	.000021	.0001196	.024357	.0006609	.000344	.0009826	.0117710
%RSD	22.03622	154.9664	.4041264	436.6853	82.11526	41.70247	1336.920
#1	-.000081	.0000257	5.999659	-.000111	-.000022	.0012779	.0080364
#2	-.000086	-.000008	6.046056	-.000338	-.000603	.0025895	.0073099
#3	-.000120	.000214	6.035715	.000903	-.000631	.0032011	-.012705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1648392**	**.2036711**	**.0009523**	**-.001670**	**257.2084**	**-.002036**	**.0281653**
Stddev	.0002461	.0415562	.0001023	.000624	.8883	.005353	.0004200
%RSD	.1492942	20.40360	10.74133	37.38575	.3453541	262.9514	1.491119
#1	.1649903	.2016210	.0008356	-.001093	256.3344	.003806	.0277143
#2	.1645552	.2462144	.0009954	-.002333	258.1103	-.006705	.0282362
#3	.1649721	.1631778	.0010261	-.001583	257.1805	-.003208	.0285453

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8450140**	**-.000145**	**.0009312**	**-.004910**	**.0045480**	**.3109947**	**.0122094**
Stddev	.0448745	.000498	.0002985	.000258	.0060725	.0205083	.0009832
%RSD	5.310506	344.5564	32.05126	5.254641	133.5207	6.594414	8.052874
#1	.8257189	-.000438	.0006907	-.004767	-.001893	.3083739	.0128195
#2	.8130143	.000431	.0012652	-.005208	.005368	.3326874	.0110752
#3	.8963089	-.000426	.0008376	-.004756	.010169	.2919228	.0127335

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3231-16 Acquired: 9/30/2025 19:33:15 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2305456	-.023476	.0262944
Stddev	.0012016	.004028	.0001149
%RSD	.5211780	17.15879	.4370867
#1	.2294317	-.020008	.0262134
#2	.2318189	-.022526	.0264259
#3	.2303862	-.027894	.0262438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7410.573	88471.31	5061.426	5827.451	7922.853
Stddev	22.814	107.64	43.698	12.263	17.842
%RSD	.3078517	.1216632	.8633460	.2104284	.2252018
#1	7413.416	88513.90	5025.501	5817.104	7922.610
#2	7431.832	88551.13	5110.073	5840.995	7940.816
#3	7386.471	88348.89	5048.705	5824.253	7905.133

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3232-02 Acquired: 9/30/2025 19:37:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000727**	**-.000779**	**-.000246**	**.0038267**	**.0029250**	**.0380455**	**.1105520**
Stddev	.001852	.003640	.000167	.0018517	.0019353	.0144569	.0031090
%RSD	254.7689	467.5029	68.12247	48.38767	66.16334	37.99902	2.812223
#1	-.001260	-.000031	-.000253	.0020514	.0051548	.0214612	.1122583
#2	.001333	-.004734	-.000075	.0057463	.0016815	.0446870	.1069635
#3	-.002254	.002429	-.000409	.0036826	.0019388	.0479881	.1124341

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000122**	**-.000017**	**121.5690**	**.0018062**	**-.000287**	**.0010203**	**.0584997**
Stddev	.000137	.000145	.1363	.0002411	.000307	.0002338	.0099449
%RSD	112.2351	843.1843	.1121362	13.34666	106.8406	22.91568	16.99996
#1	-.000086	-.000176	121.7053	.0019989	-.000380	.0010965	.0576553
#2	-.000006	.000110	121.5692	.0018838	-.000537	.0012065	.0688399
#3	-.000273	.000014	121.4326	.0015359	.000055	.0007579	.0490039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0134627**	**2.426437**	**.0020498**	**-.000865**	**273.1268**	**-.000186**	**.0056140**
Stddev	.0011139	.028844	.0004656	.000879	.7832	.004666	.0005503
%RSD	8.273938	1.188744	22.71468	101.5720	.2867576	2505.803	9.802861
#1	.0132759	2.397043	.0022108	.000134	272.4855	.005151	.0058154
#2	.0124540	2.454698	.0024135	-.001518	273.9997	-.003489	.0049913
#3	.0146581	2.427571	.0015250	-.001213	272.8953	-.002221	.0060352

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.212208**	**.0210036**	**.0013475**	**-.006437**	**-.001507**	**3.965589**	**.0052187**
Stddev	.142546	.0015134	.0003844	.000465	.007850	.020640	.0012446
%RSD	4.437632	7.205468	28.52498	7.218214	521.0707	.5204856	23.84894
#1	3.134193	.0220294	.0013108	-.006661	.001885	3.941923	.0043903
#2	3.125698	.0192654	.0009828	-.006747	-.010482	3.974983	.0046159
#3	3.376733	.0217159	.0017489	-.005903	.004077	3.979862	.0066499

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3232-02 Acquired: 9/30/2025 19:37:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**1.977713**	**-.041434**	**.7511837**
Stddev	.016721	.003607	.0009067
%RSD	.8454490	8.706086	.1207034
#1	1.960736	-.038536	.7520920
#2	1.978237	-.040293	.7502786
#3	1.994165	-.045474	.7511806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7303.582**	**83756.17**	**5008.471**	**5580.791**	**7765.201**
Stddev	27.840	554.33	11.543	35.738	24.491
%RSD	.3811842	.6618368	.2304682	.6403767	.3153882
#1	7283.213	84343.03	5019.198	5619.608	7756.659
#2	7335.305	83241.43	4996.257	5573.511	7792.818
#3	7292.229	83684.04	5009.959	5549.253	7746.125

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01 Acquired: 9/30/2025 19:41:33 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.002966**	**-.001000**	**.0055087**	**.0041092**	**.0057133**	**.1928660**
Stddev	.001166	.003417	.0011702	.0014084	.0013150	.0226394
%RSD	39.30712	341.7702	21.24362	34.27383	23.01560	11.73843
#1	-.003540	-.003642	.0046861	.0044167	.0042028	.2118810
#2	-.003734	.002859	.0068484	.0025724	.0063348	.1988944
#3	-.001625	-.002217	.0049915	.0053383	.0066024	.1678225

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212010**	**-.000167**	**-.000098**	**359.0992**	**.0027329**	**.0171032**
Stddev	.0033818	.000082	.000063	1.5895	.0001553	.0001501
%RSD	15.95122	48.85182	64.22393	.4426446	5.683078	.8774471
#1	.0236737	-.000077	-.000056	360.4911	.0029008	.0170717
#2	.0225821	-.000236	-.000067	359.4394	.0027038	.0172666
#3	.0173472	-.000188	-.000170	357.3671	.0025943	.0169714

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011999**	**.0293366**	**-.000322**	**.0259875**	**.0072797**	**-.001678**
Stddev	.0003059	.0112902	.000459	.0301268	.0001466	.000123
%RSD	25.49426	38.48498	142.5512	115.9278	2.013435	7.312144
#1	.0015521	.0376938	-.000259	.0314362	.0071161	-.001750
#2	.0010473	.0164928	-.000809	-.006492	.0073991	-.001747
#3	.0010003	.0338233	.000103	.053018	.0073239	-.001536

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**361.8069**	**-.000701**	**.0085804**	**56.55279**	**.1599385**	**.0076986**
Stddev	6.5084	.003087	.0003602	.11148	.0019452	.0002583
%RSD	1.798866	440.6508	4.198342	.1971254	1.216195	3.355298
#1	365.9335	-.003252	.0089232	56.49490	.1615327	.0075277
#2	354.3042	-.001581	.0082050	56.48217	.1577712	.0075724
#3	365.1831	.002731	.0086130	56.68131	.1605117	.0079957

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01 Acquired: 9/30/2025 19:41:33 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.005335**	**-.006114**	**1.416990**	**.4510267**	F **60.59101**	**-.037283**
Stddev	.000832	.003593	.016355	.0025031	.17789	.002367
%RSD	15.60131	58.77124	1.154236	.5549780	.2935865	6.348179
#1	-.005835	-.006855	1.412125	.4481383	60.38579	-.039317
#2	-.004374	-.002208	1.403619	.4523778	60.70130	-.034685
#3	-.005796	-.009280	1.435226	.4525639	60.68593	-.037848

Elem	Sr4077
Units	ppm
Avg	**2.796138**
Stddev	.017035
%RSD	.6092397
#1	2.809576
#2	2.801859
#3	2.776978

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7049.841**	**84131.32**	**4843.170**	**5504.118**	**7383.350**
Stddev	27.096	184.15	48.087	28.314	32.012
%RSD	.3843489	.2188814	.9928788	.5144068	.4335665
#1	7073.714	83939.74	4803.382	5526.246	7408.206
#2	7020.390	84147.21	4829.524	5472.211	7347.229
#3	7055.418	84307.01	4896.606	5513.896	7394.617

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV06 Acquired: 9/30/2025 19:45:51 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.016055**	**5.120135**	**4.929030**	**5.048178**	**4.973916**	**9.667377**	**9.873915**
Stddev	.005758	.077048	.004641	.001136	.012484	.023870	.066981
%RSD	.1147988	1.504797	.0941551	.0225109	.2509956	.2469139	.6783587
#1	5.016167	5.042895	4.934365	5.049434	4.986942	9.648057	9.924422
#2	5.010242	5.120520	4.925921	5.047877	4.972751	9.660012	9.797935
#3	5.021758	5.196989	4.926804	5.047222	4.962056	9.694061	9.899387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2529006**	**2.472216**	**24.53623**	**.9732874**	**2.464598**	**1.238767**	**4.755887**
Stddev	.0028589	.002213	.04484	.0017612	.002489	.000149	.066888
%RSD	1.130455	.0895303	.1827508	.1809493	.1009741	.0119881	1.406421
#1	.2551898	2.472630	24.58777	.9712702	2.464267	1.238871	4.679878
#2	.2496961	2.474193	24.50615	.9740726	2.467236	1.238597	4.805767
#3	.2538159	2.469825	24.51477	.9745194	2.462292	1.238832	4.782015

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.475817**	**24.38595**	**2.469002**	**1.217704**	**24.38033**	**2.468136**	**2.381504**
Stddev	.018621	.17365	.004147	.003722	.29268	.011112	.006068
%RSD	.7521112	.7121061	.1679571	.3056730	1.200488	.4502093	.2548037
#1	2.492257	24.43477	2.472410	1.213462	24.69730	2.464828	2.375871
#2	2.455596	24.19312	2.470210	1.219229	24.32341	2.459054	2.380713
#3	2.479598	24.52997	2.464385	1.220422	24.12030	2.480526	2.387930

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.88183**	**5.094300**	**4.936046**	**4.952013**	**4.904055**	**4.596613**	**5.023844**
Stddev	.28872	.052188	.007705	.004849	.028361	.063887	.011669
%RSD	1.074025	1.024435	.1560927	.0979265	.5783154	1.389872	.2322779
#1	26.98374	5.129915	4.944494	4.955392	4.924969	4.525601	5.010470
#2	27.10576	5.034395	4.934238	4.946457	4.871774	4.649427	5.029113
#3	26.55597	5.118591	4.929406	4.954191	4.915423	4.614810	5.031950

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV06 Acquired: 9/30/2025 19:45:51 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.065195**	**4.668917**	**4.837093**
Stddev	.026041	.027752	.052027
%RSD	.5141189	.5944098	1.075581
#1	5.043492	4.694177	4.851059
#2	5.058023	4.639209	4.779509
#3	5.094071	4.673366	4.880712

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7243.418**	**89049.40**	**4888.779**	**5760.401**	**7919.217**
Stddev	11.685	270.84	44.394	11.569	14.228
%RSD	.1613248	.3041409	.9080751	.2008329	.1796640
#1	7244.039	89187.06	4844.867	5773.711	7918.292
#2	7231.435	88737.38	4933.639	5752.754	7905.474
#3	7254.781	89223.75	4887.832	5754.739	7933.885

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB06 Acquired: 9/30/2025 19:49:55 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.000868**	**.0002578**	**-.000278**	**.0081103**	**.0013686**	**.0007234**
Stddev	.000479	.0017569	.000363	.0010903	.0023260	.0055530
%RSD	55.11386	681.4304	130.4536	13.44390	169.9573	767.6126
#1	-.001366	.0009016	-.000620	.0069702	.0039980	-.005667
#2	-.000828	-.001730	-.000315	.0091430	.0005286	.003465
#3	-.000411	.001602	.000102	.0082179	-.000421	.004373

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001144**	**-.000165**	**-.000189**	**-.023966**	**-.000201**	**-.000776**
Stddev	.0043181	.000076	.000125	.013890	.000316	.000174
%RSD	3773.657	45.91966	66.07255	57.95842	157.6071	22.40107
#1	.0003616	-.000252	-.000236	-.009001	.000141	-.000793
#2	.0043036	-.000110	-.000284	-.036446	-.000483	-.000594
#3	-.004322	-.000133	-.000047	-.026450	-.000260	-.000941

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006421**	**.0010279**	**.0007420**	**-.018635**	**.0002101**	**-.001632**
Stddev	.0006876	.0028555	.0012146	.058193	.0002387	.000855
%RSD	107.0810	277.7956	163.6921	312.2811	113.6076	52.41592
#1	.0005320	-.002190	.0003000	-.061220	-.000062	-.000712
#2	.0000163	.003258	.0021158	-.042357	.000311	-.001780
#3	.0013782	.002016	-.000190	.047673	.000382	-.002403

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.160834**	**-.002896**	**.0007101**	**-.263417**	**-.000972**	**.0009518**
Stddev	.030525	.005896	.0004789	.061877	.000716	.0006931
%RSD	18.97896	203.6218	67.43508	23.49006	73.65036	72.82616
#1	-.181039	-.002047	.0012523	-.255724	-.000563	.0016807
#2	-.175743	.002530	.0005329	-.205746	-.000554	.0003010
#3	-.125720	-.009170	.0003451	-.328780	-.001798	.0008736

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB06 Acquired: 9/30/2025 19:49:55 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.005852**	**.0004260**	**.0226128**	**.0006931**	F **.0118537**	F **-.024726**
Stddev	.000976	.0048912	.0113725	.0006160	.0009862	.002474
%RSD	16.67147	1148.027	50.29226	88.87661	8.319722	10.00442
#1	-.005796	.0036532	.0280097	.0013114	.0120372	-.027353
#2	-.004905	.0028266	.0302819	.0000794	.0127353	-.022441
#3	-.006854	-.005202	.0095467	.0006884	.0107887	-.024384

Elem	Sr4077
Units	ppm
Avg	**-.000016**
Stddev	.000099
%RSD	631.3808
#1	.000048
#2	-.000130
#3	.000035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7723.873**	**90931.43**	**4946.720**	**5893.076**	**9172.931**
Stddev	13.213	344.66	17.347	67.623	14.276
%RSD	.1710616	.3790301	.3506791	1.147506	.1556269
#1	7722.420	91292.83	4943.310	5970.492	9166.456
#2	7737.752	90895.05	4931.331	5863.195	9189.297
#3	7711.447	90606.40	4965.519	5845.540	9163.041

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01DUP Acquired: 9/30/2025 19:54:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.0004144**	**.0006010**	**.0035996**	**.0020861**	**.0042563**	**.1474614**
Stddev	.0019319	.0008815	.0025863	.0009618	.0028563	.0185707
%RSD	466.1726	146.6814	71.84797	46.10395	67.10789	12.59357
#1	-.000043	.0015657	.0015468	.0019710	.0050700	.1287159
#2	-.001248	-.000163	.0065044	.0011870	.0010814	.1478161
#3	.002534	.000400	.0027477	.0031002	.0066175	.1658522

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0124162**	**-.000217**	**-.000077**	**260.2876**	**.0018300**	**.0119931**
Stddev	.0011032	.000056	.000053	2.0886	.0005640	.0001577
%RSD	8.885187	25.59471	69.48486	.8024064	30.82193	1.314575
#1	.0120638	-.000179	-.000053	257.9189	.0014449	.0120755
#2	.0115323	-.000192	-.000138	261.8643	.0024775	.0118114
#3	.0136526	-.000281	-.000039	261.0798	.0015677	.0120926

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017652**	**.0034261**	**.0018185**	**.0336212**	**.0053604**	**-.001136**
Stddev	.0003987	.0121992	.0012199	.0445240	.0003626	.000806
%RSD	22.58704	356.0664	67.08607	132.4286	6.764913	70.96679
#1	.0014469	.0162572	.0028474	.0228167	.0055368	-.001426
#2	.0022124	-.008024	.0004708	.0825531	.0049433	-.001758
#3	.0016363	.002045	.0021372	-.004506	.0056011	-.000225

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**265.5987**	**-.001018**	**.0065830**	**40.31712**	**.1159939**	**.0055079**
Stddev	1.3756	.009055	.0003340	.13699	.0011957	.0002067
%RSD	.5179361	889.4365	5.074026	.3397699	1.030831	3.753116
#1	264.1785	-.004084	.0065145	40.15910	.1151649	.0054401
#2	266.9250	.009172	.0062886	40.40222	.1173645	.0057399
#3	265.6927	-.008143	.0069460	40.39003	.1154521	.0053435

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01DUP Acquired: 9/30/2025 19:54:07 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006683	-.007270	1.041134	.3260486	F 42.99903	-.030689
Stddev	.001404	.003144	.008152	.0007678	.20639	.002117
%RSD	21.00642	43.24012	.7830162	.2354775	.4799899	6.899024
#1	-.005171	-.010315	1.044151	.3265206	42.79081	-.032972
#2	-.006932	-.004037	1.031903	.3264625	43.20355	-.028789
#3	-.007945	-.007459	1.047347	.3251627	43.00272	-.030306

Elem	Sr4077
Units	ppm
Avg	2.025567
Stddev	.022092
%RSD	1.090662
#1	2.001227
#2	2.044350
#3	2.031125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7092.237	84264.26	4865.666	5511.213	7505.445
Stddev	21.200	144.04	38.464	16.633	23.989
%RSD	.2989200	.1709402	.7905090	.3018013	.3196213
#1	7110.204	84191.90	4901.944	5493.576	7530.565
#2	7097.653	84170.75	4825.337	5513.448	7502.995
#3	7068.854	84430.14	4869.716	5526.616	7482.775

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01LX5 Acquired: 9/30/2025 19:58:15 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.002699**	**-.001258**	**.0007586**	**.0071361**	**.0010412**	**.0425337**
Stddev	.001969	.000388	.0009308	.0033668	.0013356	.0133498
%RSD	72.95191	30.82279	122.7021	47.17971	128.2737	31.38632
#1	-.002037	-.000924	.0005174	.0064345	.0023904	.0272684
#2	-.004914	-.001166	.0017862	.0107984	-.000280	.0483103
#3	-.001147	-.001683	-.000028	.0041754	.001014	.0520224

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000388**	**-.000196**	**-.000103**	**76.90059**	**-.000018**	**.0032133**
Stddev	.001322	.000078	.000040	.76009	.000525	.0002978
%RSD	340.7555	39.78773	38.84770	.9884019	2872.112	9.267554
#1	-.001409	-.000109	-.000123	77.02876	.000432	.0028696
#2	.001105	-.000220	-.000057	77.58845	-.000595	.0033759
#3	-.000860	-.000259	-.000130	76.08457	.000109	.0033944

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002780**	**-.010653**	**-.000328**	**.0175397**	**.0017940**	**-.001220**
Stddev	.0007195	.002957	.000971	.0257344	.0004343	.000539
%RSD	258.8071	27.76165	296.2587	146.7207	24.20809	44.15801
#1	.0010049	-.012663	-.000588	-.012131	.0020160	-.000661
#2	.0002631	-.012038	.000747	.030970	.0012936	-.001264
#3	-.000434	-.007257	-.001142	.033781	.0020724	-.001736

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**73.88423**	**-.001371**	**.0018140**	**10.79215**	**.0322434**	**.0019737**
Stddev	.63129	.003195	.0003585	.16920	.0011397	.0004856
%RSD	.8544335	233.0537	19.76487	1.567800	3.534827	24.60461
#1	74.27785	.001393	.0017840	10.98699	.0314026	.0025327
#2	74.21877	-.000637	.0021865	10.70719	.0335406	.0017325
#3	73.15608	-.004870	.0014714	10.68226	.0317869	.0016559

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01LX5 Acquired: 9/30/2025 19:58:15 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006943	-.001863	.3026877	.0882747	F 11.94129	-.026038
Stddev	.000464	.001328	.0196406	.0024710	.04256	.001820
%RSD	6.679975	71.25608	6.488729	2.799202	.3564444	6.989606
#1	-.006442	-.000361	.3253480	.0897139	11.95128	-.028126
#2	-.007357	-.002881	.2905615	.0896887	11.97797	-.024782
#3	-.007030	-.002348	.2921535	.0854215	11.89462	-.025208

Elem	Sr4077
Units	ppm
Avg	.5870116
Stddev	.0048373
%RSD	.8240643
#1	.5883558
#2	.5910348
#3	.5816444

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7573.907	91811.76	5054.799	5892.682	8276.659
Stddev	13.852	418.15	35.610	12.332	9.266
%RSD	.1828913	.4554394	.7044881	.2092799	.1119532
#1	7579.750	91481.25	5051.313	5879.887	8279.457
#2	7558.091	91672.18	5021.060	5904.493	8266.317
#3	7583.881	92281.84	5092.024	5893.668	8284.204

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01MS Acquired: 9/30/2025 20:02:24 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.8377348**	**2.145857**	**.9784532**	**2.124758**	**.8250601**	**2.114067**
Stddev	.0048229	.085012	.0040485	.008852	.0017456	.012127
%RSD	.5757070	3.961665	.4137628	.4166242	.2115721	.5736201
#1	.8422728	2.185516	.9737851	2.115548	.8232094	2.126503
#2	.8326702	2.203793	.9805716	2.125522	.8252938	2.113422
#3	.8382613	2.048263	.9810029	2.133203	.8266771	2.102276

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2189120**	**.1967369**	**.2034413**	**315.7600**	**.4033538**	**.2198236**
Stddev	.0013510	.0014965	.0005131	.9300	.0033649	.0006472
%RSD	.6171236	.7606856	.2521876	.2945368	.8342418	.2943986
#1	.2174129	.1953118	.2028874	315.1319	.4052334	.2191007
#2	.2192879	.1982959	.2039002	316.8284	.3994689	.2200210
#3	.2200352	.1966032	.2035362	315.3197	.4053590	.2203490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2979326**	**3.040474**	**.1989169**	**1.916248**	**.5153113**	**.0732020**
Stddev	.0013079	.037284	.0006990	.030464	.0012901	.0012336
%RSD	.4389932	1.226258	.3514189	1.589754	.2503445	1.685218
#1	.2964758	3.062822	.1991459	1.936373	.5138447	.0733132
#2	.2983161	2.997432	.1994727	1.931172	.5158188	.0743763
#3	.2990059	3.061166	.1981321	1.881200	.5162705	.0719166

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**325.5137**	**.3001298**	**.2116723**	**59.48748**	**.4169705**	**.4301795**
Stddev	2.3638	.0019676	.0001614	.39103	.0026196	.0018096
%RSD	.7261885	.6555859	.0762660	.6573254	.6282576	.4206516
#1	328.2432	.3019813	.2115545	59.85647	.4155755	.4284935
#2	324.1623	.3003444	.2118563	59.07763	.4199925	.4299535
#3	324.1356	.2980637	.2116060	59.52836	.4153437	.4320914

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01MS Acquired: 9/30/2025 20:02:24 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7317648**	**.1875473**	**2.089851**	**6.780533**	F **53.13100**	**.1522812**
Stddev	.0010983	.0023222	.036873	.021898	.20050	.0019776
%RSD	.1500943	1.238191	1.764363	.3229590	.3773721	1.298628
#1	.7304966	.1897812	2.114784	6.795072	53.16718	.1525574
#2	.7323917	.1877148	2.047496	6.791180	53.31095	.1541062
#3	.7324061	.1851459	2.107274	6.755347	52.91487	.1501801

Elem	Sr4077
Units	ppm
Avg	**2.654876**
Stddev	.010465
%RSD	.3941710
#1	2.656924
#2	2.664165
#3	2.643538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6901.893**	**82669.21**	**4784.750**	**5461.155**	**7256.702**
Stddev	12.313	604.39	20.208	49.456	16.075
%RSD	.1783999	.7310978	.4223366	.9056006	.2215226
#1	6916.111	82031.46	4785.884	5404.620	7265.392
#2	6894.799	83233.54	4764.000	5496.407	7238.153
#3	6894.769	82742.64	4804.368	5482.437	7266.562

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01A Acquired: 9/30/2025 20:10:29 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.4909574**	**1.277677**	**.5775735**	**1.268686**	**.3662086**	**.3823142**
Stddev	.1525564	.353475	.1801943	.381890	.1276103	.0260601
%RSD	31.07325	27.66547	31.19851	30.10120	34.84634	6.816421
#1	.3406938	.920577	.3988220	.888784	.2420521	.3876420
#2	.4864707	1.285040	.5747216	1.264741	.3595609	.3540018
#3	.6457077	1.627413	.7591768	1.652532	.4970129	.4052987

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0425914**	**.0412194**	**.1197702**	**360.0135**	**.0816473**	**.1366150**
Stddev	.0033297	.0080372	.0384800	1.9322	.0167310	.0385543
%RSD	7.817818	19.49868	32.12820	.5367068	20.49176	28.22111
#1	.0408300	.0332074	.0814457	361.8301	.0654876	.0982198
#2	.0405124	.0411692	.1194609	360.2269	.0805581	.1362989
#3	.0464319	.0492817	.1584039	357.9834	.0988963	.1753264

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1739739**	**.3343929**	**.0214283**	**.2036018**	**.3053275**	**.0186889**
Stddev	.0557618	.0578644	.0049654	.0152877	.0962785	.0033354
%RSD	32.05184	17.30431	23.17230	7.508634	31.53287	17.84712
#1	.1187975	.2957010	.0170349	.1886362	.2096612	.0153857
#2	.1728208	.3065637	.0204346	.2191924	.3041145	.0186253
#3	.2303032	.4009140	.0268155	.2029769	.4022067	.0220557

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**365.7202**	**.0315628**	**.0513960**	**60.07966**	**.2230710**	**.1869688**
Stddev	2.7115	.0069061	.0083655	.77083	.0109240	.0665554
%RSD	.7414032	21.88050	16.27659	1.283018	4.897078	35.59708
#1	362.7041	.0269571	.0430629	60.11880	.2113885	.1222719
#2	367.9559	.0282279	.0513314	59.29000	.2247926	.1833956
#3	366.5006	.0395035	.0597936	60.83017	.2330319	.2552388

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3233-01A Acquired: 9/30/2025 20:10:29 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.3042179	.0035854	1.547524	4.200123	F 60.79386	-.008289
Stddev	.1181590	.0039058	.031993	1.190418	.22490	.001566
%RSD	38.84025	108.9372	2.067394	28.34245	.3699402	18.89621
#1	.1898781	.0008663	1.518019	3.007922	60.53602	-.006727
#2	.2969181	.0018288	1.543023	4.203698	60.89596	-.008279
#3	.4258576	.0080611	1.581529	5.388749	60.94961	-.009860

Elem	Sr4077
Units	ppm
Avg	2.822876
Stddev	.019541
%RSD	.6922292
#1	2.844170
#2	2.818693
#3	2.805766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7002.802	83843.07	4932.627	5463.602	7334.988
Stddev	22.443	314.25	47.836	22.200	10.365
%RSD	.3204875	.3748049	.9697944	.4063260	.1413147
#1	7008.792	83641.77	4909.200	5448.378	7336.957
#2	7021.642	84205.18	4901.020	5489.075	7344.227
#3	6977.971	83682.26	4987.661	5453.352	7323.779

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169911BL Acquired: 9/30/2025 20:14:40 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.000649**	**.0017194**	**.0004370**	**.0085829**	**.0026495**	**.0046834**
Stddev	.000249	.0029582	.0017593	.0016511	.0023580	.0176860
%RSD	38.39338	172.0525	402.5923	19.23746	89.00004	377.6318
#1	-.000483	.0006943	.0006378	.0098524	.0046419	-.004023
#2	-.000936	-.000590	.0020872	.0067163	.0032604	.025035
#3	-.000529	.005054	-.001414	.0091799	.0000461	-.006962

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004116**	**-.000267**	**-.000064**	**.0030689**	**-.000293**	**-.000298**
Stddev	.002797	.000087	.000057	.0098410	.000396	.000186
%RSD	67.95322	32.61263	88.90532	320.6744	134.9815	62.47249
#1	-.004365	-.000188	-.000069	.0144140	-.000603	-.000503
#2	-.001203	-.000360	-.000005	-.003162	.000153	-.000141
#3	-.006780	-.000252	-.000118	-.002045	-.000430	-.000249

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**-.011438**	**-.000630**	**-.023678**	**.0002334**	**-.001001**
Stddev	.000285	.013548	.000924	.027386	.0007035	.000392
%RSD	134.3104	118.4532	146.6395	115.6614	301.4789	39.12378
#1	.000055	-.015122	-.001305	-.023964	-.000566	-.000871
#2	-.000513	-.022763	-.001007	.003850	.000510	-.001441
#3	-.000180	.003572	.000423	-.050919	.000757	-.000691

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0595186**	**-.004037**	**.0004513**	**-.253297**	**-.003339**	**.0004274**
Stddev	.0268344	.002544	.0006114	.072547	.000986	.0003810
%RSD	45.08576	63.01078	135.4585	28.64105	29.51932	89.15821
#1	.0330199	-.005803	.0010425	-.175960	-.002341	.0007400
#2	.0588593	-.005187	.0004899	-.264085	-.003363	.0005392
#3	.0866766	-.001121	-.000178	-.319846	-.004312	.0000029

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169911BL Acquired: 9/30/2025 20:14:40 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005530	-.001278	.0181178	.0010466	F .0116579	F -.021592
Stddev	.000290	.001223	.0273378	.0009117	.0020510	.001335
%RSD	5.252862	95.69793	150.8891	87.11541	17.59275	6.182734
#1	-.005571	-.001041	.0443972	.0018936	.0135779	-.021701
#2	-.005797	-.000191	.0201239	.0011645	.0094973	-.020207
#3	-.005221	-.002602	-.010168	.0000816	.0118986	-.022870

Elem	Sr4077
Units	ppm
Avg	.0000790
Stddev	.0000691
%RSD	87.40534
#1	.0001387
#2	.0000950
#3	.0000034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7614.539	91740.50	5025.092	6048.917	8833.478
Stddev	10.799	310.87	21.389	41.019	19.806
%RSD	.1418186	.3388610	.4256407	.6781259	.2242198
#1	7608.510	91524.68	5000.484	6006.596	8812.615
#2	7627.007	92096.83	5039.221	6088.497	8852.024
#3	7608.101	91600.00	5035.571	6051.657	8835.794

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169911BS Acquired: 9/30/2025 20:18:51 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**.7647873**	**2.019456**	**.9066014**	**1.946744**	**.7913764**	**1.886999**
Stddev	.0011077	.030869	.0019777	.005521	.0029002	.019693
%RSD	.1448400	1.528595	.2181401	.2836037	.3664709	1.043594
#1	.7660004	2.047091	.9086926	1.948784	.7897692	1.865678
#2	.7638296	2.025136	.9063502	1.950954	.7947243	1.904505
#3	.7645319	1.986141	.9047613	1.940493	.7896357	1.890813

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1904827**	**.1959103**	**.1807531**	**.9746582**	**.3884124**	**.1846761**
Stddev	.0014032	.0018039	.0002958	.0161915	.0008270	.0002847
%RSD	.7366746	.9207797	.1636585	1.661250	.2129105	.1541389
#1	.1896274	.1978448	.1809232	.9858679	.3883677	.1843489
#2	.1897186	.1956120	.1809246	.9820119	.3876087	.1848669
#3	.1921022	.1942741	.1804115	.9560949	.3892608	.1848125

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2932962**	**2.866078**	**.1962954**	**1.913893**	**.4603472**	**.0701318**
Stddev	.0007171	.038065	.0011954	.021650	.0009923	.0004374
%RSD	.2444918	1.328121	.6089741	1.131227	.2155604	.6237331
#1	.2929782	2.823129	.1949379	1.904011	.4611230	.0697847
#2	.2941173	2.895645	.1971904	1.898946	.4606896	.0706232
#3	.2927931	2.879461	.1967579	1.938721	.4592290	.0699876

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.554600**	**.2881458**	**.1949710**	**8.580191**	**.2761177**	**.4090099**
Stddev	.060959	.0079152	.0004766	.148502	.0025290	.0007577
%RSD	2.386261	2.746951	.2444453	1.730757	.9158984	.1852567
#1	2.520759	.2793894	.1946558	8.426217	.2761645	.4083132
#2	2.624972	.2902558	.1955193	8.591817	.2735657	.4098166
#3	2.518068	.2947922	.1947380	8.722538	.2786229	.4088999

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169911BS Acquired: 9/30/2025 20:18:51 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.6688375	.1917692	.8301922	5.315122	F .0070844	F .1556014
Stddev	.0020749	.0044296	.0104458	.018224	.0009373	.0039134
%RSD	.3102233	2.309873	1.258241	.3428683	13.23106	2.514990
#1	.6695953	.1878541	.8181323	5.333246	.0081151	.1525360
#2	.6704269	.1908762	.8364103	5.315321	.0068549	.1600093
#3	.6664902	.1965773	.8360339	5.296800	.0062831	.1542587

Elem	Sr4077
Units	ppm
Avg	.1857030
Stddev	.0010105
%RSD	.5441217
#1	.1845812
#2	.1865417
#3	.1859860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7594.994	88789.05	4924.922	5900.333	8783.589
Stddev	4.510	735.51	7.041	59.816	7.340
%RSD	.0593772	.8283744	.1429722	1.013775	.0835641
#1	7597.859	89519.45	4923.443	5953.255	8777.210
#2	7589.795	88799.16	4932.586	5912.310	8781.945
#3	7597.327	88048.55	4918.738	5835.435	8791.611

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-01 Acquired: 9/30/2025 20:27:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003162**	**-.001645**	**.0175532**	**.0121472**	**.0071094**	**.1558829**	**.1494005**
Stddev	.003476	.003460	.0012238	.0026258	.0017050	.0042196	.0017415
%RSD	109.9348	210.3247	6.971820	21.61651	23.98190	2.706906	1.165690
#1	-.003749	-.003540	.0164313	.0151269	.0089220	.1531007	.1499990
#2	.000570	.002348	.0173702	.0101715	.0068683	.1538099	.1507639
#3	-.006308	-.003744	.0188582	.0111433	.0055378	.1607380	.1474386

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**.0003801**	**.8888420**	**.0043991**	**-.000258**	**.2001645**	**.1071334**
Stddev	.000057	.0001135	.0157181	.0003672	.000456	.0020916	.0078283
%RSD	26.76042	29.86529	1.768383	8.346919	176.9358	1.044929	7.307098
#1	-.000255	.0004262	.8736415	.0039767	-.000705	.1977718	.1059378
#2	-.000236	.0004633	.9050311	.0045782	.000206	.2016452	.0999717
#3	-.000148	.0002508	.8878536	.0046424	-.000274	.2010765	.1154908

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0160499**	**.1464634**	**.0024128**	**-.001691**	**338.1888**	**.0016740**	**.4850575**
Stddev	.0004563	.0342391	.0004556	.000608	3.9668	.0062404	.0053923
%RSD	2.843159	23.37727	18.88242	35.95620	1.172956	372.7950	1.111688
#1	.0158401	.1110948	.0020350	-.001481	339.3356	-.005323	.4911854
#2	.0157362	.1794485	.0022848	-.002376	341.4559	.003679	.4829496
#3	.0165733	.1488469	.0029188	-.001215	333.7749	.006665	.4810375

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6211350**	**.0329907**	**.0010856**	**-.001860**	**.0040998**	**.1969577**	**.0928877**
Stddev	.0420150	.0025548	.0001776	.000254	.0021723	.0296583	.0018978
%RSD	6.764224	7.744132	16.35880	13.66583	52.98640	15.05823	2.043065
#1	.6173814	.0347057	.0010676	-.002001	.0039760	.2288216	.0907295
#2	.5811228	.0300544	.0009176	-.001567	.0063314	.1701567	.0936383
#3	.6649009	.0342119	.0012714	-.002013	.0019920	.1918946	.0942954

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-01 Acquired: 9/30/2025 20:27:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.347731	-.020694	.0056091
Stddev	.023497	.001396	.0003187
%RSD	1.000817	6.746671	5.682480
#1	2.325385	-.022113	.0052935
#2	2.345577	-.019321	.0059309
#3	2.372230	-.020649	.0056029

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7220.374	85824.07	4909.861	5700.702	7752.973
Stddev	75.096	1029.91	28.342	70.711	75.943
%RSD	1.040051	1.200026	.5772521	1.240385	.9795277
#1	7306.884	84986.19	4941.596	5631.593	7840.661
#2	7171.988	85512.14	4887.068	5697.600	7708.603
#3	7182.250	86973.89	4900.920	5772.912	7709.654

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-02 Acquired: 9/30/2025 20:31:16 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000813**	**-.003179**	**.0294910**	**.0091868**	**.0074939**	**.0930345**	**.1175165**
Stddev	.003465	.000888	.0023199	.0012732	.0040585	.0290805	.0032353
%RSD	426.1463	27.92351	7.866623	13.85850	54.15771	31.25776	2.753073
#1	-.002648	-.002300	.0268126	.0083200	.0121496	.1117041	.1191777
#2	.003184	-.003163	.0308723	.0106485	.0056301	.1078711	.1137881
#3	-.002975	-.004075	.0307880	.0085918	.0047021	.0595282	.1195839

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000245**	**.0049711**	**1.541377**	**.0023362**	**-.000130**	**.2118748**	**.0528687**
Stddev	.000008	.0001015	.012690	.0003030	.000290	.0001396	.0096753
%RSD	3.460901	2.042508	.8233160	12.96919	222.6255	.0658895	18.30060
#1	-.000237	.0050107	1.532960	.0019926	.000185	.2120116	.0427425
#2	-.000244	.0050468	1.535196	.0024511	-.000387	.2118803	.0620192
#3	-.000254	.0048557	1.555973	.0025650	-.000189	.2117325	.0538443

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0233198**	**.1128771**	**.0040847**	**-.001327**	**232.9600**	**-.000911**	**12.07724**
Stddev	.0005602	.0383737	.0002739	.000529	1.6837	.003006	.19806
%RSD	2.402455	33.99601	6.705948	39.87606	.7227325	330.0046	1.639935
#1	.0237553	.1504169	.0041238	-.000740	234.8165	.002197	12.24740
#2	.0226877	.0737206	.0043371	-.001474	231.5319	-.001126	11.85983
#3	.0235163	.1144938	.0037934	-.001767	232.5316	-.003803	12.12450

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3355801**	**.0088469**	**-.008571**	**-.003181**	**-.001228**	**.0972434**	**.0344953**
Stddev	.0231232	.0007876	.000399	.000810	.003412	.0349122	.0015718
%RSD	6.890522	8.902327	4.653213	25.45242	277.8372	35.90183	4.556459
#1	.3556677	.0081342	-.008198	-.003577	-.003917	.1346471	.0362470
#2	.3103031	.0087140	-.008991	-.002250	.002610	.0915638	.0332082
#3	.3407694	.0096925	-.008524	-.003717	-.002378	.0655193	.0340309

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-02 Acquired: 9/30/2025 20:31:16 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3720864	-.022294	.0083211
Stddev	.0034386	.002012	.0001384
%RSD	.9241284	9.024577	1.662672
#1	.3711579	-.020345	.0084385
#2	.3758939	-.024363	.0081686
#3	.3692074	-.022173	.0083563

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7332.006	85862.87	4834.751	5652.238	7950.000
Stddev	30.575	382.36	14.585	19.133	23.433
%RSD	.4170064	.4453104	.3016678	.3384969	.2947604
#1	7332.100	85804.75	4845.854	5653.590	7943.526
#2	7301.384	86270.96	4840.167	5670.659	7930.484
#3	7362.534	85512.91	4818.233	5632.465	7975.990

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV07 Acquired: 9/30/2025 20:35:32 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.884429**	**5.285602**	**4.822201**	**4.932058**	**4.864356**	**9.634343**	**9.813671**
Stddev	.012464	.140525	.011394	.022153	.008361	.021389	.063808
%RSD	.2551810	2.658643	.2362854	.4491591	.1718898	.2220110	.6501933
#1	4.898583	5.440988	4.835302	4.955482	4.873776	9.618404	9.781539
#2	4.875091	5.248390	4.816696	4.929247	4.857813	9.625973	9.772317
#3	4.879614	5.167428	4.814604	4.911444	4.861480	9.658651	9.887157

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2520044**	**2.418652**	**24.39114**	**.9726784**	**2.411380**	**1.210045**	**4.768527**
Stddev	.0032750	.004740	.06908	.0027104	.002557	.001010	.000702
%RSD	1.299576	.1959724	.2832143	.2786540	.1060380	.0834663	.0147240
#1	.2544650	2.423943	24.42774	.9757027	2.414029	1.210534	4.769241
#2	.2482872	2.417218	24.31146	.9718638	2.411185	1.210718	4.767838
#3	.2532610	2.414794	24.43421	.9704687	2.408927	1.208884	4.768503

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.468975**	**24.37619**	**2.412991**	**1.214986**	**24.92426**	**2.456558**	**2.367930**
Stddev	.022461	.03575	.002764	.002593	.13701	.015760	.003114
%RSD	.9097259	.1466516	.1145492	.2134282	.5497160	.6415374	.1315193
#1	2.468985	24.40339	2.415971	1.216255	25.03779	2.460479	2.371333
#2	2.446509	24.33570	2.412492	1.212002	24.96290	2.439207	2.365221
#3	2.491431	24.38950	2.410511	1.216700	24.77207	2.469986	2.367237

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.90086**	**5.044989**	**4.855808**	**4.849533**	**4.883957**	**4.610064**	**4.832503**
Stddev	.17992	.063486	.011987	.011469	.031196	.031025	.005739
%RSD	.6688338	1.258403	.2468635	.2364928	.6387510	.6729848	.1187687
#1	26.77637	5.092212	4.866972	4.862762	4.886098	4.575714	4.837933
#2	27.10714	4.972818	4.857314	4.843455	4.851745	4.618431	4.826497
#3	26.81905	5.069937	4.843139	4.842384	4.914028	4.636048	4.833078

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV07 Acquired: 9/30/2025 20:35:32 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.957270**	**4.632742**	**4.885459**
Stddev	.019566	.021478	.058548
%RSD	.3946962	.4636068	1.198404
#1	4.979261	4.628881	4.925713
#2	4.950760	4.613456	4.818295
#3	4.941789	4.655888	4.912370

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7383.649**	**88106.40**	**4865.379**	**5739.711**	**8090.158**
Stddev	14.475	230.79	46.175	6.056	13.099
%RSD	.1960431	.2619393	.9490568	.1055146	.1619181
#1	7377.351	88006.68	4825.230	5738.142	8079.219
#2	7373.390	87942.23	4915.837	5734.593	8086.581
#3	7400.206	88370.27	4855.069	5746.397	8104.675

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB07 Acquired: 9/30/2025 20:39:36 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001425**	**-.001514**	**.0001789**	**.0076724**	**.0038210**	**.0075986**
Stddev	.0019581	.002311	.0005731	.0013229	.0017104	.0306578
%RSD	1373.674	152.6594	320.4356	17.24217	44.76250	403.4675
#1	.0018599	.001152	-.000327	.0089779	.0037607	-.027458
#2	.0005575	-.002746	.000063	.0077065	.0021416	.020862
#3	-.001990	-.002948	.000801	.0063328	.0055608	.029391

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000222**	**-.000188**	**-.000083**	**-.022538**	**-.000184**	**-.000432**
Stddev	.001990	.000093	.000072	.034541	.000361	.000217
%RSD	896.7503	49.30199	86.87331	153.2579	195.8854	50.11820
#1	-.001027	-.000082	-.000154	-.040006	-.000003	-.000613
#2	.002045	-.000253	-.000010	-.044855	.000050	-.000192
#3	-.001683	-.000231	-.000085	.017248	-.000599	-.000492

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000127**	**-.006984**	**-.000318**	**.0020631**	**.0002430**	**-.000496**
Stddev	.000364	.010553	.001075	.0176210	.0001079	.000618
%RSD	286.3798	151.1123	337.8674	854.1094	44.41571	124.5669
#1	-.000425	-.018078	-.000962	-.014328	.0001336	-.001024
#2	-.000234	.002929	-.000915	.020699	.0003493	-.000647
#3	.000278	-.005803	.000923	-.000181	.0002460	.000183

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.138539**	**.0010931**	**.0004116**	**-.260038**	**-.001388**	**.0006749**
Stddev	.047067	.0045748	.0002726	.072348	.000974	.0003450
%RSD	33.97393	418.5289	66.24396	27.82211	70.18255	51.11588
#1	-.090594	-.001805	.0007134	-.178185	-.002380	.0004275
#2	-.140348	-.001283	.0001831	-.315432	-.000433	.0010690
#3	-.184676	.006367	.0003383	-.286497	-.001351	.0005282

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB07 Acquired: 9/30/2025 20:39:36 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005509**	**-.001537**	**.0107476**	**.0007143**	F **.0144793**	F **-.019585**
Stddev	.000661	.003078	.0058166	.0011734	.0030029	.000818
%RSD	11.99769	200.2034	54.12000	164.2635	20.73890	4.176806
#1	-.005822	-.005083	.0083231	.0013663	.0179419	-.020028
#2	-.004749	.000441	.0173843	-.000640	.0129061	-.018641
#3	-.005954	.000030	.0065355	.001417	.0125899	-.020086

Elem	Sr4077
Units	ppm
Avg	**-.000254**
Stddev	.000233
%RSD	91.79356
#1	.000012
#2	-.000348
#3	-.000425

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7673.303**	**93591.94**	**4947.811**	**6056.000**	**9018.968**
Stddev	25.269	417.71	12.983	56.644	16.541
%RSD	.3293075	.4463101	.2624010	.9353335	.1834070
#1	7646.913	93129.36	4962.476	6001.119	9003.656
#2	7675.720	93941.53	4937.783	6114.256	9016.734
#3	7697.277	93704.95	4943.174	6052.625	9036.512

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-03 Acquired: 9/30/2025 20:43:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004346	-.000637	.0023301	.0077129	.0040043	.0352621	.1658877
Stddev	.0002770	.001381	.0008838	.0009859	.0016859	.0256489	.0012943
%RSD	63.73128	216.7846	37.93021	12.78300	42.10241	72.73794	.7802274
#1	.0001716	-.002072	.0015530	.0083899	.0032980	.0057687	.1650224
#2	.0007238	-.000522	.0032915	.0081669	.0027863	.0523484	.1673756
#3	.0004085	.000683	.0021457	.0065817	.0059284	.0476692	.1652649

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000150	.0011558	2.078898	.0008435	-.000091	.0311428	.1089838
Stddev	.000106	.0001433	.025850	.0004885	.000261	.0005729	.0117106
%RSD	70.31704	12.39874	1.243425	57.91481	287.1166	1.839701	10.74523
#1	-.000049	.0009924	2.057824	.0013870	-.000227	.0317865	.1058175
#2	-.000260	.0012151	2.107741	.0007026	.000210	.0309532	.0991820
#3	-.000141	.0012600	2.071130	.0004410	-.000255	.0306887	.1219519

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220075	1.435996	.0016553	-.001675	338.5866	.0022295	.3947062
Stddev	.0005891	.033226	.0003029	.000869	3.7340	.0030970	.0032468
%RSD	2.676911	2.313829	18.29812	51.89008	1.102816	138.9084	.8225764
#1	.0225816	1.427196	.0018235	-.001016	342.6977	-.001328	.3962384
#2	.0214044	1.408056	.0013056	-.002660	337.6565	.004321	.3969033
#3	.0220365	1.472737	.0018367	-.001349	335.4056	.003696	.3909768

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033988	.0261778	.0003434	-.004888	-.004634	.1448724	.5098228
Stddev	.131083	.0019579	.0004874	.000088	.001943	.0058411	.0022761
%RSD	12.67739	7.479293	141.9351	1.798476	41.92332	4.031894	.4464543
#1	.969373	.0281164	-.000217	-.004801	-.004893	.1433881	.5078714
#2	1.184834	.0262158	.000672	-.004887	-.006434	.1399165	.5092738
#3	.947757	.0242011	.000574	-.004977	-.002575	.1513124	.5123233

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-03 Acquired: 9/30/2025 20:43:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3412230	-.017671	.0101622
Stddev	.0032996	.002572	.0003943
%RSD	.9669830	14.55495	3.880422
#1	.3450254	-.018556	.0102674
#2	.3395303	-.014774	.0104934
#3	.3391132	-.019684	.0097260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7388.583	86902.56	4977.510	5735.987	7881.277
Stddev	60.354	343.24	50.627	43.153	64.339
%RSD	.8168516	.3949749	1.017120	.7523238	.8163523
#1	7319.243	86514.33	5013.080	5688.633	7808.489
#2	7429.302	87027.58	4919.548	5746.230	7930.552
#3	7417.203	87165.78	4999.903	5773.096	7904.789

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-04 Acquired: 9/30/2025 20:47:57 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001205**	**-.000853**	**-.000594**	**.0083862**	**.0011196**	**.0371294**	**.1190705**
Stddev	.002657	.000590	.001659	.0010507	.0021726	.0245431	.0029912
%RSD	220.6208	69.13817	279.4305	12.52896	194.0457	66.10159	2.512140
#1	-.002061	-.000412	-.002367	.0095975	.0004349	.0208553	.1156219
#2	.001776	-.001523	-.000333	.0078399	.0035521	.0653595	.1206284
#3	-.003328	-.000624	.000920	.0077212	-.000628	.0251734	.1209612

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000157**	**-.000082**	**1.410146**	**.0000811**	**-.000728**	**.0025454**	**.0180250**
Stddev	.000092	.000079	.011701	.0004606	.000360	.0000650	.0058154
%RSD	58.86676	96.30856	.8297602	567.9920	49.41114	2.555694	32.26329
#1	-.000055	-.000134	1.401328	.0006124	-.000793	.0026198	.0174964
#2	-.000236	.000009	1.423420	-.000163	-.000340	.0025169	.0124919
#3	-.000179	-.000122	1.405690	-.000206	-.001051	.0024994	.0240867

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125751**	**.9073558**	**.0010476**	**-.000918**	**297.4211**	**-.004994**	**.1201851**
Stddev	.0011946	.0493236	.0006476	.000411	1.9761	.005279	.0002901
%RSD	9.499661	5.435972	61.81745	44.71913	.6644248	105.7047	.2413598
#1	.0125437	.9367391	.0017909	-.001069	299.5193	-.003564	.1203318
#2	.0113965	.9349167	.0007459	-.001232	297.1486	-.000578	.1198509
#3	.0137851	.8504115	.0006058	-.000454	295.5953	-.010842	.1203724

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6422875**	**.0219304**	**.0007163**	**-.004702**	**-.000614**	**.0983154**	**.3408480**
Stddev	.0782022	.0008481	.0004176	.000521	.002986	.0168277	.0026108
%RSD	12.17557	3.867241	58.29912	11.07229	486.0265	17.11600	.7659620
#1	.6051169	.0224051	.0011893	-.004697	-.003359	.0846062	.3438540
#2	.5896033	.0224349	.0005613	-.005224	-.001049	.1170954	.3395418
#3	.7321423	.0209513	.0003984	-.004183	.002565	.0932448	.3391481

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-04 Acquired: 9/30/2025 20:47:57 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3133755	-.022406	.0069882
Stddev	.0011826	.001774	.0001252
%RSD	.3773850	7.919230	1.791882
#1	.3133756	-.024379	.0070073
#2	.3121928	-.021899	.0071027
#3	.3145580	-.020940	.0068545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7312.546	87769.56	4968.012	5739.098	7786.524
Stddev	36.495	297.89	23.109	14.846	29.030
%RSD	.4990719	.3394054	.4651485	.2586764	.3728250
#1	7273.053	88100.07	4987.752	5754.165	7755.519
#2	7319.560	87521.77	4942.593	5738.645	7790.993
#3	7345.025	87686.83	4973.690	5724.484	7813.061

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-05 Acquired: 9/30/2025 20:52:07 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002555**	**.0002301**	**-.000771**	**.0049168**	**.0030298**	**.0321181**	**.1360604**
Stddev	.001803	.0009141	.001397	.0013998	.0030005	.0292491	.0010776
%RSD	70.54281	397.3540	181.0531	28.46908	99.03236	91.06725	.7920250
#1	-.004487	.0004688	.000824	.0035490	.0056135	.0339377	.1351206
#2	-.000918	-.000780	-.001773	.0048549	-.000261	.0020017	.1358240
#3	-.002261	.001001	-.001366	.0063464	.003737	.0604149	.1372366

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000114**	**.0002424**	**.7005476**	**.0035627**	**-.000197**	**.0075542**	**.0359549**
Stddev	.000072	.0000941	.0064737	.0007459	.000154	.0005220	.0117205
%RSD	62.76106	38.81144	.9240952	20.93637	78.29211	6.910550	32.59764
#1	-.000152	.0002049	.6930871	.0028021	-.000367	.0074363	.0279343
#2	-.000032	.0003494	.7046841	.0035930	-.000065	.0081251	.0494056
#3	-.000159	.0001728	.7038716	.0042929	-.000159	.0071012	.0305248

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066725**	**.3268728**	**.0023379**	**-.000638**	**279.9509**	**-.000882**	**.1368532**
Stddev	.0016691	.0222851	.0004644	.000299	2.2071	.004557	.0009345
%RSD	25.01393	6.817651	19.86471	46.84937	.7883868	516.4462	.6828789
#1	.0085426	.3523177	.0024725	-.000969	282.0376	-.001618	.1371892
#2	.0053337	.3108275	.0018211	-.000388	280.1745	-.005027	.1375734
#3	.0061413	.3174732	.0027202	-.000556	277.6405	.003998	.1357972

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4413598**	**.0176209**	**.0002374**	**.0045192**	**.0023124**	**.0359804**	**.1412930**
Stddev	.0708804	.0013243	.0004103	.0006511	.0002534	.0084321	.0015119
%RSD	16.05955	7.515340	172.8309	14.40665	10.95767	23.43539	1.070065
#1	.5230162	.0160928	.0001058	.0051995	.0022808	.0429152	.1430384
#2	.3957142	.0184353	.0006973	.0044561	.0020763	.0265942	.1403848
#3	.4053490	.0183344	-.000091	.0039019	.0025801	.0384318	.1404559

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-05 Acquired: 9/30/2025 20:52:07 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2528295	-.023831	.0045582
Stddev	.0019454	.005045	.0003720
%RSD	.7694538	21.16913	8.160732
#1	.2526409	-.018584	.0049760
#2	.2509852	-.028645	.0044352
#3	.2548623	-.024263	.0042632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7377.541	87408.67	5017.807	5750.971	7889.197
Stddev	15.646	494.61	49.175	21.767	20.301
%RSD	.2120757	.5658626	.9800159	.3784948	.2573227
#1	7360.057	87935.53	5072.370	5749.729	7865.763
#2	7382.343	86954.31	5004.137	5729.852	7900.416
#3	7390.224	87336.16	4976.912	5773.333	7901.412

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-06 Acquired: 9/30/2025 20:56:16 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003847**	**-.000431**	**.0055182**	**.0065564**	**.0029266**	**.0295927**	**.0350261**
Stddev	.002112	.001114	.0008613	.0007957	.0011625	.0065137	.0007130
%RSD	54.90454	258.4268	15.60823	12.13646	39.72037	22.01121	2.035749
#1	-.001422	-.001432	.0050972	.0073021	.0024215	.0293641	.0343167
#2	-.005285	-.000629	.0065091	.0066484	.0021021	.0231963	.0357428
#3	-.004833	.000769	.0049485	.0057186	.0042561	.0362176	.0350189

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000080**	**.0003901**	**3.124455**	**.0010688**	**-.000350**	**.0133800**	**.0402193**
Stddev	.000088	.0001132	.027236	.0005033	.000476	.0004128	.0039493
%RSD	110.4360	29.01272	.8717052	47.08576	136.0339	3.085233	9.819332
#1	-.000137	.0002809	3.101774	.0004975	-.000664	.0133008	.0374329
#2	-.000124	.0003827	3.154663	.0014466	-.000583	.0138266	.0447388
#3	.000022	.0005068	3.116929	.0012623	.000198	.0130125	.0384862

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0290298**	**2.388291**	**.0010991**	**-.000836**	**223.5973**	**.0016454**	**.1460194**
Stddev	.0002858	.021409	.0003208	.000616	2.1475	.0046473	.0003294
%RSD	.9845435	.8964283	29.19045	73.70525	.9604483	282.4391	.2255981
#1	.0289088	2.370134	.0014391	-.001522	221.3308	.0068322	.1456716
#2	.0293562	2.382840	.0008017	-.000328	225.6018	-.002140	.1460599
#3	.0288244	2.411899	.0010564	-.000659	223.8593	.000244	.1463267

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.378468**	**.0129339**	**.0001666**	**.0055664**	**.0011547**	**.2872318**	**1.876634**
Stddev	.075996	.0009350	.0001942	.0009309	.0021568	.0339641	.006212
%RSD	5.513079	7.229001	116.6030	16.72382	186.7816	11.82462	.3310172
#1	1.408537	.0135830	.0001549	.0045247	.0033816	.3204048	1.873442
#2	1.434830	.0118622	-.000022	.0063171	-.000924	.2887622	1.883793
#3	1.292039	.0133565	.000366	.0058573	.001007	.2525284	1.872667

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-06 Acquired: 9/30/2025 20:56:16 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2659412	-.024388	.0107255
Stddev	.0004705	.002213	.0002525
%RSD	.1769207	9.075225	2.353893
#1	.2654487	-.021892	.0104712
#2	.2663861	-.025160	.0109761
#3	.2659889	-.026112	.0107292

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7394.855	88486.31	4908.178	5853.545	7949.699
Stddev	18.643	668.03	17.589	51.880	19.246
%RSD	.2521021	.7549541	.3583535	.8863077	.2420910
#1	7373.713	89194.97	4922.917	5906.234	7932.306
#2	7401.916	87868.14	4888.708	5802.512	7946.416
#3	7408.936	88395.82	4912.910	5851.890	7970.375

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-07 Acquired: 9/30/2025 21:00:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025639	.0005948	.0010364	.0058598	.0025137	.1244811	.1804215
Stddev	.0009606	.0015179	.0005874	.0019118	.0013914	.0127723	.0026757
%RSD	37.46793	255.2180	56.67767	32.62642	55.35362	10.26047	1.483012
#1	.0035221	-.000056	.0003581	.0045506	.0035356	.1157668	.1834157
#2	.0025688	.002330	.0013728	.0049750	.0009290	.1185341	.1795839
#3	.0016008	-.000489	.0013784	.0080537	.0030766	.1391426	.1782648

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000177	.0003763	14.88612	.0005835	-.000591	.0060255	.0460372
Stddev	.000047	.0000771	.05041	.0001992	.000302	.0002365	.0125651
%RSD	26.51536	20.49678	.3386540	34.14580	51.01183	3.925534	27.29336
#1	-.000131	.0002876	14.94425	.0007055	-.000388	.0059860	.0374710
#2	-.000174	.0004137	14.85978	.0006913	-.000938	.0058112	.0604616
#3	-.000225	.0004276	14.85434	.0003536	-.000447	.0062793	.0401789

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0557793	3.233094	.0023437	-.000518	209.9939	-.000769	.6618145
Stddev	.0009940	.054215	.0000308	.000619	.2875	.002210	.0011668
%RSD	1.782029	1.676878	1.314685	119.5258	.1368932	287.3775	.1763094
#1	.0546768	3.172594	.0023387	-.001222	210.3151	-.003302	.6613954
#2	.0566070	3.277276	.0023767	-.000061	209.7607	.000768	.6609152
#3	.0560539	3.249410	.0023157	-.000270	209.9059	.000227	.6631330

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.425456	.0280338	.0002726	-.004468	.0016806	.5361109	.2322501
Stddev	.019400	.0003364	.0001793	.000516	.0040942	.0172315	.0025690
%RSD	.5663369	1.200060	65.76021	11.55121	243.6192	3.214174	1.106134
#1	3.421553	.0283890	.0000903	-.003902	.0018020	.5554916	.2343986
#2	3.446511	.0279923	.0002789	-.004914	.0057126	.5225197	.2294045
#3	3.408305	.0277200	.0004488	-.004588	-.002473	.5303215	.2329471

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-07 Acquired: 9/30/2025 21:00:24 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5521787	-.020934	.0748463
Stddev	.0040896	.002271	.0005468
%RSD	.7406370	10.85031	.7305152
#1	.5493268	-.021421	.0753474
#2	.5503450	-.022922	.0749283
#3	.5568643	-.018459	.0742632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7494.679	87832.04	5064.328	5788.057	8088.052
Stddev	27.178	372.04	35.283	19.306	37.236
%RSD	.3626323	.4235829	.6966988	.3335554	.4603855
#1	7463.331	87814.81	5024.517	5799.081	8045.108
#2	7509.069	88212.39	5076.733	5799.326	8111.366
#3	7511.636	87468.91	5091.733	5765.764	8107.683

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-01 Acquired: 9/30/2025 21:04:33 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001714**	**.0000873**	**.1165496**	**.0071868**	**.0012967**	**.9291524**	**.1232149**
Stddev	.003920	.0011621	.0028849	.0008063	.0013196	.0012453	.0013927
%RSD	228.6407	1331.518	2.475269	11.21967	101.7624	.1340234	1.130286
#1	-.005900	-.001167	.1184028	.0078251	.0027276	.9297268	.1242618
#2	-.001115	.001127	.1132257	.0074545	.0010349	.9277236	.1216343
#3	.001871	.000303	.1180202	.0062806	.0001277	.9300069	.1237486

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000236**	**.0000632**	**3.522663**	**.0004880**	**-.000150**	**.0056311**	**.0240989**
Stddev	.000104	.0000241	.009993	.0003904	.000307	.0006646	.0126273
%RSD	43.90167	38.08963	.2836915	79.99767	204.7639	11.80314	52.39777
#1	-.000348	.0000373	3.531575	.0008170	-.000014	.0063183	.0293780
#2	-.000217	.0000674	3.524557	.0005902	-.000501	.0055833	.0096887
#3	-.000143	.0000849	3.511859	.0000567	.000066	.0049916	.0332299

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030042**	**.3244864**	**.0014065**	**-.000607**	**289.5522**	**-.001608**	**.1152293**
Stddev	.0007733	.0403508	.0005399	.000384	3.3609	.004933	.0005717
%RSD	25.74111	12.43528	38.38710	63.31620	1.160720	306.8078	.4961390
#1	.0025455	.3707738	.0015197	-.001035	287.3984	-.006139	.1153576
#2	.0038970	.3059577	.0008190	-.000496	293.4249	.003647	.1157259
#3	.0025700	.2967278	.0018810	-.000291	287.8333	-.002331	.1146043

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7865774**	**.0287625**	**.0002169**	**-.006079**	**.0018368**	**1.311552**	**.0052786**
Stddev	.0605241	.0006270	.0002426	.000709	.0014514	.023283	.0005253
%RSD	7.694612	2.179749	111.8748	11.66906	79.01870	1.775256	9.950977
#1	.7548447	.0283381	-.000062	-.006717	.0026466	1.303554	.0053029
#2	.8563691	.0284668	.000376	-.005315	.0027026	1.337780	.0057913
#3	.7485183	.0294826	.000337	-.006205	.0001612	1.293322	.0047416

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-01 Acquired: 9/30/2025 21:04:33 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.047308**	**-.025574**	**.0096326**
Stddev	.014253	.001011	.0001985
%RSD	.6961644	3.954003	2.060351
#1	2.035701	-.026074	.0096974
#2	2.043008	-.024410	.0097907
#3	2.063216	-.026238	.0094099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7374.250**	**88301.26**	**5005.539**	**5812.754**	**7882.614**
Stddev	37.663	260.05	48.724	31.597	42.201
%RSD	.5107353	.2945026	.9734024	.5435798	.5353644
#1	7414.707	88598.65	4952.677	5848.993	7923.571
#2	7367.838	88188.61	5048.651	5790.971	7885.001
#3	7340.205	88116.54	5015.287	5798.299	7839.270

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-02 Acquired: 9/30/2025 21:08:40 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.002524	-.001445	11.09288	.0052550	.0122360	.1715194
Stddev	.002573	.004426	.05737	.0012063	.0030892	.0105934
%RSD	101.9337	306.2937	.5171789	22.95481	25.24651	6.176221
#1	-.001979	-.004792	11.05185	.0053213	.0128073	.1598818
#2	-.000267	-.003116	11.06836	.0064268	.0149997	.1806009
#3	-.005325	.003573	11.15844	.0040170	.0089011	.1740756

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075971	-.000058	.0098475	180.3243	.0037146	.0038209
Stddev	.0030690	.000042	.0000751	.6571	.0006010	.0005602
%RSD	40.39707	72.53553	.7623329	.3644074	16.17929	14.66107
#1	.0089850	-.000010	.0099275	180.8963	.0041343	.0040832
#2	.0097269	-.000088	.0098364	180.4702	.0030261	.0031777
#3	.0040793	-.000076	.0097785	179.6066	.0039832	.0042018

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0761181	.0460439	.1053346	8.911175	.0063540	-.001191
Stddev	.0006253	.0119369	.0018696	.065157	.0003563	.000893
%RSD	.8214490	25.92494	1.774927	.7311798	5.608156	74.98373
#1	.0753979	.0462267	.1054074	8.907081	.0066766	-.000714
#2	.0764340	.0340167	.1034297	8.978282	.0064139	-.002221
#3	.0765224	.0578883	.1071668	8.848162	.0059715	-.000637

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	263.8647	.0006600	1.672377	5.696179	.1147365	.0013397
Stddev	.6598	.0047983	.020915	.134362	.0009628	.0001579
%RSD	.2500380	727.0337	1.250601	2.358815	.8391150	11.78581
#1	263.8682	-.003566	1.693427	5.823634	.1158047	.0013654
#2	263.2032	-.000330	1.651600	5.555838	.1139357	.0014833
#3	264.5227	.005876	1.672105	5.709066	.1144691	.0011706

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-02 Acquired: 9/30/2025 21:08:40 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006739	-.004877	.6393938	.0465110	F 102.2350	-.002827
Stddev	.000793	.002136	.0294961	.0015628	1.1466	.001289
%RSD	11.76654	43.80096	4.613132	3.360126	1.121550	45.58480
#1	-.007432	-.002797	.6057384	.0477319	101.8612	-.001375
#2	-.005875	-.007066	.6607496	.0447497	101.3219	-.003835
#3	-.006911	-.004770	.6516934	.0470514	103.5219	-.003270

Elem	Sr4077
Units	ppm
Avg	.4455217
Stddev	.0027170
%RSD	.6098420
#1	.4477596
#2	.4463070
#3	.4424986

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7292.690	86946.60	5004.829	5734.337	7707.148
Stddev	38.147	506.70	44.563	47.446	44.936
%RSD	.5230880	.5827769	.8903918	.8274020	.5830395
#1	7318.728	86411.78	4959.305	5681.368	7735.777
#2	7310.440	87419.49	5006.817	5772.939	7730.311
#3	7248.902	87008.54	5048.364	5748.704	7655.357

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-03 Acquired: 9/30/2025 21:12:47 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.003577**	**.0031121**	**.5190230**	**.0038745**	**.0065605**	**.0360709**
Stddev	.000679	.0001259	.0016867	.0017623	.0033197	.0019582
%RSD	18.99190	4.046069	.3249694	45.48388	50.60097	5.428690
#1	-.002974	.0029846	.5207931	.0019120	.0042801	.0382079
#2	-.004314	.0032363	.5188414	.0053216	.0050323	.0343627
#3	-.003445	.0031153	.5174344	.0043899	.0103690	.0356421

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079327**	**-.000254**	**.0117354**	**233.1704**	**.0007936**	**.0183305**
Stddev	.0008500	.000023	.0001242	2.5846	.0003252	.0003547
%RSD	10.71520	9.174180	1.058132	1.108450	40.98300	1.935004
#1	.0079070	-.000269	.0116160	234.9108	.0005312	.0179603
#2	.0070958	-.000227	.0118639	234.3997	.0006921	.0186673
#3	.0087952	-.000266	.0117264	230.2006	.0011574	.0183639

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0118863**	**.0073496**	**.0840162**	**153.5431**	**.0083636**	**-.000763**
Stddev	.0006315	.0215171	.0009139	1.3760	.0003244	.000353
%RSD	5.312768	292.7654	1.087779	.8961957	3.878272	46.22210
#1	.0122436	.0283342	.0846819	154.6295	.0087326	-.000404
#2	.0122581	-.014663	.0843924	154.0041	.0081234	-.001109
#3	.0111571	.008378	.0829742	151.9958	.0082348	-.000775

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**458.6993**	**-.000500**	**2.171888**	**18.83201**	**.2271858**	**.0031656**
Stddev	4.5632	.004195	.019235	.28619	.0033063	.0006605
%RSD	.9948117	838.6724	.8856373	1.519712	1.455335	20.86614
#1	462.4000	-.005217	2.149807	18.56784	.2301605	.0026644
#2	460.0973	.002814	2.185010	19.13605	.2277710	.0029182
#3	453.6007	.000902	2.180845	18.79216	.2236260	.0039141

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3207-03 Acquired: 9/30/2025 21:12:47 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.006030	-.008996	1.726732	.0077490	F 215.5119	.0288281
Stddev	.001018	.002742	.011204	.0020204	.7755	.0054961
%RSD	16.88509	30.47793	.6488318	26.07293	.3598636	19.06505
#1	-.006165	-.007219	1.716446	.0060625	215.1849	.0257043
#2	-.006975	-.012154	1.738670	.0071962	216.3973	.0351742
#3	-.004952	-.007616	1.725079	.0099882	214.9533	.0256059

Elem	Sr4077
Units	ppm
Avg	1.336352
Stddev	.016282
%RSD	1.218373
#1	1.344456
#2	1.346992
#3	1.317609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7014.184	83028.37	5123.512	5464.176	7335.603
Stddev	29.004	680.98	22.967	37.408	35.992
%RSD	.4135104	.8201772	.4482687	.6845955	.4906425
#1	6981.872	83771.54	5101.105	5507.243	7296.145
#2	7022.710	82434.28	5122.431	5445.510	7344.031
#3	7037.969	82879.28	5147.001	5439.775	7366.632

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3215-02 Acquired: 9/30/2025 21:17:00 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001564**	**-.001784**	**.0061437**	**.0079647**	**.0025337**	**.0686408**	**.1555064**
Stddev	.000916	.001697	.0019011	.0022361	.0015050	.0044898	.0020819
%RSD	58.55552	95.07887	30.94279	28.07564	59.40001	6.541059	1.338758
#1	-.002478	-.000052	.0050638	.0092312	.0010723	.0685039	.1531850
#2	-.001567	-.001858	.0050286	.0053828	.0040788	.0731975	.1561265
#3	-.000647	-.003443	.0083388	.0092800	.0024499	.0642209	.1572078

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**.0002944**	**11.07736**	**.0006854**	**.0001367**	**.0026753**	**.0220193**
Stddev	.000105	.0000503	.03520	.0003486	.0000459	.0004474	.0081512
%RSD	189.4505	17.09321	.3177422	50.85701	33.55841	16.72471	37.01856
#1	-.000176	.0002789	11.11350	.0003391	.0001889	.0031919	.0137930
#2	.000003	.0003507	11.04319	.0010362	.0001185	.0024133	.0300934
#3	.000008	.0002537	11.07539	.0006810	.0001027	.0024207	.0221715

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3131382**	**1.239314**	**.0021121**	**-.000643**	**279.9147**	**.0016485**	**.1036902**
Stddev	.0016250	.032534	.0002793	.000548	2.3131	.0022589	.0014889
%RSD	.5189238	2.625162	13.22256	85.16963	.8263521	137.0250	1.435877
#1	.3131225	1.211382	.0018246	-.001261	278.8117	.0028694	.1036467
#2	.3115212	1.275036	.0023824	-.000454	282.5728	.0030342	.1052003
#3	.3147710	1.231525	.0021291	-.000215	278.3596	-.000958	.1022235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.822919**	**.0287948**	**.0003454**	**-.003803**	**-.000932**	**.7529968**	**.0147326**
Stddev	.036763	.0009812	.0003746	.000215	.001330	.0240401	.0019902
%RSD	2.016706	3.407616	108.4752	5.664549	142.6748	3.192590	13.50860
#1	1.861356	.0276896	.0001082	-.003825	-.000197	.7277066	.0151072
#2	1.788098	.0291311	.0007772	-.004007	-.000132	.7755531	.0125818
#3	1.819302	.0295635	.0001506	-.003578	-.002467	.7557308	.0165089

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3215-02 Acquired: 9/30/2025 21:17:00 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.649468**	**-.020133**	**.0664975**
Stddev	.005814	.004938	.0002042
%RSD	.2194228	24.52907	.3070906
#1	2.654041	-.024825	.0665033
#2	2.651437	-.020592	.0662904
#3	2.642926	-.014981	.0666987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7230.374**	**87067.66**	**5036.389**	**5733.611**	**7695.425**
Stddev	16.984	426.04	36.133	57.063	15.311
%RSD	.2348926	.4893168	.7174387	.9952406	.1989654
#1	7214.073	87068.73	5036.593	5727.948	7678.095
#2	7229.083	86641.09	5072.419	5679.590	7701.059
#3	7247.966	87493.16	5000.154	5793.294	7707.122

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169843TB Acquired: 9/30/2025 21:21:08 Type: Unk
Method: 6010-200.7 NEW(v228) 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	**-.000206**	**-.000721**	**-.000691**	**.0082355**	**.0017224**	**.0798752**
Stddev	.001887	.000755	.000678	.0017034	.0020774	.0199996
%RSD	915.8942	104.7618	98.13519	20.68415	120.6103	25.03858
#1	.001792	-.001147	-.000496	.0098140	.0021569	.0567831
#2	-.000451	.000151	-.000132	.0084624	-.000538	.0916457
#3	-.001958	-.001167	-.001446	.0064299	.003548	.0911968

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0264788**	**-.000304**	**.0000642**	**32.95304**	**.0012771**	**-.000060**
Stddev	.0022298	.000050	.0000540	.07913	.0005651	.000195
%RSD	8.420947	16.52910	84.17122	.2401379	44.24547	323.3933
#1	.0290115	-.000362	.0001078	32.93999	.0014196	-.000230
#2	.0248114	-.000279	.0000037	33.03789	.0017574	-.000103
#3	.0256134	-.000271	.0000811	32.88124	.0006545	.000152

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012945**	**.0087801**	**.8805060**	**4.046589**	**.0006564**	**-.001078**
Stddev	.0003049	.0048186	.0030140	.014864	.0002840	.000499
%RSD	23.54951	54.88119	.3423061	.3673180	43.26270	46.26504
#1	.0013639	.0142992	.8825422	4.036380	.0008802	-.000545
#2	.0015587	.0054090	.8819322	4.039745	.0003369	-.001156
#3	.0009609	.0066322	.8770436	4.063642	.0007520	-.001534

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.401617**	**.0016386**	**.0138640**	**1.915227**	**.0148844**	**.0006586**
Stddev	.042443	.0039839	.0002813	.051334	.0009131	.0002328
%RSD	3.028175	243.1252	2.029254	2.680291	6.134704	35.33996
#1	1.428070	.0047147	.0135439	1.885214	.0142030	.0007328
#2	1.424121	-.002862	.0140719	1.885966	.0145283	.0008453
#3	1.352661	.003063	.0139763	1.974500	.0159219	.0003978

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169843TB Acquired: 9/30/2025 21:21:08 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005358	-.003955	.5600838	.0151939	F 20.43858	-.028454
Stddev	.001182	.000632	.0193326	.0008676	.18260	.001508
%RSD	22.05240	15.99207	3.451724	5.710049	.8933873	5.300274
#1	-.006718	-.004674	.5378992	.0143247	20.24479	-.030150
#2	-.004767	-.003486	.5733279	.0160599	20.46353	-.027265
#3	-.004588	-.003704	.5690244	.0151972	20.60742	-.027946

Elem	Sr4077
Units	ppm
Avg	.0682362
Stddev	.0001677
%RSD	.2457684
#1	.0680428
#2	.0683241
#3	.0683416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7534.183	91686.81	4902.504	5927.471	8653.778
Stddev	21.099	551.31	13.979	45.376	17.144
%RSD	.2800425	.6012957	.2851499	.7655273	.1981044
#1	7519.607	91260.07	4886.368	5899.224	8650.050
#2	7524.565	92309.27	4910.190	5979.812	8638.806
#3	7558.377	91491.07	4910.955	5903.377	8672.479

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV08 Acquired: 9/30/2025 21:25:15 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.023913**	**5.209868**	**4.951620**	**5.075402**	**4.981979**	**9.671583**	**9.954865**
Stddev	.007236	.156947	.008566	.012425	.001765	.006150	.020099
%RSD	.1440391	3.012491	.1730000	.2447994	.0354260	.0635873	.2018972
#1	5.015735	5.039133	4.946052	5.061631	4.983820	9.676762	9.935784
#2	5.029487	5.242611	4.961484	5.085772	4.981815	9.673202	9.952965
#3	5.026517	5.347860	4.947324	5.078804	4.980302	9.664786	9.975846

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2546554**	**2.481756**	**24.65231**	**.9967076**	**2.471113**	**1.240223**	**4.917348**
Stddev	.0013258	.005091	.04341	.0059000	.005902	.001012	.039654
%RSD	.5206431	.2051334	.1760818	.5919507	.2388588	.0815750	.8064047
#1	.2543678	2.477846	24.60302	1.000108	2.468975	1.239298	4.962637
#2	.2561014	2.487513	24.66908	1.000120	2.477786	1.241303	4.900544
#3	.2534969	2.479909	24.68483	.989895	2.466577	1.240069	4.888863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.498076**	**24.55126**	**2.476348**	**1.241469**	**25.43564**	**2.491403**	**2.435161**
Stddev	.003259	.03747	.004293	.004686	.23856	.013696	.011263
%RSD	.1304530	.1526337	.1733676	.3774301	.9378863	.5497278	.4625208
#1	2.496887	24.52625	2.474152	1.243732	25.67415	2.483375	2.448151
#2	2.501763	24.59435	2.481295	1.244594	25.43572	2.483617	2.429225
#3	2.495580	24.53318	2.473597	1.236081	25.19703	2.507217	2.428108

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.04594**	**5.086908**	**4.959004**	**4.976348**	**4.933788**	**4.693752**	**4.946472**
Stddev	.08526	.017540	.003414	.015228	.010534	.015743	.028879
%RSD	.3152346	.3447996	.0688536	.3060070	.2135157	.3354018	.5838346
#1	27.10829	5.077206	4.959858	4.966121	4.928759	4.687551	4.914412
#2	27.08074	5.107155	4.961911	4.993849	4.945894	4.682054	4.954556
#3	26.94879	5.076364	4.955244	4.969074	4.926711	4.711651	4.970447

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV08 Acquired: 9/30/2025 21:25:15 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.152069**	**4.612574**	**4.982707**
Stddev	.031308	.003796	.078316
%RSD	.6076857	.0823056	1.571757
#1	5.116122	4.613216	4.996626
#2	5.166714	4.608498	5.053130
#3	5.173370	4.616009	4.898364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7318.387**	**86534.41**	**4870.805**	**5677.899**	**8005.698**
Stddev	2.743	389.48	22.253	42.784	9.682
%RSD	.0374850	.4500861	.4568656	.7535225	.1209437
#1	7317.828	86206.42	4868.009	5635.777	8010.434
#2	7315.965	86431.93	4850.081	5676.604	7994.559
#3	7321.366	86964.89	4894.323	5721.316	8012.101

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB08 Acquired: 9/30/2025 21:29:18 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000901**	**-.000742**	**-.000449**	**.0061940**	**.0011962**	**-.000910**
Stddev	.003036	.001691	.000787	.0023380	.0030580	.019167
%RSD	336.9452	227.8333	175.1167	37.74580	255.6388	2107.311
#1	-.000737	-.000197	-.000041	.0035749	.0046962	.013071
#2	.002050	-.002638	.000049	.0069367	-.000958	-.022759
#3	-.004016	.000609	-.001356	.0080704	-.000149	.006959

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001499**	**-.000098**	**-.000001**	**.0278507**	**-.000608**	**-.000268**
Stddev	.002028	.000070	.000062	.0255679	.000829	.000232
%RSD	135.3075	71.17398	6286.366	91.80332	136.3220	86.63452
#1	-.002839	-.000018	.000054	.0276347	.000296	-.000414
#2	.000834	-.000147	-.000068	.0023915	-.000789	-.000390
#3	-.002493	-.000130	.000012	.0535258	-.001332	-.000000

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000465**	**-.015415**	**-.000202**	**-.022657**	**.0005122**	**-.000944**
Stddev	.000449	.012486	.001188	.039771	.0003075	.000461
%RSD	96.55866	80.99649	587.8233	175.5382	60.03323	48.89398
#1	-.000080	-.027267	.000389	.013617	.0003908	-.001420
#2	-.000357	-.002380	.000574	-.016402	.0002840	-.000499
#3	-.000957	-.016598	-.001569	-.065185	.0008619	-.000912

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1.850026**	**.0000818**	**.0004732**	F **1.606326**	**-.000807**	**.0003329**
Stddev	.105096	.0085291	.0004735	.130637	.000972	.0001266
%RSD	5.680788	10429.05	100.0715	8.132676	120.4945	38.02648
#1	1.970757	.0055591	.0009503	1.705967	.000229	.0002615
#2	1.800296	.0044315	.0000033	1.654587	-.001700	.0004791
#3	1.779024	-.009745	.0004660	1.458425	-.000950	.0002581

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB08 Acquired: 9/30/2025 21:29:18 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107289	-.002715	.0002241	.0013992	F .0803013	F .0307428
Stddev	.0002421	.001851	.0067095	.0018837	.0009878	.0034755
%RSD	2.256283	68.17209	2994.309	134.6248	1.230115	11.30507
#1	.0105944	-.002536	-.004463	.0002288	.0814022	.0341514
#2	.0110084	-.000960	.007910	.0035721	.0794923	.0272041
#3	.0105840	-.004649	-.002774	.0003967	.0800094	.0308729

Elem	Sr4077
Units	ppm
Avg	.0000905
Stddev	.0001274
%RSD	140.7815
#1	-.000023
#2	.000228
#3	.000066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7487.348	88885.48	4852.695	5832.769	8878.457
Stddev	37.877	250.13	31.948	8.074	44.786
%RSD	.5058739	.2814055	.6583561	.1384231	.5044304
#1	7446.006	88601.09	4825.850	5826.911	8827.849
#2	7520.379	88984.04	4844.204	5841.979	8912.973
#3	7495.658	89071.32	4888.030	5829.418	8894.550

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09 Acquired: 9/30/2025 21:41:39 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006526**	**.0011821**	**.0162234**	**.0066890**	**.0102137**	**.0363928**	**.4175100**
Stddev	.0006952	.0026374	.0012238	.0004536	.0017106	.0142296	.0007430
%RSD	106.5406	223.1087	7.543584	6.781022	16.74810	39.10011	.1779703
#1	.0007950	.0040980	.0170688	.0062388	.0119601	.0265564	.4183300
#2	.0012656	-.001037	.0148200	.0066824	.0085413	.0299129	.4173186
#3	-.000103	.000485	.0167812	.0071458	.0101396	.0527091	.4168813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000305**	**-.000065**	**133.3958**	**.4956826**	**.0022578**	**.0291804**	**.1089973**
Stddev	.000010	.000038	.6861	.0030964	.0005232	.0008901	.0064609
%RSD	3.309038	57.83502	.5143439	.6246696	23.17424	3.050466	5.927602
#1	-.000296	-.000028	133.1660	.4925567	.0023519	.0301023	.1163166
#2	-.000303	-.000064	132.8540	.4987486	.0016939	.0283259	.1065880
#3	-.000316	-.000104	134.1673	.4957424	.0027275	.0291129	.1040871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006281**	**-.008950**	**.0006874**	**-.000746**	**57.06694**	**-.001205**	**.0181730**
Stddev	.0008050	.012063	.0002955	.000336	.51439	.003821	.0001807
%RSD	128.1757	134.7807	42.97790	45.06582	.9013883	317.0719	.9943188
#1	.0015575	-.012970	.0008510	-.000439	56.47758	.002623	.0179644
#2	.0001480	-.018490	.0003464	-.001105	57.29764	-.005019	.0182711
#3	.0001787	.004609	.0008649	-.000694	57.42560	-.001219	.0182834

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.8070**	**.0011239**	**.1754320**	**-.003513**	**-.004316**	**.0811017**	**.0253121**
Stddev	1.0369	.0012327	.0005604	.000104	.001227	.0070072	.0005785
%RSD	.9110753	109.6854	.3194221	2.955934	28.42646	8.640007	2.285613
#1	112.6808	.0009864	.1749130	-.003412	-.003191	.0890927	.0249488
#2	114.7221	-.000034	.1753568	-.003619	-.005624	.0782056	.0250083
#3	114.0181	.002420	.1760262	-.003507	-.004134	.0760069	.0259793

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09 Acquired: 9/30/2025 21:41:39 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.782175**	**.1142274**	**2.059728**
Stddev	.022351	.0064600	.019502
%RSD	.5909482	5.655412	.9468040
#1	3.776799	.1088317	2.052843
#2	3.763002	.1124646	2.044602
#3	3.806723	.1213858	2.081738

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7235.184**	**85226.49**	**4851.471**	**5633.612**	**7821.214**
Stddev	21.781	374.14	48.013	7.670	23.158
%RSD	.3010454	.4389914	.9896681	.1361440	.2960964
#1	7211.285	85574.87	4837.257	5640.095	7795.934
#2	7253.919	84831.04	4904.987	5625.145	7841.405
#3	7240.348	85273.54	4812.169	5635.596	7826.303

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09DUP Acquired: 9/30/2025 21:45:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017722**	**.0004156**	**.0171381**	**.0064273**	**.0086609**	**.0644388**	**.4471734**
Stddev	.0039552	.0023318	.0013543	.0003610	.0009405	.0163465	.0014843
%RSD	223.1873	561.0478	7.902286	5.617143	10.85970	25.36750	.3319299
#1	-.001849	.0031057	.0186982	.0063795	.0085731	.0623133	.4456561
#2	.005993	-.001028	.0162652	.0068098	.0077673	.0492590	.4472419
#3	.001173	-.000830	.0164509	.0060925	.0096422	.0817441	.4486223

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000359**	**-.000183**	**143.0190**	**.5294205**	**.0023145**	**.0315283**	**.1099147**
Stddev	.000009	.000058	.4451	.0016478	.0001401	.0006001	.0046364
%RSD	2.389505	31.75633	.3112421	.3112543	6.052518	1.903466	4.218221
#1	-.000350	-.000228	142.6531	.5287362	.0023447	.0309260	.1070567
#2	-.000366	-.000117	142.8893	.5282251	.0024370	.0315328	.1152642
#3	-.000361	-.000203	143.5145	.5313003	.0021618	.0321262	.1074230

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011152**	**-.011087**	**.0020558**	**-.001320**	**59.98705**	**-.000880**	**.0202403**
Stddev	.0008649	.053792	.0001681	.000954	.38930	.003817	.0001597
%RSD	77.55788	485.1754	8.177751	72.28035	.6489691	433.5358	.7892153
#1	.0001226	.050902	.0019595	-.001105	60.40597	.000436	.0204238
#2	.0015155	-.038673	.0022500	-.002363	59.63641	.002104	.0201651
#3	.0017074	-.045490	.0019580	-.000492	59.91878	-.005181	.0201320

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**119.4855**	**.0013652**	**.1882302**	**-.003481**	**-.004553**	**.0885702**	**.0260018**
Stddev	.2741	.0003998	.0007776	.000916	.002393	.0158915	.0008731
%RSD	.2294353	29.28430	.4131091	26.31251	52.56526	17.94221	3.357949
#1	119.7836	.0009326	.1891138	-.004205	-.003317	.0727094	.0258796
#2	119.2441	.0017211	.1876499	-.003787	-.007312	.0885092	.0269296
#3	119.4288	.0014420	.1879271	-.002451	-.003031	.1044921	.0251962

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09DUP Acquired: 9/30/2025 21:45:46 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.045308**	**.1274086**	**2.197865**
Stddev	.026129	.0036435	.006219
%RSD	.6459103	2.859678	.2829540
#1	4.066256	.1272080	2.197261
#2	4.016030	.1238695	2.191970
#3	4.053639	.1311482	2.204364

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7284.247**	**87272.85**	**4870.179**	**5700.737**	**7884.661**
Stddev	20.174	230.46	32.320	16.002	17.931
%RSD	.2769545	.2640680	.6636326	.2807054	.2274135
#1	7277.858	87494.68	4903.539	5718.916	7880.091
#2	7306.843	87289.24	4867.987	5688.783	7904.434
#3	7268.042	87034.63	4839.011	5694.512	7869.457

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09LX5 Acquired: 9/30/2025 21:49:53 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000862**	**-.000758**	**.0027020**	**.0051227**	**.0039472**	**.0315141**	**.0865970**
Stddev	.001261	.000909	.0015239	.0014869	.0018947	.0110130	.0036828
%RSD	146.2980	119.8939	56.39877	29.02635	48.00123	34.94616	4.252810
#1	.000591	-.001069	.0014266	.0043806	.0048776	.0360204	.0824971
#2	-.001664	-.001471	.0043896	.0068346	.0051969	.0395592	.0896248
#3	-.001512	.000265	.0022898	.0041529	.0017672	.0189626	.0876692

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000210**	**-.000185**	**28.10113**	**.1020160**	**.0002965**	**.0056650**	**.0085705**
Stddev	.000088	.000056	.15661	.0000864	.0001597	.0003710	.0076897
%RSD	41.90945	30.22835	.5573008	.0846688	53.85559	6.548892	89.72277
#1	-.000114	-.000179	28.23269	.1019470	.0004759	.0055815	.0086204
#2	-.000230	-.000133	28.14280	.1021129	.0002441	.0060707	.0008560
#3	-.000286	-.000244	27.92790	.1019882	.0001697	.0053429	.0162353

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007433**	**-.040422**	**.0003016**	**-.000824**	**10.95377**	**-.000626**	**.0037338**
Stddev	.0005414	.058423	.0003044	.001021	.02718	.004297	.0000401
%RSD	72.83336	144.5311	100.9457	123.9031	.2481664	686.0968	1.073959
#1	.0013552	-.056375	.0004853	.000352	10.92240	-.005352	.0037091
#2	.0005481	.024320	-.000050	-.001335	10.97045	.000426	.0037801
#3	.0003266	-.089212	.000469	-.001488	10.96846	.003047	.0037123

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.23941**	**-.002406**	**.0358830**	**-.005537**	**.0017489**	**.0318312**	**.0052171**
Stddev	.03320	.000595	.0003273	.000907	.0018543	.0135638	.0000900
%RSD	.1493063	24.74315	.9122448	16.38980	106.0246	42.61153	1.724752
#1	22.26168	-.002741	.0356366	-.005432	.0027999	.0303945	.0052680
#2	22.20124	-.001719	.0357581	-.004686	-.000392	.0190430	.0051132
#3	22.25530	-.002759	.0362544	-.006492	.002839	.0460562	.0052700

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09LX5 Acquired: 9/30/2025 21:49:53 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7308716	.0099117	.4229604
Stddev	.0042389	.0010813	.0033343
%RSD	.5799759	10.90900	.7883289
#1	.7334276	.0091461	.4255913
#2	.7259786	.0111487	.4240794
#3	.7332086	.0094404	.4192105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7521.104	90581.00	4888.014	5938.500	8474.681
Stddev	18.606	290.06	35.025	18.336	19.963
%RSD	.2473812	.3202248	.7165387	.3087674	.2355596
#1	7539.920	90852.66	4860.218	5959.164	8496.712
#2	7502.716	90614.84	4876.472	5932.163	8457.792
#3	7520.676	90275.50	4927.353	5924.173	8469.539

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09MS Acquired: 9/30/2025 21:54:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7254654	1.827444	.8616246	1.818924	.7180326	1.759471	.4495119
Stddev	.0036571	.030004	.0015237	.004093	.0025084	.011952	.0028127
%RSD	.5041006	1.641878	.1768361	.2250148	.3493391	.6792905	.6257164
#1	.7262705	1.859980	.8633513	1.823444	.7199764	1.758054	.4509637
#2	.7214728	1.821488	.8610541	1.815470	.7152011	1.772068	.4513020
#3	.7286528	1.800865	.8604686	1.817857	.7189204	1.748291	.4462700

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1802326	.1746213	87.64588	.6911889	.1789989	.2839694	2.834952
Stddev	.0026655	.0002901	.07893	.0005848	.0001816	.0003186	.057586
%RSD	1.478942	.1661344	.0900512	.0846082	.1014611	.1121789	2.031290
#1	.1801431	.1749197	87.66030	.6918641	.1792082	.2837532	2.830887
#2	.1829417	.1743402	87.71660	.6908608	.1789048	.2843352	2.779507
#3	.1776129	.1746039	87.56074	.6908419	.1788837	.2838196	2.894464

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1799310	1.699874	.4411824	.0624587	40.18816	.2675521	.1965510
Stddev	.0013526	.006761	.0001947	.0002531	.61614	.0019249	.0006980
%RSD	.7517588	.3977241	.0441420	.4052621	1.533140	.7194564	.3551369
#1	.1814917	1.699796	.4413969	.0626557	39.93933	.2692813	.1959410
#2	.1792032	1.693152	.4411336	.0621732	39.73535	.2678971	.1973122
#3	.1790981	1.706673	.4410167	.0625472	40.88981	.2654781	.1963997

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	83.59528	.2545587	.4900446	.6281728	.1728183	.8007523	5.288994
Stddev	1.09485	.0043483	.0007912	.0026129	.0011185	.0135086	.021008
%RSD	1.309699	1.708169	.1614586	.4159528	.6471828	1.686983	.3972038
#1	83.37194	.2541340	.4909144	.6265943	.1719575	.7974983	5.310109
#2	82.62932	.2591037	.4893675	.6267352	.1740825	.8155906	5.268095
#3	84.78457	.2504383	.4898518	.6311888	.1724149	.7891679	5.288777

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09MS Acquired: 9/30/2025 21:54:02 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.372339**	**.2274489**	**1.503694**
Stddev	.010579	.0028470	.002295
%RSD	.4459363	1.251733	.1526307
#1	2.381907	.2254732	1.501572
#2	2.360978	.2307123	1.503378
#3	2.374133	.2261612	1.506130

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7364.553**	**83833.88**	**4850.015**	**5593.834**	**8090.688**
Stddev	32.818	799.70	27.589	59.155	33.540
%RSD	.4456199	.9539110	.5688481	1.057501	.4145475
#1	7391.412	84234.28	4871.718	5649.354	8119.741
#2	7327.972	84354.30	4818.967	5600.535	8053.984
#3	7374.274	82913.07	4859.359	5531.615	8098.339

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09MSD Acquired: 9/30/2025 21:58:00 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7804227	2.009462	.9384440	1.964515	.7774900	1.886003	.7048747
Stddev	.0006483	.051221	.0037939	.008881	.0011691	.020427	.0043158
%RSD	.0830649	2.549001	.4042784	.4520511	.1503660	1.083092	.6122749
#1	.7803420	2.039240	.9428185	1.974440	.7783675	1.870756	.7092747
#2	.7811075	1.950317	.9364600	1.957319	.7761628	1.909212	.7047012
#3	.7798185	2.038829	.9360534	1.961788	.7779396	1.878042	.7006483

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1888212	.1901524	165.7696	.9961949	.1948460	.3186756	3.063699
Stddev	.0014392	.0003997	.2685	.0020259	.0001786	.0003668	.011788
%RSD	.7621930	.2101985	.1619931	.2033682	.0916736	.1151031	.3847775
#1	.1878625	.1906035	165.7294	.9951006	.1950066	.3186268	3.065524
#2	.1904761	.1900114	166.0559	.9949515	.1948779	.3190644	3.051104
#3	.1881250	.1898423	165.5234	.9985327	.1946536	.3183357	3.074468

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1921736	1.819232	.4784076	.0594195	74.52419	.2826205	.2188333
Stddev	.0022481	.032387	.0012138	.0009242	.57333	.0040283	.0003922
%RSD	1.169800	1.780260	.2537069	1.555309	.7693195	1.425337	.1792384
#1	.1905183	1.792739	.4796293	.0593815	75.14582	.2806950	.2189942
#2	.1947329	1.855337	.4783916	.0585150	74.01618	.2799163	.2191195
#3	.1912695	1.809619	.4772019	.0603621	74.41057	.2872502	.2183862

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.2092	.2711212	.6180744	.6961942	.1830122	.8706693	5.895139
Stddev	.8278	.0039206	.0014930	.0019637	.0036420	.0369796	.038877
%RSD	.5438433	1.446086	.2415523	.2820615	1.990008	4.247262	.6594723
#1	152.7120	.2687115	.6197721	.6972843	.1831224	.9001222	5.928081
#2	151.2538	.2756451	.6169661	.6939273	.1865978	.8291681	5.852257
#3	152.6618	.2690068	.6174850	.6973710	.1793164	.8827176	5.905079

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09MSD Acquired: 9/30/2025 21:58:00 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.715024**	**.3227086**	**2.734084**
Stddev	.031568	.0025444	.012194
%RSD	.6695280	.7884561	.4460092
#1	4.740617	.3204609	2.737219
#2	4.679748	.3254711	2.744405
#3	4.724707	.3221939	2.720629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7191.423**	**84874.15**	**4895.766**	**5577.242**	**7747.932**
Stddev	6.591	276.48	28.652	22.476	5.551
%RSD	.0916518	.3257503	.5852384	.4029902	.0716448
#1	7189.161	84708.50	4902.615	5558.925	7745.765
#2	7186.261	85193.32	4864.311	5602.323	7743.791
#3	7198.847	84720.63	4920.374	5570.477	7754.240

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09A Acquired: 9/30/2025 22:01:58 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1223793	.4077830	.1610012	.3339090	.1921328	.0851118	.4209600
Stddev	.0538604	.1577841	.0600850	.1312093	.0775943	.0056568	.0025397
%RSD	44.01102	38.69316	37.31962	39.29492	40.38574	6.646378	.6033083
#1	.0699644	.2529016	.1027482	.2083097	.1196806	.0827663	.4192737
#2	.1195961	.4021294	.1574910	.3233295	.1827096	.0810050	.4197254
#3	.1775772	.5683179	.2227644	.4700877	.2740084	.0915642	.4238810

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081201	.0288938	133.4027	.5034494	.0304971	.0718857	.1514855
Stddev	.0016891	.0124368	.4954	.0045297	.0124673	.0186669	.0131678
%RSD	20.80147	43.04318	.3713222	.8997362	40.88035	25.96748	8.692458
#1	.0064795	.0170604	132.8671	.4997550	.0186847	.0542067	.1384545
#2	.0080269	.0277642	133.4964	.5020901	.0292771	.0700460	.1512161
#3	.0098538	.0418569	133.8444	.5085032	.0435297	.0914043	.1647860

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031845	.0123910	.0727571	.0034262	55.72958	.0017165	.0264267
Stddev	.0021582	.0553853	.0317152	.0010473	.07443	.0050082	.0012645
%RSD	67.76953	446.9810	43.59052	30.56699	.1335496	291.7628	4.785104
#1	.0024997	-.010660	.0425932	.0022476	55.81329	.0069091	.0250943
#2	.0014519	-.027746	.0698540	.0037807	55.70455	-.003084	.0265757
#3	.0056020	.075579	.1058240	.0042501	55.67089	.001325	.0276102

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	111.2598	.0149429	.2675212	.1463165	.0002808	.1241298	.9501493
Stddev	.1909	.0036350	.0391753	.0672837	.0023329	.0111386	.3955497
%RSD	.1715723	24.32560	14.64382	45.98500	830.7387	8.973327	41.63027
#1	111.0608	.0112221	.2301201	.0830732	-.001378	.1115852	.5720157
#2	111.4414	.0151212	.2641860	.1388575	.002948	.1279440	.9173585
#3	111.2773	.0184854	.3082575	.2170189	-.000728	.1328602	1.361074

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3199-09A Acquired: 9/30/2025 22:01:58 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.787379**	**.1225823**	**2.057862**
Stddev	.007114	.0012397	.002188
%RSD	.1878409	1.011338	.1063102
#1	3.790359	.1211535	2.055400
#2	3.792519	.1232209	2.058603
#3	3.779259	.1233726	2.059582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7154.693**	**86941.06**	**4822.107**	**5626.000**	**7735.355**
Stddev	19.472	280.97	23.948	20.023	18.469
%RSD	.2721562	.3231713	.4966319	.3559087	.2387639
#1	7144.788	86939.71	4820.102	5623.265	7723.399
#2	7177.127	87222.70	4846.994	5647.251	7756.627
#3	7142.166	86660.76	4799.224	5607.485	7726.039

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169917BL Acquired: 9/30/2025 22:06:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.0000087	.0003225	-.001156	.0059948	.0021008	.0271207
Stddev	.0015434	.0006174	.001283	.0034101	.0033890	.0132786
%RSD	17843.74	191.4425	110.9782	56.88375	161.3216	48.96104
#1	-.001624	-.000101	.000289	.0021050	.0059437	.0141931
#2	.000206	.000038	-.002161	.0084694	-.000461	.0407244
#3	.001444	.001031	-.001598	.0074099	.000819	.0264446

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006031	-.000171	-.000123	-.022226	-.000358	-.000416
Stddev	.0005728	.000076	.000223	.034364	.000450	.000342
%RSD	94.97364	44.15117	182.1487	154.6141	125.7019	82.27841
#1	.0000712	-.000120	-.000067	.005614	-.000536	-.000199
#2	.0012095	-.000258	.000067	-.060633	.000154	-.000238
#3	.0005286	-.000135	-.000369	-.011659	-.000693	-.000810

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000300	-.009782	.0004296	.0121543	-.000053	.0001075
Stddev	.000109	.016014	.0009264	.0285505	.000127	.0001843
%RSD	36.15503	163.7044	215.6349	234.9000	241.1149	171.3752
#1	-.000398	-.027138	.0003003	.0147777	-.000198	.0003010
#2	-.000183	.004422	-.000425	.0393026	.000039	.0000877
#3	-.000319	-.006630	.001414	-.017617	.000000	-.000066

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.180653	.0041829	.0000648	-.278855	-.005334	.0004095
Stddev	.028076	.0031538	.0003835	.028462	.000223	.0003428
%RSD	15.54145	75.39737	591.3876	10.20692	4.185828	83.70122
#1	-.212921	.0019761	.0005074	-.246854	-.005256	.0006189
#2	-.167221	.0077951	-.000169	-.301342	-.005586	.0000140
#3	-.161815	.0027775	-.000144	-.288368	-.005161	.0005956

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169917BL Acquired: 9/30/2025 22:06:02 Type: Unk
Method: 6010-200.7 NEW(v228) 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	-.005661	-.000191	-.004278	-.000306	.0059047	F -.024655
Stddev	.000655	.002226	.027152	.000489	.0025354	.002538
%RSD	11.56187	1164.863	634.6106	159.7156	42.93937	10.29421
#1	-.006042	.000813	.026958	-.000729	.0040852	-.021734
#2	-.004905	.001356	-.022221	-.000420	.0088008	-.025916
#3	-.006036	-.002742	-.017573	.000230	.0048282	-.026316

Elem	Sr4077
Units	ppm
Avg	-.000221
Stddev	.000248
%RSD	112.0631
#1	-.000004
#2	-.000168
#3	-.000491

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7595.292	93110.91	4888.967	5981.066	9036.404
Stddev	21.301	347.03	19.978	34.438	10.565
%RSD	.2804545	.3727094	.4086414	.5757806	.1169203
#1	7585.862	93127.09	4887.788	5995.303	9040.563
#2	7619.681	93449.56	4909.509	6006.102	9044.257
#3	7580.334	92756.07	4869.604	5941.793	9024.392

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169917BS Acquired: 9/30/2025 22:10:13 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.7486251	1.884118	.8822035	1.898365	.7560506	1.836833
Stddev	.0014364	.050098	.0018401	.004235	.0023910	.015288
%RSD	.1918726	2.658989	.2085845	.2230683	.3162493	.8322788
#1	.7469851	1.939098	.8808342	1.897315	.7587080	1.841434
#2	.7496594	1.841048	.8814811	1.903026	.7553707	1.819774
#3	.7492310	1.872207	.8842952	1.894754	.7540732	1.849292

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824033	.1894430	.1761989	.9302639	.3676150	.1791760
Stddev	.0044518	.0019848	.0002620	.0038762	.0013254	.0005407
%RSD	2.440629	1.047699	.1486657	.4166818	.3605428	.3017747
#1	.1873493	.1905947	.1763722	.9278739	.3683332	.1794433
#2	.1811434	.1905832	.1758976	.9281815	.3684264	.1795310
#3	.1787173	.1871512	.1763269	.9347363	.3660855	.1785537

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2848430	2.625818	.1901140	1.896946	.4477416	.0670202
Stddev	.0005474	.017774	.0018958	.051447	.0002549	.0003605
%RSD	.1921633	.6768751	.9972014	2.712071	.0569297	.5379237
#1	.2845847	2.605463	.1883922	1.934619	.4474481	.0671684
#2	.2844726	2.633725	.1921456	1.917889	.4478697	.0666092
#3	.2854717	2.638267	.1898041	1.838332	.4479071	.0672830

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.273144	.2758527	.1842420	F 7.917487	.2649292	.3878976
Stddev	.016405	.0065028	.0004649	.113922	.0041184	.0008438
%RSD	.7217074	2.357341	.2523209	1.438862	1.554529	.2175330
#1	2.279119	.2833601	.1839817	7.829570	.2666573	.3886430
#2	2.285725	.2719716	.1847787	7.876704	.2679020	.3869815
#3	2.254588	.2722265	.1839657	8.046187	.2602283	.3880684

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169917BS Acquired: 9/30/2025 22:10:13 Type: Unk
Method: 6010-200.7 NEW(v228) 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	.6387531	.1813022	F .7458934	5.166883	F .0017423	F .1472432
Stddev	.0010314	.0013991	.0098237	.018521	.0003789	.0053469
%RSD	.1614701	.7716688	1.317042	.3584525	21.74482	3.631318
#1	.6396558	.1814822	.7346511	5.182520	.0015029	.1444323
#2	.6389746	.1798218	.7528240	5.146430	.0021790	.1438881
#3	.6376289	.1826025	.7502050	5.171699	.0015448	.1534093

Elem	Sr4077
Units	ppm
Avg	.1791225
Stddev	.0009135
%RSD	.5099630
#1	.1785612
#2	.1801765
#3	.1786298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7439.133	91794.60	4873.347	5909.719	8588.629
Stddev	24.540	395.33	61.814	5.505	24.061
%RSD	.3298768	.4306730	1.268418	.0931579	.2801544
#1	7456.592	91884.39	4849.203	5915.958	8602.817
#2	7449.733	91362.09	4827.249	5905.542	8602.222
#3	7411.075	92137.31	4943.590	5907.658	8560.847

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV09 Acquired: 9/30/2025 22:14:14 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.943808**	**5.195617**	**4.856222**	**4.966500**	**4.922602**	**9.682095**	**9.955645**
Stddev	.017098	.195618	.012931	.019387	.012891	.046558	.039987
%RSD	.3458416	3.765061	.2662727	.3903587	.2618722	.4808700	.4016512
#1	4.943288	5.072257	4.852350	4.958470	4.920131	9.681704	10.00112
#2	4.926977	5.093427	4.845670	4.952417	4.911126	9.728847	9.92598
#3	4.961160	5.421166	4.870647	4.988611	4.936550	9.635733	9.93983

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2545963**	**2.432497**	**24.60224**	**.9854069**	**2.432758**	**1.223691**	**4.873345**
Stddev	.0022711	.006281	.08452	.0009313	.005958	.003425	.002467
%RSD	.8920434	.2582249	.3435528	.0945076	.2449185	.2799166	.0506247
#1	.2558881	2.430963	24.60361	.9843615	2.432549	1.224874	4.874277
#2	.2559268	2.427125	24.68606	.9861477	2.426908	1.219831	4.870547
#3	.2519739	2.439403	24.51704	.9857116	2.438819	1.226368	4.875210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.501999**	**24.51303**	**2.432682**	**1.238554**	**23.78373**	**2.478669**	**2.434788**
Stddev	.011060	.09572	.005602	.001050	.24664	.007891	.012008
%RSD	.4420565	.3905040	.2302928	.0847607	1.037006	.3183588	.4931964
#1	2.514393	24.62356	2.432291	1.239732	24.05247	2.479945	2.441053
#2	2.493132	24.45773	2.427285	1.238212	23.56772	2.470218	2.442369
#3	2.498473	24.45780	2.438469	1.237717	23.73101	2.485844	2.420943

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.26419**	**5.117030**	**4.931752**	**4.889412**	**4.927612**	**4.699750**	**4.910357**
Stddev	.15094	.040889	.011250	.015632	.019161	.041848	.043871
%RSD	.5747147	.7990839	.2281149	.3197067	.3888459	.8904311	.8934377
#1	26.31166	5.131673	4.930612	4.885809	4.948967	4.678445	4.879980
#2	26.09522	5.148582	4.921115	4.875897	4.911923	4.672841	4.890438
#3	26.38570	5.070835	4.943528	4.906531	4.921945	4.747964	4.960654

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV09 Acquired: 9/30/2025 22:14:14 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.952891**	**4.593206**	**4.938334**
Stddev	.054870	.017253	.049113
%RSD	1.107836	.3756139	.9945264
#1	4.915534	4.612174	4.909422
#2	4.927251	4.578447	4.910538
#3	5.015887	4.588997	4.995041

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7180.783**	**85165.45**	**4751.617**	**5630.865**	**7904.339**
Stddev	15.745	483.11	18.146	17.162	20.269
%RSD	.2192709	.5672631	.3818864	.3047776	.2564319
#1	7197.090	85172.70	4732.188	5611.880	7925.370
#2	7179.594	85644.89	4754.536	5645.277	7902.719
#3	7165.666	84678.75	4768.126	5635.439	7884.929

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB09 Acquired: 9/30/2025 22:18:19 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001411**	**-.000607**	**-.001534**	**.0078062**	**.0006709**	**.0027498**
Stddev	.001523	.000876	.001545	.0029678	.0018544	.0323436
%RSD	107.9383	144.2013	100.6855	38.01863	276.4161	1176.193
#1	-.000122	.000072	-.003308	.0112271	-.001274	.0232079
#2	-.001019	-.000298	-.000481	.0059185	.000868	.0195802
#3	-.003092	-.001595	-.000814	.0062732	.002419	-.034539

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000502**	**-.000050**	**-.000141**	**-.005976**	**-.000291**	**-.000499**
Stddev	.002975	.000054	.000174	.016551	.000584	.000382
%RSD	592.5590	108.0473	122.7510	276.9500	200.6875	76.52494
#1	.000414	.000009	-.000321	.012875	-.000779	-.000671
#2	-.003827	-.000097	.000026	-.012678	.000356	-.000765
#3	.001907	-.000063	-.000130	-.018126	-.000451	-.000061

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000455**	**-.011774**	**.0003388**	**-.052624**	**.0001393**	**-.000182**
Stddev	.000468	.006571	.0015333	.010468	.0005270	.000353
%RSD	102.7380	55.81152	452.6233	19.89176	378.2820	193.7674
#1	-.000719	-.018495	.0020573	-.064464	-.000108	-.000173
#2	-.000732	-.005362	-.000889	-.044597	.000745	-.000539
#3	.000085	-.011466	-.000152	-.048813	-.000219	.000166

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9752206**	**-.002045**	**.0016638**	F **1.248241**	**-.000413**	**.0001023**
Stddev	.0210447	.006854	.0003807	.072913	.001079	.0001036
%RSD	2.157942	335.1966	22.88257	5.841286	261.1873	101.1825
#1	.9963892	-.008285	.0020814	1.210215	-.000610	.0001126
#2	.9749705	.005292	.0015743	1.202202	-.001381	-.000006
#3	.9543021	-.003141	.0013359	1.332307	.000751	.000200

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB09 Acquired: 9/30/2025 22:18:19 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0226551	.0025356	-.001013	.0000754	F .0453790	F .0158345
Stddev	.0001773	.0032319	.031484	.0010677	.0020167	.0015729
%RSD	.7826011	127.4629	3108.127	1416.226	4.444152	9.933406
#1	.0225710	.0062569	-.030070	-.000034	.0467764	.0152714
#2	.0225354	.0009183	.032436	-.000933	.0462936	.0176115
#3	.0228588	.0004316	-.005405	.001194	.0430671	.0146207

Elem	Sr4077
Units	ppm
Avg	-.000127
Stddev	.000337
%RSD	265.9167
#1	-.000076
#2	.000182
#3	-.000486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7263.828	88356.28	4702.441	5758.089	8566.133
Stddev	22.393	129.60	15.552	32.788	28.947
%RSD	.3082749	.1466769	.3307267	.5694222	.3379274
#1	7289.047	88282.18	4689.818	5764.175	8597.446
#2	7246.276	88280.74	4697.691	5722.685	8540.349
#3	7256.162	88505.93	4719.815	5787.408	8560.604

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-08 Acquired: 9/30/2025 22:22:31 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002127**	**.0008276**	**.0020607**	**.0076553**	**.0018769**	**.0510223**	**.1548045**
Stddev	.002096	.0020017	.0011698	.0021149	.0014220	.0146872	.0024847
%RSD	98.54983	241.8572	56.76749	27.62673	75.76390	28.78594	1.605045
#1	-.000912	.0019007	.0033757	.0100883	.0003099	.0451222	.1547780
#2	-.004548	.0020641	.0011356	.0066213	.0030853	.0402025	.1523332
#3	-.000922	-.001482	.0016709	.0062563	.0022355	.0677421	.1573024

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000226**	**-.000106**	**2.487708**	**.0014719**	**.0003551**	**.0008842**	**.0039099**
Stddev	.000073	.000173	.030808	.0007946	.0004266	.0010017	.0112436
%RSD	32.36216	162.3988	1.238428	53.98370	120.1578	113.2780	287.5659
#1	-.000148	.000023	2.512669	.0007570	.0000020	-.000272	.0167912
#2	-.000293	-.000303	2.453276	.0023274	.0002340	.001478	-.001126
#3	-.000236	-.000039	2.497180	.0013314	.0008291	.001447	-.003935

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0531388**	**.2559640**	**.0055220**	**-.000957**	**244.8878**	**-.005219**	**.0601553**
Stddev	.0022835	.0037364	.0003619	.000761	2.8614	.001869	.0004789
%RSD	4.297265	1.459731	6.554820	79.58039	1.168450	35.81715	.7961771
#1	.0553085	.2582026	.0052225	-.001371	247.4435	-.003219	.0606871
#2	.0507563	.2516506	.0054193	-.000078	241.7964	-.006922	.0600210
#3	.0533518	.2580388	.0059242	-.001421	245.4234	-.005517	.0597579

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2717272**	**.0219925**	**.0004603**	**-.005052**	**-.000174**	**.1438156**	**.0090182**
Stddev	.0237830	.0008443	.0000814	.000806	.003053	.0052756	.0012750
%RSD	8.752525	3.838935	17.67368	15.94470	1759.401	3.668283	14.13795
#1	.2989284	.0210339	.0004643	-.004347	.000228	.1457344	.0078826
#2	.2613983	.0226256	.0005397	-.005930	.002659	.1478633	.0087745
#3	.2548550	.0223178	.0003771	-.004880	-.003408	.1378492	.0103974

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-08 Acquired: 9/30/2025 22:22:31 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2439117	-.023565	.0118074
Stddev	.0034573	.000747	.0002689
%RSD	1.417436	3.170152	2.277133
#1	.2446901	-.023261	.0120871
#2	.2469135	-.024417	.0115509
#3	.2401316	-.023019	.0117843

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7183.671	83147.42	4778.571	5533.898	7748.353
Stddev	16.368	269.79	20.354	32.815	17.682
%RSD	.2278559	.3244759	.4259457	.5929788	.2282012
#1	7165.054	82841.16	4768.278	5497.650	7728.521
#2	7190.159	83349.96	4765.419	5561.581	7754.065
#3	7195.801	83251.15	4802.016	5542.465	7762.472

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-16 Acquired: 9/30/2025 22:26:40 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002815**	**-.001193**	**.0038668**	**.0084449**	**.0036899**	**.0920561**	**.2216430**
Stddev	.002300	.001241	.0014051	.0025478	.0027804	.0289359	.0032666
%RSD	81.69782	104.0562	36.33667	30.16947	75.35207	31.43294	1.473812
#1	-.003945	-.001127	.0038137	.0055113	.0062005	.1217356	.2178711
#2	-.000169	-.002465	.0024890	.0101036	.0007015	.0639260	.2235220
#3	-.004332	.000014	.0052977	.0097197	.0041678	.0905066	.2235360

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000187**	**-.000086**	**.4854744**	**.0004656**	**.0003511**	**.0014138**	**-.002989**
Stddev	.000073	.000060	.0062427	.0002691	.0005290	.0004798	.010382
%RSD	39.30286	69.81060	1.285889	57.79130	150.6731	33.93579	347.3200
#1	-.000105	-.000026	.4862002	.0006704	.0001448	.0019146	-.001157
#2	-.000247	-.000146	.4789005	.0005654	.0009522	.0009583	-.014166
#3	-.000208	-.000087	.4913224	.0001609	-.000044	.0013686	.006355

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0187258**	**.1321563**	**.0010918**	**-.000786**	**267.7093**	**-.001849**	**.1070540**
Stddev	.0008923	.0183741	.0003782	.000505	2.5896	.006717	.0001947
%RSD	4.765295	13.90330	34.64507	64.21445	.9673185	363.3040	.1818842
#1	.0197532	.1467213	.0015195	-.000823	265.0811	-.007366	.1070098
#2	.0181443	.1382343	.0008013	-.000264	267.7883	-.003813	.1068852
#3	.0182799	.1115133	.0009545	-.001272	270.2584	.005631	.1072670

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1840165**	**.0258976**	**.0003439**	**-.005510**	**.0024987**	**.0715062**	**.0079029**
Stddev	.0444497	.0006815	.0003355	.000449	.0011777	.0309822	.0005506
%RSD	24.15526	2.631717	97.56214	8.155756	47.13346	43.32799	6.966642
#1	.2336508	.0266767	.0005867	-.005349	.0023716	.0840882	.0083214
#2	.1478813	.0256040	.0004839	-.006018	.0013896	.0362123	.0081080
#3	.1705173	.0254120	-.000039	-.005164	.0037347	.0942179	.0072792

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-16 Acquired: 9/30/2025 22:26:40 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2833409	-.020207	.0051403
Stddev	.0013108	.001759	.0003049
%RSD	.4626091	8.705571	5.932273
#1	.2819968	-.018191	.0049947
#2	.2846155	-.021434	.0054907
#3	.2834104	-.020995	.0049355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7257.779	86414.55	4808.108	5674.102	7758.497
Stddev	42.819	311.12	20.915	42.558	45.555
%RSD	.5899739	.3600281	.4350037	.7500383	.5871626
#1	7222.345	86763.35	4784.175	5720.707	7722.497
#2	7245.634	86314.66	4817.265	5664.296	7743.281
#3	7305.359	86165.65	4822.882	5637.303	7809.712

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24 Acquired: 9/30/2025 22:30:49 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000131**	**-.000817**	**.0110535**	**.0084889**	**.0031738**	**.0754884**	**.4115841**
Stddev	.000800	.002176	.0017533	.0012206	.0004127	.0297770	.0017625
%RSD	611.6489	266.4817	15.86215	14.37858	13.00480	39.44581	.4282200
#1	-.000533	-.001095	.0108687	.0095173	.0031523	.0503871	.4129063
#2	.000791	-.002841	.0093999	.0071401	.0035969	.0676892	.4095832
#3	-.000651	.001485	.0128919	.0088094	.0027722	.1083888	.4122629

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000112**	**.0002720**	**3.397751**	**.0006114**	**.0000285**	**.0011740**	**.0173994**
Stddev	.000107	.0000624	.027094	.0004774	.0003317	.0007463	.0181606
%RSD	95.65010	22.94456	.7974093	78.08969	1164.006	63.56820	104.3745
#1	-.000016	.0003067	3.417472	.0006764	-.000354	.0003815	.0074451
#2	-.000228	.0002000	3.366858	.0001048	.000225	.0018635	.0063925
#3	-.000093	.0003094	3.408924	.0010530	.000215	.0012771	.0383607

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0232188**	**.6738417**	**.0021722**	**-.001625**	**444.4612**	**.0040821**	**.2712527**
Stddev	.0007295	.0127442	.0004201	.000976	1.7862	.0042761	.0007000
%RSD	3.141879	1.891279	19.33975	60.06427	.4018770	104.7513	.2580692
#1	.0240076	.6806202	.0023143	-.002310	445.5118	.0089857	.2716583
#2	.0225684	.6591408	.0016995	-.000507	445.4729	.0021318	.2704443
#3	.0230803	.6817642	.0025029	-.002059	442.3988	.0011289	.2716553

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.308303**	**.0480265**	**.0008843**	**-.004976**	**.0016938**	**.0895532**	**.0188000**
Stddev	.103892	.0008462	.0003117	.000288	.0007157	.0194856	.0003259
%RSD	7.941007	1.762007	35.24484	5.791771	42.25265	21.75870	1.733790
#1	1.192826	.0478886	.0005299	-.005130	.0016579	.0675295	.0189123
#2	1.394191	.0489332	.0011155	-.005154	.0009967	.1045532	.0190550
#3	1.337892	.0472576	.0010076	-.004643	.0024267	.0965769	.0184328

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24 Acquired: 9/30/2025 22:30:49 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4455059	-.016268	.0171877
Stddev	.0027738	.002862	.0000856
%RSD	.6226228	17.59526	.4979262
#1	.4428180	-.013336	.0171925
#2	.4483583	-.019055	.0170999
#3	.4453414	-.016413	.0172708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7210.570	83708.79	4833.223	5577.743	7663.259
Stddev	13.510	362.08	28.505	33.910	8.952
%RSD	.1873578	.4325446	.5897690	.6079451	.1168212
#1	7213.601	83297.77	4864.621	5561.661	7659.141
#2	7222.307	83847.97	4826.078	5616.701	7673.530
#3	7195.803	83980.62	4808.971	5554.866	7657.108

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24DUP Acquired: 9/30/2025 22:35:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003321**	**-.000301**	**.0123659**	**.0074484**	**.0035533**	**.0949626**	**.4525480**
Stddev	.001125	.003160	.0013583	.0026885	.0024056	.0188763	.0036860
%RSD	33.87137	1051.054	10.98390	36.09460	67.70003	19.87761	.8144999
#1	-.002091	.001202	.0121477	.0057801	.0040970	.0865389	.4496992
#2	-.003575	-.003932	.0111299	.0105498	.0009224	.0817648	.4567110
#3	-.004298	.001828	.0138200	.0060154	.0056405	.1165841	.4512338

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**.0001428**	**3.734911**	**.0009374**	**.0003742**	**.0006124**	**.0175317**
Stddev	.000011	.0000509	.032340	.0008643	.0002032	.0004893	.0130915
%RSD	15.42095	35.64959	.8658769	92.19577	54.30305	79.89918	74.67341
#1	-.000067	.0001456	3.724034	.0008640	.0005860	.0010723	.0305868
#2	-.000084	.0000905	3.709412	.0018360	.0003557	.0006667	.0176043
#3	-.000064	.0001922	3.771287	.0001122	.0001809	.0000982	.0044040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254794**	**.7712947**	**.0025730**	**-.001051**	**474.9695**	**-.002903**	**.2945315**
Stddev	.0007634	.0311358	.0002477	.000665	4.4117	.005405	.0018440
%RSD	2.996295	4.036819	9.628132	63.21762	.9288283	186.1797	.6260938
#1	.0254081	.7493700	.0022965	-.000467	470.2397	-.008108	.2964543
#2	.0247541	.8069333	.0027749	-.001774	475.6960	-.003284	.2927779
#3	.0262760	.7575808	.0026475	-.000913	478.9728	.002682	.2943625

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.657363**	**.0553445**	**.0002662**	**-.004425**	**.0000515**	**.1054479**	**.0205214**
Stddev	.094906	.0011876	.0002068	.000936	.0003727	.0314551	.0019042
%RSD	5.726343	2.145853	77.68618	21.15230	723.2152	29.82998	9.279303
#1	1.605252	.0552755	.0000348	-.005505	.0002537	.0712722	.0226794
#2	1.599929	.0565651	.0004328	-.003906	-.000379	.1118848	.0198080
#3	1.766908	.0541929	.0003310	-.003863	.000279	.1331866	.0190770

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24DUP Acquired: 9/30/2025 22:35:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4927265	-.024676	.0189200
Stddev	.0036225	.000966	.0002362
%RSD	.7351879	3.915452	1.248600
#1	.4898763	-.024333	.0186924
#2	.4915003	-.025766	.0189034
#3	.4968030	-.023928	.0191640

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7257.546	84902.96	4801.815	5691.384	7690.017
Stddev	21.527	306.05	42.647	30.635	23.708
%RSD	.2966105	.3604728	.8881380	.5382760	.3082894
#1	7282.318	84555.68	4788.685	5656.233	7717.369
#2	7246.934	85133.31	4767.277	5705.520	7675.363
#3	7243.386	85019.89	4849.483	5712.400	7677.319

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24LX5 Acquired: 9/30/2025 22:39:23 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001231**	**-.000122**	**.0020091**	**.0061042**	**.0020284**	**.0473003**	**.0890951**
Stddev	.001881	.000623	.0017630	.0017205	.0004557	.0086038	.0018903
%RSD	152.8690	511.1775	87.74680	28.18527	22.46805	18.18983	2.121656
#1	-.000065	.000362	.0040214	.0078663	.0015892	.0437962	.0869224
#2	-.003401	.000097	.0007363	.0044285	.0024991	.0571032	.0900005
#3	-.000226	-.000824	.0012697	.0060179	.0019970	.0410014	.0903625

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000230**	**-.000090**	**.7146933**	**-.000263**	**-.000501**	**.0002891**	**-.001983**
Stddev	.000039	.000029	.0072187	.000239	.000486	.0003681	.012135
%RSD	16.73885	32.46849	1.010039	91.01116	96.98247	127.3195	612.0481
#1	-.000215	-.000113	.7214755	.000007	-.000958	.0003727	.004382
#2	-.000274	-.000057	.7154987	-.000447	.000010	.0006082	-.015976
#3	-.000202	-.000100	.7071057	-.000349	-.000555	-.000114	.005646

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050341**	**.0998447**	**.0004335**	**-.000700**	**89.31897**	**-.002138**	**.0550467**
Stddev	.0005085	.0690416	.0002833	.000656	.40943	.004937	.0003190
%RSD	10.10136	69.14894	65.35393	93.64238	.4583947	230.8973	.5795082
#1	.0047921	.0256713	.0007420	-.001204	89.55517	-.000032	.0547363
#2	.0056184	.1622389	.0001849	.000041	89.55554	.001396	.0553737
#3	.0046917	.1116239	.0003737	-.000939	88.84619	-.007778	.0550301

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035588**	**.0074126**	**.0007050**	**-.005993**	**.0006848**	**.0501792**	**.0020972**
Stddev	.0292409	.0002618	.0001879	.001207	.0028599	.0322064	.0021620
%RSD	821.6425	3.531994	26.65207	20.14865	417.6508	64.18276	103.0862
#1	-.001907	.0071157	.0005279	-.007270	.0033111	.0206050	.0034300
#2	-.022563	.0076105	.0009021	-.005838	.0011053	.0454401	-.000397
#3	.035147	.0075117	.0006851	-.004870	-.002362	.0844927	.003259

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24LX5 Acquired: 9/30/2025 22:39:23 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0965351	-.024794	.0034997
Stddev	.0040475	.002020	.0002572
%RSD	4.192767	8.146450	7.348777
#1	.0930283	-.025788	.0032533
#2	.1009642	-.026124	.0034793
#3	.0956129	-.022470	.0037665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7410.522	90133.37	4797.778	5952.146	8098.743
Stddev	7.741	355.04	26.437	15.846	5.368
%RSD	.1044616	.3939096	.5510194	.2662201	.0662818
#1	7412.154	89797.96	4771.581	5937.911	8092.674
#2	7417.316	90096.91	4824.448	5949.307	8102.869
#3	7402.095	90505.23	4797.304	5969.219	8100.686

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24MS Acquired: 9/30/2025 22:43:32 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7885243	2.053998	.9461017	2.036198	.7657138	1.922475	.5605069
Stddev	.0020609	.040966	.0007783	.000776	.0023492	.024920	.0026978
%RSD	.2613617	1.994442	.0822651	.0380994	.3068005	1.296252	.4813152
#1	.7871653	2.093867	.9465816	2.037068	.7647425	1.898863	.5574246
#2	.7875120	2.056111	.9465197	2.035946	.7640060	1.948524	.5616574
#3	.7908956	2.012017	.9452036	2.035579	.7683929	1.920037	.5624387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1922755	.1956717	4.005479	.3888934	.1951652	.2844740	2.904719
Stddev	.0020181	.0003229	.038359	.0004130	.0004921	.0004192	.004336
%RSD	1.049582	.1650089	.9576566	.1062119	.2521557	.1473431	.1492857
#1	.1899478	.1958879	4.022469	.3884272	.1955561	.2849345	2.903929
#2	.1933457	.1958267	3.961559	.3890392	.1953269	.2841147	2.909396
#3	.1935331	.1953006	4.032408	.3892137	.1946125	.2843728	2.900833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2122041	2.444662	.4895817	.0699379	393.5420	.2865896	.4346045
Stddev	.0017266	.036130	.0004386	.0006135	3.3276	.0081868	.0005909
%RSD	.8136337	1.477920	.0895845	.8772113	.8455428	2.856642	.1359594
#1	.2102758	2.446653	.4900119	.0700640	396.9740	.2940969	.4348082
#2	.2127299	2.407578	.4895980	.0704786	393.3223	.2778606	.4350666
#3	.2136067	2.479756	.4891352	.0692712	390.3297	.2878115	.4339387

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.67036	.3145167	.4003757	.6960346	.1897338	.9107482	5.981558
Stddev	.12814	.0043517	.0010549	.0010440	.0024704	.0218738	.026611
%RSD	1.200927	1.383599	.2634803	.1499992	1.302036	2.401740	.4448851
#1	10.81390	.3098537	.4015718	.6959736	.1924508	.9268404	5.995367
#2	10.62970	.3184697	.3995779	.6971079	.1876229	.8858426	5.998426
#3	10.56748	.3152268	.3999774	.6950225	.1891275	.9195617	5.950881

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24MS Acquired: 9/30/2025 22:43:32 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4254951	.1486552	.1973646
Stddev	.0028963	.0063795	.0005809
%RSD	.6806975	4.291441	.2943251
#1	.4245534	.1469857	.1973010
#2	.4287451	.1432765	.1968182
#3	.4231868	.1557034	.1979747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7246.896	84413.30	4792.752	5634.695	7691.262
Stddev	20.651	552.63	37.701	46.511	18.610
%RSD	.2849589	.6546673	.7866328	.8254336	.2419634
#1	7223.089	84010.89	4828.468	5624.334	7670.287
#2	7259.965	84185.60	4753.338	5594.238	7697.704
#3	7257.635	85043.39	4796.450	5685.512	7705.795

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24MSD Acquired: 9/30/2025 22:47:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8067591	2.005543	.9601157	2.066882	.7902792	1.922020	.4507527
Stddev	.0054168	.038710	.0023505	.006954	.0019287	.022261	.0011181
%RSD	.6714249	1.930175	.2448109	.3364274	.2440583	1.158205	.2480402
#1	.8106816	2.048807	.9623471	2.074217	.7914068	1.937884	.4515036
#2	.8005786	1.974180	.9576620	2.066043	.7880521	1.896572	.4494677
#3	.8090171	1.993642	.9603382	2.060386	.7913785	1.931604	.4512867

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1958119	.1987557	3.092572	.3911015	.1976411	.2917644	2.841854
Stddev	.0007269	.0001714	.013246	.0013299	.0004958	.0004684	.024391
%RSD	.3712496	.0862360	.4283172	.3400490	.2508463	.1605520	.8582645
#1	.1961614	.1989532	3.088975	.3909099	.1971254	.2912667	2.818665
#2	.1962982	.1986458	3.081495	.3898777	.1976839	.2921967	2.839607
#3	.1949763	.1986682	3.107245	.3925168	.1981141	.2918297	2.867291

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2086635	2.240439	.4965204	.0701107	278.7672	.2872249	.3670445
Stddev	.0015817	.003237	.0001198	.0004683	2.5049	.0049141	.0016774
%RSD	.7580243	.1444794	.0241253	.6678738	.8985476	1.710894	.4569960
#1	.2085634	2.239108	.4966579	.0695740	276.5751	.2833509	.3685029
#2	.2071342	2.244129	.4964648	.0703220	278.2292	.2927526	.3652115
#3	.2102929	2.238079	.4964385	.0704361	281.4973	.2855714	.3674192

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03118	.3061076	.4107461	.7167325	.1898055	.8333099	6.019374
Stddev	.05714	.0021330	.0007300	.0008579	.0026580	.0358442	.031848
%RSD	.5696163	.6968060	.1777145	.1196944	1.400394	4.301420	.5290875
#1	10.00352	.3084047	.4104922	.7171013	.1869435	.8254038	6.030683
#2	9.99314	.3041896	.4101770	.7173443	.1902762	.8724471	5.983415
#3	10.09689	.3057284	.4115691	.7157519	.1921967	.8020788	6.044023

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24MSD Acquired: 9/30/2025 22:47:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3226733	.1489474	.1947240
Stddev	.0033845	.0033664	.0012122
%RSD	1.048882	2.260151	.6225154
#1	.3245727	.1455290	.1933244
#2	.3246813	.1522593	.1954391
#3	.3187657	.1490540	.1954085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7320.432	87953.57	4870.994	5781.931	7807.048
Stddev	57.576	683.02	22.733	67.919	49.662
%RSD	.7865058	.7765633	.4666973	1.174683	.6361183
#1	7371.610	87568.77	4848.718	5785.786	7850.493
#2	7331.593	88742.18	4894.158	5847.841	7817.740
#3	7258.093	87549.77	4870.106	5712.167	7752.911

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24A Acquired: 9/30/2025 22:51:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6628831**	**1.526770**	**.8009035**	**1.696750**	**.2806373**	**.6574754**	**.4675530**
Stddev	.1082584	.192374	.1303024	.268017	.0787540	.1448556	.0112067
%RSD	16.33145	12.60005	16.26942	15.79591	28.06256	22.03209	2.396891
#1	.5527175	1.320789	.6693811	1.428554	.2040824	.5509131	.4640051
#2	.6668039	1.557743	.8033787	1.697109	.2764093	.5991032	.4585495
#3	.7691278	1.701778	.9299506	1.964588	.3614201	.8224100	.4801042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0994060**	**.1667351**	**3.660383**	**.1975861**	**.1652571**	**.2429051**	**.9026967**
Stddev	.0109045	.0280218	.061422	.0222429	.0280533	.0415974	.2180682
%RSD	10.96964	16.80615	1.678017	11.25734	16.97555	17.12494	24.15742
#1	.0889675	.1385589	3.594216	.1752243	.1370709	.2009451	.6966205
#2	.0985274	.1670465	3.671349	.1978258	.1655248	.2436403	.8804224
#3	.1107232	.1945998	3.715583	.2197082	.1931756	.2841301	1.131047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0844464**	**1.256896**	**.4168586**	**.0373413**	**432.2293**	**.0946556**	**.3652120**
Stddev	.0127046	.125846	.0701174	.0030565	1.5248	.0187060	.0113461
%RSD	15.04455	10.01243	16.82043	8.185311	.3527851	19.76217	3.106714
#1	.0734354	1.193530	.3468545	.0339327	433.8683	.0762532	.3541705
#2	.0815570	1.175329	.4166325	.0382528	431.9667	.0940624	.3646254
#3	.0983468	1.401830	.4870888	.0398384	430.8528	.1136511	.3768400

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.322558**	**.1877899**	**.1400152**	**.2402922**	**.0170238**	**.1810995**	**5.084281**
Stddev	.557082	.0151106	.0408658	.0741990	.0053573	.0337325	.804844
%RSD	10.46644	8.046556	29.18668	30.87865	31.46937	18.62651	15.83004
#1	4.783517	.1732231	.0999586	.1677706	.0138364	.1437577	4.262859
#2	5.288078	.1867555	.1384423	.2370440	.0140262	.1901749	5.118529
#3	5.896080	.2033911	.1816447	.3160619	.0232089	.2093660	5.871454

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: Q3245-24A Acquired: 9/30/2025 22:51:41 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4366344	.0363778	.0766585
Stddev	.0040182	.0098872	.0130490
%RSD	.9202661	27.17917	17.02224
#1	.4377065	.0266091	.0646001
#2	.4400078	.0361450	.0748633
#3	.4321889	.0463793	.0905122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7278.890	85395.34	4859.894	5701.318	7695.071
Stddev	11.411	211.02	45.346	16.777	20.381
%RSD	.1567623	.2471120	.9330749	.2942706	.2648525
#1	7274.133	85638.78	4848.367	5716.051	7677.531
#2	7270.628	85282.80	4909.891	5704.847	7690.252
#3	7291.910	85264.45	4821.424	5683.057	7717.429

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169900TB Acquired: 9/30/2025 22:55:50 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002658**	**-.001090**	**-.000307**	**.0081104**	**.0009922**	**.0244037**	**.0008183**
Stddev	.0015361	.004075	.000471	.0031361	.0007137	.0170508	.0043197
%RSD	577.8121	373.8105	153.2306	38.66776	71.93243	69.86949	527.8701
#1	-.000758	.003514	-.000555	.0046295	.0018011	.0071549	-.003963
#2	.002032	-.004235	.000236	.0089860	.0004513	.0248071	.004440
#3	-.000476	-.002549	-.000603	.0107156	.0007242	.0412493	.001978

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000176**	**-.000220**	**.0388781**	**.0005318**	**-.000379**	**.0010051**	**-.015400**
Stddev	.000013	.000024	.0232203	.0004809	.000110	.0008987	.007192
%RSD	7.344625	10.85420	59.72595	90.43560	29.05547	89.41841	46.70188
#1	-.000190	-.000228	.0489895	.0010870	-.000416	.0009595	-.007211
#2	-.000165	-.000239	.0123165	.0002499	-.000465	.0001300	-.018297
#3	-.000172	-.000193	.0553283	.0002584	-.000255	.0019258	-.020692

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030635**	**-.060490**	**.0010721**	**-.000780**	**333.5008**	**.0014107**	**.0019498**
Stddev	.0002950	.038212	.0002011	.000755	1.6354	.0074820	.0002732
%RSD	9.628734	63.17032	18.76030	96.88033	.4903607	530.3651	14.01242
#1	.0033071	-.066171	.0009068	-.000546	331.6265	-.007202	.0019605
#2	.0027355	-.095544	.0012960	-.000169	334.2387	.005128	.0022174
#3	.0031479	-.019756	.0010134	-.001624	334.6371	.006306	.0016713

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4631467**	**-.002946**	**.0004514**	**-.004841**	**-.002904**	**.0120869**	**.0062052**
Stddev	.0793975	.000418	.0005604	.001067	.004423	.0177679	.0005386
%RSD	17.14306	14.19584	124.1580	22.03914	152.3243	147.0004	8.680165
#1	.4074429	-.002551	.0005712	-.005990	-.003016	.0290252	.0066663
#2	.4279368	-.002904	-.000159	-.004651	.001574	-.006408	.0063361
#3	.5540603	-.003384	.000942	-.003882	-.007270	.013644	.0056132

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: PB169900TB Acquired: 9/30/2025 22:55:50 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0749177	-.019445	-.000051
Stddev	.0024422	.003133	.000166
%RSD	3.259791	16.11009	328.2652
#1	.0738660	-.015828	.000140
#2	.0731776	-.021221	-.000123
#3	.0777095	-.021287	-.000168

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7239.189	85413.33	4800.829	5679.000	7702.480
Stddev	21.835	435.70	24.941	27.195	23.064
%RSD	.3016253	.5101049	.5195069	.4788724	.2994310
#1	7236.300	85914.67	4786.816	5694.567	7702.441
#2	7262.325	85126.22	4786.047	5647.598	7725.563
#3	7218.942	85199.10	4829.625	5694.835	7679.436

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV10 Acquired: 9/30/2025 23:00:01 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.083395**	**5.377486**	**4.995375**	**5.126958**	**5.021752**	**9.734559**	**10.06858**
Stddev	.004291	.114333	.010652	.013813	.007531	.081203	.02972
%RSD	.0844055	2.126146	.2132328	.2694172	.1499626	.8341725	.2951291
#1	5.082517	5.378224	4.983099	5.125855	5.014749	9.747830	10.05869
#2	5.079611	5.262786	5.002170	5.113730	5.020790	9.808309	10.04507
#3	5.088056	5.491448	5.000857	5.141289	5.029718	9.647538	10.10198

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2593813**	**2.505643**	**24.78305**	**.9935900**	**2.492327**	**1.254195**	**4.835070**
Stddev	.0015949	.004417	.08358	.0011495	.004717	.001260	.049716
%RSD	.6149015	.1762978	.3372667	.1156914	.1892581	.1004370	1.028227
#1	.2589442	2.501922	24.73868	.9922679	2.488793	1.254417	4.833140
#2	.2611492	2.504483	24.87947	.9941493	2.490505	1.252839	4.786348
#3	.2580505	2.510525	24.73101	.9943529	2.497683	1.255328	4.885723

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.527541**	**24.70929**	**2.500073**	**1.245835**	**25.95583**	**2.495100**	**2.452282**
Stddev	.004376	.09375	.004100	.002152	.16018	.016767	.004402
%RSD	.1731173	.3794086	.1640052	.1727381	.6171376	.6720157	.1795123
#1	2.525537	24.70953	2.496829	1.243418	26.14057	2.509696	2.455963
#2	2.524527	24.80292	2.498708	1.247543	25.87140	2.498819	2.447405
#3	2.532560	24.61542	2.504681	1.246543	25.85553	2.476786	2.453478

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.13070**	**5.216517**	**4.973287**	**5.038127**	**4.992989**	**4.634495**	**5.080889**
Stddev	.16658	.033189	.004434	.007857	.009652	.025343	.017974
%RSD	.6139801	.6362249	.0891615	.1559498	.1933208	.5468337	.3537544
#1	27.15869	5.216631	4.970321	5.042024	5.003747	4.620126	5.080328
#2	26.95190	5.249649	4.971157	5.029083	4.985087	4.619602	5.063203
#3	27.28151	5.183272	4.978385	5.043274	4.990131	4.663757	5.099137

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCV10 Acquired: 9/30/2025 23:00:01 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.174095**	**4.683108**	**4.981965**
Stddev	.030385	.002792	.028033
%RSD	.5872598	.0596177	.5626978
#1	5.163530	4.684169	5.007795
#2	5.150401	4.679941	4.985945
#3	5.208352	4.685213	4.952154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7230.187**	**86954.51**	**4774.230**	**5738.246**	**7887.861**
Stddev	9.898	157.19	23.779	22.011	10.387
%RSD	.1368984	.1807670	.4980630	.3835794	.1316854
#1	7230.136	86973.76	4774.735	5746.089	7887.350
#2	7220.315	87101.18	4750.203	5755.261	7877.739
#3	7240.111	86788.59	4797.752	5713.388	7898.494

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

Sample Name: CCB10 Acquired: 9/30/2025 23:04:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010388	-.000572	-.000906	.0040529	.0009570	.0187851
Stddev	.0030241	.001287	.002766	.0014193	.0007106	.0082380
%RSD	291.1166	225.1078	305.2735	35.01857	74.25064	43.85354
#1	.0019680	-.000831	-.003422	.0034640	.0007294	.0276520
#2	.0034892	-.001709	.002056	.0030229	.0017535	.0173345
#3	-.002341	.000825	-.001352	.0056718	.0003881	.0113689

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004287	-.000085	.0000351	.0013964	-.000538	-.000278
Stddev	.003600	.000047	.0001231	.0046999	.000327	.000361
%RSD	83.97769	54.69725	350.5656	336.5744	60.85308	130.0818
#1	-.006793	-.000101	.0000862	-.000315	-.000245	-.000558
#2	-.000162	-.000033	.0001245	-.002208	-.000891	-.000405
#3	-.005907	-.000122	-.000105	.006712	-.000478	.000130

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000072	-.002795	-.001005	-.063996	-.000050	-.000229
Stddev	.000307	.017422	.001192	.042794	.000435	.000257
%RSD	426.0851	623.3601	118.5512	66.86968	877.5410	112.2880
#1	.000271	-.018783	-.001652	-.027821	-.000448	.000058
#2	-.000321	.015773	.000370	-.052931	.000414	-.000307
#3	-.000167	-.005374	-.001734	-.111235	-.000115	-.000438

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.172785	.0054693	-.000397	F 1.665330	-.001610	.0001017
Stddev	.074348	.0033663	.000495	.088043	.001663	.0001510
%RSD	3.421789	61.54885	124.8025	5.286834	103.3090	148.5237
#1	2.256807	.0055128	-.000709	1.646608	.000303	.0002571
#2	2.146036	.0088135	.000174	1.761229	-.002415	-.000044
#3	2.115513	.0020814	-.000657	1.588154	-.002717	.000092

Reviewed By:jaswal
On:10/1/2025 3:34:13 PM
Inst Id :P4
LB :LB137374

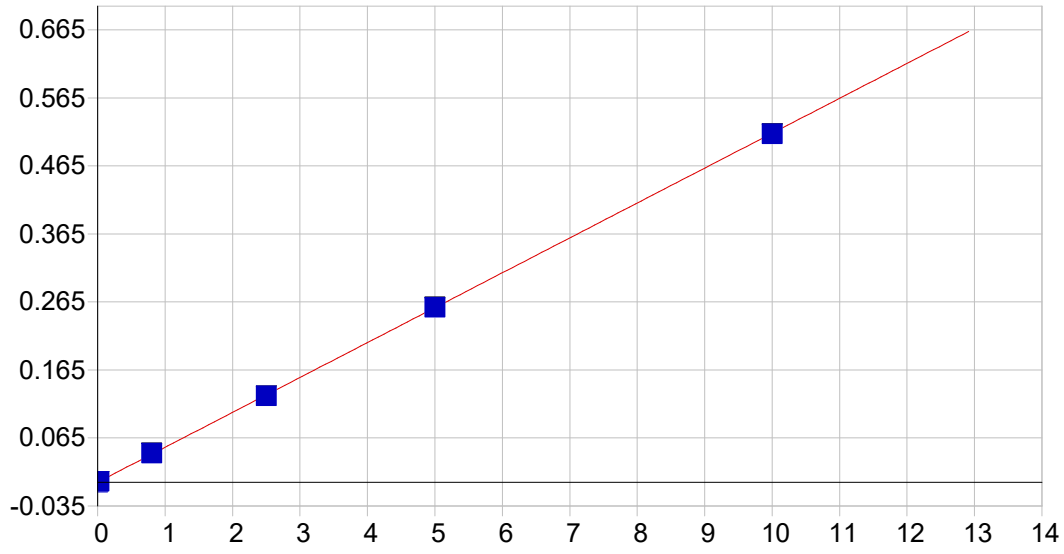
Sample Name: CCB10 Acquired: 9/30/2025 23:04:06 Type: Unk
Method: 6010-200.7 NEW(v228) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0228310	-.000076	.0117085	-.000018	F .0322843	F .0344537
Stddev	.0006412	.002068	.0085383	.001364	.0009016	.0057875
%RSD	2.808399	2718.157	72.92393	7471.315	2.792797	16.79783
#1	.0223719	.000610	.0022492	.001554	.0323081	.0381192
#2	.0225574	-.002400	.0140310	-.000734	.0331738	.0374601
#3	.0235635	.001562	.0188452	-.000875	.0313710	.0277817

Elem	Sr4077
Units	ppm
Avg	.0000617
Stddev	.0003383
%RSD	547.9076
#1	.0000724
#2	.0003945
#3	-.000282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7501.649	92420.90	4944.542	5935.764	8820.836
Stddev	16.321	289.54	45.862	10.104	15.660
%RSD	.2175683	.3132826	.9275321	.1702252	.1775372
#1	7511.877	92129.65	4894.508	5929.775	8833.424
#2	7510.243	92424.34	4984.585	5930.087	8825.784
#3	7482.826	92708.70	4954.533	5947.430	8803.299

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



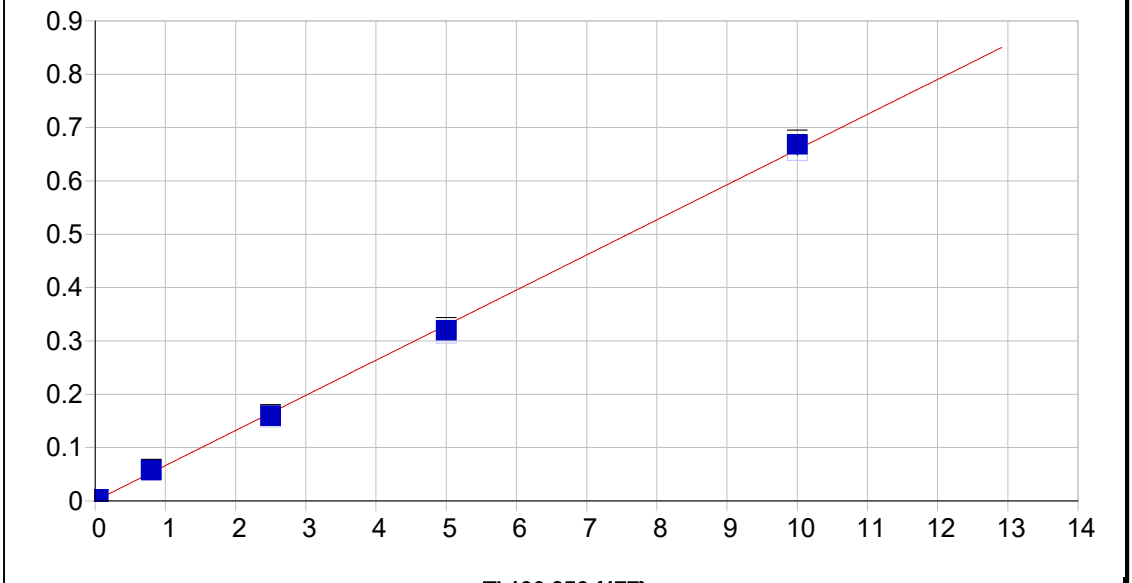
As 189.042 {479}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000025	Re-Slope:	1.000000
A1 (Gain):	0.051319	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.002166		
Predicted MQL:	0.007219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.02000	.02280	.003	14.0	.00114	.000	1
S3	2.5000	2.4746	-.025	-1.02	.12684	.000	1
S4	5.0000	5.0084	.008	.168	.25673	.001	1
S5	10.000	9.9843	-.016	-.157	.51183	.000	1
S2	.80000	.82985	.030	3.73	.04252	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



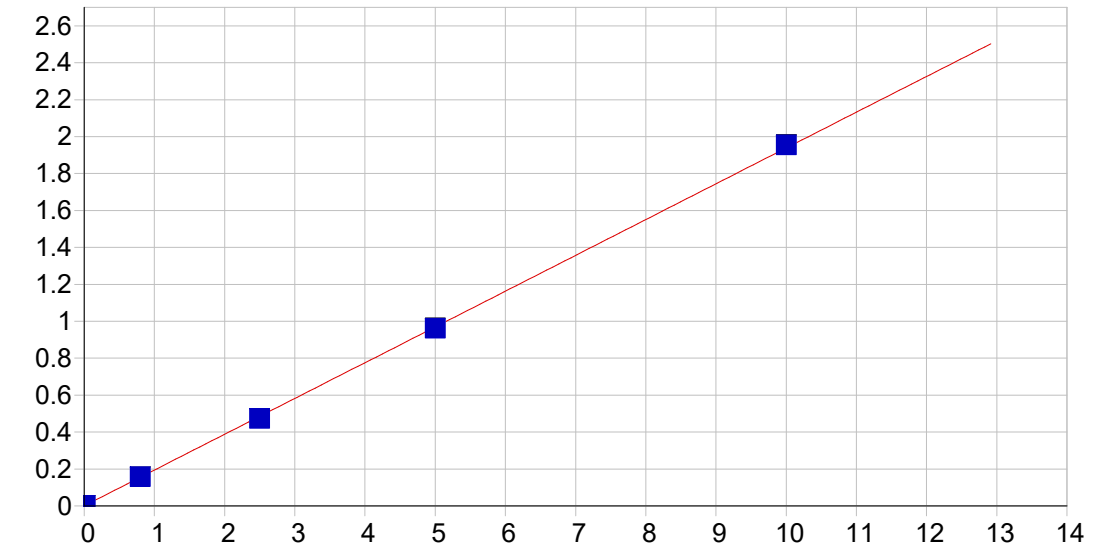
Tl 190.856 {477}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000421	Re-Slope:	1.000000
A1 (Gain):	0.065818	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999557	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.002440		
Predicted MQL:	0.008134		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00042	.000	1
S1	.04000	.04349	.003	8.74	.00312	.000	1
S3	2.5000	2.4183	-.082	-3.27	.15659	.003	1
S4	5.0000	4.8563	-.144	-2.87	.31405	.005	1
S5	10.000	10.151	.151	1.51	.65656	.008	1
S2	.80000	.87076	.071	8.85	.05677	.002	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



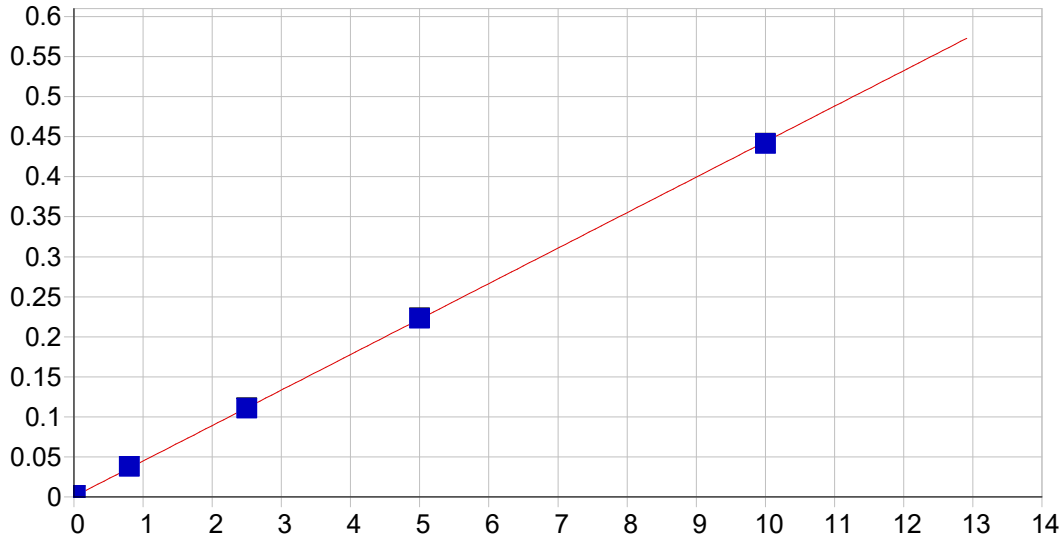
Pb 220.353 {453}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000349	Re-Slope:	1.000000
A1 (Gain):	0.193779	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999929	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.001365		
Predicted MQL:	0.004551		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00035	.000	1
S1	.01200	.01231	.000	2.62	.00269	.000	1
S3	2.5000	2.4398	-.060	-2.41	.47259	.000	1
S4	5.0000	4.9637	-.036	-.726	.96113	.001	1
S5	10.000	10.086	.086	.864	1.9527	.002	1
S2	.80000	.80979	.010	1.22	.15710	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



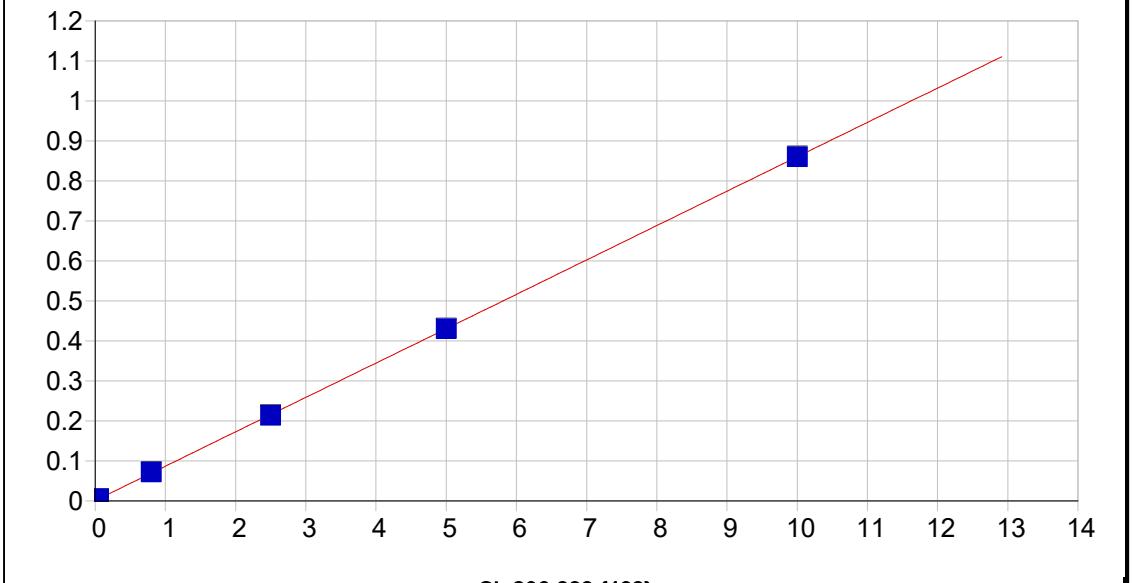
Se 196.090 {472}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000471	Re-Slope:	1.000000
A1 (Gain):	0.044329	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003213		
Predicted MQL:	0.010709		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00047	.000	1
S1	.02000	.02170	.002	8.51	.00143	.000	1
S3	2.5000	2.4879	-.012	-.485	.11073	.000	1
S4	5.0000	5.0182	.018	.365	.22286	.000	1
S5	10.000	9.9452	-.055	-.548	.44121	.000	1
S2	.80000	.84699	.047	5.87	.03801	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



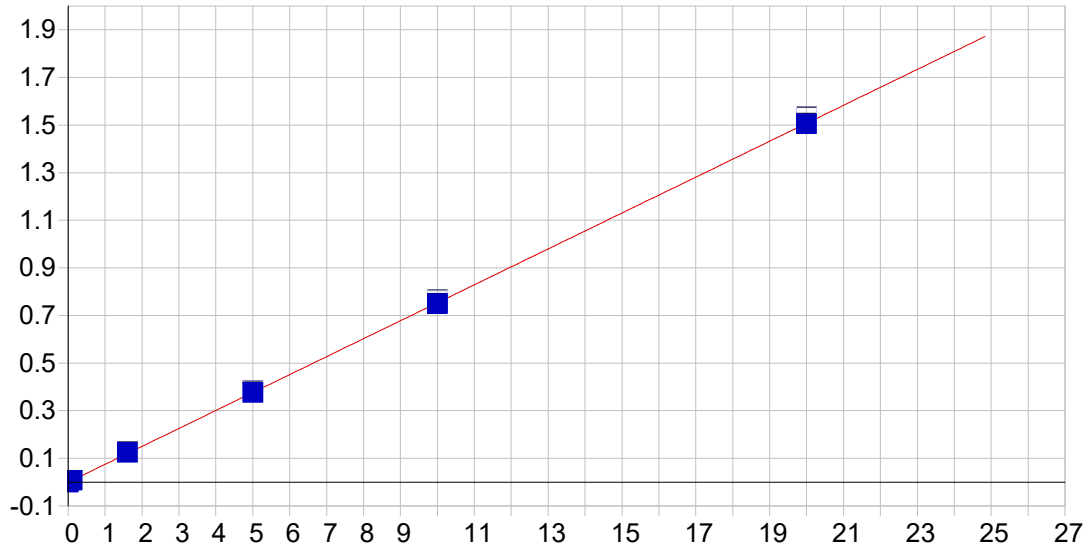
Sb 206.833 {463}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000827	Re-Slope:	1.000000
A1 (Gain):	0.085936	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002094		
Predicted MQL:	0.006981		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00083	.000	1
S1	.05000	.05092	.001	1.85	.00521	.000	1
S3	2.5000	2.4765	-.023	-.939	.21424	.001	1
S4	5.0000	4.9978	-.002	-.043	.43149	.001	1
S5	10.000	9.9955	-.004	-.045	.86214	.000	1
S2	.80000	.82917	.029	3.65	.07227	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



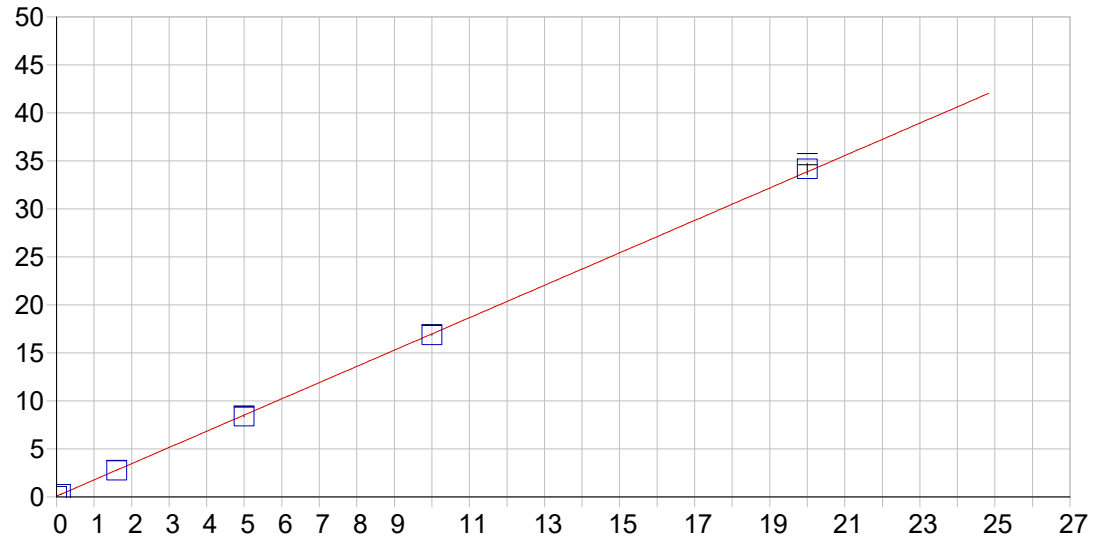
Al 396.152 { 85}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000805	Re-Slope:	1.000000
A1 (Gain):	0.075419	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999932	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.013981		
Predicted MQL:	0.046602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00081	.000	1
S1	.10000	.11698	.017	17.0	.00860	.000	1
S3	5.0000	5.0040	.004	.080	.38391	.001	1
S4	10.000	9.9533	-.047	-.467	.76450	.002	1
S5	20.000	19.968	-.032	-.160	1.5344	.002	1
S2	1.6000	1.6567	.057	3.54	.12648	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



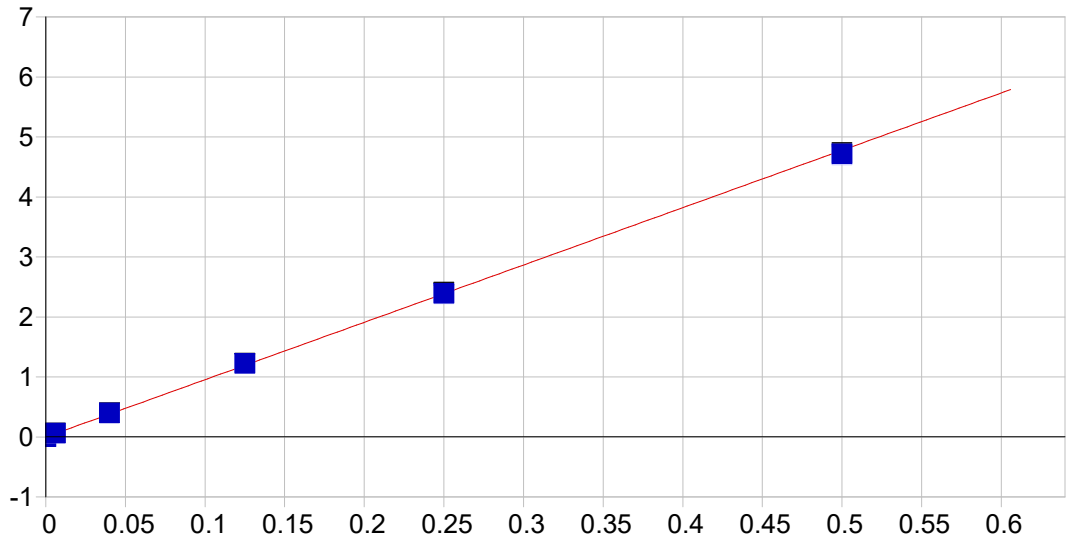
Ba 493.409 { 68}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.084582	Re-Slope:	1.000000
A1 (Gain):	1.689165	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.001237		
Predicted MDL:	0.001601		
Predicted MQL:	0.005338		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.08459	.001	1
S1	.10000	.10022	.000	.220	.25387	.001	1
S3	5.0000	4.9145	-.085	-1.71	8.3860	.057	1
S4	10.000	9.9345	-.065	-.655	16.866	.043	1
S5	20.000	20.170	.170	.851	34.156	.573	1
S2	1.6000	1.5804	-.020	-1.22	2.7542	.012	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



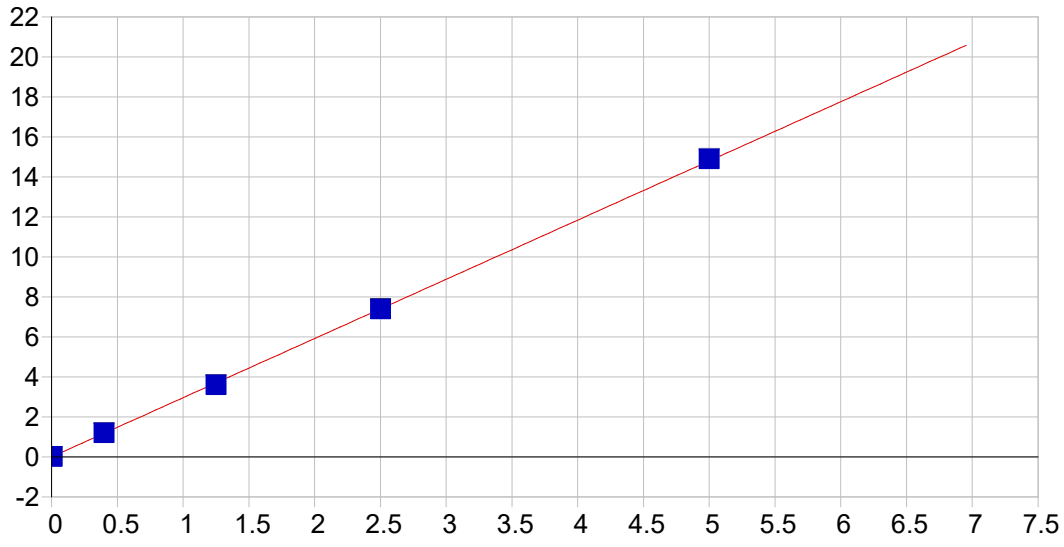
Be 234.861 {144}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001839	Re-Slope:	1.000000
A1 (Gain):	9.557618	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999834	Status:	OK.
Std Error of Est:	0.000499		
Predicted MDL:	0.000074		
Predicted MQL:	0.000247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00185	.001	1
S1	.00600	.00644	.000	7.33	.05928	.001	1
S3	.12500	.12831	.003	2.65	1.2192	.004	1
S4	.25000	.25063	.001	.251	2.3828	.018	1
S5	.50000	.49362	-.006	-1.28	4.6946	.025	1
S2	.04000	.04200	.002	5.00	.39787	.003	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



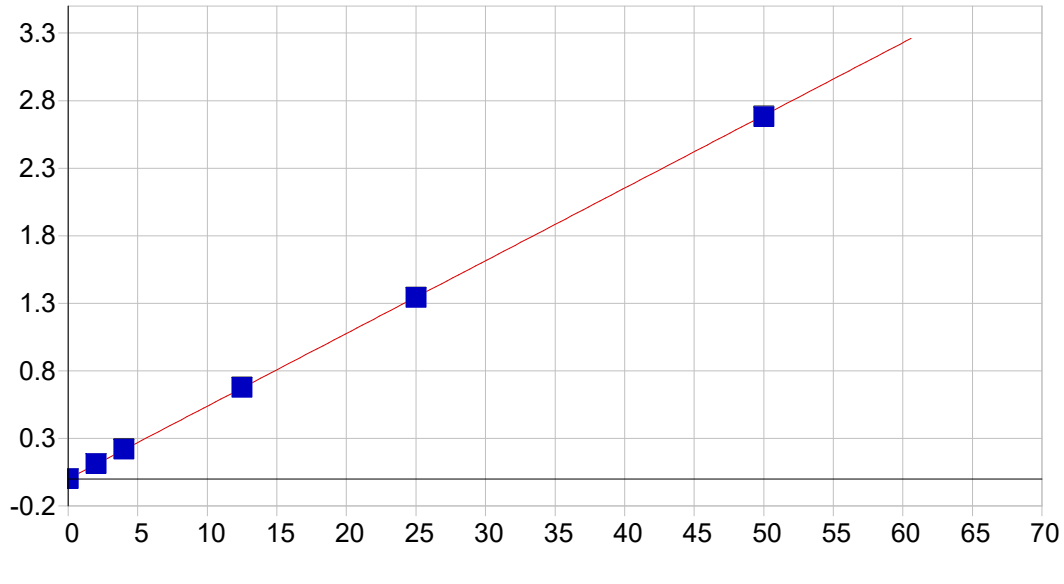
Cd 226.502 {449}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000353	Re-Slope:	1.000000
A1 (Gain):	2.960052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999936	Status:	OK.
Std Error of Est:	0.000304		
Predicted MDL:	0.000076		
Predicted MQL:	0.000254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00035	.000	1
S1	.00600	.00616	.000	2.74	.01795	.000	1
S3	1.2500	1.2161	-.034	-2.71	3.6018	.004	1
S4	2.5000	2.4973	-.003	-.107	7.3967	.009	1
S5	5.0000	5.0332	.033	.664	14.908	.020	1
S2	.40000	.40322	.003	.804	1.1940	.002	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



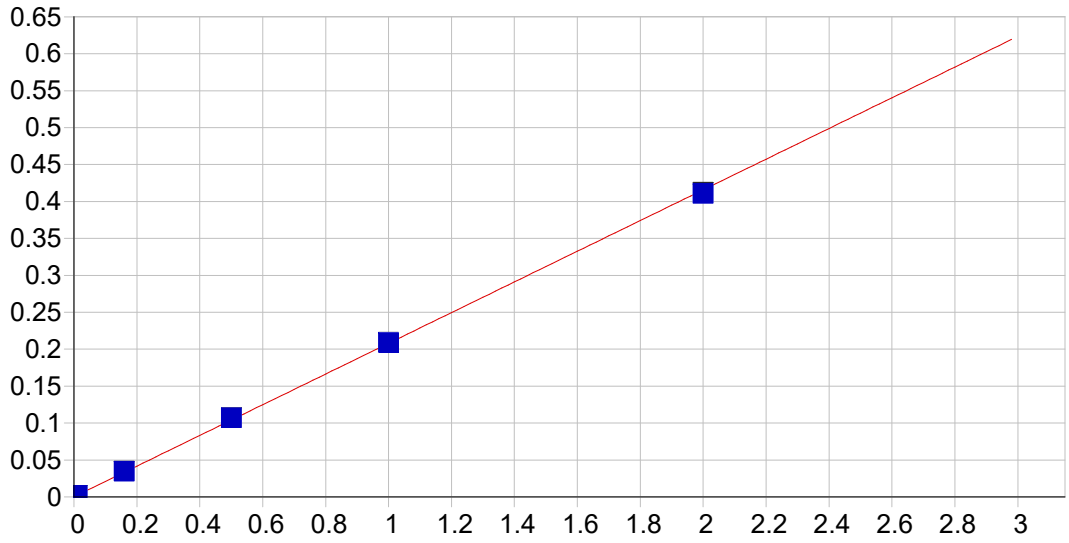
Ca 373.690 { 90}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000317	Re-Slope:	1.000000
A1 (Gain):	0.053804	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000234		
Predicted MDL:	0.015517		
Predicted MQL:	0.051724		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00031	.001	1
S2	4.0000	4.0796	.080	1.99	.21982	.001	1
S3	12.500	12.582	.082	.653	.67726	.001	1
S4	25.000	24.940	-.060	-.240	1.3422	.003	1
S5	50.000	49.817	-.183	-.366	2.6807	.004	1
S1	2.0000	2.0820	.082	4.10	.11233	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



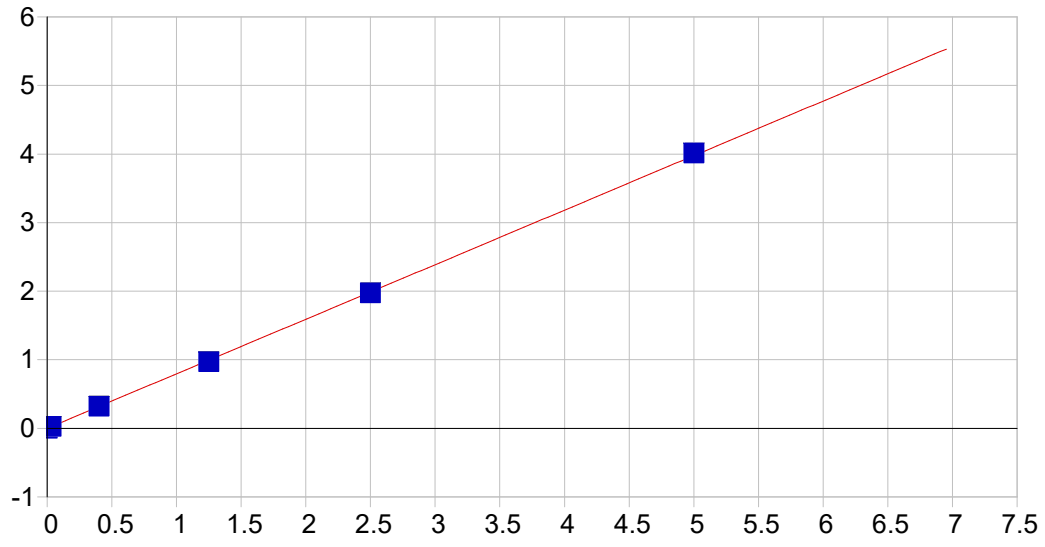
Cr 267.716 {126}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000160	Re-Slope:	1.000000
A1 (Gain):	0.207805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999880	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000379		
Predicted MQL:	0.001263		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.01000	.01046	.000	4.58	.00234	.000	1
S3	.50000	.51366	.014	2.73	.10698	.000	1
S4	1.0000	1.0046	.005	.456	.20908	.000	1
S5	2.0000	1.9760	-.024	-1.20	.41112	.001	1
S2	.16000	.16531	.005	3.32	.03454	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



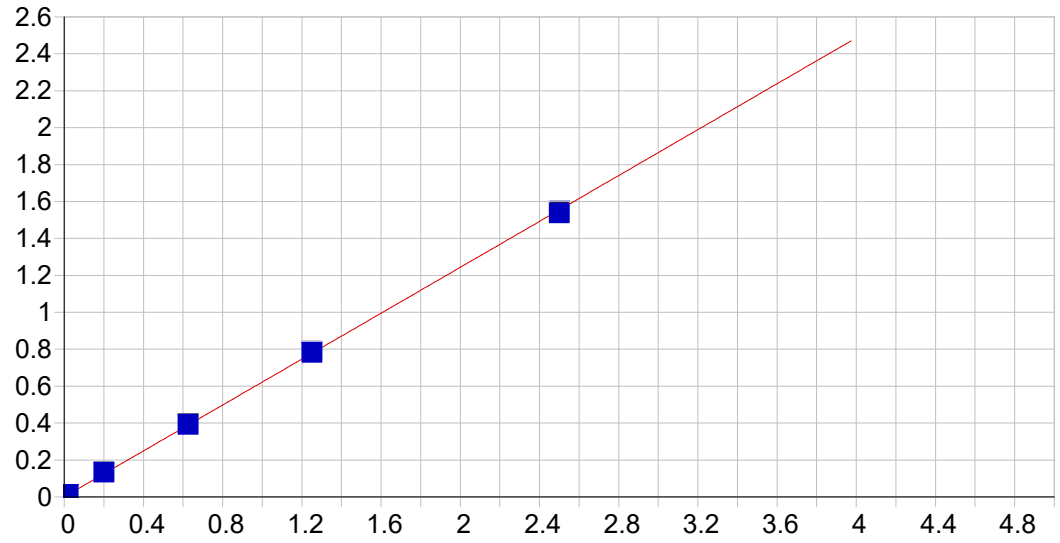
Co 228.616 {448}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000021	Re-Slope:	1.000000
A1 (Gain):	0.795429	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000203		
Predicted MDL:	0.000238		
Predicted MQL:	0.000794		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00002	.000	1
S1	.03000	.03069	.001	2.32	.02434	.000	1
S3	1.2500	1.2171	-.033	-2.63	.96984	.002	1
S4	2.5000	2.4828	-.017	-.686	1.9783	.002	1
S5	5.0000	5.0453	.045	.907	4.0200	.003	1
S2	.40000	.40401	.004	1.00	.32192	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



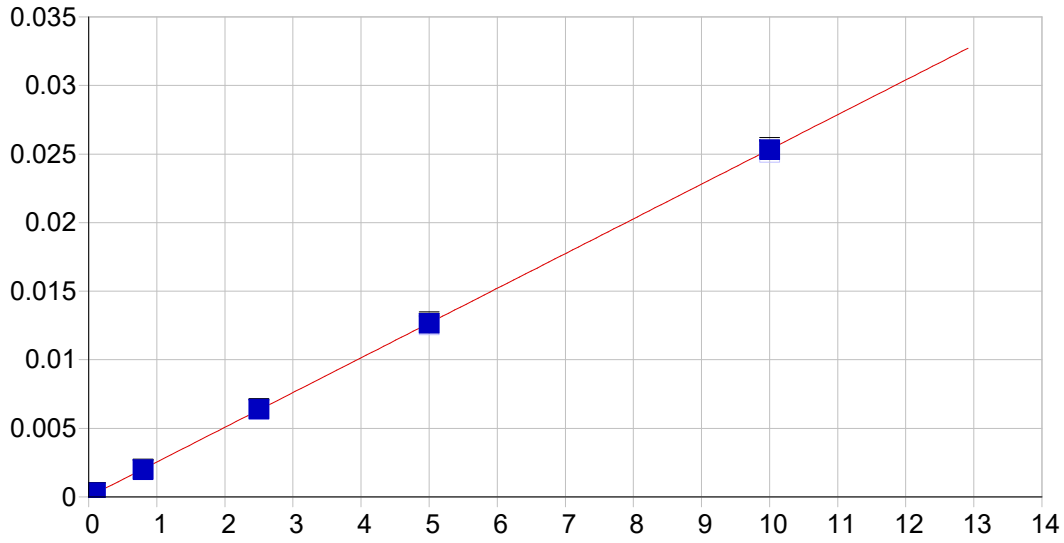
Cu 224.700 {450}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000788	Re-Slope:	1.000000
A1 (Gain):	0.621463	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999869	Status:	OK.
Std Error of Est:	0.000119		
Predicted MDL:	0.000436		
Predicted MQL:	0.001454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00079	.000	1
S1	.02000	.02158	.002	7.92	.01434	.000	1
S3	.62500	.62978	.005	.765	.39541	.001	1
S4	1.2500	1.2576	.008	.608	.78881	.000	1
S5	2.5000	2.4738	-.026	-1.05	1.5511	.001	1
S2	.20000	.21218	.012	6.09	.13368	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



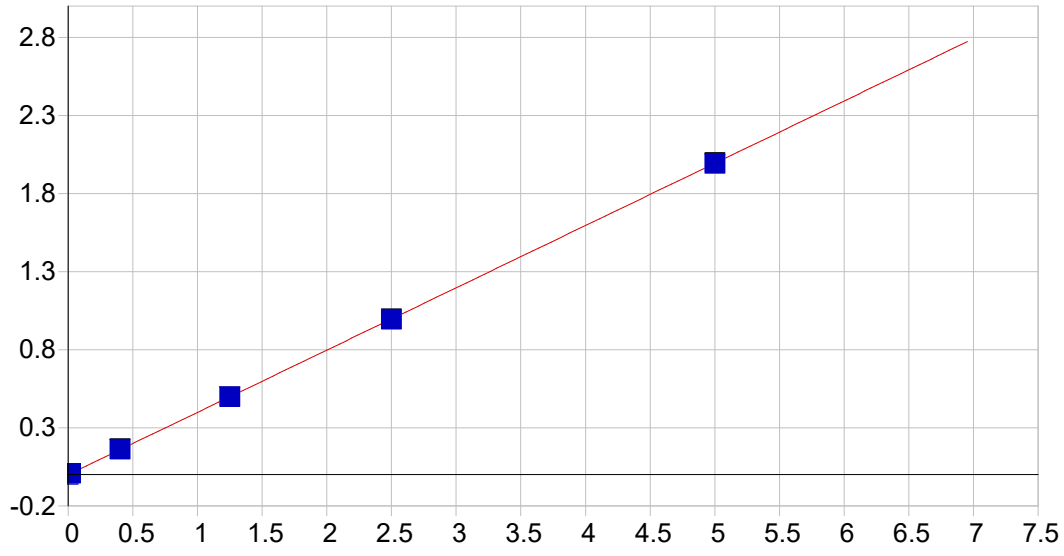
Fe 240.488 {140}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.002533	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.009093		
Predicted MQL:	0.030310		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00001	.000	1
S1	.10000	.11134	.011	11.3	.00029	.000	1
S3	2.5000	2.5231	.023	.923	.00635	.000	1
S4	5.0000	4.9890	-.011	-.219	.01254	.000	1
S5	10.000	9.9955	-.005	-.045	.02511	.000	1
S2	.80000	.78113	-.019	-2.36	.00197	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



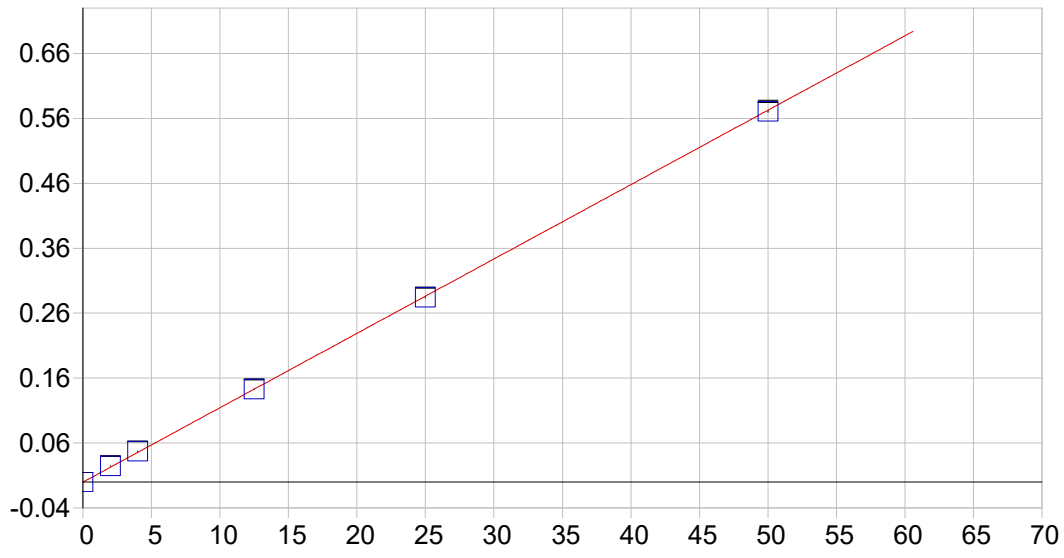
Mn 257.610 {131}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.398742	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.000780		
Predicted MQL:	0.002599		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.02000	.02179	.002	8.93	.00866	.000	1
S3	1.2500	1.2499	-.000	-.005	.49847	.001	1
S4	2.5000	2.4924	-.008	-.306	.99398	.002	1
S5	5.0000	4.9957	-.004	-.086	1.9924	.004	1
S2	.40000	.41024	.010	2.56	.16358	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



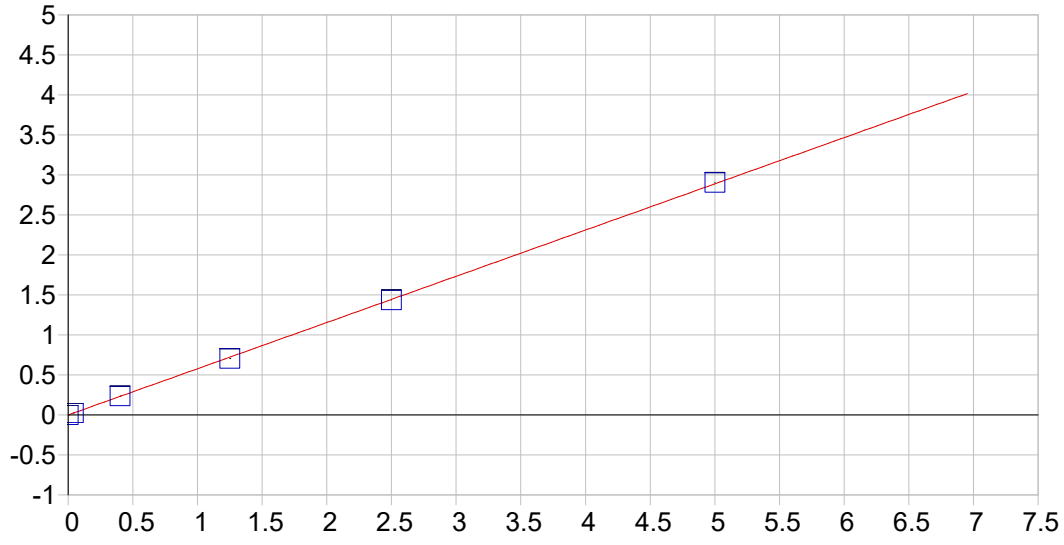
Mg 279.079 {121}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000289	Re-Slope:	1.000000
A1 (Gain):	0.011459	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000094		
Predicted MDL:	0.035007		
Predicted MQL:	0.116688		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00023	-.000	.000	-.00029	.000	1
S2	4.0000	4.1584	.158	3.96	.04736	.000	1
S3	12.500	12.484	-.016	-.124	.14277	.001	1
S4	25.000	24.835	-.165	-.662	.28428	.001	1
S5	50.000	49.851	-.149	-.299	.57093	.002	1
S1	2.0000	2.1721	.172	8.60	.02460	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



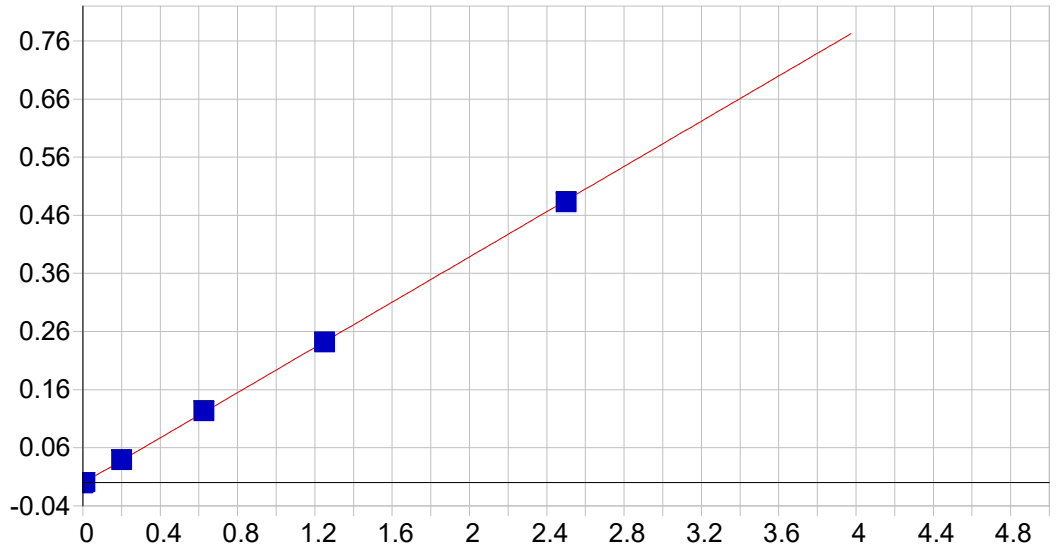
Ni 231.604 {446}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000492	Re-Slope:	1.000000
A1 (Gain):	0.577755	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.000148		
Predicted MDL:	0.000367		
Predicted MQL:	0.001225		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00049	.000	1
S1	.04000	.04090	.001	2.25	.02314	.000	1
S3	1.2500	1.2218	-.028	-2.25	.70542	.001	1
S4	2.5000	2.4880	-.012	-.478	1.4370	.002	1
S5	5.0000	5.0305	.030	.609	2.9059	.002	1
S2	.40000	.40878	.009	2.20	.23568	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



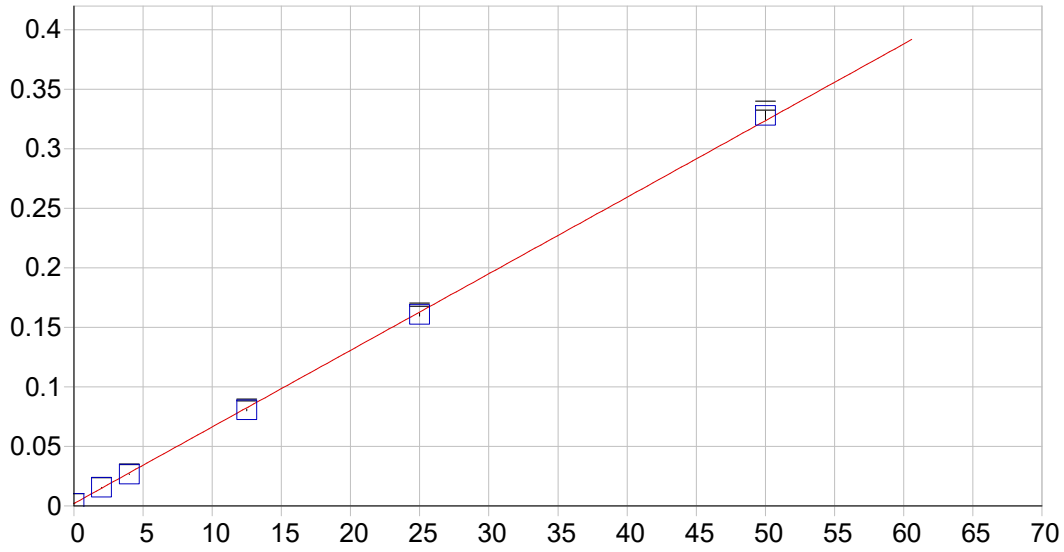
Ag 328.068 {103}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000756	Re-Slope:	1.000000
A1 (Gain):	0.194597	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.000630		
Predicted MQL:	0.002101		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00076	.000	1
S1	.01000	.01063	.001	6.29	.00130	.000	1
S3	.62500	.63722	.012	1.96	.12266	.000	1
S4	1.2500	1.2461	-.004	-.313	.24055	.000	1
S5	2.5000	2.4863	-.014	-.549	.48071	.001	1
S2	.20000	.20479	.005	2.39	.03891	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



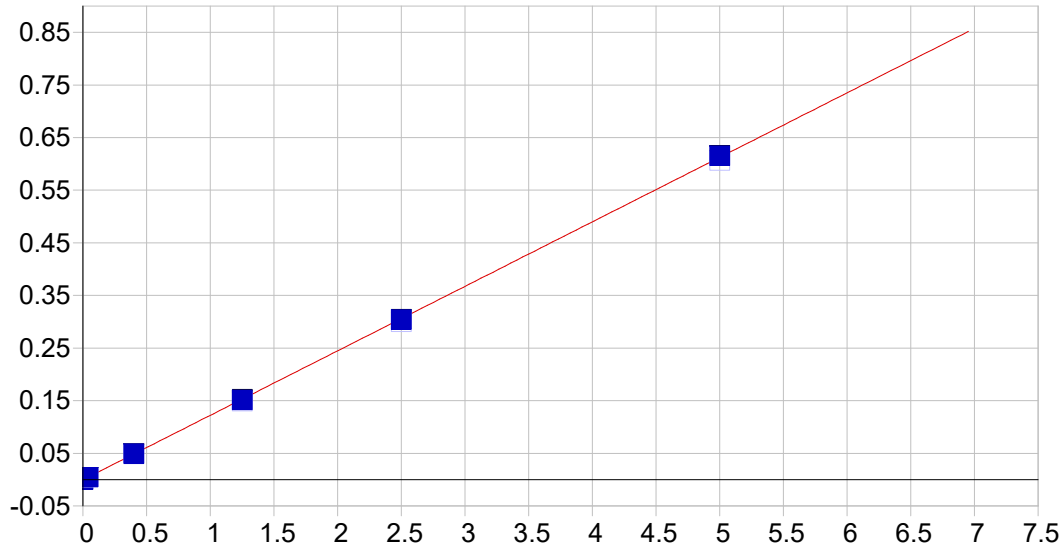
Na 589.592 { 57}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002037	Re-Slope:	1.000000
A1 (Gain):	0.006434	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999830	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.024179		
Predicted MQL:	0.080595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00204	.000	1
S2	4.0000	3.8114	-.189	-4.71	.02656	.000	1
S3	12.500	12.238	-.262	-2.10	.08078	.001	1
S4	25.000	24.683	-.317	-1.27	.16085	.001	1
S5	50.000	50.675	.675	1.35	.32809	.004	1
S1	2.0000	2.0927	.093	4.64	.01550	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



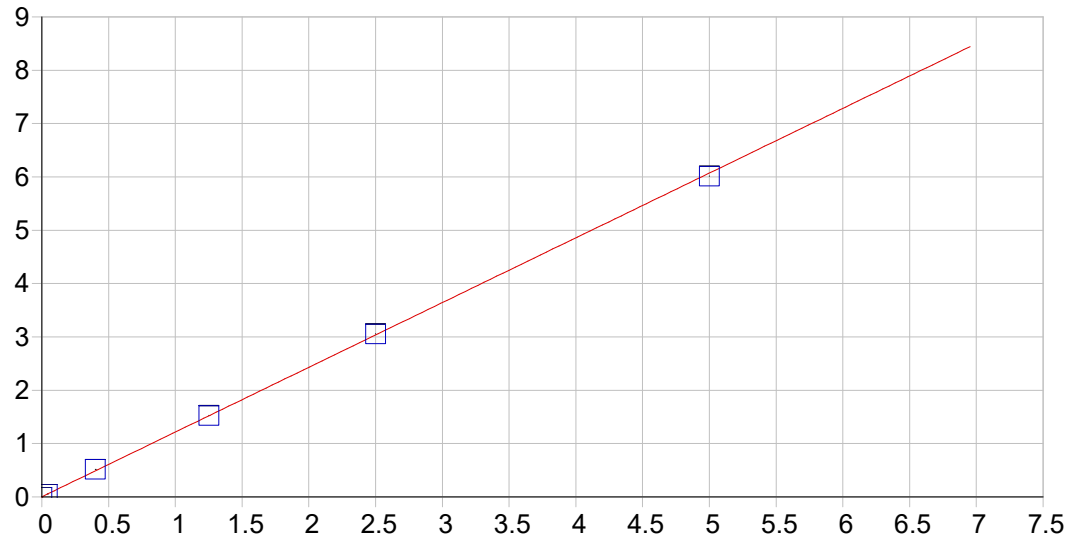
V 292.402 {115}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000407	Re-Slope:	1.000000
A1 (Gain):	0.122574	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.003825		
Predicted MQL:	0.012750		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00041	.000	1
S1	.04000	.04052	.001	1.29	.00438	.000	1
S3	1.2500	1.2361	-.014	-1.11	.14888	.001	1
S4	2.5000	2.4845	-.016	-.620	.29966	.001	1
S5	5.0000	5.0240	.024	.481	.60648	.000	1
S2	.40000	.40484	.005	1.21	.04850	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



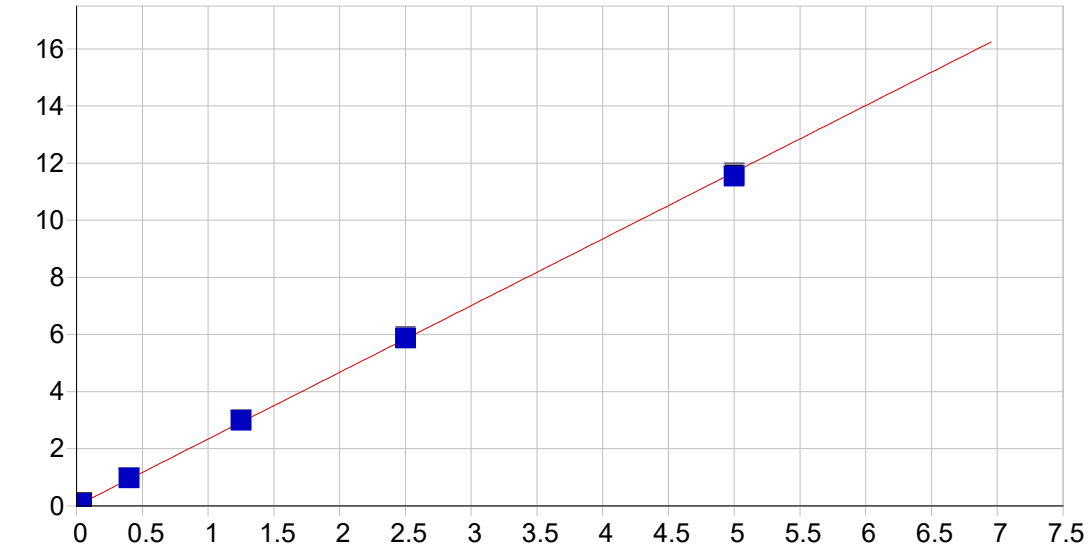
Zn 206.200 {464}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002197	Re-Slope:	1.000000
A1 (Gain):	1.213847	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000447		
Predicted MDL:	0.000136		
Predicted MQL:	0.000453		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00219	.000	1
S1	.04000	.04253	.003	6.33	.05382	.000	1
S3	1.2500	1.2546	.005	.366	1.5251	.003	1
S4	2.5000	2.5156	.016	.626	3.0558	.002	1
S5	5.0000	4.9525	-.048	-.950	6.0138	.002	1
S2	.40000	.42477	.025	6.19	.51780	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



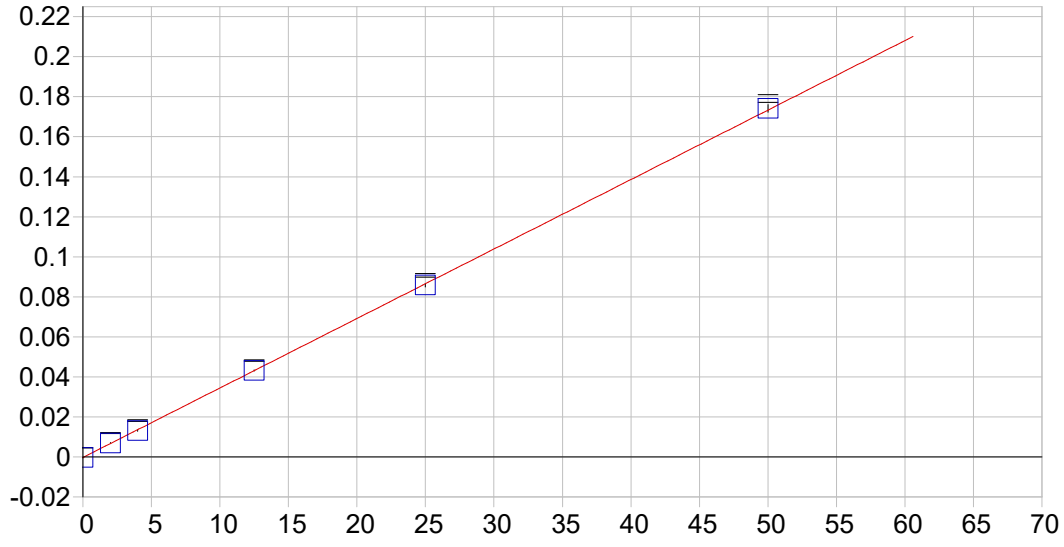
Zn 213.856 {158}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004821	Re-Slope:	1.000000
A1 (Gain):	2.335723	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999873	Status:	OK.
Std Error of Est:	0.000881		
Predicted MDL:	0.000253		
Predicted MQL:	0.000843		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00481	.001	1
S1	.04000	.04306	.003	7.65	.10605	.001	1
S3	1.2500	1.2801	.030	2.40	3.0150	.004	1
S4	2.5000	2.5119	.012	.478	5.9126	.009	1
S5	5.0000	4.9392	-.061	-1.22	11.623	.028	1
S2	.40000	.41576	.016	3.94	.98242	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



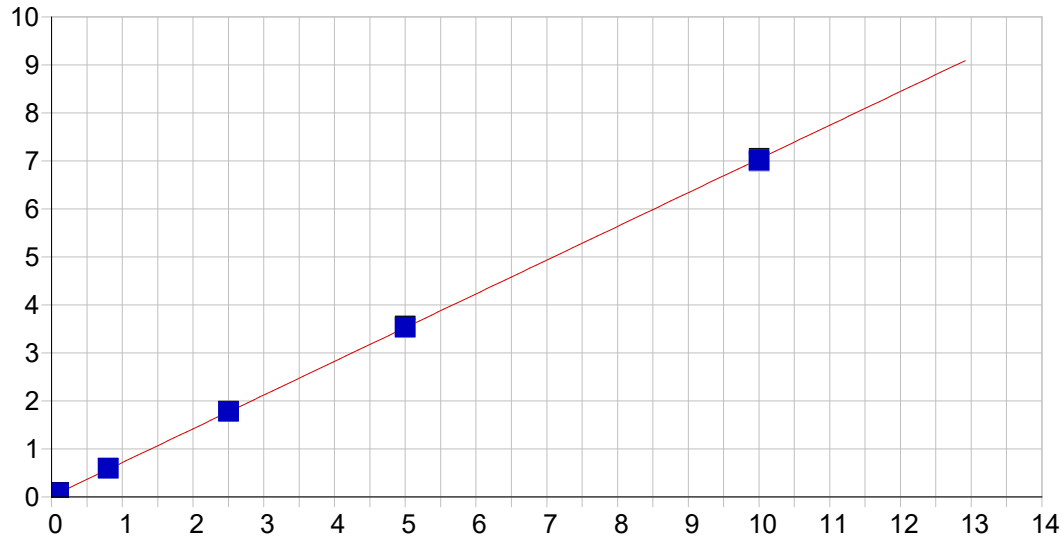
K 766.490 { 44}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000288	Re-Slope:	1.000000
A1 (Gain):	0.003472	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.053889		
Predicted MQL:	0.179629		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00029	.000	1
S2	4.0000	3.8730	-.127	-3.18	.01316	.000	1
S3	12.500	12.518	.018	.146	.04318	.000	1
S4	25.000	24.791	-.209	-.834	.08579	.001	1
S5	50.000	50.248	.248	.495	.17418	.002	1
S1	2.0000	2.0697	.070	3.48	.00690	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



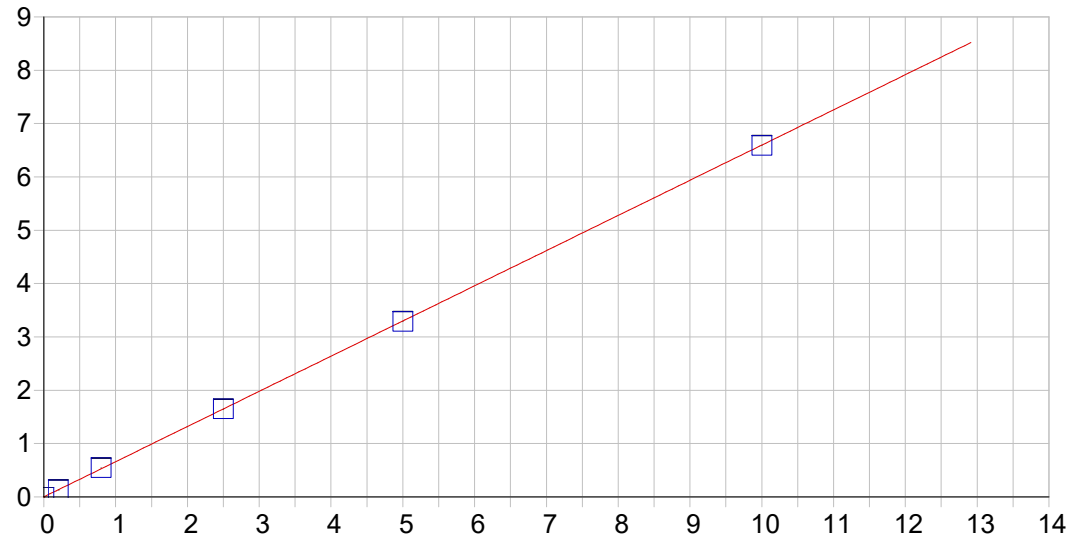
B 249.678 {135}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013307	Re-Slope:	1.000000
A1 (Gain):	0.702736	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000283		
Predicted MDL:	0.001016		
Predicted MQL:	0.003386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01330	.001	1
S1	.10000	.09999	-.000	-.013	.08316	.000	1
S3	2.5000	2.5155	.015	.618	1.7747	.008	1
S4	5.0000	5.0058	.006	.116	3.5184	.026	1
S5	10.000	9.9540	-.046	-.460	6.9830	.046	1
S2	.80000	.82476	.025	3.09	.59087	.004	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



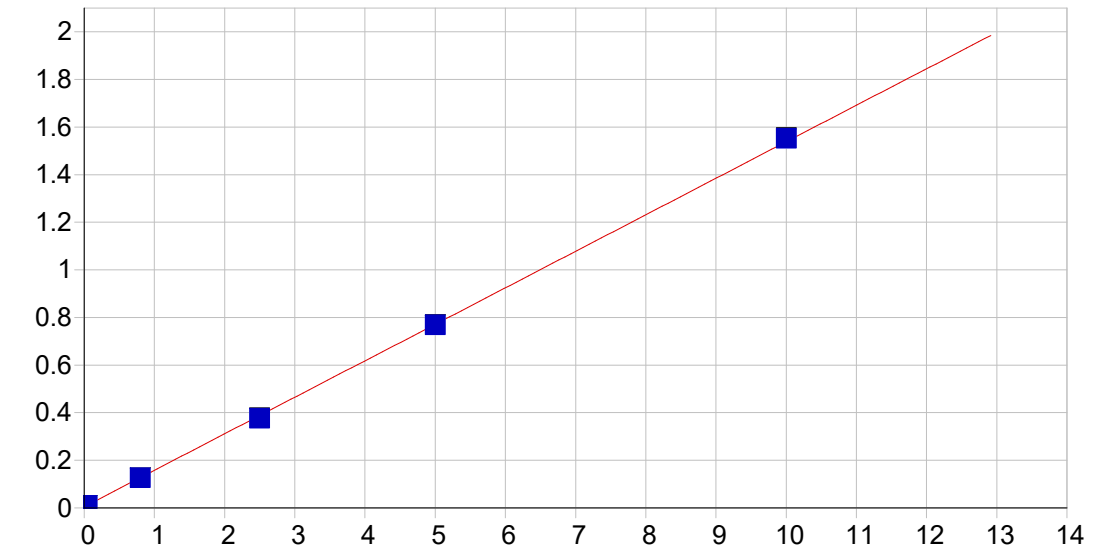
Mo 202.030 {467}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000434	Re-Slope:	1.000000
A1 (Gain):	0.659659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000321		
Predicted MDL:	0.000264		
Predicted MQL:	0.000878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00043	.000	1
S1	.20000	.20245	.002	1.22	.13398	.000	1
S3	2.5000	2.4980	-.002	-.078	1.6483	.004	1
S4	5.0000	4.9874	-.013	-.251	3.2904	.003	1
S5	10.000	9.9882	-.012	-.118	6.5892	.003	1
S2	.80000	.82385	.024	2.98	.54389	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



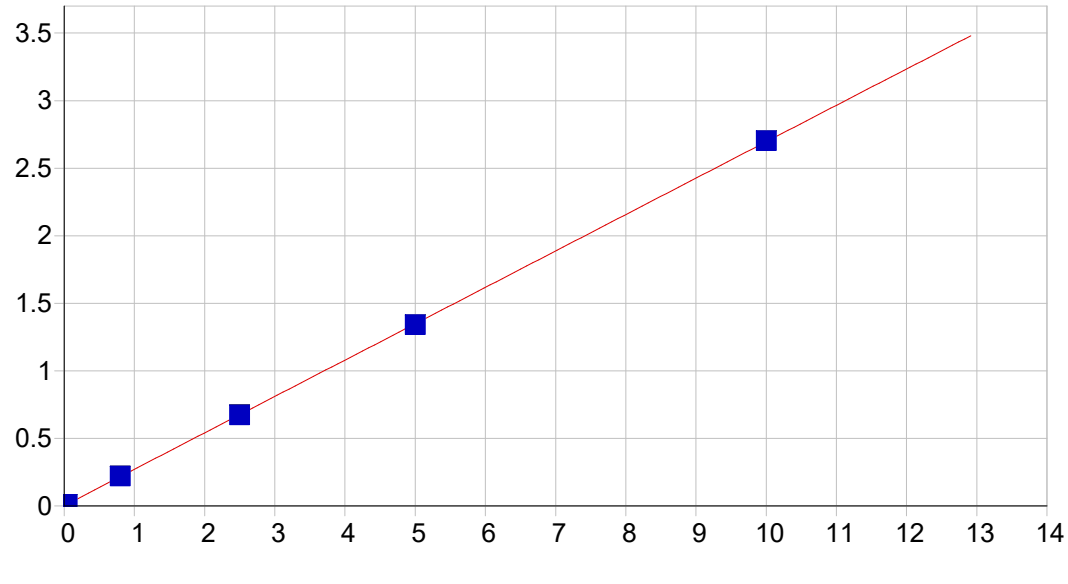
Sn 189.989 {478}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004608	Re-Slope:	1.000000
A1 (Gain):	0.153354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.000617		
Predicted MQL:	0.002058		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00461	.000	1
S1	.04000	.04072	.001	1.79	.01085	.000	1
S3	2.5000	2.4273	-.073	-2.91	.37646	.001	1
S4	5.0000	4.9851	-.015	-.298	.76831	.001	1
S5	10.000	10.094	.094	.937	1.5510	.002	1
S2	.80000	.79315	-.007	-.857	.12611	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



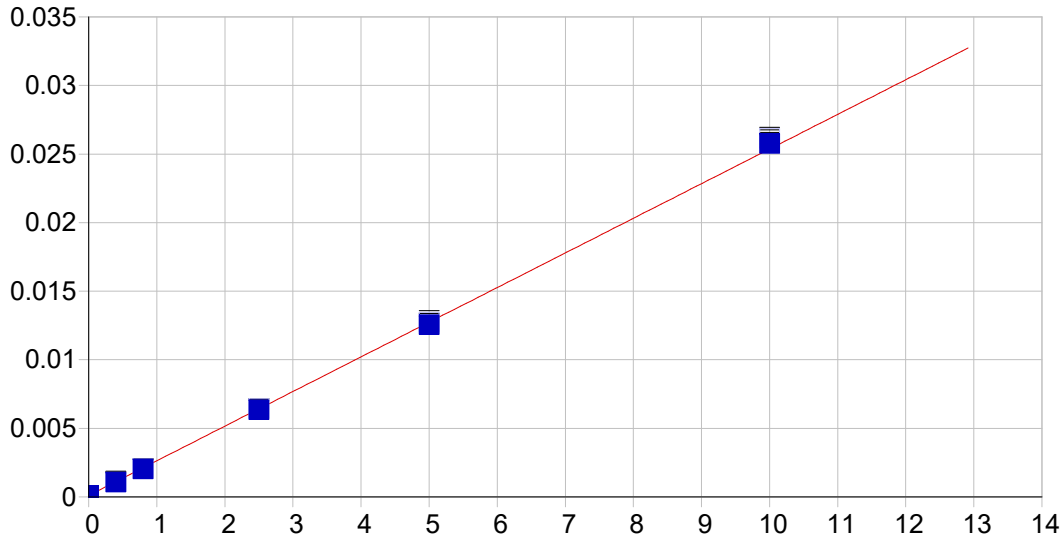
Ti 336.121 {100}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001674	Re-Slope:	1.000000
A1 (Gain):	0.269381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.002244		
Predicted MQL:	0.007479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00167	.001	1
S1	.04000	.04086	.001	2.14	.01267	.000	1
S3	2.5000	2.4904	-.010	-.386	.67229	.003	1
S4	5.0000	4.9711	-.029	-.578	1.3403	.003	1
S5	10.000	10.029	.029	.293	2.7024	.001	1
S2	.80000	.80840	.008	1.05	.21936	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



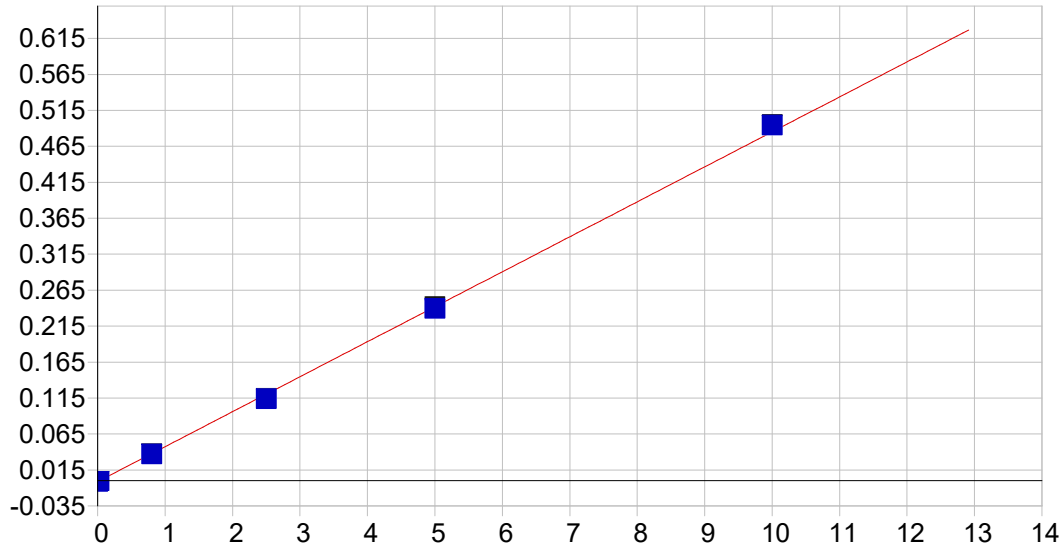
Si 288.158 {117}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.002526	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.016401		
Predicted MQL:	0.054670		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00011	.000	1
S1	.40000	.38516	-.015	-3.71	.00108	.000	1
S3	2.5000	2.4731	-.027	-1.08	.00645	.000	1
S4	5.0000	4.9283	-.072	-1.43	.01275	.000	1
S5	10.000	10.155	.155	1.55	.02614	.000	1
S2	.80000	.75802	-.042	-5.25	.00205	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



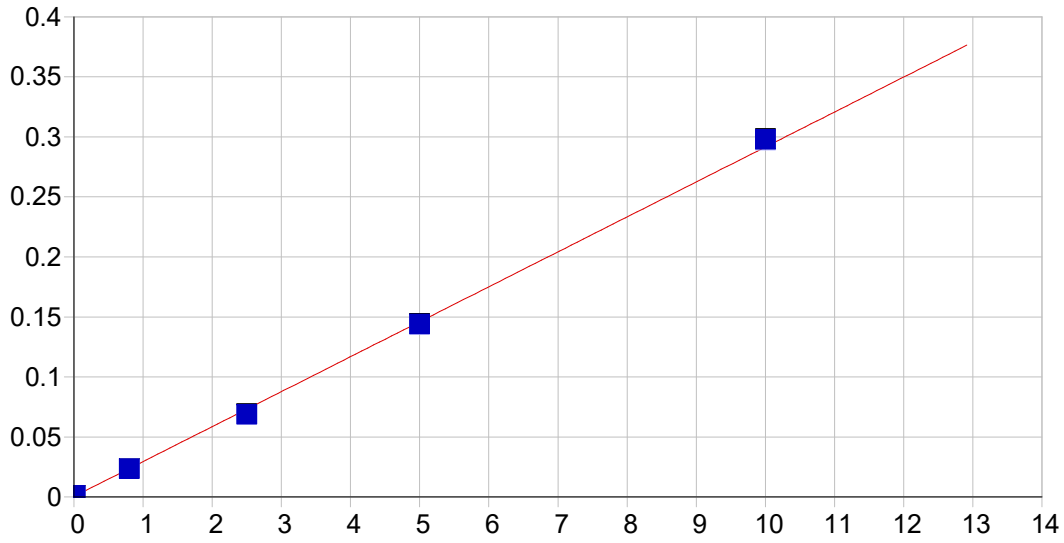
P 177.495 {490}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001271	Re-Slope:	1.000000
A1 (Gain):	0.048634	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999693	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.001598		
Predicted MQL:	0.005326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00127	.000	1
S1	.02000	.01934	-.001	-3.31	-.00033	.000	1
S3	2.5000	2.3669	-.133	-5.32	.11382	.000	1
S4	5.0000	4.9549	-.045	-.902	.23967	.002	1
S5	10.000	10.190	.190	1.90	.49422	.000	1
S2	.80000	.78902	-.011	-1.37	.03710	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



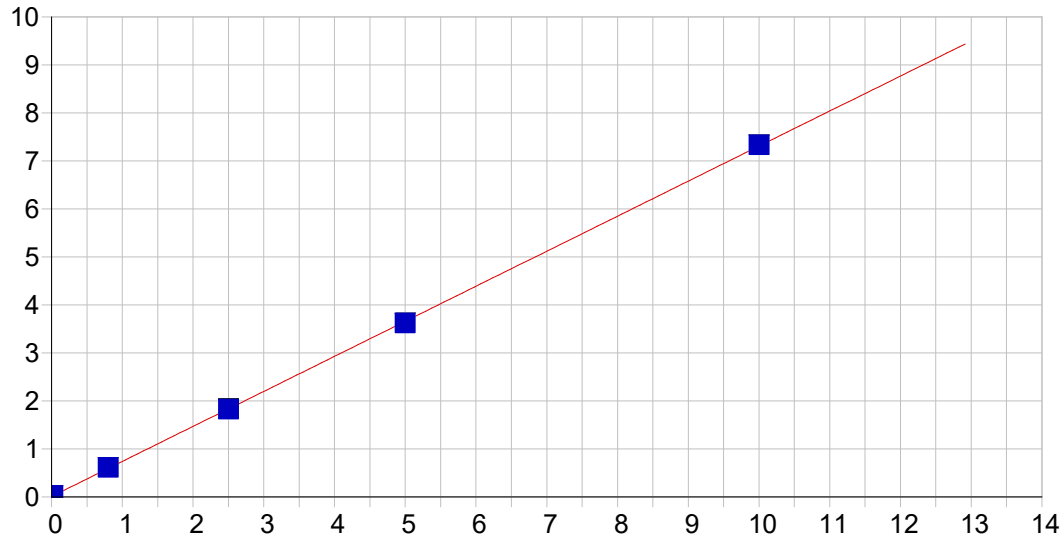
S 182.034 {485}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000327	Re-Slope:	1.000000
A1 (Gain):	0.029126	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999573	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.002903		
Predicted MQL:	0.009677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00033	.000	1
S1	.02000	.02444	.004	22.2	.00101	.000	1
S3	2.5000	2.3519	-.148	-5.93	.06864	.000	1
S4	5.0000	4.9287	-.071	-1.43	.14350	.001	1
S5	10.000	10.219	.219	2.19	.29720	.001	1
S2	.80000	.79656	-.003	-.430	.02347	.000	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



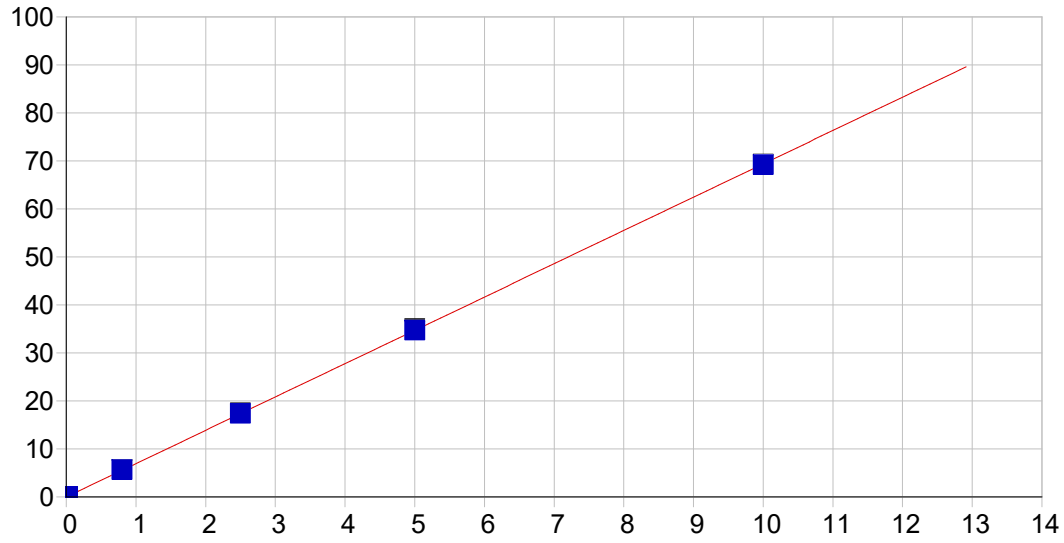
Li 670.784 { 50}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008363	Re-Slope:	1.000000
A1 (Gain):	0.730022	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000191		
Predicted MDL:	0.002609		
Predicted MQL:	0.008696		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00836	.002	1
S5	10.000	10.030	.030	.296	7.3360	.006	1
S4	5.0000	4.9487	-.051	-1.03	3.6239	.007	1
S3	2.5000	2.4904	-.010	-.384	1.8279	.011	1
S1	.02000	.02368	.004	18.4	.02590	.001	1
S2	.80000	.82754	.028	3.44	.61296	.001	1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



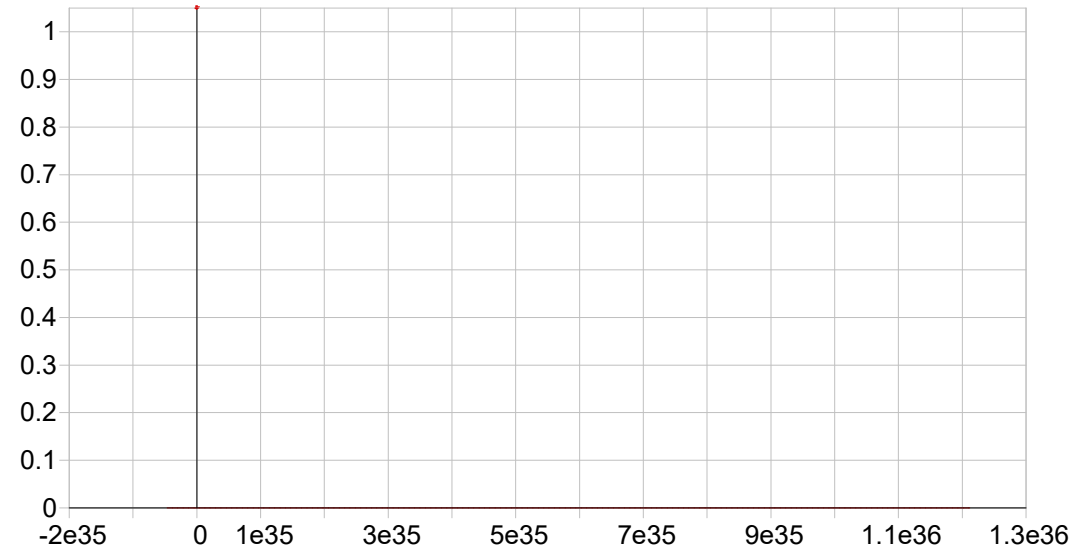
Sr 407.771 { 83}

Date of Fit:	10/1/2025 15:21:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001809	Re-Slope:	1.000000
A1 (Gain):	6.938517	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000793		
Predicted MDL:	0.000146		
Predicted MQL:	0.000488		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00180	.001	1
S1	.02000	.02164	.002	8.18	.15260	.001	1
S3	2.5000	2.5036	.004	.144	17.390	.105	1
S4	5.0000	5.0042	.004	.083	34.757	.260	1
S5	10.000	9.9768	-.023	-.232	69.292	.068	1
S2	.80000	.81382	.014	1.73	5.6539	.021	1

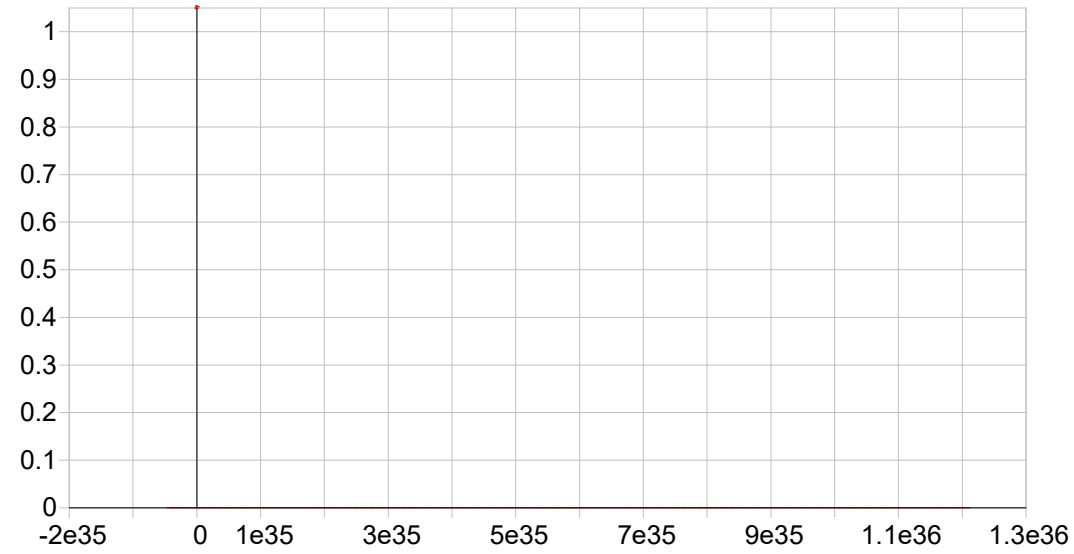
Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



Y 224.306 {450}*

Date of Fit:	10/1/2025 15:21:36	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



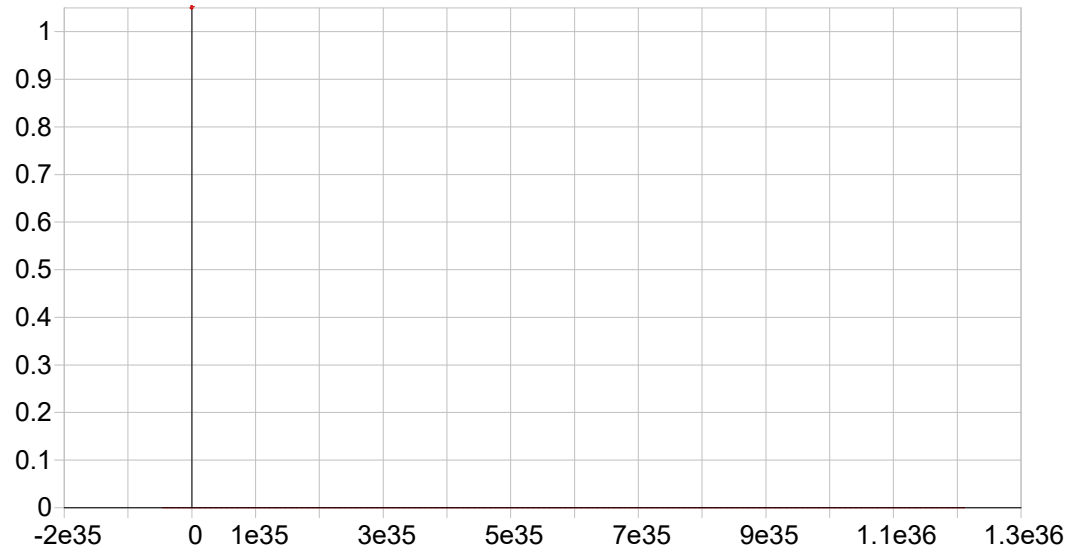
Y 360.073 { 94}*

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:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

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



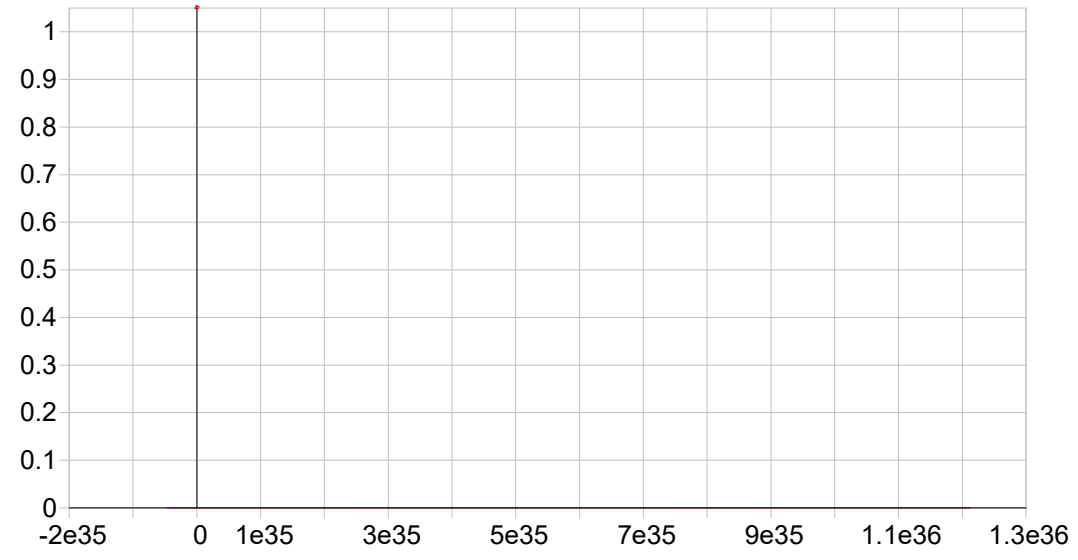
Y 371.030 { 91}*

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

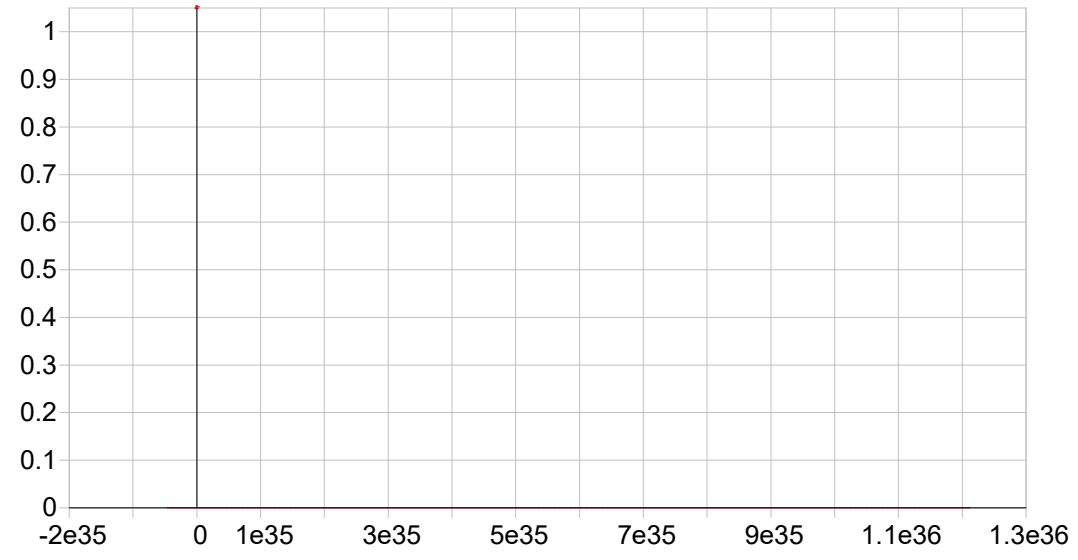
Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389



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:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

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:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S0 Acquired: 10/1/2025 12:08:26 Type: Cal
Method: 6010-200.7 NEW(v240) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00003**	**.00042**	**.00035**	**.00047**	**.00083**	**-.00081**	**.08459**	**-.00185**
Stddev	.00004	.00002	.00011	.00010	.00005	.00021	.00128	.00075
%RSD	167.10	5.5530	32.277	20.236	5.7322	25.788	1.5182	40.354
#1	.00002	.00043	.00047	.00043	.00083	-.00098	.08326	-.00237
#2	-.00005	.00039	.00033	.00040	.00087	-.00086	.08582	-.00217
#3	-.00005	.00043	.00025	.00058	.00078	-.00058	.08468	-.00099

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	**-.00035**	**.00031**	**.00016**	**.00002**	**.00079**	**.00001**	**-.00003**	**-.00029**
Stddev	.00011	.00051	.00003	.00016	.00023	.00001	.00014	.00012
%RSD	30.264	164.13	20.162	753.97	29.395	83.416	505.46	39.947
#1	-.00040	-.00027	.00016	.00017	.00067	.00001	.00011	-.00035
#2	-.00043	.00053	.00013	.00004	.00063	.00000	-.00018	-.00016
#3	-.00023	.00067	.00019	-.00014	.00105	.00002	-.00002	-.00037

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	**-.00049**	**-.00076**	**.00204**	**-.00041**	**.00481**	**-.00029**	**.01330**	**.00043**
Stddev	.00013	.00006	.00012	.00016	.00087	.00015	.00066	.00005
%RSD	26.871	7.4032	5.7428	40.473	18.043	50.919	4.9474	11.967
#1	-.00035	-.00078	.00198	-.00030	.00580	-.00021	.01349	.00037
#2	-.00052	-.00080	.00217	-.00032	.00440	-.00019	.01257	.00047
#3	-.00061	-.00069	.00196	-.00060	.00422	-.00046	.01385	.00044

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	**.00461**	**.00167**	**.00011**	**-.00127**	**.00033**	**.00836**	**.00180**
Stddev	.00005	.00101	.00003	.00004	.00007	.00186	.00078
%RSD	1.1935	60.062	26.976	3.0505	20.526	22.196	43.517
#1	.00454	.00056	.00011	-.00123	.00035	.00672	.00269
#2	.00464	.00250	.00008	-.00129	.00025	.00799	.00142
#3	.00464	.00196	.00014	-.00130	.00038	.01037	.00127

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S0 Acquired: 10/1/2025 12:08:26 Type: Cal
Method: 6010-200.7 NEW(v240) 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	6693.5	96538.	7727.2	5205.8	8303.4
Stddev	16.8	193.	38.6	16.6	12.0
%RSD	.25106	.19964	.49944	.31904	.14482
#1	6712.5	96761.	7682.6	5218.1	8317.3
#2	6687.8	96432.	7750.5	5212.5	8296.7
#3	6680.4	96422.	7748.4	5186.9	8296.3

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S1 Acquired: 10/1/2025 12:12:50 Type: Cal
Method: 6010-200.7 NEW(v240) 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	**.00114**	**.00312**	**.00269**	**.00143**	**.00521**	**.00860**	**.25387**	**.05928**
Stddev	.00006	.00001	.00036	.00008	.00009	.00039	.00084	.00062
%RSD	5.4098	.43861	13.335	5.3523	1.7694	4.4914	.33140	1.0474
#1	.00108	.00313	.00278	.00138	.00511	.00879	.25316	.05943
#2	.00120	.00311	.00229	.00139	.00526	.00886	.25365	.05982
#3	.00115	.00310	.00299	.00152	.00528	.00816	.25480	.05860

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	**.01795**	**.11233**	**.00234**	**.02434**	**.01434**	**.00029**	**.00866**	**.02460**
Stddev	.00017	.00040	.00011	.00002	.00006	.00002	.00024	.00048
%RSD	.92415	.35816	4.8088	.09654	.45231	5.3685	2.7884	1.9581
#1	.01776	.11205	.00242	.02436	.01441	.00030	.00868	.02503
#2	.01804	.11279	.00221	.02434	.01428	.00027	.00841	.02469
#3	.01806	.11216	.00238	.02431	.01433	.00029	.00889	.02408

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	**.02314**	**.00130**	**.01550**	**.00438**	**.10605**	**.00690**	**.08316**	**.13398**
Stddev	.00007	.00007	.00014	.00029	.00074	.00023	.00018	.00004
%RSD	.28445	5.0806	.92087	6.5783	.69807	3.3444	.21403	.03178
#1	.02311	.00125	.01539	.00464	.10624	.00666	.08331	.13401
#2	.02321	.00127	.01545	.00442	.10524	.00692	.08296	.13400
#3	.02309	.00137	.01566	.00407	.10668	.00712	.08320	.13393

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	**.01085**	**.01267**	**.00108**	**-.00033**	**.00101**	**.02590**	**.15260**
Stddev	.00010	.00039	.00006	.00005	.00006	.00080	.00096
%RSD	.92843	3.0996	5.1587	15.967	6.3819	3.1055	.62778
#1	.01084	.01280	.00111	-.00030	.00104	.02532	.15152
#2	.01095	.01299	.00111	-.00039	.00094	.02682	.15334
#3	.01075	.01223	.00102	-.00030	.00106	.02556	.15294

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S1 Acquired: 10/1/2025 12:12:50 Type: Cal
Method: 6010-200.7 NEW(v240) 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	**6617.0**	**90152.**	**7781.4**	**5024.5**	**8003.0**
Stddev	17.4	365.	52.4	17.8	15.6
%RSD	.26226	.40532	.67363	.35369	.19544
#1	6602.5	90551.	7722.2	5043.5	7990.8
#2	6612.2	90071.	7799.7	5021.8	7997.6
#3	6636.3	89834.	7822.1	5008.2	8020.6

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S2 Acquired: 10/1/2025 12:17:05 Type: Cal
Method: 6010-200.7 NEW(v240) 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	**.04252**	**.05677**	**.15710**	**.03801**	**.07227**	**.12648**	**2.7542**	**.39787**
Stddev	.00009	.00173	.00061	.00002	.00006	.00044	.0125	.00331
%RSD	.20862	3.0513	.38577	.06472	.08727	.34905	.45330	.83187
#1	.04262	.05554	.15703	.03801	.07234	.12699	2.7497	.40039
#2	.04250	.05602	.15653	.03798	.07222	.12617	2.7446	.39412
#3	.04244	.05875	.15773	.03803	.07225	.12629	2.7683	.39910

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	**1.1940**	**.21982**	**.03454**	**.32192**	**.13368**	**.00197**	**.16358**	**.04736**
Stddev	.0017	.00096	.00015	.00033	.00022	.00004	.00049	.00045
%RSD	.14299	.43668	.42669	.10348	.16801	1.7944	.30076	.94397
#1	1.1924	.21881	.03445	.32221	.13373	.00194	.16308	.04684
#2	1.1937	.21992	.03471	.32156	.13344	.00196	.16361	.04763
#3	1.1958	.22072	.03446	.32199	.13389	.00201	.16406	.04760

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	**.23568**	**.03891**	**.02656**	**.04850**	**.98242**	**.01316**	**.59087**	**.54389**
Stddev	.00032	.00013	.00025	.00010	.00067	.00040	.00432	.00120
%RSD	.13584	.34140	.93467	.20394	.06832	3.0266	.73120	.21994
#1	.23535	.03876	.02633	.04839	.98175	.01270	.59558	.54388
#2	.23599	.03903	.02652	.04857	.98241	.01340	.58708	.54271
#3	.23572	.03893	.02683	.04855	.98310	.01338	.58995	.54510

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	**.12611**	**.21936**	**.00205**	**.03710**	**.02347**	**.61296**	**5.6539**
Stddev	.00027	.00055	.00001	.00012	.00019	.00125	.0208
%RSD	.21199	.24998	.68021	.31287	.81595	.20398	.36791
#1	.12591	.21883	.00206	.03721	.02334	.61358	5.6501
#2	.12601	.21993	.00204	.03697	.02338	.61152	5.6352
#3	.12642	.21933	.00206	.03711	.02369	.61377	5.6763

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S2 Acquired: 10/1/2025 12:17:05 Type: Cal
Method: 6010-200.7 NEW(v240) 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	6584.6	96895.	7790.3	5121.6	7874.1
Stddev	10.8	631.	33.6	41.9	5.0
%RSD	.16393	.65149	.43175	.81898	.06361
#1	6574.1	97253.	7754.2	5166.8	7869.7
#2	6595.7	96166.	7795.7	5083.9	7879.5
#3	6584.1	97266.	7820.9	5114.2	7873.0

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S3 Acquired: 10/1/2025 12:21:06 Type: Cal
Method: 6010-200.7 NEW(v240) 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	**.12684**	**.15659**	**.47259**	**.11073**	**.21424**	**.38391**	**8.3860**	**1.2192**
Stddev	.00023	.00269	.00044	.00041	.00064	.00120	.0571	.0040
%RSD	.18393	1.7197	.09384	.36939	.29838	.31157	.68112	.32995
#1	.12706	.15528	.47295	.11082	.21487	.38253	8.4516	1.2163
#2	.12659	.15481	.47209	.11028	.21359	.38472	8.3593	1.2238
#3	.12686	.15969	.47273	.11108	.21425	.38447	8.3471	1.2175

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	**3.6018**	**.67726**	**.10698**	**.96984**	**.39541**	**.00635**	**.49847**	**.14277**
Stddev	.0045	.00068	.00047	.00153	.00087	.00004	.00142	.00065
%RSD	.12476	.10092	.43862	.15767	.22030	.61990	.28391	.45471
#1	3.6067	.67804	.10727	.97159	.39641	.00639	.49972	.14234
#2	3.5979	.67696	.10723	.96916	.39488	.00634	.49877	.14244
#3	3.6007	.67677	.10644	.96877	.39494	.00631	.49694	.14351

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	**.70542**	**.12266**	**.08078**	**.14888**	**3.0150**	**.04318**	**1.7747**	**1.6483**
Stddev	.00052	.00027	.00082	.00134	.0037	.00028	.0082	.0037
%RSD	.07320	.22184	1.0139	.89685	.12427	.65575	.46396	.22220
#1	.70592	.12267	.08169	.15035	3.0182	.04347	1.7668	1.6502
#2	.70545	.12292	.08053	.14854	3.0159	.04316	1.7833	1.6441
#3	.70489	.12238	.08011	.14774	3.0109	.04291	1.7739	1.6506

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	**.37646**	**.67229**	**.00645**	**.11382**	**.06864**	**1.8279**	**17.390**
Stddev	.00098	.00287	.00000	.00049	.00043	.0113	.105
%RSD	.25906	.42621	.01979	.43257	.62193	.61904	.60100
#1	.37716	.67539	.00645	.11372	.06862	1.8408	17.508
#2	.37534	.67171	.00645	.11339	.06822	1.8232	17.353
#3	.37686	.66975	.00645	.11436	.06907	1.8196	17.308

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S3 Acquired: 10/1/2025 12:21:06 Type: Cal
Method: 6010-200.7 NEW(v240) 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	6662.9	91470.	7727.8	5006.0	7915.5
Stddev	8.2	255.	32.9	22.1	10.8
%RSD	.12281	.27928	.42598	.44070	.13592
#1	6653.5	91443.	7754.9	4985.4	7904.2
#2	6666.9	91228.	7691.1	5003.4	7916.6
#3	6668.3	91737.	7737.3	5029.2	7925.7

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S4 Acquired: 10/1/2025 12:25:01 Type: Cal
Method: 6010-200.7 NEW(v240) 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	.25673	.31405	.96113	.22286	.43149	.76450	16.866	2.3828
Stddev	.00064	.00508	.00068	.00045	.00067	.00162	.043	.0175
%RSD	.25071	1.6182	.07080	.20078	.15466	.21134	.25686	.73497
#1	.25619	.30820	.96035	.22240	.43109	.76264	16.826	2.3992
#2	.25744	.31738	.96155	.22330	.43226	.76530	16.912	2.3643
#3	.25657	.31658	.96151	.22289	.43112	.76555	16.860	2.3851

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	7.3967	1.3422	.20908	1.9783	.78881	.01254	.99398	.28428
Stddev	.0088	.0031	.00036	.0024	.00027	.00012	.00235	.00077
%RSD	.11939	.22729	.17090	.12250	.03422	.93613	.23681	.27050
#1	7.3884	1.3433	.20875	1.9755	.78909	.01241	.99149	.28516
#2	7.3958	1.3446	.20946	1.9796	.78881	.01264	.99618	.28375
#3	7.4060	1.3387	.20903	1.9798	.78855	.01257	.99426	.28393

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	1.4370	.24055	.16085	.29966	5.9126	.08579	3.5184	3.2904
Stddev	.0015	.00023	.00135	.00055	.0089	.00085	.0260	.0029
%RSD	.10587	.09648	.83966	.18427	.15135	.99315	.73997	.08866
#1	1.4355	.24030	.15952	.29909	5.9026	.08506	3.5441	3.2871
#2	1.4385	.24075	.16222	.30019	5.9197	.08673	3.4920	3.2926
#3	1.4370	.24060	.16080	.29971	5.9157	.08560	3.5191	3.2916

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	.76831	1.3403	.01275	.23967	.14350	3.6239	34.757
Stddev	.00127	.0029	.00011	.00186	.00070	.0070	.260
%RSD	.16591	.21536	.86819	.77716	.48491	.19302	.74765
#1	.76730	1.3370	.01265	.23758	.14271	3.6165	34.965
#2	.76974	1.3423	.01287	.24115	.14399	3.6248	34.839
#3	.76789	1.3417	.01272	.24027	.14380	3.6304	34.466

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S4 Acquired: 10/1/2025 12:25:01 Type: Cal
Method: 6010-200.7 NEW(v240) 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	6482.6	92951.	7732.9	5005.2	7505.1
Stddev	4.6	531.	43.7	40.6	2.7
%RSD	.07071	.57146	.56481	.81053	.03609
#1	6477.3	93054.	7685.4	5039.7	7505.9
#2	6485.6	92376.	7742.1	4960.5	7507.4
#3	6484.9	93423.	7771.3	5015.4	7502.1

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S5 Acquired: 10/1/2025 12:29:04 Type: Cal
Method: 6010-200.7 NEW(v240) 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	.51183	.65656	1.9527	.44121	.86214	1.5344	34.156	4.6946
Stddev	.00018	.00843	.0022	.00036	.00032	.0024	.573	.0250
%RSD	.03562	1.2840	.11537	.08155	.03728	.15657	1.6762	.53352
#1	.51172	.66545	1.9519	.44097	.86177	1.5331	34.796	4.6793
#2	.51204	.64868	1.9510	.44103	.86230	1.5330	33.694	4.6810
#3	.51173	.65555	1.9553	.44162	.86235	1.5372	33.977	4.7235

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	14.908	2.6807	.41112	4.0200	1.5511	.02511	1.9924	.57093
Stddev	.020	.0036	.00133	.0033	.0007	.00016	.0044	.00180
%RSD	.13215	.13388	.32404	.08304	.04281	.62540	.21874	.31508
#1	14.903	2.6778	.41239	4.0209	1.5505	.02526	1.9973	.56900
#2	14.891	2.6795	.41123	4.0163	1.5510	.02513	1.9905	.57121
#3	14.930	2.6847	.40973	4.0228	1.5519	.02494	1.9893	.57257

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	2.9059	.48071	.32809	.60648	11.623	.17418	6.9830	6.5892
Stddev	.0020	.00054	.00381	.00033	.028	.00189	.0461	.0031
%RSD	.06862	.11276	1.1626	.05483	.23821	1.0865	.65966	.04768
#1	2.9058	.48038	.33132	.60654	11.591	.17546	6.9447	6.5881
#2	2.9039	.48133	.32907	.60677	11.644	.17507	6.9702	6.5868
#3	2.9079	.48041	.32388	.60611	11.632	.17201	7.0341	6.5928

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	1.5510	2.7024	.02614	.49422	.29720	7.3360	69.292
Stddev	.0024	.0007	.00009	.00048	.00080	.0059	.068
%RSD	.15753	.02430	.35807	.09623	.26832	.08009	.09877
#1	1.5510	2.7025	.02612	.49401	.29764	7.3428	69.250
#2	1.5485	2.7017	.02624	.49389	.29628	7.3330	69.371
#3	1.5533	2.7030	.02605	.49477	.29767	7.3323	69.256

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: S5 Acquired: 10/1/2025 12:29:04 Type: Cal
Method: 6010-200.7 NEW(v240) 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	6404.4	92283.	7670.3	4939.6	7252.5
Stddev	14.2	534.	36.9	8.0	19.1
%RSD	.22128	.57890	.48169	.16109	.26282
#1	6415.2	91701.	7664.4	4934.5	7264.0
#2	6409.6	92399.	7709.9	4935.7	7263.1
#3	6388.3	92750.	7636.7	4948.8	7230.5

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICV01 Acquired: 10/1/2025 12:33:16 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**3.987510**	**3.946016**	**3.857369**	**4.037932**	**4.078088**	**7.801712**
Stddev	.009387	.053240	.003160	.005269	.013162	.027526
%RSD	.2354133	1.349212	.0819313	.1304812	.3227394	.3528251
#1	3.976678	3.988621	3.854086	4.043137	4.072120	7.790447
#2	3.993275	3.963095	3.857631	4.038057	4.068969	7.781606
#3	3.992577	3.886332	3.860390	4.032602	4.093177	7.833085

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.676462**	**.1983321**	**1.969638**	**19.41304**	**.7957866**	**1.962989**
Stddev	.060002	.0009940	.001214	.03652	.0028640	.003017
%RSD	.7816307	.5011801	.0616169	.1881326	.3598935	.1536719
#1	7.745745	.1990998	1.968404	19.44271	.7924796	1.959513
#2	7.641891	.1972094	1.970830	19.37225	.7974371	1.964931
#3	7.641748	.1986872	1.969682	19.42415	.7974432	1.964521

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.010585**	**3.858220**	**1.940340**	**19.50404**	**1.968257**	**.9450540**
Stddev	.001738	.012246	.015160	.10219	.002016	.0037730
%RSD	.1720035	.3174120	.7813104	.5239301	.1024421	.3992344
#1	1.009319	3.872115	1.957522	19.59674	1.965930	.9407239
#2	1.009870	3.853548	1.928849	19.39447	1.969357	.9468029
#3	1.012567	3.848998	1.934647	19.52093	1.969484	.9476352

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.88616**	**1.933570**	**1.965397**	**19.11538**	**3.952258**	**4.027044**
Stddev	.10417	.000382	.009437	.12762	.028332	.008540
%RSD	.5515584	.0197752	.4801375	.6676089	.7168619	.2120581
#1	18.99411	1.933704	1.958773	19.00071	3.979144	4.021421
#2	18.87813	1.933138	1.961218	19.25286	3.922673	4.022840
#3	18.78624	1.933867	1.976202	19.09256	3.954955	4.036870

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICV01 Acquired: 10/1/2025 12:33:16 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**4.011004**	**3.965928**	F **3.591720**	F **.0054704**	F **.0263439**	F **.0007038**
Stddev	.008482	.024654	.033861	.0007524	.0033061	.0023199
%RSD	.2114636	.6216417	.9427503	13.75362	12.54966	329.6107
#1	4.017938	3.994395	3.554524	.0055586	.0233009	.0005534
#2	4.013527	3.951593	3.599883	.0046778	.0298617	.0030953
#3	4.001547	3.951795	3.620754	.0061748	.0258691	-.001537

Elem	Sr4077
Units	ppm
Avg	F **-.002948**
Stddev	.000252
%RSD	8.536281
#1	-.002658
#2	-.003108
#3	-.003079

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6555.468**	**94494.18**	**7824.709**	**5078.157**	**7675.507**
Stddev	13.715	292.22	31.437	29.500	4.213
%RSD	.2092118	.3092435	.4017660	.5809153	.0548899
#1	6562.226	94831.60	7799.943	5108.847	7677.084
#2	6564.492	94325.87	7860.076	5075.612	7670.733
#3	6539.685	94325.06	7814.108	5050.012	7678.704

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LLICV01 Acquired: 10/1/2025 12:41:07 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0211281	.0428084	.0111314	.0204582	.0494533	.1123373	.0988665
Stddev	.0026624	.0016152	.0006906	.0019200	.0005098	.0143226	.0013372
%RSD	12.60114	3.773118	6.204320	9.384875	1.030875	12.74960	1.352491
#1	.0242019	.0444273	.0116394	.0226741	.0489923	.1215028	.0983894
#2	.0196348	.0411969	.0114098	.0194104	.0500008	.0958327	.0978334
#3	.0195475	.0428009	.0103450	.0192901	.0493668	.1196763	.1003768

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062870	.0059667	2.056529	.0098715	.0299909	.0212685	.1067113
Stddev	.0000289	.0000204	.008117	.0003497	.0002194	.0000509	.0008489
%RSD	.4594725	.3419365	.3947159	3.542281	.7315192	.2391736	.7955104
#1	.0062980	.0059818	2.049414	.0100078	.0302442	.0212509	.1074671
#2	.0062542	.0059749	2.065371	.0101325	.0298585	.0212288	.1068740
#3	.0063086	.0059435	2.054802	.0094742	.0298701	.0213259	.1057929

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208758	2.152783	.0399518	.0099428	1.872496	.0409192	.0414841
Stddev	.0003692	.036954	.0001145	.0001635	.016554	.0014552	.0005939
%RSD	1.768422	1.716579	.2866901	1.644401	.8840443	3.556183	1.431530
#1	.0204933	2.184966	.0400807	.0097894	1.857215	.0405483	.0416215
#2	.0209042	2.112426	.0399130	.0101148	1.890081	.0425239	.0419973
#3	.0212300	2.160957	.0398617	.0099244	1.870193	.0396854	.0408336

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.879498	.1021335	.1995480	.0383289	.0400550	.3565633	.0190266
Stddev	.017958	.0016530	.0009089	.0006281	.0015074	.0013573	.0011712
%RSD	.9554786	1.618436	.4554645	1.638602	3.763215	.3806579	6.155677
#1	1.877417	.1025200	.2004637	.0390486	.0416470	.3553305	.0183924
#2	1.898406	.1003215	.1986461	.0378922	.0398685	.3580178	.0203781
#3	1.862671	.1035590	.1995342	.0380458	.0386496	.3563417	.0183092

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LLICV01 Acquired: 10/1/2025 12:41:07 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0218877	.0204224	.0210689
Stddev	.0024276	.0021377	.0002191
%RSD	11.09103	10.46726	1.040026
#1	.0212265	.0224029	.0212432
#2	.0245774	.0181563	.0211406
#3	.0198592	.0207079	.0208229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6865.200	98078.66	8045.992	5213.966	8421.779
Stddev	17.350	639.21	50.844	48.128	34.193
%RSD	.2527296	.6517347	.6319170	.9230524	.4060021
#1	6857.123	97859.32	8017.820	5195.970	8398.790
#2	6885.116	97577.99	8104.686	5177.429	8461.072
#3	6853.360	98798.66	8015.470	5268.498	8405.475

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICB01 Acquired: 10/1/2025 12:45:19 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001873**	**-.000853**	**.0014609**	**.0006875**	**-.000747**	**.0046491**
Stddev	.001195	.001390	.0009709	.0029488	.001078	.0096780
%RSD	63.78912	162.8869	66.46110	428.9058	144.2445	208.1685
#1	-.003198	-.002424	.0004401	.0015271	-.001361	-.004159
#2	-.001544	.000219	.0015699	.0031255	-.001379	.015009
#3	-.000878	-.000355	.0023727	-.002590	.000497	.003097

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025878**	**-.000085**	**.0000326**	**-.009691**	**.0003896**	**.0000589**
Stddev	.0030333	.000066	.0000391	.007164	.0003036	.0000381
%RSD	117.2176	77.99213	120.0184	73.92399	77.91978	64.70207
#1	.0001231	-.000013	-.000003	-.004255	.0002881	.0001012
#2	.0059754	-.000143	.000027	-.007009	.0007309	.0000273
#3	.0016648	-.000100	.000074	-.017810	.0001498	.0000482

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000441**	**.0095035**	**.0005787**	**-.008277**	**-.000005**	**-.000121**
Stddev	.000099	.0011880	.0008689	.015129	.000122	.000852
%RSD	22.54457	12.50081	150.1584	182.7705	2563.997	706.0537
#1	-.000456	.0081317	.0001007	.006949	.000072	-.000844
#2	-.000335	.0101872	.0015817	-.023306	.000059	-.000336
#3	-.000531	.0101916	.0000536	-.008475	-.000145	.000818

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.263900**	**.0011251**	**-.000316**	**-.341647**	**-.002596**	**.0003498**
Stddev	.023734	.0021962	.000188	.023940	.000279	.0000668
%RSD	8.993737	195.2097	59.39547	7.007205	10.75366	19.10142
#1	-.291175	-.000478	-.000337	-.358265	-.002918	.0004135
#2	-.247945	.003628	-.000492	-.352469	-.002446	.0002803
#3	-.252579	.000224	-.000119	-.314207	-.002424	.0003555

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICB01 Acquired: 10/1/2025 12:45:19 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.028764	.0014422	.0053008	.0010514	-.001622	F -.011372
Stddev	.000323	.0022636	.0075888	.0004466	.000121	.000950
%RSD	1.122170	156.9540	143.1627	42.47732	7.440531	8.353575
#1	-.028819	-.000818	.0038510	.0011521	-.001602	-.011935
#2	-.028417	.003709	.0135100	.0014390	-.001512	-.011904
#3	-.029055	.001435	-.001458	.0005630	-.001751	-.010275

Elem	Sr4077
Units	ppm
Avg	.0000242
Stddev	.0000449
%RSD	185.2275
#1	.0000755
#2	-.000008
#3	.000005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6980.737	97071.61	7965.323	5249.972	8819.917
Stddev	8.674	155.53	16.107	19.743	3.131
%RSD	.1242500	.1602220	.2022083	.3760587	.0354984
#1	6984.714	96919.56	7977.976	5234.638	8821.404
#2	6970.788	97064.88	7970.802	5243.030	8822.028
#3	6986.708	97230.40	7947.192	5272.249	8816.320

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CRI01 Acquired: 10/1/2025 12:49:37 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.0219448**	**.0421545**	**.0115018**	**.0189698**	**.0501344**	**.1048325**	**.0978361**
Stddev	.0029521	.0012852	.0008099	.0014139	.0013144	.0221621	.0003785
%RSD	13.45231	3.048801	7.041752	7.453426	2.621805	21.14045	.3869110
#1	.0253414	.0434602	.0107672	.0198492	.0514750	.1277209	.0978473
#2	.0204952	.0421124	.0113677	.0173388	.0488479	.1033006	.0974521
#3	.0199977	.0408908	.0123703	.0197214	.0500802	.0834762	.0982089

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063568**	**.0059349**	**2.073447**	**.0104174**	**.0295811**	**.0212604**	**.1026406**
Stddev	.0000573	.0000070	.008380	.0002408	.0002693	.0003488	.0072658
%RSD	.9010089	.1183432	.4041602	2.311934	.9104485	1.640395	7.078906
#1	.0064156	.0059318	2.068250	.0106390	.0294044	.0212553	.0978292
#2	.0063537	.0059430	2.083114	.0101611	.0298911	.0209143	.0990940
#3	.0063012	.0059300	2.068976	.0104521	.0294478	.0216117	.1109986

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217446**	**2.146543**	**.0398430**	**.0101078**	**1.926855**	**.0406426**	**.0418215**
Stddev	.0006822	.009958	.0000712	.0004774	.010994	.0041605	.0002169
%RSD	3.137259	.4639009	.1788150	4.723190	.5705830	10.23672	.5187511
#1	.0221433	2.147752	.0399142	.0095950	1.915355	.0372591	.0420344
#2	.0209569	2.136036	.0397717	.0105394	1.937262	.0393807	.0416007
#3	.0221336	2.155842	.0398431	.0101891	1.927946	.0452879	.0418294

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.913465**	**.0977077**	**.1993668**	**.0377733**	**.0400251**	**.3604042**	**.0193478**
Stddev	.015516	.0018744	.0003540	.0001686	.0015252	.0103661	.0017942
%RSD	.8108918	1.918328	.1775441	.4463108	3.810727	2.876237	9.273141
#1	1.928738	.0971412	.1989593	.0375788	.0417818	.3503283	.0172765
#2	1.913941	.0998000	.1995430	.0378634	.0390379	.3710379	.0204190
#3	1.897717	.0961820	.1995981	.0378776	.0392557	.3598465	.0203479

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CRI01 Acquired: 10/1/2025 12:49:37 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0211472	.0189919	.0213220
Stddev	.0010804	.0022756	.0001488
%RSD	5.108837	11.98222	.6976322
#1	.0210242	.0187978	.0214755
#2	.0201336	.0213583	.0213120
#3	.0222838	.0168195	.0211785

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6847.682	95835.68	7973.646	5222.337	8413.050
Stddev	8.479	113.00	71.020	22.978	5.669
%RSD	.1238209	.1179079	.8906841	.4399943	.0673827
#1	6843.542	95710.37	7921.041	5215.663	8408.024
#2	6857.435	95866.87	7945.466	5203.435	8419.195
#3	6842.068	95929.81	8054.431	5247.913	8411.932

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSA01 Acquired: 10/1/2025 12:53:49 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.0032651**	**.0030827**	**.0004392**	**.0063049**	**-.000714**	**247.4030**
Stddev	.0006112	.0036646	.0004096	.0015233	.000281	.1293
%RSD	18.71864	118.8764	93.25210	24.15966	39.31120	.0522582
#1	.0038735	.0022874	.0008624	.0045730	-.000398	247.3294
#2	.0026511	.0070797	.0000448	.0074364	-.000935	247.5523
#3	.0032708	-.000119	.0004104	.0069055	-.000808	247.3274

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046872**	**.0017253**	**.0006064**	**236.3443**	**.0476446**	**.0011643**
Stddev	.0019349	.0000973	.0000395	.1108	.0002203	.0003623
%RSD	41.28106	5.641269	6.518704	.0468995	.4623191	31.11758
#1	.0028075	.0017352	.0005608	236.3702	.0473909	.0012435
#2	.0066730	.0018172	.0006303	236.4399	.0477563	.0014805
#3	.0045812	.0016233	.0006282	236.2228	.0477867	.0007690

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108638**	**97.37044**	**.0088891**	**249.4819**	**.0034550**	**.0004058**
Stddev	.0009065	.80404	.0008636	.4331	.0005766	.0009517
%RSD	8.344231	.8257494	9.715088	.1736047	16.68941	234.4979
#1	.0098310	98.24974	.0081326	249.0241	.0038008	.0013606
#2	.0115273	96.67272	.0087045	249.8852	.0027893	.0003996
#3	.0112332	97.18886	.0098300	249.5364	.0037748	-.000543

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0799359**	**.0065592**	**.0027845**	**.8145433**	**-.007280**	**.0007263**
Stddev	.0081587	.0011220	.0002186	.0322920	.005379	.0005532
%RSD	10.20659	17.10567	7.850122	3.964432	73.89017	76.16860
#1	.0809166	.0058863	.0025709	.7833913	-.001086	.0003638
#2	.0875599	.0078545	.0027749	.8123729	-.009971	.0004520
#3	.0713311	.0059369	.0030078	.8478658	-.010783	.0013630

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSA01 Acquired: 10/1/2025 12:53:49 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.009065	-.003624	.0045799	F .2326561	-.002178	F -.026832
Stddev	.000156	.001736	.0208888	.0008710	.002001	.002368
%RSD	1.723055	47.91329	456.0991	.3743611	91.85998	8.825379
#1	-.008890	-.001824	.0017097	.2324365	-.004487	-.024267
#2	-.009116	-.003759	-.014725	.2336158	-.001091	-.027295
#3	-.009190	-.005289	.026755	.2319159	-.000956	-.028935

Elem	Sr4077
Units	ppm
Avg	.0063898
Stddev	.0007142
%RSD	11.17720
#1	.0058320
#2	.0071948
#3	.0061426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6142.087	87919.35	7616.717	4730.770	6944.286
Stddev	17.932	81.87	58.588	9.009	27.395
%RSD	.2919489	.0931194	.7692059	.1904340	.3944977
#1	6132.960	88002.65	7667.575	4738.702	6941.301
#2	6162.746	87838.99	7552.653	4720.975	6973.052
#3	6130.555	87916.42	7629.923	4732.633	6918.506

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSAB01 Acquired: 10/1/2025 12:57:58 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.1104115	.1183859	.0484674	.0545820	.6180040	246.9581
Stddev	.0014651	.0046338	.0017625	.0034159	.0011396	.5648
%RSD	1.326990	3.914152	3.636444	6.258213	.1844029	.2287004
#1	.1102010	.1152026	.0484111	.0543398	.6189333	247.4558
#2	.1090630	.1237021	.0502573	.0581126	.6167325	247.0742
#3	.1119705	.1162531	.0467337	.0512937	.6183462	246.3443

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4958198	.5051227	1.005751	236.3350	.5535208	.5019784
Stddev	.0028713	.0040511	.000398	.8646	.0007045	.0001229
%RSD	.5790919	.8020081	.0395723	.3658255	.1272679	.0244858
#1	.4987551	.5069179	1.006077	237.0795	.5543276	.5018645
#2	.4956873	.5079661	1.005869	236.5387	.5530278	.5019621
#3	.4930172	.5004842	1.005308	235.3867	.5532069	.5021087

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5032024	98.09332	.4968300	248.6325	1.000745	.2092488
Stddev	.0009855	.38899	.0032628	.8726	.000382	.0006422
%RSD	.1958513	.3965477	.6567231	.3509509	.0381727	.3069001
#1	.5026701	98.37056	.4996513	249.1940	1.001111	.2099522
#2	.5025974	97.64865	.4975819	249.0762	1.000776	.2091003
#3	.5043396	98.26074	.4932569	247.6272	1.000349	.2086938

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0268751	.4889786	1.037570	.0333872	.9599752	1.018554
Stddev	.0342345	.0023106	.004073	.0351321	.0074767	.001046
%RSD	127.3835	.4725336	.3925521	105.2264	.7788384	.1026569
#1	.0260672	.4875308	1.041897	-.005871	.9639514	1.018186
#2	-.006948	.4916433	1.033811	.061870	.9646237	1.017742
#3	.061506	.4877616	1.037003	.044162	.9513507	1.019734

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSAB01 Acquired: 10/1/2025 12:57:58 Type: Unk
Method: 6010-200.7 NEW(v240) 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	1.015146	.9850970	.9713129	F .0071772	F .0059177	F -.029343
Stddev	.001387	.0070321	.0074843	.0021675	.0023864	.003057
%RSD	.1366253	.7138493	.7705395	30.19916	40.32663	10.41641
#1	1.016264	.9931684	.9719560	.0088264	.0079746	-.030166
#2	1.015581	.9818297	.9635277	.0079831	.0064774	-.031905
#3	1.013594	.9802930	.9784549	.0047223	.0033012	-.025960

Elem	Sr4077
Units	ppm
Avg	F .0057488
Stddev	.0008377
%RSD	14.57132
#1	.0059686
#2	.0064546
#3	.0048231

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6093.776	88257.99	7743.237	4714.371	6894.714
Stddev	6.265	193.12	74.391	7.217	10.910
%RSD	.1028087	.2188085	.9607187	.1530885	.1582379
#1	6095.324	88099.50	7715.218	4708.410	6889.089
#2	6086.882	88201.38	7686.925	4722.395	6887.764
#3	6099.122	88473.08	7827.569	4712.309	6907.288

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSADLX20 Acquired: 10/1/2025 13:02:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.000008**	**.0003525**	**.0001021**	**.0043275**	**-.001555**	**12.47537**	**.0007046**
Stddev	.002206	.0008997	.0008496	.0007737	.001090	.04812	.0003764
%RSD	26799.35	255.1943	832.2419	17.87934	70.07446	.3857156	53.42364
#1	-.001316	-.000634	.0005556	.0039573	-.000307	12.52127	.0007960
#2	-.001248	.000564	-.000878	.0052168	-.002037	12.42530	.0002909
#3	.002539	.001127	.000629	.0038085	-.002321	12.47953	.0010269

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001782**	**-.000007**	**12.32160**	**.0020973**	**.0003681**	**.0002515**	**4.941254**
Stddev	.0000863	.000048	.03374	.0000420	.0000759	.0002391	.051690
%RSD	48.43763	676.1340	.2738096	2.002162	20.60970	95.06367	1.046083
#1	.0000791	.000048	12.28264	.0020532	.0003634	-.000023	4.916164
#2	.0002373	-.000033	12.34110	.0021368	.0004462	.000414	5.000699
#3	.0002182	-.000036	12.34105	.0021018	.0002947	.000363	4.906898

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006580**	**12.81721**	**-.000055**	**.0001615**	**-.096824**	**.0037890**	**-.000251**
Stddev	.0002903	.05110	.000292	.0002719	.015561	.0030561	.000172
%RSD	44.11314	.3986793	528.4372	168.3477	16.07111	80.65617	68.66921
#1	.0003231	12.84183	.000280	.0001487	-.114064	.0073172	-.000087
#2	.0008146	12.75846	-.000192	.0004395	-.092588	.0020841	-.000236
#3	.0008364	12.85133	-.000254	-.000104	-.083820	.0019657	-.000430

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.179902**	**-.009105**	**.0000971**	**-.006789**	**.0020001**	**-.008892**	**.0115769**
Stddev	.022334	.000898	.0000625	.000534	.0008783	.011197	.0000549
%RSD	12.41437	9.867682	64.40808	7.863482	43.91175	125.9197	.4739305
#1	-.160058	-.008071	.0000276	-.007383	.0011293	-.014761	.0115269
#2	-.204088	-.009559	.0001148	-.006636	.0028857	.004019	.0115681
#3	-.175561	-.009687	.0001488	-.006349	.0019855	-.015935	.0116356

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSADLX20 Acquired: 10/1/2025 13:02:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0001185	-.005801	.0004725
Stddev	.0013398	.000155	.0000572
%RSD	1130.473	2.671177	12.09955
#1	-.001013	-.005726	.0004124
#2	.001598	-.005979	.0004788
#3	-.000229	-.005697	.0005262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6797.484	94705.62	7923.109	5147.308	8303.228
Stddev	13.595	261.90	42.827	8.576	13.376
%RSD	.1999953	.2765434	.5405355	.1666187	.1610972
#1	6790.272	94962.90	7889.807	5137.538	8290.445
#2	6813.165	94714.64	7971.421	5153.595	8317.127
#3	6789.016	94439.32	7908.099	5150.791	8302.112

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSABDLX20 Acquired: 10/1/2025 13:06:14 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0053085	.0052400	.0032045	.0023098	.0290325	12.29810	.0261225
Stddev	.0017743	.0017682	.0006587	.0008050	.0021212	.04748	.0002743
%RSD	33.42386	33.74406	20.55555	34.84938	7.306311	.3860860	1.049913
#1	.0041010	.0033824	.0024729	.0022397	.0296453	12.27203	.0259485
#2	.0044787	.0054350	.0037505	.0031475	.0307799	12.35291	.0264387
#3	.0073456	.0069026	.0033900	.0015422	.0266724	12.26937	.0259804

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259830	.0476031	12.14992	.0275328	.0237878	.0251175	4.794232
Stddev	.0002103	.0001598	.05591	.0002809	.0001449	.0002738	.023758
%RSD	.8095314	.3356070	.4601517	1.020152	.6092597	1.089900	.4955503
#1	.0257405	.0477004	12.13301	.0278312	.0239514	.0249826	4.813909
#2	.0261162	.0474187	12.21234	.0274935	.0237366	.0249373	4.800949
#3	.0260923	.0476901	12.10442	.0272735	.0236755	.0254325	4.767839

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262101	12.71305	.0479349	.0098313	-.104677	.0265887	.0503197
Stddev	.0006866	.13947	.0000490	.0003568	.018516	.0031354	.0001827
%RSD	2.619503	1.097063	.1021857	3.629154	17.68889	11.79219	.3631233
#1	.0260705	12.57128	.0479112	.0100531	-.094732	.0250398	.0504851
#2	.0269557	12.85011	.0479024	.0094197	-.093259	.0245291	.0503504
#3	.0256040	12.71777	.0479913	.0100210	-.126041	.0301971	.0501235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.233163	.0400952	.0499237	.0412557	.0493589	.0463617	.0004271
Stddev	.049788	.0002025	.0001159	.0003254	.0014690	.0073575	.0010923
%RSD	21.35330	.5051823	.2320489	.7886103	2.976155	15.86977	255.7522
#1	-.248019	.0402892	.0498290	.0416168	.0510512	.0458583	.0014077
#2	-.273832	.0401114	.0498892	.0411649	.0484130	.0392689	-.000750
#3	-.177638	.0398850	.0500529	.0409854	.0486123	.0539580	.000624

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: ICSABDLX20 Acquired: 10/1/2025 13:06:14 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0534256	.0399795	.0567472
Stddev	.0039030	.0033234	.0001878
%RSD	7.305552	8.312691	.3309677
#1	.0578176	.0372809	.0569595
#2	.0503539	.0436916	.0566029
#3	.0521055	.0389659	.0566791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6770.306	95284.62	7790.280	5178.435	8254.832
Stddev	17.028	842.06	27.257	46.977	20.939
%RSD	.2515057	.8837351	.3498808	.9071626	.2536607
#1	6782.797	94386.92	7810.612	5124.199	8259.604
#2	6777.211	95409.94	7759.308	5204.754	8272.973
#3	6750.911	96057.00	7800.920	5206.352	8231.918

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV01 Acquired: 10/1/2025 13:10:24 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**5.018127**	**5.195234**	**4.952851**	**5.031872**	**4.994827**	**9.991250**	**10.03077**
Stddev	.007450	.071042	.007225	.004928	.004627	.009989	.07328
%RSD	.1484603	1.367440	.1458664	.0979274	.0926310	.0999810	.7305613
#1	5.022251	5.166636	4.946939	5.029208	4.991560	9.995057	10.11059
#2	5.022604	5.276118	4.950712	5.037558	4.992800	9.979917	9.96654
#3	5.009527	5.142949	4.960904	5.028849	5.000122	9.998776	10.01518

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2535712**	**2.494821**	**25.08822**	**1.001359**	**2.482914**	**1.255369**	**4.923695**
Stddev	.0010692	.001719	.07243	.000480	.001300	.001069	.027414
%RSD	.4216413	.0689163	.2887085	.0479507	.0523684	.0851606	.5567758
#1	.2547939	2.492960	25.16499	1.000926	2.482517	1.256555	4.950223
#2	.2528118	2.495153	25.02109	1.001875	2.481859	1.254479	4.895474
#3	.2531079	2.496351	25.07860	1.001275	2.484367	1.255072	4.925390

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.522121**	**24.93390**	**2.486019**	**1.245506**	**24.70175**	**2.501034**	**2.509820**
Stddev	.016476	.07339	.001634	.002064	.11909	.013714	.003411
%RSD	.6532773	.2943451	.0657245	.1656804	.4821061	.5483455	.1359236
#1	2.540296	25.00627	2.485009	1.243129	24.79710	2.510176	2.508347
#2	2.508162	24.85952	2.485145	1.246547	24.56827	2.485265	2.507393
#3	2.517905	24.93590	2.487905	1.246842	24.73990	2.507662	2.513721

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.46102**	**5.065833**	**5.006854**	**4.990257**	**5.011373**	**4.804138**	**5.005645**
Stddev	.04083	.009662	.001670	.009299	.029634	.043617	.006332
%RSD	.1669003	.1907236	.0333622	.1863402	.5913447	.9078973	.1265025
#1	24.41410	5.074617	5.005042	4.982887	5.041325	4.761363	5.005599
#2	24.48849	5.055484	5.008332	5.000705	4.982067	4.802502	5.011999
#3	24.48045	5.067398	5.007189	4.987181	5.010727	4.848551	4.999335

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV01 Acquired: 10/1/2025 13:10:24 Type: Unk
Method: 6010-200.7 NEW(v240) 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	4.960556	4.990852	5.106571
Stddev	.025215	.033661	.098202
%RSD	.5083192	.6744635	1.923058
#1	4.966722	5.026587	5.208536
#2	4.982117	4.959742	5.098554
#3	4.932829	4.986226	5.012623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6514.722	93556.07	7651.823	5050.115	7545.968
Stddev	5.415	132.46	40.654	15.781	6.985
%RSD	.0831270	.1415838	.5312957	.3124897	.0925707
#1	6517.567	93472.84	7605.441	5032.624	7549.023
#2	6508.477	93708.82	7681.282	5054.435	7537.976
#3	6518.123	93486.55	7668.745	5063.287	7550.906

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB01 Acquired: 10/1/2025 13:14:26 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0006057	.0021345	-.000081	-.000769	-.002044	.0063410	.0025835
Stddev	.0018062	.0008111	.000920	.003039	.001156	.0046346	.0016641
%RSD	298.1909	37.99807	1129.651	395.3603	56.56153	73.09061	64.41410
#1	-.000887	.0030178	.000904	.002712	-.000944	.0018130	.0026889
#2	.000091	.0014233	-.000230	-.002897	-.003249	.0110754	.0008691
#3	.002613	.0019623	-.000918	-.002121	-.001939	.0061344	.0041924

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000519	.0000598	.0052558	.0000422	.0001985	-.000551	.0093875
Stddev	.0000375	.0000342	.0108384	.0001855	.0000984	.000155	.0086431
%RSD	72.23724	57.21978	206.2186	439.7321	49.56803	28.22471	92.07063
#1	.0000641	.0000923	.0021221	-.000159	.0001712	-.000730	.0103122
#2	.0000098	.0000241	.0173157	.000078	.0001167	-.000473	.0175311
#3	.0000818	.0000628	-.003671	.000207	.0003077	-.000449	.0003192

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009824	.0166121	-.000184	.0001090	-.129142	.0009039	-.000282
Stddev	.0007899	.0076034	.000163	.0006330	.004611	.0041430	.000201
%RSD	80.40513	45.76993	88.53406	581.0159	3.570847	458.3305	71.43517
#1	.0010757	.0137473	-.000362	.0007711	-.128891	.0036677	-.000512
#2	.0001500	.0252318	-.000042	-.000490	-.133874	.0029038	-.000190
#3	.0017216	.0108574	-.000149	.000046	-.124661	-.003860	-.000142

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.241795	-.005439	.0002251	-.000312	.0003877	.0021280	.0004771
Stddev	.022661	.000318	.0000777	.000490	.0015423	.0055186	.0005741
%RSD	9.371813	5.844606	34.49710	157.3795	397.7835	259.3323	120.3462
#1	-.263950	-.005161	.0002928	-.000203	.0021585	.0060626	.0000569
#2	-.218661	-.005786	.0002421	-.000847	-.000662	-.004180	.0002430
#3	-.242773	-.005371	.0001403	.000115	-.000333	.004502	.0011313

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB01 Acquired: 10/1/2025 13:14:26 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0024649	-.003165	.0000881
Stddev	.0017047	.001024	.0000462
%RSD	69.15788	32.36661	52.44409
#1	.0033543	-.002450	.0001247
#2	.0035409	-.002705	.0000362
#3	.0004995	-.004338	.0001035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6731.656	97690.40	7741.851	5196.729	8343.757
Stddev	8.242	411.27	30.162	10.240	5.650
%RSD	.1224344	.4209893	.3896032	.1970386	.0677133
#1	6728.766	97755.38	7771.914	5191.889	8341.589
#2	6725.249	98065.31	7742.050	5208.491	8339.511
#3	6740.954	97250.51	7711.590	5189.807	8350.169

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-1 Acquired: 10/1/2025 13:18:45 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal 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**	**.0095786**	**.0198136**	**-.020313**	**.0185556**	**.2766841**	**.0164896**
Stddev	.000817	.0008309	.0029545	.005098	.0033817	.0038475	.0010804
%RSD	37.08661	8.674177	14.91134	25.09770	18.22451	1.390583	6.552264
#1	-.003064	.0105192	.0182434	-.018563	.0195330	.2728906	.0163116
#2	-.001440	.0089447	.0232216	-.026056	.0147929	.2805835	.0176480
#3	-.002103	.0092720	.0179758	-.016320	.0213409	.2765781	.0155093

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009015**	**.0006514**	**2456.477**	**.0338770**	**.0071699**	**.0069976**	**.6358563**
Stddev	.0000580	.0000501	30.525	.0002180	.0004164	.0002772	.0144833
%RSD	6.438553	7.690062	1.242618	.6433500	5.807172	3.962037	2.277770
#1	.0009635	.0006974	2471.913	.0337577	.0075789	.0068297	.6483497
#2	.0008484	.0005980	2421.318	.0341285	.0067465	.0073176	.6199814
#3	.0008927	.0006589	2476.201	.0337447	.0071844	.0068455	.6392379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0273110**	**2256.207**	**.0273765**	**-.002078**	**2488.620**	**.0154701**	**.0722224**
Stddev	.0001722	5.556	.0003469	.001012	18.647	.0009412	.0008071
%RSD	.6305519	.2462403	1.266951	48.68243	.7493081	6.084199	1.117562
#1	.0273219	2258.394	.0274839	-.002234	2496.107	.0143839	.0730560
#2	.0271335	2249.891	.0276570	-.000998	2467.393	.0160438	.0721667
#3	.0274775	2260.336	.0269887	-.003004	2502.360	.0159827	.0714446

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.671044**	**.0018758**	**.0067769**	**-.023635**	**-.111462**	**-.013597**	**.0165585**
Stddev	.742610	.0011293	.0003636	.001359	.001350	.021881	.0007196
%RSD	11.13184	60.20128	5.365527	5.750456	1.211361	160.9238	4.345593
#1	5.888621	.0015241	.0063892	-.025136	-.112603	-.037178	.0163442
#2	6.758393	.0009643	.0071103	-.023284	-.109971	.006052	.0159705
#3	7.366116	.0031391	.0068311	-.022486	-.111810	-.009666	.0173609

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-1 Acquired: 10/1/2025 13:18:45 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2400129	-.348477	.0618659
Stddev	.0022304	.008305	.0003486
%RSD	.9292897	2.383319	.5635537
#1	.2402025	-.355751	.0622685
#2	.2421424	-.339428	.0616649
#3	.2376937	-.350253	.0616643

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4519.266	67155.06	7014.806	3461.334	4762.278
Stddev	22.278	362.38	72.990	26.482	18.916
%RSD	.4929605	.5396197	1.040517	.7650883	.3972047
#1	4494.442	66987.81	7044.275	3446.468	4741.423
#2	4537.522	67570.86	7068.454	3491.910	4778.328
#3	4525.833	66906.51	6931.688	3445.625	4767.083

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-2 Acquired: 10/1/2025 13:23:10 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0960614	-.158369	.0881003	.0200471	-.151890	1823.606	.0214766
Stddev	.0047823	.013337	.0033842	.0112815	.002173	15.818	.0022148
%RSD	4.978335	8.421529	3.841257	56.27468	1.430357	.8674187	10.31261
#1	.1012699	-.147126	.0845188	.0330699	-.154332	1812.919	.0237789
#2	.0950456	-.154876	.0912446	.0138128	-.150171	1841.778	.0212898
#3	.0918686	-.173105	.0885375	.0132587	-.151168	1816.122	.0193611

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0437768	-.024852	10.62051	-.252375	.0401251	.2024102	2616.022
Stddev	.0005660	.002176	.22722	.002046	.0000791	.0152499	22.257
%RSD	1.292832	8.755327	2.139485	.8107112	.1971603	7.534143	.8507837
#1	.0438963	-.024655	10.39840	-.251014	.0400344	.2137079	2602.880
#2	.0442734	-.027120	10.61062	-.254728	.0401608	.1850639	2641.719
#3	.0431606	-.022781	10.85252	-.251383	.0401800	.2084588	2603.466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.205762	1.962474	.0480062	^ *****	40.51056	.0504704	.0395973
Stddev	.001578	.022966	.0007200	-----	.33734	.0034006	.0021150
%RSD	.7667636	1.170276	1.499756	-----	.8327151	6.737765	5.341368
#1	-.207481	1.937226	.0481010	^ -----	40.72828	.0466731	.0405396
#2	-.205425	1.982123	.0472435	^ -----	40.12197	.0532347	.0371748
#3	-.204380	1.968073	.0486740	^ -----	40.68141	.0515034	.0410773

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1823.658	^ *****	-.014628	.0017291	.0046341	.4841808	.0812128
Stddev	17.449	-----	.000827	.0014984	.0002826	.0124822	.0020722
%RSD	.9568009	-----	5.651116	86.66042	6.098761	2.578009	2.551636
#1	1829.088	^ -----	-.014711	.0024522	.0049601	.4985234	.0789638
#2	1837.747	^ -----	-.015411	.0000062	.0044581	.4757752	.0816295
#3	1804.140	^ -----	-.013764	.0027288	.0044841	.4782439	.0830450

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-2 Acquired: 10/1/2025 13:23:10 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.474396	.2717593	-2.50785
Stddev	.010422	.0005683	.02135
%RSD	2.196933	.2091200	.8512920
#1	-.462406	.2721721	-2.49517
#2	-.481288	.2719946	-2.53250
#3	-.479494	.2711111	-2.49587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5656.348	77306.89	7474.386	4289.503	6048.115
Stddev	9.607	93.91	69.249	7.748	12.547
%RSD	.1698488	.1214759	.9264841	.1806252	.2074502
#1	5647.801	77312.21	7517.772	4286.481	6034.440
#2	5666.746	77398.03	7394.524	4298.307	6059.097
#3	5654.496	77210.44	7510.862	4283.722	6050.808

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-3 Acquired: 10/1/2025 13:27:37 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0945678**	**.0265475**	**210.9141**	**.0056365**	**.1926998**	**.0558703**	**.0003331**
Stddev	.0010098	.0064415	1.4606	.0027989	.0031266	.0064975	.0015815
%RSD	1.067773	24.26427	.6924997	49.65704	1.622537	11.62960	474.7452
#1	.0952392	.0337764	209.7220	.0078003	.1946289	.0594007	-.001481
#2	.0950576	.0214163	210.4770	.0024756	.1890924	.0598383	.001419
#3	.0934065	.0244497	212.5434	.0066337	.1943781	.0483719	.001062

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005721**	**-.001475**	**.2007777**	**24.02300**	**.0072930**	**47.66458**	**.0986225**
Stddev	.000045	.000054	.0094201	.03643	.0002523	.04486	.0123982
%RSD	.7867836	3.638580	4.691800	.1516435	3.460094	.0941056	12.57135
#1	-.005763	-.001537	.2049502	24.06272	.0071060	47.68357	.1042590
#2	-.005674	-.001442	.2073910	24.01514	.0075800	47.61335	.1072011
#3	-.005726	-.001447	.1899920	23.99115	.0071930	47.69682	.0844074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.65674**	**-.201884**	**23.94320**	**.0035338**	**.7148007**	**-.040714**	**29.84673**
Stddev	.80287	.013606	.02490	.0006286	.0206426	.004883	.22595
%RSD	1.468924	6.739470	.1040149	17.78845	2.887882	11.99406	.7570507
#1	53.73126	-.198927	23.94117	.0041233	.7342052	-.035655	29.96939
#2	55.16655	-.216726	23.91937	.0028723	.7170867	-.045400	29.58597
#3	55.07240	-.190000	23.96905	.0036057	.6931103	-.041088	29.98482

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.659659**	**-.007721**	**-.015300**	**-.015790**	**-.045866**	**-.117029**	**.1596438**
Stddev	.162820	.000274	.000052	.000608	.000381	.006016	.0015633
%RSD	9.810466	3.544095	.3404350	3.850032	.8316784	5.140825	.9792196
#1	1.824792	-.007477	-.015259	-.015904	-.045454	-.113609	.1582070
#2	1.654929	-.007669	-.015359	-.016333	-.046206	-.113502	.1613085
#3	1.499255	-.008017	-.015284	-.015133	-.045938	-.123976	.1594159

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: LR-3 Acquired: 10/1/2025 13:27:37 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1004273	.0056048	.0005707
Stddev	.0039209	.0036500	.0001686
%RSD	3.904218	65.12346	29.53291
#1	.1049531	.0025957	.0007160
#2	.0982712	.0096650	.0003859
#3	.0980576	.0045535	.0006102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6308.704	96000.57	7808.847	5015.510	7991.687
Stddev	20.639	253.79	52.541	30.117	30.629
%RSD	.3271556	.2643614	.6728437	.6004757	.3832649
#1	6332.110	95710.93	7868.415	4982.384	8026.867
#2	6293.117	96184.01	7769.095	5022.907	7970.941
#3	6300.885	96106.75	7789.032	5041.240	7977.253

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3233-01DLX5 Acquired: 10/1/2025 13:32:29 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.2139358**	**-.115685**	**7.598806**	**-.035604**	**-.064040**	**46.71284**
Stddev	.0025689	.000938	.009563	.004752	.002737	.17894
%RSD	1.200795	.8109483	.1258519	13.34743	4.273338	.3830655
#1	.2127716	-.116765	7.607454	-.034939	-.063300	46.90305
#2	.2121551	-.115222	7.600430	-.031219	-.061749	46.68764
#3	.2168807	-.115069	7.588535	-.040653	-.067070	46.54784

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7844125**	**.0233849**	**.0218762**	**618.7724**	**2.692570**	**.5081917**
Stddev	.0021417	.0002078	.0010941	9.0212	.005532	.0003077
%RSD	.2730307	.8887930	5.001478	1.457912	.2054410	.0605565
#1	.7847597	.0233608	.0231174	619.1472	2.698566	.5084661
#2	.7821185	.0236038	.0210516	627.6003	2.691478	.5078590
#3	.7863594	.0231902	.0214595	609.5697	2.687666	.5082502

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.344176**	**1348.676**	**10.62020**	**25.47665**	**1.906612**	**^ *****
Stddev	.016465	12.265	.01198	.03010	.000739	-----
%RSD	.4923396	.9094472	.1127922	.1181344	.0387789	-----
#1	3.361797	1335.260	10.62685	25.47940	1.907125	^ -----
#2	3.329184	1359.316	10.60637	25.50529	1.906948	^ -----
#3	3.341546	1351.452	10.62737	25.44528	1.905765	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.58703**	**.2836782**	**27.23255**	**20.98722**	**^ *****	**.1096262**
Stddev	.05272	.0014191	.23503	.11903	-----	.0005936
%RSD	.3613929	.5002500	.8630653	.5671716	-----	.5414457
#1	14.55855	.2851104	27.47787	20.85680	^ -----	.1103098
#2	14.64786	.2822726	27.21043	21.01486	^ -----	.1092411
#3	14.55468	.2836516	27.00936	21.09001	^ -----	.1093278

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3233-01DLX5 Acquired: 10/1/2025 13:32:29 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.2317081	2.491918	1.895423	6.241288	F 37.04095	.0973120
Stddev	.0018452	.001211	.019288	.063264	.42463	.0024399
%RSD	.7963553	.0486138	1.017611	1.013642	1.146384	2.507298
#1	.2321937	2.491266	1.873359	6.286215	37.28523	.0964586
#2	.2332619	2.491172	1.903824	6.268709	37.28700	.0954135
#3	.2296686	2.493316	1.909086	6.168939	36.55063	.1000640

Elem	Sr4077
Units	ppm
Avg	2.806454
Stddev	.076251
%RSD	2.716983
#1	2.858035
#2	2.718867
#3	2.842460

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6015.245	88808.86	7933.734	4582.848	6888.291
Stddev	10.004	306.70	21.515	14.810	7.830
%RSD	.1663185	.3453460	.2711865	.3231698	.1136660
#1	6021.380	88759.79	7913.584	4566.167	6897.313
#2	6020.654	88529.66	7931.223	4587.927	6883.276
#3	6003.700	89137.13	7956.394	4594.451	6884.283

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169866BL Acquired: 10/1/2025 13:37:11 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.000606**	**-.001311**	**.0025445**	**.0001391**	**.0011378**	**-.000905**
Stddev	.001640	.002056	.0007723	.0011789	.0004778	.002500
%RSD	270.6233	156.8068	30.35293	847.7112	41.99456	276.2322
#1	.001013	.000775	.0032862	.0014954	.0016347	.001208
#2	-.002266	-.001373	.0026024	-.000440	.0006816	-.003666
#3	-.000565	-.003337	.0017448	-.000639	.0010972	-.000258

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030060**	**-.000055**	**.0000185**	**.0065881**	**.0005064**	**-.000037**
Stddev	.0004957	.000059	.0000190	.0165327	.0002149	.000145
%RSD	16.49091	107.0947	102.5550	250.9478	42.44048	391.6668
#1	.0035641	-.000047	-.000003	.0239224	.0003907	-.000166
#2	.0028370	-.000000	.000030	.0048471	.0003742	-.000064
#3	.0026169	-.000117	.000029	-.009005	.0007544	.000120

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000328**	**.0197536**	**.0011555**	**.0382486**	**-.000036**	**-.000077**
Stddev	.000286	.0033099	.0002678	.0114199	.000164	.000567
%RSD	87.28221	16.75599	23.17866	29.85709	451.3943	734.0060
#1	-.000510	.0233595	.0009915	.0268915	-.000221	.000308
#2	.000002	.0190478	.0010105	.0497302	.000018	.000188
#3	-.000475	.0168535	.0014646	.0381240	.000094	-.000728

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.221632**	**-.000670**	**.0002214**	**-.210716**	**-.011441**	**.0002783**
Stddev	.013802	.003073	.0001657	.015432	.000413	.0001815
%RSD	6.227311	458.6299	74.86257	7.323394	3.611173	65.21434
#1	-.222386	-.003201	.0003902	-.192966	-.011918	.0004868
#2	-.235042	-.001559	.0000590	-.220947	-.011202	.0001559
#3	-.207469	.002750	.0002149	-.218235	-.011204	.0001922

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169866BL Acquired: 10/1/2025 13:37:11 Type: Unk
Method: 6010-200.7 NEW(v240) 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	F -.028749	.0008854	-.005815	.0008060	-.000996	F -.010073
Stddev	.000325	.0013613	.005255	.0013356	.001611	.001257
%RSD	1.129935	153.7460	90.37885	165.7166	161.7462	12.48326
#1	-.028849	.0021871	-.010871	.0008060	-.001943	-.010089
#2	-.028386	.0009977	-.006192	.0021415	-.001909	-.008807
#3	-.029012	-.000529	-.000381	-.000530	.000864	-.011321

Elem	Sr4077
Units	ppm
Avg	.0001058
Stddev	.0000232
%RSD	21.89129
#1	.0000794
#2	.0001149
#3	.0001229

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6965.861	101581.8	7901.919	5328.678	8739.205
Stddev	18.150	556.6	28.200	33.254	9.918
%RSD	.2605586	.5479298	.3568717	.6240574	.1134941
#1	6972.742	101311.5	7870.092	5322.478	8743.015
#2	6979.565	101212.0	7911.877	5298.961	8746.653
#3	6945.277	102221.9	7923.790	5364.596	8727.947

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169866BS Acquired: 10/1/2025 13:41:30 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7462557	1.900113	.8961623	1.867759	.7520195	1.913569
Stddev	.0004090	.019185	.0024454	.006913	.0008498	.013108
%RSD	.0548086	1.009689	.2728690	.3700986	.1130056	.6850135
#1	.7459478	1.879955	.8988895	1.870015	.7528311	1.923088
#2	.7467198	1.902235	.8941649	1.873261	.7520913	1.919001
#3	.7460995	1.918150	.8954325	1.860000	.7511360	1.898618

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1856383	.1884475	.1781681	.9690657	.3821053	.1818724
Stddev	.0012012	.0000569	.0002530	.0123440	.0018458	.0002861
%RSD	.6470462	.0302134	.1419885	1.273808	.4830490	.1572912
#1	.1854023	.1883996	.1784581	.9548121	.3800376	.1820628
#2	.1869399	.1885104	.1780538	.9762262	.3826916	.1820109
#3	.1845726	.1884323	.1779924	.9761589	.3835866	.1815434

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2870302	2.742603	.1926665	1.935541	.4548999	.0684506
Stddev	.0004426	.026068	.0006609	.023245	.0002337	.0002609
%RSD	.1542125	.9505004	.3430087	1.200941	.0513851	.3811545
#1	.2870079	2.715460	.1919142	1.918200	.4551068	.0682878
#2	.2874835	2.744904	.1929315	1.926468	.4549466	.0687515
#3	.2865991	2.767444	.1931537	1.961953	.4546463	.0683124

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463669	.2829771	.1910024	8.710571	.2565170	.3981351
Stddev	.017564	.0009426	.0010366	.071525	.0005338	.0009880
%RSD	.7129118	.3331071	.5427049	.8211253	.2081037	.2481523
#1	2.445526	.2819101	.1898106	8.629704	.2571168	.3991977
#2	2.480589	.2833244	.1916942	8.765537	.2560943	.3979635
#3	2.464894	.2836968	.1915025	8.736473	.2563397	.3972442

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169866BS Acquired: 10/1/2025 13:41:30 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.6267170**	**.1850107**	**.7842663**	**5.079120**	F **-.008241**	**.1798293**
Stddev	.0020182	.0008898	.0078435	.021364	.000169	.0023883
%RSD	.3220212	.4809367	1.000111	.4206300	2.054961	1.328111
#1	.6274223	.1854945	.7777299	5.070489	-.008064	.1770877
#2	.6282879	.1855538	.7821052	5.103450	-.008256	.1809415
#3	.6244408	.1839839	.7929638	5.063423	-.008402	.1814587

Elem	Sr4077
Units	ppm
Avg	**.1848893**
Stddev	.0005458
%RSD	.2952011
#1	.1842676
#2	.1852898
#3	.1851105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6859.728**	**98494.16**	**7860.640**	**5307.640**	**8410.814**
Stddev	11.851	316.84	15.828	38.032	13.156
%RSD	.1727576	.3216884	.2013593	.7165605	.1564149
#1	6846.056	98857.36	7845.236	5350.518	8397.024
#2	6867.062	98274.40	7876.861	5277.980	8412.190
#3	6866.067	98350.72	7859.822	5294.422	8423.227

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169870TB Acquired: 10/1/2025 13:45:31 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003900**	**-.002985**	**.0006220**	**.0038330**	**.0022033**	**.0113510**	**-.000084**
Stddev	.001012	.001533	.0003456	.0010351	.0012574	.0045584	.002191
%RSD	25.94679	51.35179	55.55370	27.00420	57.06979	40.15839	2622.347
#1	-.003216	-.004514	.0006576	.0038520	.0024189	.0097037	-.000962
#2	-.005063	-.002992	.0002601	.0027885	.0033390	.0078452	.002410
#3	-.003423	-.001448	.0009485	.0048584	.0008520	.0165040	-.001699

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000127**	**-.000031**	**.0731903**	**.0017444**	**-.000142**	**-.000158**	**.0145678**
Stddev	.000058	.000040	.0171639	.0001889	.000120	.000159	.0117874
%RSD	46.14693	129.0649	23.45102	10.82649	84.71921	100.7491	80.91360
#1	-.000098	.000010	.0751789	.0018399	-.000007	-.000150	.0057814
#2	-.000088	-.000034	.0892732	.0015268	-.000181	-.000003	.0099587
#3	-.000194	-.000070	.0551187	.0018663	-.000238	-.000320	.0279633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095591**	**.0128300**	**.0010591**	**-.000937**	**339.3154**	**.0001215**	**.0021567**
Stddev	.0006397	.0336883	.0000599	.000369	1.4374	.0035739	.0001904
%RSD	6.691824	262.5754	5.651429	39.40741	.4236251	2941.115	8.828529
#1	.0102617	.0394656	.0009929	-.001353	340.4487	.0028916	.0019368
#2	.0090104	.0240642	.0011093	-.000648	339.7990	-.003913	.0022674
#3	.0094052	-.025040	.0010752	-.000809	337.6986	.001386	.0022658

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.090086**	**-.011728**	**.0008131**	**-.025947**	**.0028653**	**.0060951**	**.0096614**
Stddev	.024341	.001177	.0001178	.000206	.0009325	.0163745	.0006930
%RSD	27.02018	10.03444	14.48168	.7931223	32.54351	268.6489	7.172381
#1	-.084413	-.012776	.0008085	-.025864	.0031612	-.012812	.0096495
#2	-.069082	-.010455	.0009331	-.025795	.0018208	.015434	.0089744
#3	-.116763	-.011954	.0006977	-.026181	.0036139	.015663	.0103602

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169870TB Acquired: 10/1/2025 13:45:31 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1362783	-.010678	.0003714
Stddev	.0007976	.002804	.0000836
%RSD	.5852977	26.26384	22.50404
#1	.1359288	-.013101	.0004228
#2	.1371911	-.007606	.0002750
#3	.1357151	-.011327	.0004164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6502.027	89920.79	7482.963	4872.987	7588.565
Stddev	41.152	71.65	19.937	9.289	45.709
%RSD	.6329180	.0796798	.2664268	.1906219	.6023395
#1	6455.681	89941.03	7495.757	4872.630	7537.697
#2	6516.111	89841.19	7459.992	4863.882	7601.806
#3	6534.288	89980.14	7493.141	4882.449	7626.191

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3253-01 Acquired: 10/1/2025 13:49:59 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.5461633**	**-.006772**	**.3429870**	**.0073562**	**-.011317**	**422.9260**
Stddev	.0033251	.003859	.0011938	.0023811	.002289	7.4326
%RSD	.6088191	56.98231	.3480637	32.36912	20.22461	1.757427
#1	.5430865	-.010447	.3419985	.0084805	-.010022	426.5654
#2	.5496908	-.007114	.3443133	.0046211	-.009969	427.8376
#3	.5457127	-.002753	.3426490	.0089670	-.013960	414.3750

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.021411**	**.0257393**	**.0067534**	**113.3963**	**.6311923**	**.2587968**
Stddev	.007075	.0003268	.0006371	.2774	.0024700	.0007143
%RSD	.3499811	1.269760	9.433505	.2446296	.3913248	.2760025
#1	2.013252	.0259392	.0073812	113.4793	.6336934	.2594701
#2	2.025141	.0259166	.0067716	113.6226	.6287545	.2580476
#3	2.025841	.0253622	.0061074	113.0868	.6311292	.2588725

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6298543**	**468.4701**	**7.164945**	**206.5014**	**.5126646**	**.0081996**
Stddev	.0025081	4.8848	.015024	.7917	.0005002	.0017570
%RSD	.3982094	1.042705	.2096932	.3833934	.0975659	21.42825
#1	.6326853	464.0099	7.154605	207.3529	.5128898	.0065149
#2	.6279097	467.7100	7.182179	206.3637	.5120914	.0080629
#3	.6289678	473.6903	7.158052	205.7876	.5130127	.0100210

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**148.2399**	**.9060308**	**1.483825**	**216.9656**	**.3386802**	**.0075814**
Stddev	1.9596	.0047660	.005547	2.7318	.0208035	.0006300
%RSD	1.321891	.5260303	.3738412	1.259093	6.142504	8.309449
#1	146.2788	.9027733	1.488184	214.1223	.3195529	.0082827
#2	148.2430	.9038182	1.477581	217.2042	.3356585	.0073981
#3	150.1979	.9115010	1.485709	219.5702	.3608293	.0070635

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3253-01 Acquired: 10/1/2025 13:49:59 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0195074	F 19.34484	F 10.38957	7.749614	F 21.87324	.8729031
Stddev	.0002738	.03963	.14324	.011609	.07035	.0038412
%RSD	1.403661	.2048753	1.378721	.1498052	.3216430	.4400488
#1	.0192796	19.30945	10.32804	7.749346	21.83325	.8688342
#2	.0194315	19.38766	10.28737	7.761355	21.95447	.8764665
#3	.0198112	19.33740	10.55330	7.738141	21.83199	.8734086

Elem	Sr4077
Units	ppm
Avg	.3928957
Stddev	.0042335
%RSD	1.077508
#1	.3937401
#2	.3966433
#3	.3883037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7227.607	104316.3	9364.385	5598.789	6650.724
Stddev	12.801	388.2	69.751	21.258	10.234
%RSD	.1771061	.3721755	.7448588	.3796910	.1538735
#1	7227.906	104706.3	9315.009	5575.978	6647.466
#2	7240.255	104312.6	9333.967	5618.047	6662.190
#3	7214.660	103929.8	9444.180	5602.342	6642.516

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3253-10 Acquired: 10/1/2025 13:54:07 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006772	-.003023	.0035713	.0018892	-.001324	.5049676	.4050781
Stddev	.0001787	.000923	.0012827	.0024797	.001465	.0090286	.0017232
%RSD	26.39161	30.52235	35.91691	131.2587	110.6773	1.787963	.4254106
#1	.0005874	-.002558	.0044777	.0006868	-.000674	.5153714	.4065357
#2	.0005611	-.004085	.0021036	.0002399	-.000296	.5003457	.4055222
#3	.0008830	-.002425	.0041326	.0047408	-.003001	.4991856	.4031762

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002529	.0005826	70.31034	.0025082	.0095378	.0065583	.3823073
Stddev	.0000360	.0000410	.13720	.0001924	.0003149	.0000613	.0028928
%RSD	14.21536	7.043215	.1951352	7.670785	3.301610	.9349386	.7566636
#1	.0002281	.0005353	70.31054	.0022869	.0093172	.0064881	.3853493
#2	.0002365	.0006037	70.44744	.0026018	.0093977	.0066013	.3795915
#3	.0002941	.0006088	70.17304	.0026359	.0098984	.0065855	.3819811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7351910	2.857682	.0044452	-.000222	462.5820	.0016088	.1573306
Stddev	.0036301	.025127	.0001833	.000822	9.0407	.0009832	.0008839
%RSD	.4937562	.8792940	4.124388	370.1124	1.954408	61.11179	.5617827
#1	.7375554	2.853607	.0045208	-.001112	472.8941	.0024007	.1581125
#2	.7370062	2.834842	.0042362	-.000063	458.8332	.0005084	.1575076
#3	.7310114	2.884598	.0045787	.000509	456.0187	.0019173	.1563716

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.651954	.0256705	.0005999	-.028112	-.001419	2.604854	.0280313
Stddev	.074684	.0007040	.0001370	.000357	.002065	.031877	.0014917
%RSD	.7737681	2.742393	22.83315	1.271615	145.4799	1.223751	5.321519
#1	9.732311	.0253680	.0007009	-.028310	-.003324	2.641661	.0285481
#2	9.584670	.0251684	.0004440	-.028326	-.001710	2.586766	.0263500
#3	9.638882	.0264752	.0006547	-.027699	.000775	2.586136	.0291959

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3253-10 Acquired: 10/1/2025 13:54:07 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6452984	-.018793	.2831039
Stddev	.0054899	.001649	.0012225
%RSD	.8507553	8.776219	.4318298
#1	.6495002	-.020399	.2839479
#2	.6390869	-.018875	.2836620
#3	.6473083	-.017104	.2817020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6453.615	90663.12	7781.264	4908.162	7253.687
Stddev	13.125	471.40	22.422	24.337	22.382
%RSD	.2033745	.5199423	.2881546	.4958526	.3085644
#1	6443.876	90188.41	7807.104	4889.002	7236.366
#2	6468.541	91131.13	7766.949	4935.546	7278.959
#3	6448.428	90669.82	7769.737	4899.938	7245.737

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3233-01DL2X25 Acquired: 10/1/2025 13:58:29 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0405080**	**-.023290**	**1.614463**	**-.001034**	**-.016676**	**9.466500**	**.1565899**
Stddev	.0026548	.001774	.005962	.001456	.002419	.018060	.0025708
%RSD	6.553681	7.617436	.3693062	140.7757	14.50534	.1907786	1.641738
#1	.0434957	-.022303	1.617979	-.002036	-.017511	9.446161	.1593473
#2	.0384202	-.022229	1.617832	.000636	-.013950	9.480659	.1542591
#3	.0396080	-.025339	1.607579	-.001702	-.018566	9.472681	.1561634

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050335**	**.0032729**	**129.0267**	**.5678389**	**.1052620**	**.7191566**	**284.0495**
Stddev	.0001427	.0002907	.1337	.0015163	.0003398	.0025011	1.9990
%RSD	2.835449	8.882683	.1036480	.2670301	.3227838	.3477876	.7037605
#1	.0051070	.0035828	129.0408	.5690217	.1050919	.7218801	282.4130
#2	.0051245	.0030062	128.8865	.5683654	.1056532	.7186271	286.2775
#3	.0048690	.0032296	129.1529	.5661295	.1050408	.7169626	283.4580

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.227183**	**5.434831**	**.4049834**	**.0049347**	**3.631583**	**.0586346**	**7.635563**
Stddev	.009033	.027728	.0015501	.0015644	.054265	.0003804	.019251
%RSD	.4055640	.5101818	.3827627	31.70126	1.494262	.6487557	.2521280
#1	2.226608	5.429762	.4058562	.0037996	3.665857	.0583198	7.651574
#2	2.218451	5.409987	.4059004	.0067192	3.659873	.0590573	7.640911
#3	2.236489	5.464743	.4031937	.0042854	3.569018	.0585266	7.614202

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.818350**	**.0715543**	**.0214960**	**.0470893**	**.5068381**	**.3680773**	**1.246489**
Stddev	.050606	.0156206	.0001729	.0006213	.0027785	.0034927	.006932
%RSD	1.050278	21.83044	.8041443	1.319410	.5482109	.9488920	.5561020
#1	4.837438	.0574222	.0215245	.0468228	.5098813	.3720853	1.253883
#2	4.856636	.0883269	.0213106	.0477994	.5044365	.3656851	1.245447
#3	4.760976	.0689138	.0216528	.0466458	.5061964	.3664615	1.240138

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3233-01DL2X25 Acquired: 10/1/2025 13:58:29 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.340943**	**.0337877**	**.5578647**
Stddev	.031583	.0025690	.0044716
%RSD	.4302294	7.603417	.8015521
#1	7.377051	.0308854	.5600375
#2	7.318457	.0357702	.5527219
#3	7.327321	.0347076	.5608347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6518.161**	**95087.81**	**8142.478**	**5036.890**	**7635.517**
Stddev	3.119	536.56	22.758	19.957	10.853
%RSD	.0478523	.5642733	.2795003	.3962193	.1421340
#1	6515.441	95466.40	8140.414	5053.982	7643.059
#2	6517.475	94473.79	8166.198	5014.958	7623.079
#3	6521.565	95323.24	8120.822	5041.730	7640.413

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV02 Acquired: 10/1/2025 14:02:32 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.032790**	**5.109367**	**4.959211**	**5.066474**	**4.998699**	**9.993575**	**9.939765**
Stddev	.011358	.177662	.006094	.020758	.005657	.043919	.056184
%RSD	.2256824	3.477190	.1228891	.4097151	.1131667	.4394695	.5652451
#1	5.043637	5.303428	4.957927	5.089326	5.003500	10.01140	9.981124
#2	5.033750	5.069950	4.953862	5.061312	4.992463	10.02578	9.875799
#3	5.020982	4.954724	4.965845	5.048784	5.000133	9.94355	9.962373

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2504580**	**2.498736**	**25.01840**	**.9959047**	**2.481184**	**1.256127**	**4.909123**
Stddev	.0011952	.002098	.03471	.0009596	.001840	.001348	.005819
%RSD	.4771996	.0839518	.1387209	.0963502	.0741628	.1072881	.1185373
#1	.2494437	2.501053	25.02475	.9965002	2.482030	1.256995	4.915779
#2	.2517756	2.496967	25.04949	.9947977	2.479073	1.254574	4.906587
#3	.2501546	2.498186	24.98096	.9964161	2.482448	1.256811	4.905001

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.487144**	**24.79650**	**2.487266**	**1.236763**	**24.43765**	**2.490660**	**2.467837**
Stddev	.005212	.10233	.002076	.000932	.09571	.014870	.004905
%RSD	.2095472	.4126686	.0834745	.0753411	.3916446	.5970328	.1987578
#1	2.489885	24.77983	2.486665	1.235780	24.45798	2.488906	2.472083
#2	2.490413	24.90614	2.485556	1.237633	24.33341	2.506329	2.462467
#3	2.481134	24.70353	2.489576	1.236877	24.52155	2.476744	2.468959

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.10540**	**5.017057**	**4.999127**	**4.990393**	**4.969379**	**4.828888**	**4.971674**
Stddev	.11736	.023407	.007715	.009686	.009456	.030264	.028379
%RSD	.4674496	.4665397	.1543313	.1940951	.1902920	.6267365	.5708238
#1	25.16511	4.999734	5.007721	5.001304	4.977961	4.863655	5.004312
#2	24.97020	5.043685	4.996862	4.987066	4.970934	4.814572	4.957894
#3	25.18089	5.007752	4.992797	4.982809	4.959242	4.808438	4.952815

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV02 Acquired: 10/1/2025 14:02:32 Type: Unk
Method: 6010-200.7 NEW(v240) 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	4.996121	4.967282	4.942508
Stddev	.050636	.004856	.057891
%RSD	1.013511	.0977525	1.171287
#1	5.048191	4.971093	4.891479
#2	4.993119	4.961815	5.005418
#3	4.947052	4.968939	4.930629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6580.758	95126.64	7816.398	5079.889	7613.474
Stddev	7.857	223.38	47.863	18.076	6.805
%RSD	.1193906	.2348256	.6123363	.3558276	.0893764
#1	6589.442	95384.58	7866.578	5098.722	7620.378
#2	6578.691	94995.99	7771.251	5078.265	7613.271
#3	6574.141	94999.37	7811.364	5062.680	7606.774

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB02 Acquired: 10/1/2025 14:06:47 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004124**	**-.000944**	**.0010158**	**.0050377**	**.0003676**	**.0118964**
Stddev	.0002600	.002054	.0007882	.0027322	.0008645	.0137473
%RSD	63.05005	217.5723	77.59775	54.23370	235.1928	115.5582
#1	.0004056	-.003082	.0012000	.0078692	.0010568	.0128977
#2	.0006758	.001015	.0001518	.0024171	-.000602	.0251157
#3	.0001559	-.000765	.0016955	.0048269	.000648	-.002324

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027997**	**-.000091**	**.0000377**	**.0044965**	**.0001982**	**.0000989**
Stddev	.0005905	.000061	.0000508	.0106639	.0000938	.0002553
%RSD	21.09231	66.87120	134.8585	237.1592	47.35190	258.2614
#1	.0028271	-.000119	.0000058	.0016052	.0003060	.0003444
#2	.0021959	-.000021	.0000962	-.004424	.0001351	-.000165
#3	.0033760	-.000134	.0000110	.016308	.0001534	.000117

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000213**	**.0108081**	**.0009204**	**.0089769**	**.0001464**	**-.000528**
Stddev	.000399	.0045690	.0005698	.0380231	.0000844	.000227
%RSD	187.3907	42.27393	61.90700	423.5637	57.67537	43.07670
#1	-.000579	.0153780	.0009286	.0053917	.0001712	-.000324
#2	-.000273	.0062400	.0003466	.0486657	.0000523	-.000773
#3	.000213	.0108062	.0014861	-.027127	.0002157	-.000486

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.213186**	**.0008232**	**-.000203**	**-.298292**	**-.008818**	**.0005526**
Stddev	.020752	.0024511	.000178	.021971	.000463	.0001577
%RSD	9.734040	297.7502	87.87769	7.365654	5.248758	28.53150
#1	-.190607	-.001923	-.000067	-.323610	-.008942	.0007080
#2	-.217527	.001605	-.000137	-.287032	-.008306	.0003928
#3	-.231423	.002788	-.000405	-.284233	-.009207	.0005569

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB02 Acquired: 10/1/2025 14:06:47 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.028626	.0000260	.0035755	.0015675	-.000698	-.009486
Stddev	.000322	.0020726	.0121624	.0004163	.000982	.001234
%RSD	1.124221	7980.994	340.1600	26.55683	140.7077	13.00727
#1	-.028543	.0012300	.0030925	.0011324	.000242	-.010355
#2	-.028981	-.002367	-.008338	.0016080	-.001717	-.008074
#3	-.028353	.001215	.015972	.0019620	-.000618	-.010030

Elem	Sr4077
Units	ppm
Avg	-.000092
Stddev	.000037
%RSD	40.55506
#1	-.000089
#2	-.000130
#3	-.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6992.826	98136.03	7845.276	5289.046	8844.162
Stddev	19.228	327.31	38.824	5.991	24.044
%RSD	.2749680	.3335236	.4948712	.1132753	.2718600
#1	7014.182	98509.57	7806.178	5282.515	8871.723
#2	6987.409	97999.05	7883.820	5294.288	8833.277
#3	6976.888	97899.46	7845.828	5290.335	8827.485

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-01 Acquired: 10/1/2025 14:12:05 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.1777669	-.036564	.0958106	-.007051	-.036844	30.44623
Stddev	.0018127	.002360	.0008219	.003771	.001358	.01427
%RSD	1.019694	6.453076	.8578379	53.48450	3.686898	.0468647
#1	.1767562	-.034468	.0955958	-.002702	-.036000	30.42984
#2	.1766850	-.036106	.0951175	-.009408	-.036120	30.45290
#3	.1798596	-.039119	.0967186	-.009043	-.038411	30.45594

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1859672	.0150438	-.005115	5.379559	.1019620	.0457422
Stddev	.0028545	.0001300	.000194	.015677	.0001374	.0004221
%RSD	1.534923	.8638612	3.802209	.2914135	.1347908	.9227887
#1	.1888602	.0150406	-.005300	5.389922	.1019975	.0457299
#2	.1858886	.0151753	-.005133	5.387231	.1020782	.0453263
#3	.1831529	.0149155	-.004912	5.361524	.1018103	.0461703

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1512623	461.3859	.8885661	4.030487	.0777452	.0071281
Stddev	.0002641	2.2364	.0062528	.017505	.0009697	.0008685
%RSD	.1745691	.4847090	.7036932	.4343035	1.247250	12.18368
#1	.1510466	463.8883	.8938246	4.031596	.0767260	.0080376
#2	.1511836	460.6865	.8902215	4.012455	.0778534	.0070392
#3	.1515568	459.5827	.8816521	4.047411	.0786563	.0063075

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1931093	.1567865	.2425543	3.262471	-.008588	.0025115
Stddev	.0180245	.0023501	.0014453	.051734	.010527	.0002478
%RSD	9.333855	1.498895	.5958491	1.585723	122.5799	9.864930
#1	.2124387	.1540774	.2409606	3.213497	.003357	.0026448
#2	.1767615	.1580055	.2437800	3.257335	-.016513	.0026641
#3	.1901276	.1582766	.2429223	3.316582	-.012607	.0022257

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-01 Acquired: 10/1/2025 14:12:05 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.001067	.4453030	3.288655	F 10.28773	.5890697	.0565957
Stddev	.000586	.0018323	.013532	.01822	.0020386	.0007566
%RSD	54.96029	.4114673	.4114705	.1770765	.3460772	1.336763
#1	-.000725	.4456685	3.286140	10.30143	.5867710	.0566289
#2	-.000731	.4469249	3.276556	10.29472	.5906584	.0558231
#3	-.001744	.4433155	3.303267	10.26706	.5897798	.0573351

Elem	Sr4077
Units	ppm
Avg	-.412944
Stddev	.001878
%RSD	.4546701
#1	-.415056
#2	-.412312
#3	-.411464

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6909.464	98935.65	8241.660	5291.280	8083.244
Stddev	16.110	464.18	30.578	21.632	10.654
%RSD	.2331526	.4691688	.3710235	.4088182	.1318069
#1	6893.312	98485.29	8209.369	5305.964	8071.939
#2	6909.549	99412.51	8270.176	5301.436	8084.694
#3	6925.531	98909.15	8245.436	5266.439	8093.099

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-09 Acquired: 10/1/2025 14:16:10 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0777898	-.012285	.1725676	-.001661	-.012647	37.28608	.2127312
Stddev	.0014747	.001561	.0011258	.004458	.002732	.08512	.0017557
%RSD	1.895752	12.70843	.6523951	268.4074	21.60607	.2282775	.8253149
#1	.0762898	-.013523	.1721454	-.005716	-.014859	37.27137	.2142213
#2	.0778417	-.010531	.1717139	.003112	-.013488	37.37759	.2131767
#3	.0792378	-.012800	.1738435	-.002379	-.009592	37.20927	.2107957

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060360	-.000871	3.376704	.1070319	.0403261	.0887915	164.6332
Stddev	.0000159	.000051	.015214	.0003115	.0004911	.0014893	.4648
%RSD	.2635656	5.833962	.4505594	.2910034	1.217880	1.677304	.2823043
#1	.0060216	-.000904	3.377935	.1073848	.0401448	.0873391	164.2272
#2	.0060332	-.000898	3.391265	.1067955	.0399514	.0887202	165.1402
#3	.0060531	-.000813	3.360912	.1069153	.0408821	.0903151	164.5323

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.904459	4.866227	.0410330	.0037135	.1496947	.2662829	.3847568
Stddev	.011935	.035538	.0005909	.0003339	.0198698	.0038810	.0013237
%RSD	.6266971	.7303076	1.440138	8.990134	13.27353	1.457454	.3440291
#1	1.915186	4.828420	.0407345	.0038160	.1324635	.2699660	.3846165
#2	1.906590	4.871311	.0406509	.0033404	.1451909	.2666523	.3835089
#3	1.891602	4.898949	.0417136	.0039841	.1714298	.2622305	.3861450

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.783865	.0474643	.0031514	.0025405	.6778566	3.684619	3.265959
Stddev	.059105	.0049553	.0000851	.0008328	.0082730	.052782	.024749
%RSD	.7593286	10.44008	2.699158	32.78098	1.220466	1.432504	.7577773
#1	7.728796	.0425730	.0030539	.0034285	.6727768	3.630846	3.253238
#2	7.846313	.0524812	.0032102	.0024161	.6874029	3.736351	3.250159
#3	7.776485	.0473387	.0031901	.0017769	.6733900	3.686659	3.294481

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-09 Acquired: 10/1/2025 14:16:10 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6029173	.0349103	-.135233
Stddev	.0065051	.0021577	.000501
%RSD	1.078935	6.180751	.3702653
#1	.6037427	.0343655	-.134690
#2	.5960389	.0372883	-.135677
#3	.6089703	.0330773	-.135332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7019.037	99489.01	8511.812	5383.962	8080.495
Stddev	25.988	175.79	54.244	21.611	32.029
%RSD	.3702571	.1766882	.6372807	.4013955	.3963758
#1	7041.260	99600.65	8461.899	5398.166	8105.573
#2	7025.391	99286.38	8503.997	5359.091	8091.498
#3	6990.461	99579.99	8569.539	5394.628	8044.415

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-17 Acquired: 10/1/2025 14:20:17 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1664238	-.020942	1.073436	.0008461	-.008552	71.22394	.4648319
Stddev	.0013054	.000771	.000359	.0005920	.000524	.05642	.0031343
%RSD	.7843641	3.683074	.0334317	69.96753	6.121471	.0792082	.6742964
#1	.1676967	-.020188	1.073045	.0014233	-.008264	71.27233	.4678658
#2	.1650882	-.020909	1.073513	.0008747	-.009157	71.23752	.4650239
#3	.1664864	-.021730	1.073750	.0002403	-.008237	71.16197	.4616060

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108572	.0006126	9.643147	.1739553	.0649823	.2330706	288.4070
Stddev	.0001122	.0000217	.013415	.0019306	.0002360	.0003780	.3547
%RSD	1.033646	3.539279	.1391108	1.109835	.3631350	.1621854	.1229963
#1	.0107424	.0006230	9.628987	.1718107	.0652485	.2331395	288.4556
#2	.0108626	.0005877	9.655665	.1755546	.0647990	.2334094	288.7349
#3	.0109666	.0006272	9.644789	.1745006	.0648993	.2326629	288.0305

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.985875	9.554524	.0965934	.0059521	.0587957	.3957739	1.259476
Stddev	.015748	.035811	.0006735	.0001260	.0188139	.0019368	.001861
%RSD	.5274246	.3748044	.6972261	2.117280	31.99881	.4893759	.1477334
#1	2.997105	9.521505	.0973052	.0060893	.0435171	.3962706	1.257811
#2	2.992646	9.592591	.0965090	.0058415	.0798099	.3936371	1.259132
#3	2.967873	9.549474	.0959662	.0059254	.0530602	.3974140	1.261485

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87102	.0822330	.0100249	.0181090	1.080115	4.107381	7.418616
Stddev	.02713	.0064570	.0002975	.0003720	.004781	.019554	.008172
%RSD	.2285501	7.852053	2.967576	2.054280	.4426509	.4760615	.1101572
#1	11.83977	.0891587	.0102533	.0185183	1.085264	4.099303	7.411920
#2	11.88480	.0811618	.0096885	.0180173	1.079264	4.093160	7.416207
#3	11.88850	.0763787	.0101330	.0177915	1.075816	4.129679	7.427722

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3245-17 Acquired: 10/1/2025 14:20:17 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.482717**	**.0724354**	**-.230821**
Stddev	.010541	.0007520	.000405
%RSD	.4245921	1.038108	.1754595
#1	2.472047	.0726327	-.230449
#2	2.482980	.0716044	-.231253
#3	2.493125	.0730690	-.230760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7159.208**	**102729.8**	**8852.188**	**5458.051**	**8085.029**
Stddev	9.351	520.3	25.904	23.269	7.916
%RSD	.1306196	.5064885	.2926334	.4263251	.0979136
#1	7155.486	103292.8	8881.993	5482.313	8076.264
#2	7152.291	102629.8	8835.093	5455.920	8087.162
#3	7169.847	102266.7	8839.479	5435.921	8091.660

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01 Acquired: 10/1/2025 14:24:21 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.0578920**	**-.020909**	**.2660092**	**-.001583**	**-.020146**	**155.3844**
Stddev	.0015033	.002665	.0022316	.003270	.001511	.1477
%RSD	2.596775	12.74797	.8389324	206.5389	7.499956	.0950575
#1	.0590942	-.017833	.2641073	-.000279	-.020394	155.2317
#2	.0583754	-.022347	.2654543	.000833	-.018527	155.3950
#3	.0562065	-.022546	.2684659	-.005303	-.021518	155.5265

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5388021**	**.0107593**	**.0054789**	**60.23274**	**.3153490**	**.1919556**
Stddev	.0016179	.0000334	.0003061	.07220	.0002718	.0008415
%RSD	.3002752	.3107413	5.586899	.1198656	.0861789	.4383811
#1	.5395993	.0107929	.0051778	60.22014	.3155452	.1914729
#2	.5369403	.0107588	.0054692	60.16767	.3154630	.1914665
#3	.5398667	.0107260	.0057898	60.31041	.3150388	.1929272

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7735895**	**328.8055**	**4.086375**	**74.62617**	**.3447297**	**.0034060**
Stddev	.0033861	1.2343	.010490	.14808	.0018465	.0010494
%RSD	.4377166	.3753754	.2567021	.1984277	.5356274	30.81130
#1	.7700859	329.1849	4.092317	74.45974	.3429904	.0031736
#2	.7738382	327.4260	4.074263	74.67543	.3445313	.0024922
#3	.7768444	329.8054	4.092544	74.74334	.3466674	.0045521

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.395638**	**.6933500**	**.6087208**	**23.61058**	**.1792993**	**.0112384**
Stddev	.066885	.0048995	.0026833	.11029	.0099769	.0001943
%RSD	.7118748	.7066457	.4408080	.4671284	5.564365	1.728676
#1	9.428056	.6892103	.6103569	23.61681	.1807444	.0114114
#2	9.318721	.6920802	.6101814	23.49731	.1686787	.0110282
#3	9.440136	.6987594	.6056241	23.71763	.1884749	.0112755

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01 Acquired: 10/1/2025 14:24:21 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0121849	9.923477	3.570029	F 12.91253	F 13.35712	.1861043
Stddev	.0007572	.023805	.009620	.09023	.10739	.0016806
%RSD	6.214577	.2398824	.2694538	.6987665	.8040220	.9030401
#1	.0113191	9.943666	3.559716	12.83959	13.32198	.1860728
#2	.0125119	9.897228	3.578759	12.88458	13.27170	.1878005
#3	.0127237	9.929536	3.571613	13.01343	13.47768	.1844397

Elem	Sr4077
Units	ppm
Avg	-.165860
Stddev	.000730
%RSD	.4401564
#1	-.165507
#2	-.165374
#3	-.166700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7908.447	116566.3	9900.292	6165.777	7340.374
Stddev	26.063	336.2	36.955	20.586	31.223
%RSD	.3295582	.2884191	.3732755	.3338773	.4253639
#1	7937.009	116938.4	9937.019	6185.198	7371.201
#2	7902.378	116284.3	9863.112	6144.196	7341.153
#3	7885.954	116476.2	9900.743	6167.937	7308.769

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01DUP Acquired: 10/1/2025 14:28:23 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0624233	-.022538	.2061588	.0040234	-.019219	151.4364
Stddev	.0012121	.000362	.0013461	.0015337	.001111	2.0541
%RSD	1.941756	1.605933	.6529281	38.11968	5.780935	1.356383
#1	.0622527	-.022703	.2046647	.0035578	-.018387	152.4450
#2	.0613056	-.022787	.2072770	.0057360	-.018789	152.7911
#3	.0637117	-.022122	.2065346	.0027765	-.020481	149.0730

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5220933	.0100715	.0028519	62.75240	.2808507	.2158787
Stddev	.0062142	.0000889	.0003297	.76097	.0012105	.0006333
%RSD	1.190248	.8825731	11.56161	1.212648	.4310261	.2933820
#1	.5236496	.0100624	.0026167	63.06616	.2818375	.2165567
#2	.5273813	.0101646	.0027102	63.30633	.2812147	.2153023
#3	.5152488	.0099875	.0032288	61.88473	.2795000	.2157771

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8662906	361.1311	3.946988	76.39605	.3460443	.0066242
Stddev	.0022129	3.8605	.047996	.85461	.0017379	.0013987
%RSD	.2554403	1.069010	1.216021	1.118656	.5022153	21.11505
#1	.8668054	364.6142	3.965281	76.91478	.3477353	.0079788
#2	.8638658	361.7990	3.983149	76.86368	.3442631	.0067085
#3	.8682007	356.9802	3.892536	75.40967	.3461344	.0051852

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.530219	.6224229	.6170434	25.85658	.1850425	.0127033
Stddev	.083885	.0063918	.0007570	.25195	.0129199	.0003593
%RSD	.9833857	1.026920	.1226794	.9744140	6.982148	2.828514
#1	8.612876	.6262305	.6172108	26.01653	.1995020	.0130976
#2	8.532623	.6259946	.6162168	25.98705	.1809935	.0126182
#3	8.445158	.6150435	.6177027	25.56615	.1746321	.0123942

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01DUP Acquired: 10/1/2025 14:28:23 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0071899	9.961785	3.119917	F 11.30642	F 19.68499	.1914179
Stddev	.0004264	.126813	.024002	.01725	.06220	.0038671
%RSD	5.930631	1.272994	.7693224	.1525249	.3159846	2.020256
#1	.0076710	10.00596	3.144545	11.29345	19.75553	.1928281
#2	.0070396	10.06061	3.096594	11.29982	19.63801	.1943820
#3	.0068589	9.81879	3.118612	11.32599	19.66143	.1870436

Elem	Sr4077
Units	ppm
Avg	-.204890
Stddev	.002518
%RSD	1.229135
#1	-.207689
#2	-.204171
#3	-.202809

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7755.640	106957.0	9634.082	5826.601	7418.843
Stddev	10.538	456.4	57.531	45.117	6.082
%RSD	.1358796	.4266800	.5971642	.7743326	.0819866
#1	7763.648	106486.8	9626.401	5775.379	7417.295
#2	7759.572	106986.0	9580.778	5843.980	7425.550
#3	7743.702	107398.1	9695.069	5860.445	7413.684

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01LX5 Acquired: 10/1/2025 14:32:25 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143586	-.004137	.0558520	.0006234	-.005999	38.67396	.1350704
Stddev	.0006833	.002368	.0018605	.0021731	.002144	.03528	.0020027
%RSD	4.759096	57.22937	3.331034	348.6005	35.74550	.0912210	1.482714
#1	.0151248	-.003314	.0573046	.0020270	-.007647	38.69116	.1332217
#2	.0138121	-.002290	.0564964	.0017228	-.003575	38.63338	.1347916
#3	.0141390	-.006806	.0537551	-.001880	-.006775	38.69734	.1371979

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027313	-.000315	15.38154	.0784387	.0377803	.1923151	81.46094
Stddev	.0000415	.000123	.04597	.0007654	.0001564	.0013729	.71567
%RSD	1.520448	38.87722	.2988903	.9757312	.4139666	.7138821	.8785410
#1	.0027677	-.000310	15.38882	.0792995	.0379583	.1938644	82.01221
#2	.0026860	-.000441	15.33236	.0778352	.0377176	.1918314	81.71848
#3	.0027401	-.000196	15.42344	.0781814	.0376649	.1912496	80.65215

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.057675	19.01967	.0701086	.0007535	2.286413	.1725714	.1478008
Stddev	.004483	.09303	.0004684	.0005054	.014220	.0018976	.0008279
%RSD	.4238634	.4891051	.6681609	67.07471	.6219314	1.099596	.5601459
#1	1.059073	18.92189	.0705896	.0001934	2.295143	.1741751	.1485207
#2	1.052659	19.03006	.0700826	.0011755	2.294091	.1704765	.1468961
#3	1.061292	19.10707	.0696538	.0008914	2.270004	.1730625	.1479855

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.640813	.0370418	.0026468	.0014701	2.510412	.9673315	2.618346
Stddev	.069117	.0036528	.0001738	.0007937	.005125	.0262937	.022434
%RSD	1.225310	9.861323	6.566162	53.98839	.2041626	2.718167	.8568112
#1	5.651412	.0408497	.0026647	.0022001	2.515612	.9962949	2.642162
#2	5.704018	.0367087	.0028110	.0015850	2.505365	.9607363	2.615265
#3	5.567008	.0335669	.0024648	.0006252	2.510260	.9449632	2.597612

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01LX5 Acquired: 10/1/2025 14:32:25 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.609875**	**.0440468**	**-.039961**
Stddev	.016562	.0007701	.000834
%RSD	.6346063	1.748318	2.086358
#1	2.627810	.0446954	-.040374
#2	2.606659	.0442493	-.040508
#3	2.595157	.0431957	-.039002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7040.379**	**101510.6**	**8275.879**	**5447.051**	**7992.479**
Stddev	12.361	513.0	66.725	57.806	10.070
%RSD	.1755712	.5053285	.8062541	1.061240	.1259921
#1	7037.278	100959.2	8295.692	5386.926	7987.180
#2	7029.864	101598.8	8330.453	5502.219	7986.165
#3	7053.995	101973.7	8201.492	5452.007	8004.092

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01MS Acquired: 10/1/2025 14:36:29 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7240223	2.062971	1.194716	1.638571	.2588837	180.1562
Stddev	.0007600	.034175	.001459	.005237	.0020666	.4732
%RSD	.1049736	1.656586	.1220959	.3196335	.7982690	.2626830
#1	.7240856	2.024200	1.194097	1.644556	.2589826	180.4339
#2	.7247486	2.088724	1.193669	1.634831	.2608991	180.4249
#3	.7232325	2.075988	1.196382	1.636325	.2567695	179.6097

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7855415	.1721996	.2098124	78.38002	.6905691	.4442856
Stddev	.0053611	.0012304	.0002930	.28260	.0039802	.0006006
%RSD	.6824746	.7145514	.1396496	.3605459	.5763671	.1351759
#1	.7892855	.1735734	.2101503	78.55795	.6910393	.4436269
#2	.7879390	.1718266	.2096570	78.52795	.6942933	.4448028
#3	.7794000	.1711987	.2096297	78.05417	.6863747	.4444271

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.003670	374.1796	4.623220	88.99493	.9242168	.0672647
Stddev	.003175	3.1023	.026534	.25489	.0013228	.0004659
%RSD	.3163103	.8290853	.5739317	.2864063	.1431223	.6926642
#1	1.006196	371.8218	4.639801	89.23095	.9256486	.0667290
#2	1.000106	377.6940	4.637243	89.02919	.9230404	.0674891
#3	1.004707	373.0230	4.592617	88.72464	.9239613	.0675759

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.16620	.9769119	.8213828	41.61851	.3650189	.3764659
Stddev	.13812	.0042720	.0027198	.32070	.0107552	.0010130
%RSD	1.049052	.4372984	.3311295	.7705717	2.946488	.2690669
#1	13.06627	.9818378	.8230403	41.40799	.3558013	.3774333
#2	13.32381	.9746755	.8228641	41.98761	.3768355	.3754128
#3	13.10852	.9742223	.8182438	41.45994	.3624201	.3765515

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01MS Acquired: 10/1/2025 14:36:29 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7083070	F 12.26465	3.907194	F 20.77279	F 16.80295	.3863561
Stddev	.0021198	.06456	.034735	.01720	.01620	.0009247
%RSD	.2992808	.5264086	.8890029	.0827830	.0964400	.2393362
#1	.7106420	12.30450	3.871543	20.79253	16.78543	.3866042
#2	.7077754	12.29929	3.940935	20.76106	16.81741	.3871315
#3	.7065035	12.19016	3.909104	20.76479	16.80600	.3853327

Elem	Sr4077
Units	ppm
Avg	-.012634
Stddev	.003544
%RSD	28.05223
#1	-.008543
#2	-.014613
#3	-.014747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7871.489	114786.7	9883.623	6126.443	7105.170
Stddev	6.676	451.3	46.383	38.039	4.720
%RSD	.0848112	.3931622	.4692939	.6209027	.0664266
#1	7863.796	115148.9	9834.893	6116.894	7100.687
#2	7875.758	114281.1	9888.742	6094.087	7104.728
#3	7874.912	114930.0	9927.235	6168.347	7110.095

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01MSD Acquired: 10/1/2025 14:40:24 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.6634992**	**1.814134**	**1.105333**	**1.499474**	**.2301309**	**171.5250**
Stddev	.0024064	.047952	.005889	.003670	.0027811	.4294
%RSD	.3626807	2.643226	.5328019	.2447221	1.208487	.2503369
#1	.6611101	1.759214	1.102169	1.495833	.2331505	171.3407
#2	.6659225	1.835494	1.101702	1.499417	.2276744	172.0158
#3	.6634650	1.847694	1.112128	1.503171	.2295679	171.2185

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7296592**	**.1533766**	**.1867856**	**74.19235**	**.6240486**	**.3987113**
Stddev	.0009913	.0009118	.0005652	.11496	.0025073	.0012064
%RSD	.1358606	.5944522	.3025722	.1549420	.4017767	.3025832
#1	.7291622	.1538030	.1866305	74.20642	.6223756	.3980352
#2	.7308007	.1539969	.1863143	74.29962	.6269314	.3979945
#3	.7290146	.1523297	.1874122	74.07100	.6228389	.4001042

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8267064**	**358.2837**	**4.730491**	**85.27706**	**.8205003**	**.0620155**
Stddev	.0027580	2.7265	.017813	.27527	.0033062	.0009213
%RSD	.3336095	.7609915	.3765521	.3227898	.4029528	1.485660
#1	.8287135	355.1631	4.718470	85.32954	.8200192	.0609660
#2	.8235616	359.4831	4.750955	85.52232	.8174609	.0623896
#3	.8278442	360.2048	4.722047	84.97934	.8240206	.0626910

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.55597**	**.9305555**	**.7728911**	**34.61882**	**.3348685**	**.3505761**
Stddev	.09438	.0086536	.0009108	.22580	.0092525	.0013126
%RSD	.7516378	.9299432	.1178378	.6522563	2.763010	.3744056
#1	12.44715	.9276782	.7721193	34.36355	.3246912	.3493323
#2	12.61540	.9402812	.7738957	34.70045	.3371421	.3504479
#3	12.60536	.9237070	.7726584	34.79246	.3427722	.3519481

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01MSD Acquired: 10/1/2025 14:40:24 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6260449	F 11.19095	3.691525	F 18.32781	F 14.27865	.3497221
Stddev	.0022411	.02997	.027747	.10290	.10734	.0013859
%RSD	.3579844	.2677976	.7516326	.5614555	.7517741	.3962938
#1	.6243459	11.18010	3.661159	18.27900	14.16066	.3505813
#2	.6252040	11.22483	3.715556	18.25839	14.30476	.3504618
#3	.6285849	11.16791	3.697860	18.44603	14.37053	.3481233

Elem	Sr4077
Units	ppm
Avg	.0256227
Stddev	.0021588
%RSD	8.425368
#1	.0274575
#2	.0261667
#3	.0232439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7787.301	114367.4	10054.31	6046.905	7206.940
Stddev	19.873	459.1	56.41	32.079	24.085
%RSD	.2552007	.4014676	.5610363	.5305009	.3341894
#1	7806.140	114875.7	10021.90	6079.064	7227.285
#2	7789.229	113982.8	10021.58	6014.906	7213.189
#3	7766.534	114243.5	10119.44	6046.745	7180.347

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01A Acquired: 10/1/2025 14:44:18 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.5157647**	**1.342848**	**.9290039**	**1.143902**	**.1351242**	**156.7725**
Stddev	.0912793	.239367	.1280420	.221039	.0703366	.6427
%RSD	17.69787	17.82533	13.78273	19.32325	52.05331	.4099464
#1	.4240744	1.105885	.7994421	.920042	.0684388	156.1573
#2	.5165922	1.338111	.9320996	1.149656	.1283168	157.4395
#3	.6066274	1.584549	1.055470	1.362008	.2086170	156.7207

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5992566**	**.0762797**	**.1412560**	**60.89258**	**.4550965**	**.3285306**
Stddev	.0058682	.0063267	.0262605	.28606	.0112042	.0265289
%RSD	.9792435	8.294076	18.59070	.4697803	2.461931	8.075019
#1	.5924930	.0700925	.1150846	60.61990	.4433662	.3019982
#2	.6029939	.0760093	.1410787	61.19037	.4562359	.3285377
#3	.6022828	.0827372	.1676046	60.86747	.4656875	.3550560

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9230041**	**342.8522**	**4.177697**	**75.50788**	**.6832544**	**.0313823**
Stddev	.0317046	3.2759	.039604	.32659	.0659991	.0037029
%RSD	3.434931	.9554708	.9479932	.4325298	9.659523	11.79940
#1	.8931593	339.7866	4.136344	75.20464	.6173340	.0272304
#2	.9195650	346.3040	4.215284	75.85366	.6830972	.0325737
#3	.9562880	342.4660	4.181463	75.46535	.7493320	.0343429

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.55253**	**.7826353**	**.6845393**	**26.97386**	**.3408746**	**.0870413**
Stddev	.15190	.0079717	.0059581	.31533	.0168779	.0351769
%RSD	1.439490	1.018565	.8703818	1.169030	4.951349	40.41398
#1	10.38972	.7734330	.6787254	26.61125	.3214875	.0542597
#2	10.69044	.7870501	.6842606	27.18381	.3488447	.0826611
#3	10.57744	.7874229	.6906318	27.12651	.3522914	.1242032

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3240-01A Acquired: 10/1/2025 14:44:18 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.1672142	F 10.04221	4.666792	F 16.58659	F 13.19312	.2382173
Stddev	.0729963	.07598	.033962	.66900	.08709	.0032098
%RSD	43.65434	.7566517	.7277326	4.033397	.6601294	1.347415
#1	.0995343	9.96957	4.660957	15.90448	13.26710	.2348479
#2	.1575453	10.12114	4.703294	16.61362	13.21513	.2385647
#3	.2445631	10.03592	4.636126	17.24167	13.09714	.2412392

Elem	Sr4077
Units	ppm
Avg	-.126457
Stddev	.003010
%RSD	2.380320
#1	-.127455
#2	-.128842
#3	-.123075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7950.416	113772.1	9954.859	6092.211	7376.997
Stddev	12.896	322.9	15.030	17.949	7.964
%RSD	.1622009	.2837812	.1509790	.2946154	.1079535
#1	7951.466	113827.7	9949.956	6104.794	7380.306
#2	7962.755	113425.1	9942.892	6071.658	7382.773
#3	7937.028	114063.6	9971.727	6100.182	7367.912

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3238-01 Acquired: 10/1/2025 14:48:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0451292	-.003772	.1040842	-.012428	.0020677	286.1064
Stddev	.0023746	.003081	.0029060	.001307	.0031393	1.1063
%RSD	5.261891	81.67500	2.791962	10.51451	151.8273	.3866865
#1	.0477669	-.003561	.1062395	-.011267	-.000480	285.0704
#2	.0431617	-.006952	.1052337	-.012173	.005575	285.9770
#3	.0444591	-.000802	.1007792	-.013843	.001108	287.2717

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8148610	.0117615	.0084553	1894.010	.8108289	.2446280
Stddev	.0111298	.0000446	.0006151	18.139	.0024742	.0015758
%RSD	1.365850	.3789117	7.275289	.9576939	.3051456	.6441715
#1	.8035711	.0117102	.0090158	1914.511	.8129179	.2459059
#2	.8151883	.0117908	.0085530	1880.047	.8080966	.2451108
#3	.8258235	.0117835	.0077972	1887.470	.8114721	.2428672

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6873302	377.5056	6.373239	205.1340	.5944696	.0043539
Stddev	.0032463	3.5631	.086420	.6024	.0017946	.0021885
%RSD	.4723013	.9438416	1.355986	.2936557	.3018847	50.26571
#1	.6907429	375.7991	6.296416	204.6070	.5963091	.0030500
#2	.6869667	375.1169	6.356496	205.0043	.5943762	.0031312
#3	.6842809	381.6010	6.466806	205.7907	.5927235	.0068805

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.05319	.9046025	2.892397	23.79961	.8623935	.0266105
Stddev	.20686	.0026147	.008646	.09889	.0144896	.0004116
%RSD	1.288619	.2890481	.2989167	.4155308	1.680166	1.546681
#1	15.87078	.9051567	2.889685	23.70665	.8556945	.0270780
#2	16.01083	.9017551	2.902073	23.78867	.8524655	.0264509
#3	16.27795	.9068958	2.885432	23.90352	.8790205	.0263026

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3238-01 Acquired: 10/1/2025 14:48:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0246639	F 22.04139	3.596775	7.421844	F 80.73522	-.031187
Stddev	.0003587	.20410	.034907	.023324	.48886	.005784
%RSD	1.454380	.9259970	.9705201	.3142586	.6055066	18.54726
#1	.0250777	21.86200	3.635842	7.447515	81.29924	-.037598
#2	.0244728	21.99872	3.568647	7.416063	80.43332	-.029607
#3	.0244411	22.26346	3.585836	7.401955	80.47311	-.026357

Elem	Sr4077
Units	ppm
Avg	9.006636
Stddev	.049333
%RSD	.5477386
#1	9.045250
#2	8.951060
#3	9.023599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6354.919	92210.91	8663.860	4975.361	5830.958
Stddev	8.665	514.65	21.305	7.172	6.301
%RSD	.1363474	.5581235	.2459092	.1441591	.1080621
#1	6363.796	91688.39	8671.864	4967.371	5825.088
#2	6354.478	92717.32	8680.004	4977.469	5830.171
#3	6346.483	92227.01	8639.711	4981.243	5837.616

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV03 Acquired: 10/1/2025 15:00:40 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**5.086072**	**5.032124**	**5.047272**	**5.083398**	**5.074714**	**10.07762**	**10.09200**
Stddev	.009883	.044781	.004914	.012182	.008141	.00464	.02718
%RSD	.1943057	.8899097	.0973637	.2396359	.1604273	.0460106	.2692930
#1	5.097014	5.050329	5.043998	5.096082	5.075965	10.07632	10.12014
#2	5.077796	5.064935	5.044895	5.071791	5.066020	10.07377	10.06590
#3	5.083406	4.981107	5.052923	5.082320	5.082157	10.08277	10.08996

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2544964**	**2.542688**	**25.31297**	**1.010402**	**2.529083**	**1.277683**	**4.984390**
Stddev	.0017250	.002409	.05111	.000945	.000603	.000672	.025845
%RSD	.6778145	.0947565	.2019000	.0935390	.0238388	.0525758	.5185284
#1	.2533423	2.544723	25.36744	1.010338	2.529759	1.278450	4.993551
#2	.2564794	2.540028	25.26606	1.011377	2.528603	1.277392	4.955212
#3	.2536676	2.543315	25.30543	1.009490	2.528886	1.277205	5.004407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.541253**	**25.16051**	**2.538390**	**1.249428**	**24.42261**	**2.528119**	**2.525544**
Stddev	.001447	.04012	.001470	.001973	.12525	.011885	.000681
%RSD	.0569385	.1594473	.0579080	.1579152	.5128355	.4701120	.0269653
#1	2.541012	25.15321	2.540034	1.247469	24.54229	2.535588	2.524758
#2	2.542805	25.12455	2.537203	1.251414	24.29245	2.514414	2.525914
#3	2.539941	25.20378	2.537933	1.249401	24.43310	2.534356	2.525960

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.67744**	**5.088836**	**5.072205**	**5.066303**	**5.051382**	**4.880230**	**5.139187**
Stddev	.16092	.040209	.006667	.006046	.006431	.044536	.006901
%RSD	.6521004	.7901414	.1314484	.1193386	.1273091	.9125699	.1342864
#1	24.78974	5.059083	5.079590	5.072634	5.058422	4.886372	5.145293
#2	24.49308	5.134580	5.066628	5.060589	5.045818	4.832943	5.140567
#3	24.74950	5.072844	5.070398	5.065687	5.049905	4.921377	5.131699

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV03 Acquired: 10/1/2025 15:00:40 Type: Unk
Method: 6010-200.7 NEW(v240) 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	4.980182	4.969442	5.091782
Stddev	.020593	.011730	.051591
%RSD	.4135004	.2360398	1.013220
#1	5.003943	4.980998	5.086384
#2	4.969114	4.957546	5.145860
#3	4.967490	4.969783	5.043103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6408.973	93885.40	7663.842	4991.253	7409.206
Stddev	7.785	139.71	37.825	18.764	8.130
%RSD	.1214779	.1488081	.4935484	.3759407	.1097289
#1	6412.712	93728.02	7681.612	4971.161	7412.581
#2	6400.024	93933.38	7620.404	4994.277	7399.932
#3	6414.185	93994.79	7689.509	5008.322	7415.105

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB03 Acquired: 10/1/2025 15:04:40 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0007572	.0002109	.0007827	.0014952	.0009064	.0264280	.0031992
Stddev	.0016212	.0013779	.0010596	.0019829	.0003192	.0043028	.0004242
%RSD	214.1025	653.4431	135.3734	132.6192	35.21540	16.28132	13.26047
#1	.0011607	.0006316	.0010271	.0036797	.0009618	.0268388	.0027127
#2	.0021385	-.001328	-.000378	-.000191	.0011942	.0305108	.0033927
#3	-.001028	.001329	.001699	.000997	.0005631	.0219346	.0034921

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000023	.0000646	.0072121	.0000224	-.000065	-.000370	.0040604
Stddev	.0000972	.0000099	.0118320	.0003161	.000125	.000263	.0066511
%RSD	4312.984	15.30886	164.0582	1410.115	193.1894	71.07837	163.8034
#1	.0000658	.0000644	.0041917	-.000109	-.000142	-.000506	.0112462
#2	.0000506	.0000548	.0202616	-.000206	.000079	-.000067	-.001880
#3	-.000110	.0000746	-.002817	.000383	-.000131	-.000536	.002815

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010489	.0300040	-.000230	-.000534	-.168741	.0010231	.0000302
Stddev	.0001675	.0174504	.000196	.000200	.012343	.0012225	.0001298
%RSD	15.97328	58.16028	85.23321	37.47220	7.314673	119.4900	430.0109
#1	.0008567	.0330592	-.000245	-.000371	-.156484	.0001481	.0001672
#2	.0011638	.0112277	-.000027	-.000474	-.168573	.0005013	.0000143
#3	.0011262	.0457250	-.000418	-.000758	-.181168	.0024200	-.000091

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.267023	-.007083	.0004232	-.019088	.0011020	-.003123	.0010075
Stddev	.035022	.000495	.0003206	.000265	.0020158	.003779	.0006761
%RSD	13.11557	6.994933	75.74705	1.385822	182.9211	121.0086	67.10522
#1	-.226656	-.006674	.0004736	-.018942	-.001043	-.001224	.0017868
#2	-.289303	-.007634	.0000804	-.019394	.002957	-.000670	.0006584
#3	-.285110	-.006940	.0007156	-.018930	.001392	-.007476	.0005773

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB03 Acquired: 10/1/2025 15:04:40 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0042746	-.005955	.0001593
Stddev	.0010527	.001861	.0000624
%RSD	24.62675	31.25005	39.18246
#1	.0050771	-.004947	.0001117
#2	.0030827	-.008102	.0002300
#3	.0046639	-.004815	.0001363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6877.371	96229.53	7763.378	5197.912	8655.599
Stddev	15.064	270.72	22.690	7.599	20.922
%RSD	.2190408	.2813284	.2922695	.1461958	.2417121
#1	6894.016	96489.53	7787.440	5197.045	8673.412
#2	6873.422	95949.23	7760.323	5190.783	8660.824
#3	6864.673	96249.82	7742.370	5205.907	8632.560

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169913BL Acquired: 10/1/2025 15:08:59 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000112**	**.0010287**	**-.000124**	**.0038385**	**.0002940**	**.0107894**	**.0011572**
Stddev	.002142	.0017196	.000752	.0016011	.0008210	.0045037	.0008167
%RSD	1917.692	167.1586	606.1678	41.71261	279.2196	41.74217	70.57532
#1	.001077	.0028653	-.000978	.0050946	.0000302	.0159793	.0019055
#2	-.002585	.0007642	.000439	.0043853	-.000363	.0084808	.0002860
#3	.001173	-.000543	.000167	.0020356	.001215	.0079081	.0012802

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000101**	**.0000416**	**.0086804**	**-.000012**	**.0000516**	**-.000750**	**.0012364**
Stddev	.0000172	.0000225	.0117472	.000353	.0003258	.000163	.0051033
%RSD	169.5830	54.05111	135.3304	3002.350	631.0542	21.76664	412.7554
#1	.0000295	.0000361	.0001159	.000307	-.000135	-.000905	-.001911
#2	.0000041	.0000664	.0038530	.000049	-.000138	-.000580	.007124
#3	-.000003	.0000224	.0220721	-.000391	.000428	-.000766	-.001504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002471**	**.0394178**	**-.000429**	**-.000523**	**-.081482**	**.0001339**	**-.000235**
Stddev	.0003293	.0196750	.000175	.000314	.027800	.0036000	.000101
%RSD	133.2526	49.91405	40.74755	59.92197	34.11771	2689.523	42.86076
#1	.0000371	.0167617	-.000552	-.000727	-.073754	-.000804	-.000123
#2	.0000776	.0492855	-.000508	-.000680	-.112329	.004110	-.000266
#3	.0006266	.0522061	-.000229	-.000162	-.058364	-.002904	-.000317

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.119485**	**-.010495**	**.0001109**	**.0000218**	**.0008663**	**-.010155**	**.0015352**
Stddev	.039309	.000716	.0000874	.0005323	.0018709	.013448	.0003160
%RSD	32.89866	6.822536	78.81225	2442.948	215.9687	132.4240	20.58139
#1	-.141801	-.009700	.0000152	.0001753	-.001294	-.024265	.0013209
#2	-.142556	-.010694	.0001865	-.000570	.001979	.002516	.0013867
#3	-.074097	-.011090	.0001311	.000460	.001914	-.008718	.0018981

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169913BL Acquired: 10/1/2025 15:08:59 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0053545	-.003141	.0001574
Stddev	.0010264	.001828	.0000837
%RSD	19.16906	58.20513	53.14574
#1	.0063300	-.001969	.0000944
#2	.0054495	-.002207	.0002523
#3	.0042838	-.005248	.0001254

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6630.018	97199.48	7678.778	5215.471	8082.026
Stddev	3.055	470.56	77.606	11.950	6.586
%RSD	.0460759	.4841157	1.010661	.2291262	.0814889
#1	6631.061	97523.04	7710.628	5205.841	8089.223
#2	6626.579	96659.67	7590.314	5211.728	8076.299
#3	6632.415	97415.72	7735.393	5228.844	8080.556

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169913BS Acquired: 10/1/2025 15:13:18 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.7433063**	**1.680687**	**.9107152**	**1.882089**	**.8391953**	**1.871053**
Stddev	.0019086	.108051	.0020138	.010234	.0013498	.000454
%RSD	.2567663	6.428954	.2211257	.5437745	.1608400	.0242735
#1	.7440881	1.799842	.9126528	1.892281	.8399528	1.871326
#2	.7411310	1.653148	.9108599	1.882174	.8376369	1.871305
#3	.7446998	1.589071	.9086329	1.871813	.8399961	1.870529

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1859412**	**.1938514**	**.1829936**	**.9702084**	**.3754750**	**.1848238**
Stddev	.0018405	.0016892	.0002759	.0142076	.0015808	.0001160
%RSD	.9898444	.8714002	.1507547	1.464383	.4210129	.0627562
#1	.1840775	.1932600	.1832965	.9544823	.3746157	.1848819
#2	.1859884	.1957568	.1827567	.9821176	.3745100	.1846902
#3	.1877577	.1925373	.1829277	.9740254	.3772993	.1848992

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2922654**	**2.805353**	**.1948241**	**1.925535**	**.4646949**	**.0713375**
Stddev	.0000706	.014054	.0010678	.026785	.0013032	.0004794
%RSD	.0241448	.5009581	.5481001	1.391024	.2804368	.6720101
#1	.2923270	2.804811	.1938812	1.919385	.4659492	.0710204
#2	.2921884	2.791579	.1959837	1.902360	.4647877	.0711032
#3	.2922808	2.819670	.1946074	1.954860	.4633478	.0718890

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.718268**	**.2828692**	**.1928761**	**9.225714**	**.2807241**	**.4161031**
Stddev	.033182	.0018570	.0002190	.071260	.0025484	.0015861
%RSD	1.220715	.6564735	.1135246	.7724042	.9077882	.3811760
#1	2.695544	.2837644	.1927374	9.209528	.2792321	.4168814
#2	2.702914	.2807342	.1927625	9.163940	.2836666	.4171496
#3	2.756347	.2841090	.1931285	9.303675	.2792735	.4142782

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169913BS Acquired: 10/1/2025 15:13:18 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7068478	.2060659	.8850257	5.436016	F 2.091538	.1915159
Stddev	.0023394	.0010534	.0276489	.046467	.029072	.0021447
%RSD	.3309657	.5111859	3.124082	.8547939	1.389961	1.119872
#1	.7094794	.2064546	.8668396	5.489483	2.121613	.1890918
#2	.7050038	.2048734	.8713941	5.413174	2.089416	.1931667
#3	.7060603	.2068696	.9168435	5.405392	2.063586	.1922893

Elem	Sr4077
Units	ppm
Avg	.1874330
Stddev	.0003724
%RSD	.1987068
#1	.1870106
#2	.1877142
#3	.1875743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6712.185	95825.96	7758.897	5236.125	8134.693
Stddev	14.344	499.66	29.033	41.455	17.868
%RSD	.2136942	.5214256	.3741843	.7917106	.2196549
#1	6718.795	96185.66	7773.644	5256.357	8130.604
#2	6722.031	96036.77	7725.451	5263.578	8154.251
#3	6695.728	95255.44	7777.597	5188.439	8119.223

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169863BL Acquired: 10/1/2025 15:17:18 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007917	.0027925	-.000364	.0043045	-.000909	.0052123	-.000532
Stddev	.0004551	.0007894	.000508	.0046191	.001477	.0028987	.000856
%RSD	57.48379	28.26681	139.6674	107.3079	162.5042	55.61344	160.9736
#1	.0011256	.0025766	-.000248	.0000671	-.001141	.0085572	-.000722
#2	.0009762	.0021336	.000076	.0036180	-.002256	.0036482	.000403
#3	.0002733	.0036674	-.000920	.0092284	.000671	.0034316	-.001276

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000115	.0000063	.0160150	-.000429	-.000013	-.000278	-.001537
Stddev	.000008	.0000512	.0127099	.000270	.000138	.000332	.004201
%RSD	6.799627	808.6544	79.36265	62.95352	1091.057	119.3306	273.2893
#1	-.000123	-.000002	.0028861	-.000118	.000082	.000047	-.003861
#2	-.000108	.000061	.0168990	-.000561	.000051	-.000616	.003312
#3	-.000115	-.000040	.0282598	-.000607	-.000171	-.000265	-.004062

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008016	.0356445	-.000410	-.000458	-.113329	.0018315	-.000203
Stddev	.0004068	.0224830	.000180	.000514	.008013	.0022920	.000169
%RSD	50.74632	63.07554	43.76500	112.2493	7.070787	125.1421	83.17695
#1	.0003448	.0353882	-.000572	-.001024	-.120166	.0010644	-.000321
#2	.0011247	.0582546	-.000217	-.000327	-.115310	.0044086	-.000010
#3	.0009353	.0132908	-.000441	-.000022	-.104511	.0000214	-.000279

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.206261	-.011310	.0001432	-.000423	.0021398	.0025733	.0009724
Stddev	.035996	.000316	.0000959	.000473	.0015322	.0142125	.0011486
%RSD	17.45151	2.796411	67.00052	111.8733	71.60707	552.3069	118.1225
#1	-.247517	-.011457	.0002536	-.000108	.0023663	.0186265	.0017411
#2	-.190010	-.010947	.0000806	-.000193	.0035462	-.008406	-.000348
#3	-.181257	-.011526	.0000953	-.000967	.0005069	-.002501	.001524

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169863BL Acquired: 10/1/2025 15:17:18 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0046444	-.002357	.0001365
Stddev	.0021785	.000634	.0001246
%RSD	46.90695	26.88071	91.25847
#1	.0024552	-.002837	.0000296
#2	.0046658	-.002595	.0001067
#3	.0068121	-.001639	.0002733

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6715.918	98415.66	7675.668	5288.418	8252.045
Stddev	6.338	396.30	48.756	14.296	4.144
%RSD	.0943738	.4026844	.6351976	.2703246	.0502155
#1	6719.607	98537.82	7731.884	5291.871	8248.826
#2	6719.548	97972.66	7650.202	5272.712	8250.589
#3	6708.600	98736.50	7644.919	5300.672	8256.720

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169863BS Acquired: 10/1/2025 15:21:38 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7603741	1.770227	.9175026	1.879593	.7890414	1.973854
Stddev	.0036050	.024687	.0019202	.012569	.0042858	.011284
%RSD	.4741064	1.394587	.2092801	.6686914	.5431719	.5716586
#1	.7581895	1.745442	.9157562	1.868130	.7862841	1.981376
#2	.7583977	1.770423	.9171928	1.877614	.7868610	1.979306
#3	.7645350	1.794816	.9195588	1.893033	.7939791	1.960880

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1915222	.1941850	.1825368	1.012107	.3907256	.1878144
Stddev	.0017586	.0014716	.0002309	.004348	.0025527	.0005012
%RSD	.9181951	.7578321	.1264815	.4295706	.6533094	.2668728
#1	.1931568	.1958401	.1823063	1.015721	.3882204	.1873688
#2	.1896616	.1930241	.1825359	1.007282	.3933232	.1883570
#3	.1917483	.1936909	.1827681	1.013319	.3906332	.1877174

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2955830	2.820310	.2012767	2.020100	.4698925	.0697406
Stddev	.0001161	.012971	.0022311	.048840	.0005266	.0007725
%RSD	.0392805	.4599108	1.108483	2.417692	.1120709	1.107710
#1	.2957103	2.810738	.2035086	2.069868	.4695772	.0690106
#2	.2955560	2.835072	.1990463	1.972245	.4695998	.0705496
#3	.2954829	2.815119	.2012751	2.018187	.4705005	.0696618

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.526268	.2911259	.1957388	8.807245	.2681153	.4163107
Stddev	.016164	.0070771	.0010660	.085406	.0012101	.0016809
%RSD	.6398315	2.430952	.5445833	.9697240	.4513328	.4037580
#1	2.527297	.2977872	.1949237	8.713060	.2695122	.4153254
#2	2.541893	.2918949	.1969451	8.879657	.2674454	.4153551
#3	2.509614	.2836957	.1953476	8.829018	.2673883	.4182515

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169863BS Acquired: 10/1/2025 15:21:38 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6536569	.1966765	.8130917	5.318888	F -.003560	.1884083
Stddev	.0010748	.0015893	.0206860	.001983	.000549	.0015532
%RSD	.1644239	.8080633	2.544114	.0372809	15.41463	.8243804
#1	.6546196	.1973098	.7929630	5.320816	-.003182	.1884724
#2	.6524973	.1978515	.8342932	5.318993	-.003308	.1899285
#3	.6538539	.1948682	.8120190	5.316855	-.004190	.1868241

Elem	Sr4077
Units	ppm
Avg	.1929169
Stddev	.0009470
%RSD	.4908739
#1	.1939142
#2	.1920299
#3	.1928066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6839.197	99149.70	7750.331	5341.431	8399.937
Stddev	12.407	827.76	23.540	35.252	8.070
%RSD	.1814134	.8348578	.3037262	.6599771	.0960772
#1	6852.219	100009.5	7728.761	5368.962	8409.215
#2	6837.859	98358.2	7775.440	5301.699	8394.546
#3	6827.514	99081.4	7746.792	5353.632	8396.050

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169912BL Acquired: 10/1/2025 15:25:40 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000653	.0032809	.0002653	.0017307	-.000580	.0047585	.0018682
Stddev	.0008411	.0016212	.0006886	.0013332	.001828	.0159851	.0010531
%RSD	1288.286	49.41306	259.5049	77.03027	315.4083	335.9247	56.36925
#1	.0000720	.0046934	.0009750	.0016926	.001500	.0206752	.0019113
#2	.0009031	.0036388	-.000400	.0004170	-.001309	.0048945	.0007942
#3	-.000779	.0015107	.000221	.0030825	-.001930	-.011294	.0028990

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000014	.0000217	.0189027	.0003581	.0000973	-.000263	.0201485
Stddev	.000057	.0000324	.0087285	.0002114	.0000383	.000154	.0072396
%RSD	409.2556	149.1287	46.17568	59.02298	39.31602	58.50861	35.93134
#1	-.000025	-.000014	.0289782	.0005856	.0000661	-.000423	.0122417
#2	-.000064	.000049	.0140890	.0003208	.0001400	-.000117	.0264522
#3	.000048	.000031	.0136411	.0001679	.0000858	-.000247	.0217515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009852	.0282663	-.000020	-.000450	-.119871	.0039749	.0000567
Stddev	.0003532	.0211298	.000593	.000179	.019616	.0056094	.0001664
%RSD	35.85181	74.75263	2896.578	39.78811	16.36416	141.1219	293.7238
#1	.0010631	.0136096	.000164	-.000280	-.132497	-.001948	-.000103
#2	.0012930	.0524870	-.000683	-.000433	-.129844	.009207	.000043
#3	.0005996	.0187021	.000458	-.000637	-.097272	.004665	.000229

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.199013	-.012999	.0002599	-.000190	-.000695	-.004495	.0008331
Stddev	.046506	.000483	.0002301	.000316	.000597	.015206	.0009175
%RSD	23.36844	3.714840	88.51769	166.2492	85.93289	338.2753	110.1186
#1	-.252645	-.013075	.0000867	-.000546	-.000005	.012076	.0014035
#2	-.169843	-.012482	.0005209	.000057	-.001050	-.017807	-.000225
#3	-.174551	-.013439	.0001720	-.000081	-.001029	-.007754	.001321

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169912BL Acquired: 10/1/2025 15:25:40 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0028454	-.003137	.0001981
Stddev	.0005650	.000879	.0002010
%RSD	19.85659	28.02955	101.4559
#1	.0024509	-.003951	-.000017
#2	.0025926	-.002204	.000230
#3	.0034927	-.003255	.000381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6725.815	97632.90	7674.060	5230.483	8268.102
Stddev	20.401	88.65	19.918	13.927	20.184
%RSD	.3033260	.0908015	.2595539	.2662570	.2441207
#1	6706.358	97646.82	7695.218	5214.759	8246.123
#2	6724.043	97538.11	7655.672	5235.426	8272.380
#3	6747.045	97713.76	7671.289	5241.264	8285.805

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169912BS Acquired: 10/1/2025 15:30:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7562799	F 1.629439	.9270525	1.904745	.8036404	1.907564
Stddev	.0018568	.077127	.0010873	.009585	.0040665	.013505
%RSD	.2455185	4.733350	.1172836	.5032203	.5060119	.7079682
#1	.7555310	1.660235	.9282997	1.907864	.8083268	1.896747
#2	.7583943	1.541671	.9263040	1.893989	.8015514	1.922700
#3	.7549146	1.686409	.9265538	1.912383	.8010430	1.903244

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1896387	.1992564	.1865748	.9851819	.3863368	.1890779
Stddev	.0014369	.0021179	.0003672	.0069331	.0007324	.0004583
%RSD	.7576853	1.062892	.1968058	.7037383	.1895754	.2423856
#1	.1903947	.2007676	.1866312	.9927646	.3864615	.1893455
#2	.1905397	.2001660	.1861827	.9791669	.3855500	.1885487
#3	.1879817	.1968357	.1869105	.9836141	.3869988	.1893395

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2977432	2.829464	.1981162	1.966805	.4739097	.0720060
Stddev	.0010664	.035957	.0015620	.045871	.0008150	.0006157
%RSD	.3581598	1.270805	.7884030	2.332271	.1719791	.8550905
#1	.2989735	2.799164	.1969614	1.940530	.4745664	.0719537
#2	.2971742	2.820030	.1998934	2.019772	.4729976	.0714180
#3	.2970820	2.869197	.1974939	1.940114	.4741653	.0726462

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.683348	.2902145	.1965178	9.162702	.2824699	.4014293
Stddev	.027042	.0026477	.0008033	.094733	.0026059	.0011318
%RSD	1.007756	.9123088	.4087391	1.033893	.9225453	.2819492
#1	2.658067	.2877411	.1972841	9.143691	.2837563	.4012778
#2	2.680118	.2930074	.1965872	9.078916	.2841823	.4003807
#3	2.711860	.2898949	.1956821	9.265498	.2794709	.4026291

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169912BS Acquired: 10/1/2025 15:30:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6820059	.1973635	.8513297	5.464778	F -.000351	.1956556
Stddev	.0025589	.0016570	.0115632	.045002	.002714	.0031746
%RSD	.3752069	.8395819	1.358254	.8234898	773.1891	1.622552
#1	.6808580	.1980485	.8591346	5.453266	-.000457	.1982710
#2	.6802220	.1954738	.8380453	5.426650	.002415	.1921235
#3	.6849378	.1985682	.8568092	5.514418	-.003011	.1965722

Elem	Sr4077
Units	ppm
Avg	.1900742
Stddev	.0004124
%RSD	.2169438
#1	.1904493
#2	.1896327
#3	.1901406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6741.186	96471.97	7765.465	5200.212	8188.108
Stddev	4.095	635.39	56.656	32.355	6.455
%RSD	.0607489	.6586244	.7295938	.6221922	.0788351
#1	6737.847	97108.45	7747.402	5225.182	8188.271
#2	6745.755	96469.79	7720.042	5211.794	8194.481
#3	6739.955	95837.68	7828.950	5163.659	8181.574

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-01 Acquired: 10/1/2025 15:34:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.002857**	**-.001873**	**.0034705**	**.0013200**	**.0012381**	**.1821788**
Stddev	.000744	.001497	.0005970	.0018264	.0011068	.0123215
%RSD	26.02697	79.89325	17.20244	138.3597	89.39681	6.763426
#1	-.003628	-.000301	.0041478	.0021127	.0018176	.1962336
#2	-.002799	-.002037	.0032434	.0026162	-.000038	.1770664
#3	-.002144	-.003281	.0030204	-.000769	.001935	.1732365

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1426573**	**.0000999**	**.0000240**	**56.74739**	**.0078873**	**.0004397**
Stddev	.0023799	.0001107	.0000679	.32078	.0002752	.0001846
%RSD	1.668238	110.7787	282.5417	.5652858	3.489542	41.98023
#1	.1453604	-.000006	-.000013	57.10764	.0075759	.0006198
#2	.1417345	.000091	.000102	56.64189	.0080977	.0002509
#3	.1408771	.000215	-.000017	56.49265	.0079884	.0004484

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0628078**	**15.97543**	**.0581360**	**21.46384**	**.0100664**	**-.000328**
Stddev	.0002946	.00888	.0004603	.12261	.0002870	.000051
%RSD	.4691297	.0555554	.7916878	.5712233	2.851204	15.58482
#1	.0628856	15.97033	.0586604	21.60541	.0097359	-.000355
#2	.0624821	15.97028	.0579482	21.39308	.0102104	-.000269
#3	.0630558	15.98568	.0577993	21.39302	.0102530	-.000360

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.97885**	**.0033126**	**2.521328**	**1.950962**	**.1186321**	**-.000042**
Stddev	.04047	.0024593	.001795	.029772	.0010260	.000186
%RSD	.2532469	74.23878	.0711909	1.525991	.8648688	447.0911
#1	16.02523	.0059980	2.523073	1.984300	.1180163	.000124
#2	15.96057	.0011702	2.519487	1.941557	.1180635	-.000242
#3	15.95075	.0027697	2.521425	1.927028	.1198165	-.000006

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-01 Acquired: 10/1/2025 15:34:00 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.028135	.0030451	7.070517	.0173455	F 15.12139	-.017851
Stddev	.000434	.0023708	.057035	.0002926	.10751	.003384
%RSD	1.541215	77.85877	.8066558	1.687007	.7109759	18.95887
#1	-.028304	.0051497	7.073105	.0170853	15.24553	-.021723
#2	-.027642	.0004766	7.126213	.0172890	15.05932	-.016377
#3	-.028459	.0035089	7.012232	.0176623	15.05931	-.015454

Elem	Sr4077
Units	ppm
Avg	.5312438
Stddev	.0037947
%RSD	.7143062
#1	.5354471
#2	.5280703
#3	.5302138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6742.294	97443.28	7894.806	5241.598	8149.151
Stddev	5.935	452.60	17.452	3.161	3.602
%RSD	.0880215	.4644710	.2210522	.0603128	.0441959
#1	6749.146	97940.74	7912.737	5245.247	8145.437
#2	6738.781	97055.83	7893.803	5239.863	8149.388
#3	6738.955	97333.28	7877.877	5239.684	8152.628

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-02 Acquired: 10/1/2025 15:38:10 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.002091**	**-.000709**	**-.000306**	**.0021846**	**.0011622**	**.0407602**
Stddev	.002441	.001669	.000952	.0020151	.0007009	.0178717
%RSD	116.6996	235.4445	311.4208	92.23918	60.31406	43.84595
#1	-.002360	-.002486	.000163	.0042567	.0008206	.0216645
#2	-.004387	-.000464	.000322	.0020655	.0006975	.0570839
#3	.000472	.000824	-.001401	.0002318	.0019684	.0435321

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1513478**	**-.000168**	**.0000034**	**61.74821**	**.0007922**	**.0000918**
Stddev	.0007603	.000030	.0001024	.22524	.0002271	.0000166
%RSD	.5023802	17.69045	3057.266	.3647643	28.66168	18.08317
#1	.1519493	-.000151	.0001214	61.68303	.0006450	.0000729
#2	.1504932	-.000151	-.000050	61.56276	.0006780	.0001043
#3	.1516010	-.000203	-.000061	61.99885	.0010537	.0000981

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039037**	**.1931731**	**.0267982**	**23.51814**	**.0089840**	**-.000559**
Stddev	.0002722	.0096872	.0005654	.13283	.0001727	.000848
%RSD	6.972730	5.014771	2.109642	.5647919	1.922487	151.6740
#1	.0042018	.1862143	.0262162	23.38163	.0088180	.000194
#2	.0038408	.1890681	.0268333	23.52585	.0089713	-.000393
#3	.0036684	.2042369	.0273452	23.64695	.0091627	-.001477

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.53147**	**-.000785**	**1.773889**	**2.157185**	**.1309871**	**.0001629**
Stddev	.20197	.001760	.005144	.026987	.0013144	.0000680
%RSD	1.034084	224.3078	.2899950	1.251016	1.003454	41.73561
#1	19.59647	-.002811	1.769869	2.185355	.1307687	.0002170
#2	19.69293	.000097	1.772112	2.154636	.1297956	.0001851
#3	19.30499	.000360	1.779686	2.131562	.1323970	.0000866

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-02 Acquired: 10/1/2025 15:38:10 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.027118	-.001763	7.123252	.0079076	F 16.27906	-.017909
Stddev	.000711	.001487	.048050	.0006935	.00052	.002893
%RSD	2.620198	84.39462	.6745484	8.769796	.0031781	16.15452
#1	-.027897	-.000805	7.133233	.0084609	16.27946	-.021245
#2	-.026953	-.003476	7.165528	.0081322	16.27925	-.016085
#3	-.026505	-.001007	7.070996	.0071296	16.27847	-.016397

Elem	Sr4077
Units	ppm
Avg	.5986044
Stddev	.0006875
%RSD	.1148552
#1	.5978900
#2	.5992614
#3	.5986619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6678.235	94969.53	7801.425	5176.153	8057.704
Stddev	4.861	319.94	71.241	34.995	5.922
%RSD	.0727905	.3368843	.9131755	.6760776	.0734960
#1	6679.398	95128.79	7854.579	5215.436	8054.808
#2	6682.409	94601.22	7829.219	5148.311	8064.516
#3	6672.898	95178.58	7720.477	5164.712	8053.786

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-03 Acquired: 10/1/2025 15:42:22 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.000356**	**-.000627**	**.0002304**	**.0028065**	**.0002016**	**.7168083**
Stddev	.001692	.002660	.0007127	.0011664	.0012658	.0138895
%RSD	474.9705	424.2733	309.3712	41.56032	627.8839	1.937681
#1	.000226	-.002643	.0007918	.0027165	-.000489	.7019497
#2	-.002262	.002388	.0004707	.0040152	-.000569	.7190095
#3	.000967	-.001626	-.000571	.0016877	.001662	.7294657

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1433364**	**.0083124**	**.0000497**	**56.31227**	**.0025220**	**.0107127**
Stddev	.0004358	.0000602	.0000456	.06673	.0003005	.0002349
%RSD	.3040347	.7243382	91.89187	.1184911	11.91570	2.193033
#1	.1428347	.0083704	.0000951	56.34271	.0021834	.0105746
#2	.1436210	.0082501	.0000038	56.23575	.0026258	.0109840
#3	.1435534	.0083166	.0000501	56.35834	.0027569	.0105795

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010547**	**.2229378**	**.0447419**	**11.78511**	**.0534312**	**-.001219**
Stddev	.0008285	.0068373	.0001011	.07558	.0001815	.000363
%RSD	78.55895	3.066929	.2258453	.6413293	.3396168	29.79031
#1	.0001134	.2290363	.0446631	11.69817	.0532316	-.001028
#2	.0016735	.2155463	.0448558	11.82198	.0535863	-.001638
#3	.0013771	.2242310	.0447068	11.83518	.0534757	-.000991

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**305.8450**	**.0017079**	**.0749981**	**6.349784**	**.0384304**	**.0007259**
Stddev	5.1015	.0013330	.0003852	.022833	.0005062	.0001693
%RSD	1.668013	78.04575	.5136272	.3595915	1.317177	23.32120
#1	310.0909	.0001744	.0748275	6.325382	.0389384	.0006058
#2	307.2582	.0025891	.0747278	6.353338	.0379260	.0006524
#3	300.1858	.0023603	.0754392	6.370631	.0384267	.0009195

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-03 Acquired: 10/1/2025 15:42:22 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.028273	-.001356	4.298990	.0065792	F 14.80310	-.015383
Stddev	.000264	.000915	.009378	.0014741	.09398	.001230
%RSD	.9334677	67.44555	.2181358	22.40579	.6348738	7.994038
#1	-.027974	-.000735	4.297791	.0070402	14.76564	-.014285
#2	-.028475	-.002406	4.290269	.0049297	14.73362	-.015153
#3	-.028368	-.000927	4.308909	.0077677	14.91003	-.016712

Elem	Sr4077
Units	ppm
Avg	.2915800
Stddev	.0016945
%RSD	.5811440
#1	.2934906
#2	.2902591
#3	.2909903

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6841.449	97153.85	7962.765	5315.890	7348.995
Stddev	6.273	89.95	22.825	11.075	3.887
%RSD	.0916849	.0925894	.2866445	.2083365	.0528947
#1	6840.541	97253.54	7947.258	5309.743	7350.359
#2	6835.680	97129.28	7952.063	5328.675	7352.017
#3	6848.127	97078.73	7988.975	5309.252	7344.610

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-04 Acquired: 10/1/2025 15:46:43 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.000365**	**-.001454**	**.0005746**	**.0034636**	**-.001296**	**.5513704**
Stddev	.001864	.001588	.0015894	.0039322	.000919	.0054650
%RSD	510.1488	109.1864	276.6213	113.5292	70.86161	.9911743
#1	-.000348	-.000138	.0006551	-.000934	-.002208	.5573428
#2	.001490	-.001008	-.001054	.006641	-.001309	.5501489
#3	-.002238	-.003217	.002122	.004684	-.000372	.5466194

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1328658**	**.0082066**	**.0001980**	**52.68936**	**.0013256**	**.0105465**
Stddev	.0009733	.0000692	.0000930	.08489	.0002004	.0000943
%RSD	.7325736	.8436368	46.97335	.1611115	15.11728	.8944977
#1	.1320658	.0082865	.0001831	52.69983	.0012808	.0105190
#2	.1325822	.0081679	.0002976	52.59972	.0011514	.0104690
#3	.1339495	.0081654	.0001134	52.76852	.0015446	.0106515

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029282**	**.0190133**	**.0443076**	**11.28370**	**.0527931**	**-.001175**
Stddev	.0002732	.0055534	.0004750	.04726	.0003854	.000244
%RSD	9.329848	29.20828	1.072031	.4188010	.7300119	20.78569
#1	.0031776	.0252862	.0447483	11.23175	.0524451	-.001444
#2	.0029708	.0147239	.0438045	11.32413	.0527268	-.001112
#3	.0026362	.0170298	.0443700	11.29524	.0532073	-.000968

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**277.6278**	**.0026136**	**.0974166**	**5.880283**	**.0315517**	**.0006690**
Stddev	2.8800	.0007462	.0001964	.101322	.0009982	.0000942
%RSD	1.037366	28.54986	.2016207	1.723080	3.163778	14.07982
#1	280.2550	.0020005	.0975312	5.765784	.0327032	.0007399
#2	278.0797	.0034444	.0971898	5.958354	.0310208	.0007050
#3	274.5485	.0023957	.0975288	5.916712	.0309311	.0005621

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-04 Acquired: 10/1/2025 15:46:43 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.024611	.0003116	3.889313	.0147360	F 14.24787	-.014915
Stddev	.000459	.0009408	.057244	.0020366	.05297	.000912
%RSD	1.864758	301.8950	1.471837	13.82033	.3717629	6.112615
#1	-.024872	.0013901	3.823327	.0144474	14.18721	-.014175
#2	-.024880	-.000115	3.925679	.0169015	14.27143	-.015934
#3	-.024081	-.000340	3.918931	.0128591	14.28496	-.014636

Elem	Sr4077
Units	ppm
Avg	.2755342
Stddev	.0005217
%RSD	.1893289
#1	.2755681
#2	.2749964
#3	.2760381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6801.265	98043.96	8132.511	5273.043	7302.340
Stddev	16.432	454.62	53.568	18.784	14.113
%RSD	.2415986	.4636948	.6586853	.3562254	.1932634
#1	6783.473	98564.57	8077.296	5294.730	7288.449
#2	6815.870	97725.26	8135.974	5261.889	7316.665
#3	6804.452	97842.06	8184.264	5262.511	7301.905

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV04 Acquired: 10/1/2025 15:51:04 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**5.037522**	**4.964833**	**4.995725**	**5.053888**	**5.028205**	**10.07786**	**10.04875**
Stddev	.013831	.191934	.005034	.006591	.005272	.01007	.07648
%RSD	.2745531	3.865879	.1007673	.1304223	.1048436	.0999061	.7610920
#1	5.036658	4.753100	4.994172	5.046968	5.031395	10.06690	10.04464
#2	5.051764	5.127407	4.991650	5.060092	5.031100	10.08670	10.12721
#3	5.024143	5.013993	5.001352	5.054604	5.022120	10.07997	9.97441

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2571040**	**2.519385**	**25.19778**	**1.018316**	**2.506259**	**1.265842**	**4.963986**
Stddev	.0024565	.003092	.04348	.003229	.000250	.000192	.044020
%RSD	.9554388	.1227428	.1725393	.3171141	.0099936	.0151715	.8867863
#1	.2582163	2.518004	25.24727	1.015426	2.506059	1.265815	4.932542
#2	.2588076	2.517224	25.18032	1.021802	2.506540	1.265665	4.945123
#3	.2542881	2.522927	25.16575	1.017722	2.506178	1.266046	5.014295

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.523767**	**25.16419**	**2.508803**	**1.259784**	**24.88756**	**2.510189**	**2.536611**
Stddev	.012749	.04303	.000668	.002044	.17078	.004933	.004626
%RSD	.5051558	.1710018	.0266350	.1622794	.6862198	.1965147	.1823683
#1	2.538280	25.14307	2.509252	1.257424	25.05037	2.508894	2.531492
#2	2.518651	25.21370	2.508035	1.260959	24.70979	2.515640	2.540492
#3	2.514371	25.13580	2.509122	1.260970	24.90253	2.506033	2.537849

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14716**	**5.122249**	**5.073142**	**5.023803**	**5.019619**	**4.870307**	**5.018418**
Stddev	.17200	.046474	.004438	.004045	.013279	.028570	.033526
%RSD	.6839650	.9073046	.0874800	.0805170	.2645340	.5866113	.6680554
#1	25.04448	5.145785	5.071733	5.022561	5.033149	4.842251	4.995954
#2	25.05128	5.152248	5.078114	5.028324	5.019100	4.869304	5.056954
#3	25.34573	5.068715	5.069580	5.020525	5.006607	4.899364	5.002346

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV04 Acquired: 10/1/2025 15:51:04 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**4.977207**	**4.992662**	**5.034771**
Stddev	.031775	.020260	.076482
%RSD	.6384140	.4057868	1.519075
#1	4.952457	5.014592	5.036680
#2	5.013039	4.988748	5.110280
#3	4.966124	4.974644	4.957352

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6528.862**	**93151.36**	**7635.648**	**5023.090**	**7577.489**
Stddev	3.325	333.74	51.889	19.689	6.395
%RSD	.0509210	.3582730	.6795619	.3919742	.0843956
#1	6532.630	93532.27	7619.472	5040.948	7583.304
#2	6526.340	92910.32	7593.774	5026.345	7578.522
#3	6527.617	93011.48	7693.698	5001.976	7570.640

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB04 Acquired: 10/1/2025 15:55:08 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001174**	**.0007862**	**.0005435**	**.0040224**	**-.000486**	**.0029003**
Stddev	.001922	.0017229	.0011035	.0020848	.000720	.0038213
%RSD	163.7386	219.1517	203.0514	51.82880	148.0077	131.7528
#1	.000337	.0004791	.0008678	.0056832	.000340	.0070350
#2	-.003336	.0026419	.0014484	.0047012	-.000975	.0021672
#3	-.000521	-.000763	-.000686	.0016829	-.000825	-.000501

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032151**	**-.000095**	**.0000070**	**.0022669**	**.0004055**	**.0000969**
Stddev	.0019756	.000021	.0000630	.0087383	.0003138	.0000810
%RSD	61.44918	22.47108	903.6184	385.4784	77.36948	83.58361
#1	.0043557	-.000071	.0000202	.0021773	.0001094	.0000847
#2	.0009338	-.000102	.0000623	.0110496	.0007344	.0000227
#3	.0043557	-.000112	-.000062	-.006426	.0003728	.0001834

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000132**	**.0067367**	**.0010940**	**.0349628**	**-.000222**	**-.000287**
Stddev	.000249	.0028064	.0004511	.0417587	.000146	.000336
%RSD	188.8770	41.65809	41.23913	119.4376	66.02455	117.3506
#1	.000115	.0099270	.0015565	.0722327	-.000255	-.000675
#2	-.000382	.0056333	.0006551	.0428234	-.000349	-.000112
#3	-.000127	.0046497	.0010703	-.010168	-.000062	-.000074

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.223601**	**.0021222**	**-.000211**	**-.286300**	**-.008997**	**.0005251**
Stddev	.022464	.0028540	.000103	.043414	.000195	.0002208
%RSD	10.04635	134.4834	48.67602	15.16385	2.167198	42.05503
#1	-.197666	.0020476	-.000203	-.289203	-.009175	.0004994
#2	-.236193	.0050127	-.000317	-.328190	-.009028	.0007576
#3	-.236944	-.000694	-.000112	-.241508	-.008789	.0003182

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB04 Acquired: 10/1/2025 15:55:08 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.028728	.0016041	.0099278	.0015658	-.000909	-.008514
Stddev	.000418	.0017116	.0132065	.0010346	.001766	.001167
%RSD	1.455070	106.6994	133.0258	66.07169	194.2400	13.70216
#1	-.028822	.0002128	-.004751	.0005756	-.001623	-.007226
#2	-.029091	.0035154	.013688	.0014822	-.002207	-.009499
#3	-.028271	.0010842	.020846	.0026396	.001102	-.008817

Elem	Sr4077
Units	ppm
Avg	.0000488
Stddev	.0000130
%RSD	26.55397
#1	.0000628
#2	.0000464
#3	.0000372

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6759.683	99919.06	7777.565	5316.276	8319.913
Stddev	13.084	578.99	23.231	28.207	7.344
%RSD	.1935663	.5794581	.2986980	.5305746	.0882710
#1	6774.327	99261.09	7796.971	5284.395	8328.349
#2	6749.142	100145.4	7783.900	5326.446	8314.950
#3	6755.580	100350.7	7751.822	5337.988	8316.440

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-05 Acquired: 10/1/2025 15:59:27 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000845	.0012822	.0047393	.0038611	-.000784	1.236907	.1106007
Stddev	.0011089	.0019249	.0007303	.0021307	.001298	.012492	.0011467
%RSD	1312.753	150.1249	15.41023	55.18369	165.4514	1.009910	1.036776
#1	.0013516	.0009944	.0052598	.0062700	.000606	1.248838	.1119179
#2	-.000390	-.000483	.0039044	.0022229	-.000995	1.223922	.1100595
#3	-.000709	.003335	.0050537	.0030906	-.001964	1.237962	.1098249

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007210	-.000093	41.55721	.0064685	.0020218	.0078422	10.97333
Stddev	.0000262	.000034	.10032	.0002178	.0004355	.0003426	.06447
%RSD	3.627866	36.23108	.2414002	3.366447	21.54212	4.369203	.5874954
#1	.0006957	-.000064	41.54134	.0066560	.0018290	.0081172	10.92784
#2	.0007480	-.000084	41.46576	.0062297	.0017159	.0079510	11.04711
#3	.0007192	-.000130	41.66451	.0065198	.0025204	.0074584	10.94506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8226034	7.826736	.0057302	-.000547	255.3485	.0019966	.0127635
Stddev	.0038905	.028220	.0002698	.000744	1.0755	.0016429	.0000968
%RSD	.4729433	.3605576	4.708594	136.0896	.4212082	82.28251	.7581123
#1	.8210247	7.794886	.0055727	-.001371	254.1385	.0034359	.0128750
#2	.8197504	7.848623	.0055762	-.000347	255.7108	.0023471	.0127132
#3	.8270350	7.836699	.0060418	.000077	256.1960	.0002068	.0127022

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.688843	.0767277	.0016223	-.021583	.0454044	7.983782	.1715948
Stddev	.054913	.0004048	.0002311	.000399	.0019325	.029377	.0011076
%RSD	.8209632	.5275975	14.24684	1.847878	4.256115	.3679588	.6454909
#1	6.627410	.0762671	.0014512	-.021191	.0468800	8.004790	.1712959
#2	6.733158	.0768890	.0018853	-.021988	.0461162	7.996343	.1706673
#3	6.705961	.0770270	.0015305	-.021570	.0432170	7.950213	.1728212

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-05 Acquired: 10/1/2025 15:59:27 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.920816	-.014403	.2179654
Stddev	.031068	.000841	.0006688
%RSD	.3922352	5.838020	.3068370
#1	7.888408	-.013690	.2181530
#2	7.950343	-.015330	.2172228
#3	7.923699	-.014190	.2185204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6500.820	93649.14	7607.546	5079.711	7350.992
Stddev	8.694	207.31	34.917	6.234	6.488
%RSD	.1337394	.2213697	.4589788	.1227177	.0882614
#1	6502.155	93873.46	7618.550	5077.697	7348.900
#2	6491.535	93609.34	7635.635	5086.703	7345.808
#3	6508.768	93464.61	7568.452	5074.734	7358.268

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-06 Acquired: 10/1/2025 16:03:49 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002059**	**.0013360**	**-.001683**	**.0050462**	**-.000497**	**.0165136**	**.0935087**
Stddev	.000866	.0010474	.001246	.0003291	.000401	.0163864	.0022570
%RSD	42.04368	78.39348	74.04362	6.522089	80.60129	99.22967	2.413696
#1	-.003042	.0016497	-.002467	.0053967	-.000915	.0346564	.0940486
#2	-.001411	.0021907	-.000246	.0047438	-.000460	.0120943	.0954468
#3	-.001723	.0001677	-.002336	.0049981	-.000116	.0027901	.0910307

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000098**	**.0000408**	**39.08058**	**.0008512**	**.0000398**	**.0052501**	**.0083844**
Stddev	.0001020	.0000103	.11614	.0004033	.0001202	.0001440	.0094946
%RSD	1041.002	25.18517	.2971906	47.37382	301.8163	2.743507	113.2410
#1	.0001105	.0000290	39.21468	.0004342	.0000970	.0053631	.0078824
#2	-.000093	.0000457	39.01188	.0008803	-.000098	.0050879	.0181201
#3	.000012	.0000478	39.01518	.0012392	.000121	.0052992	-.000849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1547540**	**8.217994**	**.0014852**	**-.000834**	**269.0106**	**.0039736**	**.0122838**
Stddev	.0008031	.049570	.0003625	.000092	2.6730	.0020033	.0001327
%RSD	.5189868	.6031855	24.40522	11.08499	.9936500	50.41583	1.079842
#1	.1539943	8.270683	.0019021	-.000938	271.4822	.0033914	.0124282
#2	.1546732	8.172283	.0012439	-.000760	266.1737	.0023258	.0122558
#3	.1555945	8.211016	.0013098	-.000805	269.3758	.0062034	.0121674

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.777711**	**.0837652**	**.0008251**	**-.026994**	**.0012484**	**6.618483**	**.0187260**
Stddev	.066559	.0008699	.0001322	.000661	.0007393	.064925	.0014655
%RSD	.8557696	1.038554	16.02655	2.448982	59.22409	.9809687	7.825763
#1	7.802909	.0847616	.0007924	-.026931	.0017508	6.685093	.0182811
#2	7.702232	.0833770	.0007122	-.027685	.0015949	6.614970	.0175347
#3	7.827992	.0831569	.0009706	-.026367	.0003994	6.555385	.0203624

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-06 Acquired: 10/1/2025 16:03:49 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.986383	-.016987	.2402654
Stddev	.015835	.002504	.0019589
%RSD	.2266570	14.74085	.8153100
#1	6.993422	-.015019	.2422086
#2	6.968248	-.016137	.2382911
#3	6.997477	-.019805	.2402964

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6504.175	91462.67	7657.439	5033.682	7495.400
Stddev	15.428	385.88	12.102	30.515	17.653
%RSD	.2372053	.4218949	.1580375	.6062104	.2355167
#1	6490.810	91033.89	7646.821	4998.786	7480.448
#2	6521.059	91572.13	7670.615	5055.359	7514.874
#3	6500.656	91781.99	7654.882	5046.899	7490.877

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-07 Acquired: 10/1/2025 16:08:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010495	.0008012	.0040246	.0032679	-.001204	1.164562	.1141386
Stddev	.0021829	.0027246	.0007470	.0012972	.001813	.006529	.0016462
%RSD	208.0022	340.0546	18.56125	39.69445	150.5884	.5606062	1.442318
#1	.0002188	.0011219	.0032599	.0041163	-.003149	1.168485	.1132444
#2	.0035258	-.002070	.0040615	.0039128	-.000904	1.168175	.1131329
#3	-.000596	.003351	.0047526	.0017747	.000440	1.157026	.1160384

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007376	-.000100	42.18890	.0063368	.0018323	.0069546	10.58702
Stddev	.0000720	.000016	.19844	.0003615	.0002279	.0003378	.04971
%RSD	9.764814	15.79037	.4703657	5.704374	12.43833	4.857249	.4695600
#1	.0006682	-.000087	42.20660	.0067540	.0020297	.0066167	10.58228
#2	.0007325	-.000118	41.98221	.0061398	.0015829	.0069549	10.53984
#3	.0008120	-.000095	42.37790	.0061166	.0018842	.0072923	10.63893

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7627658	8.350803	.0058367	-.000936	271.4254	.0027158	.0117528
Stddev	.0064214	.012899	.0000236	.000169	2.6669	.0027371	.0000804
%RSD	.8418560	.1544636	.4043669	18.04120	.9825551	100.7834	.6840856
#1	.7644111	8.353767	.0058097	-.000986	273.7230	.0024796	.0117269
#2	.7556818	8.336680	.0058534	-.001075	268.5009	.0001045	.0118430
#3	.7682044	8.361963	.0058472	-.000748	272.0523	.0055634	.0116885

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.704385	.0848794	.0015636	-.027391	.0439372	8.449314	.1549519
Stddev	.055620	.0014332	.0001501	.000196	.0009386	.032806	.0008037
%RSD	.7219226	1.688465	9.602414	.7139918	2.136323	.3882692	.5186972
#1	7.660856	.0849231	.0014385	-.027406	.0428745	8.428184	.1547547
#2	7.685253	.0834250	.0017301	-.027188	.0446531	8.432651	.1558359
#3	7.767045	.0862903	.0015222	-.027578	.0442839	8.487107	.1542651

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-07 Acquired: 10/1/2025 16:08:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	7.684267	-.012148	.2340306
Stddev	.036693	.002863	.0017898
%RSD	.4775110	23.56761	.7647797
#1	7.666481	-.010953	.2341971
#2	7.659856	-.015415	.2321634
#3	7.726464	-.010075	.2357314

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6481.975	91283.42	7664.284	4999.410	7366.907
Stddev	13.379	239.24	33.325	39.075	10.601
%RSD	.2064073	.2620866	.4348139	.7815838	.1438984
#1	6469.037	91522.73	7666.083	4972.580	7360.789
#2	6481.133	91283.29	7696.673	5044.240	7360.783
#3	6495.756	91044.25	7630.095	4981.409	7379.148

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-08 Acquired: 10/1/2025 16:12:36 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001810**	**-.000821**	**.0004368**	**.0024867**	**-.000436**	**.0243919**	**.0918598**
Stddev	.001133	.001288	.0014750	.0015442	.000387	.0112559	.0014178
%RSD	62.56810	156.8711	337.7182	62.09748	88.82753	46.14607	1.543468
#1	-.002818	-.001415	.0021363	.0007039	.000002	.0122345	.0904354
#2	-.000584	.000657	-.000316	.0034062	-.000734	.0264903	.0918730
#3	-.002029	-.001706	-.000510	.0033501	-.000575	.0344510	.0932710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000030**	**.0000137**	**39.42073**	**.0009970**	**.0000361**	**.0061213**	**.0227425**
Stddev	.000058	.0000373	.21109	.0001210	.0001479	.0004623	.0085113
%RSD	193.0544	273.4024	.5354755	12.13265	409.4873	7.551966	37.42460
#1	-.000089	.0000538	39.20225	.0008700	-.000015	.0061035	.0217008
#2	.000027	-.000020	39.62356	.0011108	-.000080	.0065922	.0317267
#3	-.000028	.000007	39.43638	.0010101	.000203	.0056682	.0148000

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1501655**	**8.266858**	**.0016274**	**-.000923**	**267.9466**	**.0010078**	**.0091807**
Stddev	.0018953	.014176	.0006685	.000258	5.8059	.0010641	.0000180
%RSD	1.262121	.1714818	41.07874	27.95318	2.166827	105.5879	.1965409
#1	.1510644	8.250855	.0008693	-.000696	274.2558	.0020002	.0091895
#2	.1514440	8.277843	.0018808	-.000870	262.8287	-.000116	.0091927
#3	.1479880	8.271874	.0021323	-.001203	266.7553	.001139	.0091600

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.748320**	**.0819426**	**.0010014**	**-.026562**	**.0018920**	**6.666213**	**.0231933**
Stddev	.052238	.0014917	.0000371	.000287	.0006112	.072091	.0004519
%RSD	.6741888	1.820421	3.702441	1.079344	32.30206	1.081442	1.948462
#1	7.787634	.0809145	.0010160	-.026232	.0012067	6.706527	.0226718
#2	7.689044	.0836535	.0010290	-.026713	.0023804	6.582983	.0234708
#3	7.768282	.0812598	.0009593	-.026742	.0020890	6.709130	.0234372

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-08 Acquired: 10/1/2025 16:12:36 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**7.346291**	**-.015500**	**.2420844**
Stddev	.008968	.002511	.0011023
%RSD	.1220711	16.20009	.4553280
#1	7.351091	-.013575	.2416097
#2	7.351837	-.014584	.2433445
#3	7.335945	-.018340	.2412990

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6430.812**	**91068.10**	**7610.705**	**4983.896**	**7389.935**
Stddev	13.855	290.81	63.906	7.006	16.004
%RSD	.2154398	.3193372	.8396857	.1405652	.2165581
#1	6443.852	90804.12	7667.367	4975.843	7407.496
#2	6432.317	91379.84	7541.435	4988.593	7386.138
#3	6416.266	91020.33	7623.313	4987.250	7376.172

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-09 Acquired: 10/1/2025 16:17:00 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000998**	**-.001257**	**.0024724**	**.0010283**	**.0011261**	**.0077439**	**.0027809**
Stddev	.000429	.001362	.0009659	.0017219	.0031497	.0089275	.0012498
%RSD	43.01053	108.3863	39.06830	167.4480	279.6879	115.2848	44.94154
#1	-.000515	.000063	.0028601	.0015295	.0000483	.0030867	.0036164
#2	-.001141	-.001176	.0031842	-.000889	.0046732	.0180369	.0013441
#3	-.001337	-.002658	.0013729	.002444	-.001343	.0021079	.0033821

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000090**	**-.000049**	**3.128562**	**.0018614**	**.0007425**	**.0000409**	**.7865452**
Stddev	.000047	.000054	.033607	.0003317	.0001668	.0002793	.0147396
%RSD	51.74866	111.6205	1.074214	17.82077	22.46368	682.3179	1.873966
#1	-.000036	.000008	3.102576	.0021990	.0005874	-.000247	.7713488
#2	-.000115	-.000101	3.166515	.0015359	.0009189	.000059	.7875058
#3	-.000119	-.000053	3.116596	.0018494	.0007213	.000311	.8007810

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0322046**	**1.382563**	**.0490770**	**-.000919**	**7.582150**	**.0051914**	**.0010777**
Stddev	.0002147	.018629	.0002392	.000342	.035288	.0005912	.0001630
%RSD	.6666296	1.347423	.4873066	37.24521	.4654112	11.38893	15.12677
#1	.0324295	1.369394	.0490678	-.000831	7.570805	.0045155	.0010667
#2	.0321826	1.374417	.0493206	-.001297	7.553930	.0056127	.0012459
#3	.0320018	1.403877	.0488426	-.000630	7.621715	.0054458	.0009204

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6645710**	**-.004491**	**.0005763**	**-.027129**	**.0010133**	**8.048022**	**.0437549**
Stddev	.0856851	.001259	.0002633	.000642	.0009250	.028911	.0001899
%RSD	12.89329	28.03829	45.68463	2.366008	91.28092	.3592373	.4339042
#1	.6361835	-.003894	.0003880	-.027500	.0017323	8.030551	.0435387
#2	.5966822	-.003642	.0004637	-.027499	.0013379	8.032121	.0438944
#3	.7608473	-.005938	.0008771	-.026388	-.000030	8.081394	.0438317

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-09 Acquired: 10/1/2025 16:17:00 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2696310	-.008340	.0116331
Stddev	.0024947	.002284	.0001313
%RSD	.9252177	27.38456	1.128723
#1	.2709393	-.007777	.0114932
#2	.2711995	-.010853	.0117537
#3	.2667543	-.006391	.0116525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6880.258	98110.27	8017.770	5236.272	8488.319
Stddev	20.456	234.79	51.443	3.071	17.616
%RSD	.2973085	.2393074	.6416069	.0586419	.2075289
#1	6867.146	97885.37	7976.455	5235.159	8469.832
#2	6869.800	98353.83	8001.466	5233.914	8490.215
#3	6903.828	98091.62	8075.389	5239.745	8504.910

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-10 Acquired: 10/1/2025 16:21:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000077**	**-.000024**	**.0155118**	**.0028625**	**.0005172**	**3.574372**	**.0038757**
Stddev	.001391	.001532	.0003562	.0038145	.0021255	.019259	.0017077
%RSD	1802.907	6290.522	2.296521	133.2577	410.9694	.5387971	44.06211
#1	.001245	-.000495	.0152304	.0021253	.0008808	3.592669	.0054139
#2	.000051	.001688	.0153925	-.000530	.0024374	3.554278	.0041752
#3	-.001528	-.001266	.0159123	.006992	-.001767	3.576171	.0020381

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000079**	**.0190524**	**3.604330**	**.0010248**	**.0011141**	**.1363173**	**1.270626**
Stddev	.000030	.0000431	.009621	.0002046	.0000372	.0003099	.009385
%RSD	37.77222	.2263233	.2669177	19.96375	3.342112	.2273386	.7385875
#1	-.000114	.0190960	3.611120	.0011423	.0010834	.1359680	1.265297
#2	-.000062	.0190516	3.608548	.0007886	.0011035	.1364248	1.265119
#3	-.000062	.0190097	3.593320	.0011435	.0011556	.1365591	1.281462

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0386390**	**1.511099**	**.0466922**	**-.000695**	**8.613434**	**.0010907**	**.1428801**
Stddev	.0004336	.039726	.0000777	.000346	.073903	.0015940	.0005117
%RSD	1.122287	2.628918	.1662925	49.76705	.8580021	146.1359	.3580961
#1	.0382045	1.556957	.0467516	-.001065	8.598521	.0001238	.1429759
#2	.0390718	1.487222	.0467208	-.000642	8.548124	.0002179	.1423272
#3	.0386409	1.489118	.0466044	-.000379	8.693656	.0029305	.1433370

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6865297**	**-.004036**	**.0005652**	**-.027452**	**.0007007**	**8.185564**	**.0298007**
Stddev	.0284935	.000279	.0001679	.000534	.0007132	.046755	.0012896
%RSD	4.150374	6.903293	29.70758	1.944606	101.7854	.5711882	4.327363
#1	.6774286	-.004339	.0004297	-.027758	.0010036	8.159828	.0312555
#2	.6636985	-.003791	.0007531	-.026836	.0012124	8.157333	.0293485
#3	.7184620	-.003979	.0005129	-.027763	-.000114	8.239533	.0287982

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-10 Acquired: 10/1/2025 16:21:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6326689	-.010457	.0142221
Stddev	.0034456	.000920	.0000881
%RSD	.5446130	8.800340	.6193280
#1	.6347439	-.010202	.0142721
#2	.6345713	-.011479	.0141204
#3	.6286915	-.009692	.0142737

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6938.294	97899.22	8062.821	5276.349	8582.252
Stddev	6.021	350.96	52.851	22.445	22.492
%RSD	.0867836	.3584908	.6554883	.4253971	.2620768
#1	6931.707	97750.61	8003.472	5265.002	8556.280
#2	6939.659	98300.03	8104.803	5302.203	8595.105
#3	6943.515	97647.01	8080.189	5261.843	8595.369

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-17 Acquired: 10/1/2025 16:25:25 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.1557916	-.043837	.5849380	-.000689	-.048438	182.5607
Stddev	.0015512	.002064	.0007529	.000745	.000633	.7127
%RSD	.9957134	4.708204	.1287105	108.0412	1.307399	.3903934
#1	.1568356	-.041737	.5857958	-.001057	-.048529	181.7726
#2	.1565302	-.045863	.5843867	-.001178	-.049021	182.7497
#3	.1540091	-.043911	.5846315	.000168	-.047764	183.1599

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.214067	.0216525	.0213882	58.06201	.3590133	.2354195
Stddev	.006276	.0000414	.0007055	.25390	.0006318	.0009352
%RSD	.5169726	.1910660	3.298790	.4372980	.1759718	.3972464
#1	1.206929	.0216819	.0219663	57.77187	.3583384	.2346579
#2	1.216550	.0216704	.0206020	58.24357	.3595907	.2351373
#3	1.218722	.0216052	.0215962	58.17059	.3591107	.2364633

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5772625	585.9647	7.651895	25.25802	.2928883	.0095176
Stddev	.0019747	5.3178	.047317	.13686	.0008998	.0013748
%RSD	.3420863	.9075294	.6183714	.5418652	.3072117	14.44488
#1	.5793394	580.1390	7.599252	25.10374	.2920820	.0080566
#2	.5770392	587.1966	7.690883	25.36481	.2927239	.0097103
#3	.5754089	590.5584	7.665550	25.30552	.2938590	.0107858

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	221.0497	.7316227	.4257056	30.53803	^ *****	.0033751
Stddev	2.2443	.0032642	.0001278	.14540	-----	.0000745
%RSD	1.015272	.4461529	.0300201	.4761438	-----	2.207688
#1	221.0363	.7279945	.4257406	30.42574	^ -----	.0032960
#2	218.8122	.7325530	.4258122	30.48607	^ -----	.0034439
#3	223.3006	.7343208	.4255639	30.70228	^ -----	.0033855

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-17 Acquired: 10/1/2025 16:25:25 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.010131	1.725468	F 59.82817	8.374189	F 50.58574	.1448277
Stddev	.000804	.008259	.37143	.023730	.14461	.0008931
%RSD	7.936511	.4786399	.6208341	.2833724	.2858639	.6166371
#1	-.010086	1.715946	59.54398	8.359571	50.42513	.1439828
#2	-.010957	1.729769	59.69208	8.361426	50.62647	.1447381
#3	-.009350	1.730689	60.24846	8.401569	50.70560	.1457622

Elem	Sr4077
Units	ppm
Avg	.4285521
Stddev	.0016269
%RSD	.3796194
#1	.4291547
#2	.4297918
#3	.4267100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10133.46	143153.8	12583.51	7681.148	6911.437
Stddev	30.82	160.2	35.53	23.488	29.789
%RSD	.3041580	.1119191	.2823660	.3057833	.4310097
#1	10161.67	143231.6	12599.10	7654.788	6938.177
#2	10138.15	143260.3	12542.85	7688.801	6916.807
#3	10100.57	142969.5	12608.58	7699.854	6879.329

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-18 Acquired: 10/1/2025 16:29:41 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0010337	.0016091	-.000917	.0023345	.0002384	.1241974
Stddev	.0008445	.0008048	.001428	.0005468	.0008098	.0161399
%RSD	81.69349	50.01794	155.6271	23.42001	339.6947	12.99538
#1	.0013106	.0025175	.000707	.0029337	.0009006	.1057127
#2	.0017049	.0009848	-.001975	.0018627	-.000664	.1313823
#3	.0000855	.0013252	-.001483	.0022071	.000479	.1354973

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1752342	-.000247	.0037070	60.99477	.0002880	.0048457
Stddev	.0010525	.000020	.0000259	.11151	.0002791	.0000112
%RSD	.6006084	7.989026	.6975159	.1828196	96.91901	.2306386
#1	.1753568	-.000249	.0036881	60.87142	.0000002	.0048493
#2	.1741258	-.000226	.0036965	61.08843	.0005576	.0048546
#3	.1762200	-.000265	.0037365	61.02447	.0003062	.0048331

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0335798	13.12513	4.283195	18.18143	.0092940	-.000213
Stddev	.0007247	.02134	.007235	.06194	.0001742	.000320
%RSD	2.158102	.1626099	.1689264	.3406784	1.874674	149.7688
#1	.0343421	13.11804	4.286039	18.11071	.0090937	-.000253
#2	.0328998	13.10823	4.288575	18.20757	.0093775	-.000511
#3	.0334974	13.14911	4.274969	18.22602	.0094107	.000124

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	332.6914	-.000003	.0243765	23.24571	.3005522	.0006827
Stddev	5.2078	.000836	.0002672	.07461	.0023442	.0000375
%RSD	1.565357	26111.70	1.095998	.3209681	.7799791	5.485764
#1	337.6543	.000627	.0241932	23.32983	.2988185	.0007145
#2	327.2691	.000315	.0242532	23.18752	.3032194	.0006414
#3	333.1507	-.000952	.0246830	23.21979	.2996187	.0006923

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-18 Acquired: 10/1/2025 16:29:41 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.022042	-.000175	7.259586	.0417500	F 13.33066	-.017464
Stddev	.000113	.000877	.023795	.0005634	.08284	.001705
%RSD	.5135040	502.7184	.3277769	1.349548	.6214218	9.763009
#1	-.021929	.000045	7.281239	.0413572	13.24761	-.018739
#2	-.022042	-.001141	7.234111	.0414974	13.33107	-.018126
#3	-.022155	.000572	7.263409	.0423956	13.41329	-.015527

Elem	Sr4077
Units	ppm
Avg	.5358959
Stddev	.0006932
%RSD	.1293478
#1	.5366917
#2	.5355724
#3	.5354237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6407.056	92114.65	7653.266	4958.794	7326.469
Stddev	8.150	555.12	25.218	35.612	4.324
%RSD	.1272103	.6026445	.3295007	.7181555	.0590143
#1	6405.274	91772.61	7663.367	4931.849	7326.501
#2	6399.944	92755.16	7671.867	4999.167	7322.129
#3	6415.950	91816.19	7624.564	4945.365	7330.776

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11 Acquired: 10/1/2025 16:34:01 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0378332	-.001658	.0008035	.0013755	-.003928	.0393447
Stddev	.0014658	.001427	.0010209	.0027079	.000660	.0094177
%RSD	3.874351	86.06466	127.0588	196.8661	16.79016	23.93629
#1	.0377898	-.000139	.0014815	-.001750	-.003237	.0325824
#2	.0393201	-.002970	.0012996	.002869	-.004551	.0501012
#3	.0363895	-.001865	-.000371	.003008	-.003997	.0353505

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4262824	.0005111	-.000848	91.04612	-.004232	.0419359
Stddev	.0016302	.0000362	.000118	.24376	.000017	.0003657
%RSD	.3824319	7.087760	13.93935	.2677310	.4091224	.8721236
#1	.4256515	.0005502	-.000984	91.31056	-.004249	.0423540
#2	.4250619	.0004787	-.000794	90.99740	-.004233	.0416757
#3	.4281338	.0005043	-.000767	90.83041	-.004214	.0417779

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045642	58.12444	4.110069	33.25121	.0053621	.0019435
Stddev	.0004893	.37857	.013536	.05420	.0003466	.0005863
%RSD	10.72141	.6513025	.3293295	.1629931	6.464012	30.16609
#1	.0048479	58.43783	4.124182	33.28820	.0049805	.0025461
#2	.0048455	58.23167	4.097196	33.27643	.0054483	.0019094
#3	.0039991	57.70383	4.108829	33.18900	.0056574	.0013750

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	838.1972	.0015376	.0030207	45.62360	.6048405	.0003351
Stddev	8.1772	.0011617	.0003147	.07786	.0022501	.0000131
%RSD	.9755660	75.55400	10.41746	.1706543	.3720080	3.907254
#1	841.9924	.0027654	.0026622	45.63104	.6070833	.0003206
#2	843.7871	.0004556	.0032513	45.69748	.6025833	.0003387
#3	828.8121	.0013919	.0031486	45.54229	.6048550	.0003460

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11 Acquired: 10/1/2025 16:34:01 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.028775	-.003466	8.089401	.0080361	F 27.31073	-.017044
Stddev	.000452	.001605	.034939	.0010859	.08321	.001499
%RSD	1.569289	46.28918	.4319146	13.51307	.3046608	8.795653
#1	-.028428	-.005155	8.104415	.0068536	27.21469	-.017706
#2	-.029286	-.003283	8.114324	.0082659	27.35623	-.015328
#3	-.028613	-.001961	8.049465	.0089887	27.36126	-.018097

Elem	Sr4077
Units	ppm
Avg	.9617287
Stddev	.0020625
%RSD	.2144591
#1	.9640658
#2	.9609567
#3	.9601635

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6066.771	85245.71	7568.635	4698.631	6705.193
Stddev	14.381	463.75	21.132	24.269	13.830
%RSD	.2370472	.5440143	.2792079	.5165137	.2062510
#1	6071.327	85126.98	7553.324	4723.608	6714.035
#2	6050.664	84852.88	7559.836	4675.138	6689.256
#3	6078.322	85757.29	7592.745	4697.148	6712.290

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11DUP Acquired: 10/1/2025 16:38:19 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0379811	-.004456	.0024261	.0033122	-.004955	.0238313
Stddev	.0031813	.002054	.0013168	.0024143	.000918	.0142632
%RSD	8.376088	46.10187	54.27481	72.89044	18.53186	59.85055
#1	.0351168	-.005600	.0027391	.0048362	-.005988	.0359796
#2	.0414052	-.005684	.0009811	.0005286	-.004232	.0081264
#3	.0374212	-.002084	.0035582	.0045716	-.004645	.0273878

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4426164	.0005527	-.000544	95.60041	-.004660	.0440575
Stddev	.0024796	.0000671	.000024	.33065	.000323	.0002082
%RSD	.5602213	12.14018	4.415359	.3458618	6.921656	.4725232
#1	.4454789	.0005071	-.000572	95.97505	-.005012	.0442830
#2	.4412409	.0005213	-.000531	95.47684	-.004589	.0440170
#3	.4411295	.0006298	-.000530	95.34935	-.004379	.0438726

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050145	59.49588	4.289949	35.05191	.0053581	.0015332
Stddev	.0005282	.34533	.022278	.05037	.0003132	.0002605
%RSD	10.53302	.5804296	.5192965	.1437142	5.845193	16.99011
#1	.0046282	59.80177	4.313034	35.09785	.0055526	.0017023
#2	.0047988	59.56446	4.288236	34.99804	.0049968	.0012332
#3	.0056163	59.12140	4.268578	35.05984	.0055249	.0016640

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	848.2537	.0018151	.0028286	47.11112	.6320291	.0003103
Stddev	6.7016	.0019655	.0002165	.19374	.0032992	.0001945
%RSD	.7900485	108.2851	7.652079	.4112370	.5220068	62.65393
#1	852.0920	.0034969	.0028969	47.26460	.6334217	.0002823
#2	852.1536	.0022939	.0030027	47.17533	.6282619	.0001315
#3	840.5154	-.000346	.0025863	46.89343	.6344036	.0005173

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11DUP Acquired: 10/1/2025 16:38:19 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.029995	-.002821	8.373370	.0075494	F 28.84239	-.017607
Stddev	.000526	.000511	.027231	.0021962	.30171	.000622
%RSD	1.753501	18.12647	.3252120	29.09064	1.046069	3.535140
#1	-.029408	-.002717	8.404468	.0051426	29.19049	-.018029
#2	-.030151	-.002369	8.361854	.0094446	28.68062	-.016892
#3	-.030424	-.003376	8.353789	.0080610	28.65606	-.017900

Elem	Sr4077
Units	ppm
Avg	1.004156
Stddev	.006084
%RSD	.6058821
#1	1.010743
#2	1.002976
#3	.998748

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6021.082	85397.14	7445.266	4635.998	6669.026
Stddev	16.091	334.08	31.170	15.729	16.598
%RSD	.2672418	.3912068	.4186494	.3392788	.2488835
#1	6037.871	85052.43	7409.589	4619.898	6679.027
#2	6005.795	85419.52	7467.218	4636.768	6649.866
#3	6019.580	85719.46	7458.990	4651.328	6678.185

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV05 Acquired: 10/1/2025 16:42:36 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**4.992259**	**4.886038**	**4.964773**	**5.021631**	**5.001219**	**9.926303**	**9.953046**
Stddev	.015997	.130839	.003774	.012543	.006232	.025042	.028340
%RSD	.3204342	2.677811	.0760061	.2497822	.1246084	.2522783	.2847374
#1	5.006473	4.968416	4.961265	5.034661	5.004008	9.915174	9.965656
#2	4.974936	4.735171	4.964289	5.009639	5.005570	9.908754	9.972891
#3	4.995370	4.954526	4.968765	5.020593	4.994080	9.954980	9.920589

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2513614**	**2.498863**	**25.00467**	**1.012034**	**2.483788**	**1.256247**	**4.992422**
Stddev	.0003531	.001654	.03968	.002087	.000882	.000435	.019397
%RSD	.1404575	.0661946	.1587092	.2062586	.0355128	.0346537	.3885217
#1	.2510631	2.500037	24.96881	1.011195	2.483482	1.256532	5.009176
#2	.2512699	2.496971	25.04730	1.010496	2.484782	1.255746	4.996918
#3	.2517512	2.499579	24.99790	1.014410	2.483099	1.256463	4.971172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.487488**	**24.89063**	**2.488290**	**1.253295**	**25.82262**	**2.489399**	**2.517280**
Stddev	.010813	.06423	.001465	.000736	.35086	.007341	.003014
%RSD	.4347020	.2580320	.0588602	.0587487	1.358732	.2948968	.1197176
#1	2.493137	24.87903	2.489819	1.253802	26.19016	2.482170	2.519516
#2	2.494307	24.83300	2.488149	1.252451	25.78648	2.489179	2.518471
#3	2.475020	24.95987	2.486900	1.253633	25.49124	2.496847	2.513853

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.14608**	**5.011688**	**5.019927**	**4.986079**	**4.961771**	**4.938291**	**4.982532**
Stddev	.05932	.004246	.007784	.010694	.004422	.008593	.028408
%RSD	.2185240	.0847152	.1550625	.2144788	.0891119	.1740165	.5701490
#1	27.15127	5.006799	5.026368	4.990631	4.960588	4.936563	4.992540
#2	27.20263	5.014457	5.011278	4.973862	4.966663	4.947618	4.950474
#3	27.08433	5.013806	5.022136	4.993744	4.958061	4.930694	5.004580

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV05 Acquired: 10/1/2025 16:42:36 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**4.952161**	**4.895715**	**5.017788**
Stddev	.041532	.012645	.077208
%RSD	.8386580	.2582881	1.538685
#1	4.981335	4.891657	4.928644
#2	4.904611	4.909891	5.061313
#3	4.970537	4.885597	5.063407

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6542.764**	**92874.39**	**7744.966**	**5032.677**	**7587.738**
Stddev	16.721	309.27	40.442	12.576	15.859
%RSD	.2555688	.3329976	.5221769	.2498917	.2090074
#1	6559.578	93205.90	7791.558	5046.562	7603.816
#2	6542.577	92823.64	7724.400	5029.419	7587.290
#3	6526.137	92593.64	7718.939	5022.050	7572.108

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB05 Acquired: 10/1/2025 16:46:37 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.001639**	**-.000263**	**.0006264**	**.0013934**	**-.000588**	**.0068379**
Stddev	.000294	.000576	.0004827	.0004252	.000567	.0045856
%RSD	17.94212	218.7228	77.06002	30.51618	96.32504	67.06215
#1	-.001844	-.000829	.0001506	.0011033	-.000212	.0119087
#2	-.001302	-.000284	.0006129	.0018815	-.001240	.0056228
#3	-.001772	.000323	.0011158	.0011953	-.000313	.0029822

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030065**	**-.000012**	**-.000007**	**.0023654**	**.0003146**	**.0001904**
Stddev	.0011778	.000023	.000056	.0058933	.0001615	.0000960
%RSD	39.17601	189.5594	773.9485	249.1510	51.32860	50.40550
#1	.0016856	.000015	.000053	-.003746	.0001292	.0001764
#2	.0039474	-.000025	-.000018	.008013	.0003902	.0001022
#3	.0033865	-.000026	-.000056	.002829	.0004244	.0002927

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000562**	**.0025378**	**.0002120**	**.0060293**	**-.000076**	**-.000725**
Stddev	.000195	.0080613	.0010099	.0037263	.000170	.000126
%RSD	34.65669	317.6487	476.3568	61.80376	225.3431	17.35557
#1	-.000391	.0025350	-.000704	.0020845	-.000249	-.000761
#2	-.000522	.0106005	.000045	.0065135	-.000070	-.000586
#3	-.000774	-.005522	.001295	.0094898	.000092	-.000830

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.070311**	**.0027315**	**-.000301**	**-.104868**	**-.008708**	**.0005928**
Stddev	.013327	.0009918	.000246	.034648	.000667	.0000679
%RSD	18.95494	36.30789	81.67876	33.03974	7.654394	11.45270
#1	-.060780	.0037909	-.000583	-.071074	-.007939	.0005162
#2	-.064613	.0018252	-.000132	-.140311	-.009066	.0006167
#3	-.085541	.0025785	-.000188	-.103219	-.009119	.0006455

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB05 Acquired: 10/1/2025 16:46:37 Type: Unk
Method: 6010-200.7 NEW(v240) 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	F -.029117	.0001360	.0051222	.0027348	.0035443	F -.010399
Stddev	.000456	.0010488	.0036781	.0008846	.0008843	.001968
%RSD	1.567657	771.3859	71.80688	32.34694	24.94928	18.92747
#1	-.029523	.0000927	.0065659	.0017488	.0029557	-.012611
#2	-.028623	.0012057	.0009413	.0029970	.0045611	-.009746
#3	-.029205	-.000890	.0078595	.0034587	.0031159	-.008841

Elem	Sr4077
Units	ppm
Avg	.0000636
Stddev	.0000142
%RSD	22.37710
#1	.0000765
#2	.0000660
#3	.0000483

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6938.061	98040.61	7598.894	5298.143	8725.787
Stddev	7.817	354.48	62.514	26.932	11.169
%RSD	.1126638	.3615625	.8226735	.5083346	.1280008
#1	6929.542	97753.27	7539.001	5269.078	8719.478
#2	6944.904	97931.83	7663.735	5303.097	8738.683
#3	6939.737	98436.74	7593.946	5322.255	8719.201

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11LX5 Acquired: 10/1/2025 16:50:56 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086519	.0024242	-.000143	.0019157	-.001481	.0168044	.0924904
Stddev	.0016998	.0013145	.001749	.0013861	.001295	.0087910	.0010187
%RSD	19.64683	54.22308	1225.154	72.35739	87.42405	52.31332	1.101360
#1	.0075264	.0015848	.001297	.0016630	-.000154	.0132602	.0935081
#2	.0078220	.0039391	.000363	.0006733	-.001549	.0103389	.0914708
#3	.0106072	.0017488	-.002088	.0034107	-.002740	.0268143	.0924924

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001015	-.000135	19.87457	-.000754	.0091101	.0008843	11.77661
Stddev	.0000502	.000040	.06499	.000099	.0001156	.0002154	.03107
%RSD	49.43900	29.49022	.3269813	13.18206	1.268826	24.35345	.2638036
#1	.0000808	-.000090	19.94482	-.000668	.0091034	.0010761	11.77956
#2	.0001587	-.000165	19.86228	-.000732	.0092289	.0009255	11.80610
#3	.0000650	-.000151	19.81661	-.000863	.0089980	.0006513	11.74418

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8934441	7.243852	.0007475	-.000449	164.8631	.0013797	.0005515
Stddev	.0033160	.021182	.0002023	.000337	1.3513	.0020286	.0003350
%RSD	.3711443	.2924162	27.06942	75.13076	.8196362	147.0309	60.75220
#1	.8971525	7.245151	.0009267	-.000828	166.0274	.0028934	.0003107
#2	.8907645	7.222050	.0007877	-.000183	165.1807	-.000925	.0004096
#3	.8924151	7.264354	.0005280	-.000335	163.3814	.002171	.0009341

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.952726	.1305010	.0001962	-.005932	.0015614	1.589596	.0005376
Stddev	.077300	.0017671	.0002932	.000139	.0013302	.033290	.0007121
%RSD	.7766692	1.354075	149.4212	2.344542	85.19190	2.094271	132.4547
#1	9.865086	.1325273	.0005045	-.006040	.0001070	1.569461	.0009360
#2	9.981893	.1296950	-.000079	-.005775	.0018610	1.628022	.0009613
#3	10.01120	.1292805	.000163	-.005981	.0027162	1.571306	-.000285

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11LX5 Acquired: 10/1/2025 16:50:56 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.563689**	**.0111310**	**.2056958**
Stddev	.071672	.0001393	.0013754
%RSD	1.288207	1.251455	.6686462
#1	5.599355	.0109720	.2072737
#2	5.610531	.0111893	.2050631
#3	5.481182	.0112316	.2047506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6419.145**	**92496.98**	**7648.585**	**5008.944**	**7342.815**
Stddev	1.579	612.89	33.174	31.918	8.076
%RSD	.0245939	.6626099	.4337328	.6372294	.1099884
#1	6417.563	93198.37	7670.883	5045.766	7349.772
#2	6419.152	92227.95	7664.410	4991.920	7333.958
#3	6420.720	92064.60	7610.461	4989.147	7344.714

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-13 Acquired: 10/1/2025 16:55:10 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.8699596**	**1.911450**	**.9671900**	**2.046923**	**.8138291**	**1.990078**
Stddev	.0023972	.006738	.0022088	.007909	.0026321	.023545
%RSD	.2755552	.3524912	.2283752	.3863727	.3234185	1.183129
#1	.8710891	1.919155	.9665336	2.055819	.8155969	1.969382
#2	.8715834	1.906662	.9653837	2.044261	.8108042	2.015695
#3	.8672063	1.908534	.9696526	2.040688	.8150863	1.985157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6233521**	**.1947784**	**.2024158**	**94.54061**	**.4025132**	**.2467283**
Stddev	.0011060	.0008350	.0000681	.28981	.0021191	.0002511
%RSD	.1774230	.4286848	.0336362	.3065449	.5264777	.1017561
#1	.6221766	.1938722	.2024738	94.21162	.4008083	.2468699
#2	.6243720	.1955167	.2024327	94.65204	.4048858	.2468766
#3	.6235077	.1949464	.2023408	94.75817	.4018456	.2464385

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2938326**	**62.50430**	**4.388526**	**36.03866**	**.5122616**	**.0793465**
Stddev	.0005976	.11214	.014805	.16728	.0006867	.0002160
%RSD	.2033681	.1794116	.3373643	.4641552	.1340511	.2721843
#1	.2932472	62.48555	4.373483	35.84707	.5126944	.0795959
#2	.2944416	62.40272	4.389014	36.11321	.5126206	.0792225
#3	.2938089	62.62463	4.403082	36.15569	.5114698	.0792212

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**843.6631**	**.3012891**	**.2157353**	**57.83474**	**.8891332**	**.4218490**
Stddev	9.1479	.0054754	.0014296	.13686	.0045249	.0002981
%RSD	1.084308	1.817340	.6626827	.2366392	.5089072	.0706568
#1	852.9805	.3072633	.2173758	57.82737	.8843364	.4221931
#2	843.3140	.2965099	.2147554	57.70172	.8933253	.4216829
#3	834.6947	.3000940	.2150747	57.97514	.8897378	.4216710

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-13 Acquired: 10/1/2025 16:55:10 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7049846	.1963706	9.260217	6.547107	F 27.99551	.1837388
Stddev	.0004217	.0004680	.006210	.016321	.03483	.0025475
%RSD	.0598175	.2383309	.0670607	.2492888	.1244287	1.386490
#1	.7051956	.1965389	9.253839	6.564035	28.02765	.1847385
#2	.7052592	.1967313	9.266244	6.545819	28.00037	.1808430
#3	.7044991	.1958418	9.260569	6.531468	27.95849	.1856348

Elem	Sr4077
Units	ppm
Avg	1.180113
Stddev	.004465
%RSD	.3783276
#1	1.177716
#2	1.177359
#3	1.185264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6020.509	84530.02	7551.102	4634.609	6657.708
Stddev	8.513	233.86	39.728	11.172	2.575
%RSD	.1414017	.2766603	.5261250	.2410453	.0386741
#1	6014.290	84660.84	7595.773	4643.049	6655.629
#2	6017.026	84260.02	7519.729	4621.941	6656.907
#3	6030.211	84669.20	7537.803	4638.838	6660.588

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-15 Acquired: 10/1/2025 16:59:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.8072088**	**1.780423**	**.9270145**	**1.980204**	**.7895669**	**1.907356**
Stddev	.0026195	.056283	.0032300	.012778	.0040890	.010854
%RSD	.3245093	3.161228	.3484346	.6453007	.5178789	.5690660
#1	.8042783	1.717835	.9232875	1.965662	.7880367	1.913094
#2	.8093228	1.826877	.9287548	1.985308	.7864637	1.914137
#3	.8080252	1.796557	.9290011	1.989641	.7942003	1.894837

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5470058**	**.1847852**	**.1953865**	**88.88176**	**.3875891**	**.2347211**
Stddev	.0011696	.0007401	.0004518	.00564	.0011979	.0008163
%RSD	.2138269	.4005053	.2312094	.0063418	.3090639	.3477884
#1	.5462013	.1856070	.1950496	88.87529	.3881843	.2338839
#2	.5483476	.1841713	.1952102	88.88558	.3862102	.2347646
#3	.5464686	.1845772	.1958999	88.88442	.3883729	.2355148

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2894301**	**24.91235**	**4.097632**	**34.05221**	**.4911264**	**.0737696**
Stddev	.0008739	.16487	.012977	.09544	.0024413	.0003176
%RSD	.3019541	.6618087	.3166874	.2802707	.4970906	.4304910
#1	.2886691	24.78885	4.083145	34.13575	.4884576	.0741336
#2	.2892366	25.09957	4.108193	33.94819	.4916744	.0735489
#3	.2903846	24.84862	4.101557	34.07269	.4932472	.0736264

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**789.8706**	**.2889630**	**.2091832**	**53.77770**	**.8183738**	**.4070445**
Stddev	1.3438	.0014980	.0008600	.40740	.0043323	.0006576
%RSD	.1701266	.5184172	.4111277	.7575582	.5293816	.1615538
#1	791.4118	.2888481	.2081901	53.30757	.8233756	.4063210
#2	788.9443	.2905151	.2096830	53.99841	.8159469	.4072067
#3	789.2557	.2875257	.2096763	54.02711	.8157989	.4076058

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-15 Acquired: 10/1/2025 16:59:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7081890	.1849827	8.062800	6.236612	F 26.72126	.1724035
Stddev	.0013276	.0010002	.010070	.008370	.11411	.0009504
%RSD	.1874630	.5407041	.1248998	.1342071	.4270312	.5512613
#1	.7088310	.1839570	8.051429	6.233481	26.58963	.1717366
#2	.7066624	.1859552	8.070591	6.230259	26.79208	.1719822
#3	.7090735	.1850360	8.066380	6.246096	26.78207	.1734917

Elem	Sr4077
Units	ppm
Avg	1.134758
Stddev	.002362
%RSD	.2081149
#1	1.132103
#2	1.136626
#3	1.135543

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6050.576	86539.42	7641.235	4694.756	6725.412
Stddev	6.652	82.98	22.969	27.798	11.638
%RSD	.1099389	.0958812	.3005983	.5920999	.1730384
#1	6052.226	86635.22	7615.534	4717.346	6726.672
#2	6056.248	86492.97	7659.759	4703.209	6736.368
#3	6043.255	86490.08	7648.412	4663.713	6713.196

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11A Acquired: 10/1/2025 17:03:20 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.8832402**	**1.834045**	**.9804877**	**2.108017**	**.8429151**	**1.998121**
Stddev	.0029008	.045254	.0035511	.009657	.0019270	.013854
%RSD	.3284300	2.467446	.3621722	.4581297	.2286140	.6933332
#1	.8799336	1.864576	.9800950	2.118991	.8448874	2.006236
#2	.8844303	1.782053	.9842188	2.100812	.8428211	2.006001
#3	.8853567	1.855505	.9771493	2.104248	.8410368	1.982124

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5989189**	**.1939894**	**.2046586**	**89.93792**	**.3961045**	**.2461966**
Stddev	.0017537	.0017127	.0004716	.18655	.0001727	.0004660
%RSD	.2928088	.8828578	.2304403	.2074173	.0435928	.1892673
#1	.5972201	.1932656	.2052030	89.75305	.3961851	.2467347
#2	.5988139	.1927576	.2043745	89.93460	.3959062	.2459298
#3	.6007228	.1959452	.2043983	90.12610	.3962221	.2459254

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2973020**	**58.86014**	**4.154949**	**34.65184**	**.5159234**	**.0789984**
Stddev	.0005625	.33773	.020157	.07693	.0012121	.0001971
%RSD	.1891838	.5737823	.4851426	.2219979	.2349320	.2494487
#1	.2973851	59.00877	4.131718	34.69404	.5171277	.0788239
#2	.2967026	59.09806	4.165322	34.56304	.5159389	.0792121
#3	.2978183	58.47358	4.167808	34.69842	.5147037	.0789591

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**777.3761**	**.3011824**	**.2130668**	**54.91954**	**.8529183**	**.4263976**
Stddev	9.5114	.0018595	.0001394	.26480	.0057703	.0009313
%RSD	1.223526	.6173979	.0654309	.4821510	.6765411	.2184235
#1	767.6116	.3032985	.2130031	54.89521	.8496630	.4273833
#2	786.6123	.3004391	.2132267	55.19567	.8495112	.4255322
#3	777.9044	.2998094	.2129707	54.66775	.8595808	.4262773

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-11A Acquired: 10/1/2025 17:03:20 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7195065	.1941578	8.859208	6.512671	F 27.35140	.1833444
Stddev	.0018200	.0007802	.062793	.027660	.13820	.0013137
%RSD	.2529442	.4018414	.7087862	.4247068	.5052922	.7164954
#1	.7201037	.1936427	8.915298	6.542406	27.50490	.1848553
#2	.7174629	.1950555	8.870954	6.487707	27.23687	.1827049
#3	.7209527	.1937754	8.791371	6.507900	27.31242	.1824729

Elem	Sr4077
Units	ppm
Avg	1.124111
Stddev	.005998
%RSD	.5335990
#1	1.117326
#2	1.126303
#3	1.128706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6032.526	86984.16	7695.805	4678.314	6672.809
Stddev	2.743	220.90	68.172	9.703	11.543
%RSD	.0454665	.2539571	.8858294	.2073989	.1729874
#1	6032.868	86772.40	7720.882	4689.346	6659.905
#2	6035.082	87213.19	7747.887	4674.497	6676.367
#3	6029.629	86966.88	7618.647	4671.101	6682.153

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12 Acquired: 10/1/2025 17:07:25 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0002187	.0004543	.0000183	.0051314	-.001465	.0232841
Stddev	.0023442	.0027165	.0012136	.0036202	.000983	.0061136
%RSD	1072.085	597.9092	6647.722	70.54973	67.10733	26.25643
#1	.0024704	.0030922	.0003154	.0073217	-.001417	.0302552
#2	-.002208	.0006054	-.001316	.0071198	-.002470	.0188346
#3	.000394	-.002335	.001056	.0009528	-.000506	.0207627

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3638735	-.000221	.0078705	89.51406	-.000200	.0395482
Stddev	.0017521	.000074	.0001777	.14890	.000376	.0001322
%RSD	.4815064	33.29432	2.257460	.1663461	188.5517	.3342177
#1	.3618695	-.000270	.0076665	89.36101	-.000602	.0395607
#2	.3646356	-.000258	.0079916	89.52274	-.000141	.0394101
#3	.3651155	-.000136	.0079533	89.65843	.000144	.0396736

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257466	16.06777	3.983738	32.94300	.0043213	-.000530
Stddev	.0005246	.03983	.024037	.05290	.0003250	.000085
%RSD	2.037747	.2478646	.6033896	.1605724	7.521249	16.11783
#1	.0263149	16.10152	3.963349	32.99303	.0039850	-.000431
#2	.0256445	16.07793	3.977622	32.88764	.0043454	-.000584
#3	.0252806	16.02384	4.010243	32.94832	.0046336	-.000574

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	780.3710	-.001769	.0074211	44.11545	.5776892	.0006115
Stddev	5.5362	.000715	.0000572	.05602	.0043133	.0002669
%RSD	.7094268	40.43188	.7708725	.1269842	.7466445	43.64270
#1	786.4998	-.001071	.0074156	44.17995	.5752490	.0008468
#2	778.8808	-.001734	.0074808	44.08747	.5751491	.0006661
#3	775.7325	-.002500	.0073668	44.07893	.5826694	.0003215

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12 Acquired: 10/1/2025 17:07:25 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.028370	-.001321	7.143837	.0117944	F 26.95347	-.020628
Stddev	.000502	.001288	.035796	.0018668	.16586	.002086
%RSD	1.769746	97.48736	.5010801	15.82782	.6153511	10.11313
#1	-.028059	-.001738	7.154729	.0137401	26.96939	-.018739
#2	-.028103	-.002349	7.172922	.0116249	27.11080	-.022867
#3	-.028949	.000124	7.103860	.0100181	26.78023	-.020278

Elem	Sr4077
Units	ppm
Avg	.9721469
Stddev	.0042751
%RSD	.4397578
#1	.9677295
#2	.9724474
#3	.9762638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6111.548	87465.23	7581.159	4747.163	6804.361
Stddev	4.933	257.92	32.793	12.682	12.894
%RSD	.0807121	.2948813	.4325592	.2671390	.1894910
#1	6108.958	87167.43	7589.472	4735.065	6810.391
#2	6117.236	87611.02	7608.996	4760.357	6813.134
#3	6108.449	87617.24	7545.010	4746.069	6789.557

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12DUP Acquired: 10/1/2025 17:11:43 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.0001236	-.000782	-.000296	.0048647	.0003799	.0331227
Stddev	.0018228	.004262	.000142	.0015400	.0013142	.0067193
%RSD	1474.849	545.1972	48.16270	31.65707	345.9637	20.28592
#1	-.001433	.002494	-.000214	.0034382	.0018001	.0283751
#2	-.000326	-.005600	-.000460	.0064975	.0001327	.0301820
#3	.002129	.000761	-.000213	.0046584	-.000793	.0408110

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3749298	-.000158	.0080991	91.92478	-.000383	.0408618
Stddev	.0000873	.000018	.0000229	.33689	.000337	.0002122
%RSD	.0232912	11.38148	.2821211	.3664800	88.04058	.5192392
#1	.3750053	-.000160	.0081164	92.08509	-.000358	.0411021
#2	.3749499	-.000174	.0081078	91.53768	-.000732	.0407832
#3	.3748342	-.000139	.0080732	92.15158	-.000059	.0407002

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258462	16.90071	4.117778	33.81137	.0044372	.0000131
Stddev	.0005071	.12703	.021848	.10898	.0000824	.0005416
%RSD	1.961883	.7516344	.5305819	.3223220	1.856074	4140.115
#1	.0255514	16.82290	4.120547	33.81130	.0043455	.0002311
#2	.0255555	16.83194	4.094678	33.70242	.0045048	.0004117
#3	.0264317	17.04730	4.138110	33.92038	.0044615	-.000604

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	816.8006	-.000578	.0073629	46.41613	.5907610	.0005465
Stddev	4.4795	.003245	.0002745	.29129	.0037291	.0002184
%RSD	.5484151	561.5889	3.728797	.6275515	.6312381	39.96745
#1	812.2486	-.004265	.0076451	46.39332	.5940585	.0005726
#2	821.2038	.000690	.0073469	46.13692	.5867141	.0007507
#3	816.9493	.001842	.0070967	46.71815	.5915105	.0003162

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12DUP Acquired: 10/1/2025 17:11:43 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.028251	-.001710	7.425695	.0118106	F 27.83991	-.022123
Stddev	.000195	.001705	.053163	.0021804	.22174	.002926
%RSD	.6910035	99.70271	.7159305	18.46127	.7964907	13.22464
#1	-.028045	-.003678	7.446715	.0126129	27.81945	-.018818
#2	-.028273	-.000678	7.365236	.0134761	28.07118	-.023171
#3	-.028434	-.000774	7.465134	.0093427	27.62911	-.024380

Elem	Sr4077
Units	ppm
Avg	1.004327
Stddev	.004951
%RSD	.4929327
#1	1.007149
#2	.998610
#3	1.007221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6058.791	86713.11	7635.520	4734.141	6729.791
Stddev	2.139	452.81	33.451	14.595	1.494
%RSD	.0353009	.5221951	.4380971	.3082825	.0221973
#1	6060.062	86648.69	7605.398	4734.886	6731.464
#2	6056.321	87194.68	7671.520	4748.348	6729.317
#3	6059.988	86295.96	7629.641	4719.188	6728.591

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12LX5 Acquired: 10/1/2025 17:16:01 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000135**	**.0022841**	**.0001001**	**.0016776**	**-.001412**	**.0096032**	**.0787873**
Stddev	.001097	.0030326	.0012129	.0018912	.001710	.0086337	.0016472
%RSD	810.9150	132.7694	1211.990	112.7300	121.1080	89.90417	2.090721
#1	-.001370	.0006770	.0003944	.0030402	-.001650	.0110596	.0804757
#2	.000724	.0057821	-.001233	-.000482	.000405	.0174160	.0771846
#3	.000240	.0003933	.001139	.002474	-.002991	.0003339	.0787016

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000024**	**.0015961**	**19.54144**	**-.000342**	**.0084431**	**.0050230**	**3.358224**
Stddev	.000053	.0000597	.12926	.000121	.0001553	.0001514	.029516
%RSD	217.7017	3.742797	.6614541	35.32226	1.838988	3.013705	.8789076
#1	.000036	.0016453	19.68568	-.000473	.0083983	.0048843	3.332062
#2	-.000065	.0016135	19.43611	-.000234	.0083151	.0050001	3.390222
#3	-.000044	.0015296	19.50253	-.000319	.0086158	.0051845	3.352389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8690132**	**7.116480**	**.0010576**	**-.000571**	**155.7311**	**.0042328**	**.0012312**
Stddev	.0061816	.016941	.0000641	.000317	1.0463	.0015092	.0001159
%RSD	.7113393	.2380556	6.064411	55.45611	.6718515	35.65521	9.410587
#1	.8757270	7.103429	.0011094	-.000935	156.5913	.0045470	.0011391
#2	.8635572	7.110387	.0009859	-.000425	156.0357	.0055601	.0013613
#3	.8677554	7.135625	.0010776	-.000354	154.5663	.0025912	.0011932

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.99109**	**.1214763**	**.0002901**	**-.005778**	**-.000839**	**1.465080**	**.0029280**
Stddev	.09000	.0003996	.0001340	.000526	.001347	.012971	.0010592
%RSD	.7505515	.3289355	46.19060	9.110842	160.4581	.8853776	36.17562
#1	12.04717	.1214533	.0003416	-.006006	-.001753	1.452649	.0029501
#2	12.03883	.1210888	.0001380	-.006151	-.001472	1.478531	.0039759
#3	11.88728	.1218869	.0003907	-.005176	.000707	1.464061	.0018579

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12LX5 Acquired: 10/1/2025 17:16:01 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.581455	.0274357	.2083124
Stddev	.012951	.0023752	.0010752
%RSD	.2320306	8.657244	.5161518
#1	5.585624	.0293477	.2095533
#2	5.591807	.0247769	.2077268
#3	5.566933	.0281825	.2076572

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6450.113	93066.31	7814.316	5004.434	7410.544
Stddev	14.256	353.97	76.165	42.876	10.705
%RSD	.2210270	.3803390	.9746884	.8567539	.1444582
#1	6435.921	93075.38	7776.007	4981.224	7398.309
#2	6464.434	93415.65	7902.030	5053.911	7418.190
#3	6449.984	92707.89	7764.911	4978.167	7415.132

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-14 Acquired: 10/1/2025 17:20:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.8057776**	**1.824816**	**.9209134**	**1.982267**	**.7917677**	**1.919685**
Stddev	.0017644	.077810	.0027783	.005805	.0005176	.019959
%RSD	.2189714	4.263968	.3016888	.2928512	.0653697	1.039683
#1	.8039587	1.877758	.9240213	1.980536	.7913507	1.923580
#2	.8074820	1.861212	.9200484	1.988740	.7916054	1.898066
#3	.8058921	1.735479	.9186706	1.977524	.7923469	1.937409

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5530771**	**.1856899**	**.1955712**	**91.51260**	**.3861239**	**.2353046**
Stddev	.0029959	.0008052	.0001982	.19849	.0007336	.0001767
%RSD	.5416794	.4336125	.1013393	.2168982	.1899864	.0750891
#1	.5499768	.1848466	.1957949	91.57197	.3869603	.2354810
#2	.5532980	.1857726	.1955011	91.29120	.3855893	.2351276
#3	.5559564	.1864506	.1954176	91.67463	.3858223	.2353053

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2938590**	**20.58481**	**4.229888**	**34.91697**	**.4889193**	**.0734877**
Stddev	.0006117	.04899	.013820	.04750	.0006162	.0005723
%RSD	.2081596	.2380005	.3267108	.1360330	.1260272	.7788192
#1	.2942226	20.63633	4.223077	34.87849	.4896020	.0740411
#2	.2931528	20.57926	4.220797	34.90237	.4887513	.0735240
#3	.2942016	20.53882	4.245791	34.97005	.4884045	.0728981

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**806.5720**	**.2880810**	**.2325073**	**55.35305**	**.8372124**	**.4061805**
Stddev	9.6099	.0037324	.0006463	.15651	.0059484	.0007553
%RSD	1.191450	1.295614	.2779519	.2827577	.7104956	.1859474
#1	795.7979	.2901356	.2326467	55.50776	.8322822	.4063532
#2	814.2588	.2837727	.2318027	55.35660	.8355359	.4068344
#3	809.6593	.2903347	.2330725	55.19479	.8438191	.4053538

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-14 Acquired: 10/1/2025 17:20:15 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6760592	.1876913	8.107903	6.251516	F 27.49908	.1737467
Stddev	.0018651	.0040954	.013220	.038637	.18444	.0026769
%RSD	.2758748	2.182002	.1630475	.6180372	.6707022	1.540689
#1	.6776957	.1917672	8.100237	6.295122	27.64923	.1724844
#2	.6764533	.1835767	8.123167	6.237883	27.55480	.1719344
#3	.6740286	.1877301	8.100303	6.221545	27.29321	.1768214

Elem	Sr4077
Units	ppm
Avg	1.174774
Stddev	.004585
%RSD	.3903141
#1	1.173046
#2	1.171303
#3	1.179972

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6094.164	87582.97	7636.085	4724.455	6769.653
Stddev	4.109	198.75	28.310	25.786	5.974
%RSD	.0674318	.2269266	.3707389	.5458051	.0882530
#1	6090.487	87445.32	7664.861	4694.683	6762.940
#2	6098.600	87492.76	7635.129	4739.722	6774.387
#3	6093.404	87810.82	7608.265	4738.960	6771.632

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-16 Acquired: 10/1/2025 17:24:22 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.8114748	1.802623	.9247733	1.997518	.7911937	1.923329
Stddev	.0030690	.045333	.0038012	.011356	.0017947	.026185
%RSD	.3781955	2.514860	.4110356	.5685266	.2268299	1.361454
#1	.8139803	1.765814	.9256764	1.984410	.7927646	1.899822
#2	.8080517	1.788794	.9280416	2.003738	.7915787	1.918613
#3	.8123925	1.853260	.9206020	2.004405	.7892377	1.951551

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5527283	.1870775	.1947312	89.37036	.3851993	.2343330
Stddev	.0014028	.0007169	.0002077	.16977	.0003418	.0005301
%RSD	.2537913	.3832075	.1066425	.1899635	.0887359	.2262052
#1	.5511173	.1864052	.1945302	89.17928	.3855938	.2338891
#2	.5536793	.1878319	.1947185	89.50382	.3850135	.2341901
#3	.5533884	.1869954	.1949450	89.42799	.3849907	.2349199

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2892555	24.96153	4.158178	34.28520	.4906163	.0745235
Stddev	.0006895	.10359	.022411	.10736	.0009314	.0007985
%RSD	.2383645	.4149860	.5389554	.3131326	.1898496	1.071463
#1	.2884781	24.85960	4.138988	34.16370	.4912129	.0742437
#2	.2894955	25.06670	4.182808	34.36726	.4895430	.0739024
#3	.2897929	24.95827	4.152737	34.32464	.4910929	.0754242

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	774.1062	.2896639	.2080705	54.33979	.8317628	.4063848
Stddev	4.4879	.0009306	.0002153	.22001	.0038468	.0014774
%RSD	.5797489	.3212827	.1034949	.4048779	.4624865	.3635432
#1	775.0305	.2906187	.2079710	54.09410	.8288707	.4054542
#2	769.2281	.2887595	.2079230	54.40665	.8361285	.4056119
#3	778.0599	.2896136	.2083176	54.51861	.8302891	.4080883

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-16 Acquired: 10/1/2025 17:24:22 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6764185	.1897938	8.057064	6.255249	F 26.89134	.1763184
Stddev	.0002295	.0014329	.013165	.000563	.08332	.0031886
%RSD	.0339286	.7549798	.1633971	.0090071	.3098581	1.808444
#1	.6764368	.1884107	8.056995	6.254609	26.83037	.1765157
#2	.6766383	.1896991	8.070263	6.255672	26.85736	.1794038
#3	.6761803	.1912718	8.043933	6.255465	26.98628	.1730357

Elem	Sr4077
Units	ppm
Avg	1.147813
Stddev	.005585
%RSD	.4865720
#1	1.142619
#2	1.153720
#3	1.147100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6113.775	86970.01	7596.522	4722.292	6799.307
Stddev	17.927	194.50	4.424	.689	9.265
%RSD	.2932164	.2236385	.0582335	.0145940	.1362607
#1	6121.231	86780.55	7599.860	4722.817	6795.452
#2	6126.770	87169.18	7591.504	4722.547	6809.877
#3	6093.323	86960.29	7598.202	4721.511	6792.592

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12A Acquired: 10/1/2025 17:28:27 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.8445466**	**1.824997**	**.9686853**	**2.105453**	**.8438753**	**2.003438**
Stddev	.0043442	.038378	.0018159	.009732	.0051448	.009550
%RSD	.5143860	2.102922	.1874601	.4622172	.6096619	.4766837
#1	.8412926	1.781695	.9688559	2.094218	.8436587	2.004340
#2	.8494799	1.854808	.9667902	2.111240	.8388422	1.993470
#3	.8428674	1.838487	.9704099	2.110901	.8491249	2.012506

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5468428**	**.1961517**	**.2112159**	**88.78408**	**.4067765**	**.2426993**
Stddev	.0017276	.0011555	.0006608	.37256	.0009720	.0001987
%RSD	.3159144	.5890724	.3128728	.4196193	.2389526	.0818646
#1	.5448489	.1972310	.2107663	88.54598	.4072468	.2425548
#2	.5478935	.1949328	.2109068	88.59284	.4056588	.2426173
#3	.5477859	.1962913	.2119747	89.21342	.4074239	.2429259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3160434**	**19.44051**	**4.081112**	**34.41736**	**.5128839**	**.0784670**
Stddev	.0007952	.21722	.015069	.19846	.0015867	.0004647
%RSD	.2516012	1.117342	.3692495	.5766190	.3093684	.5922610
#1	.3155170	19.20583	4.066248	34.39243	.5113286	.0779358
#2	.3156551	19.63451	4.096379	34.23255	.5128228	.0786666
#3	.3169581	19.48119	4.080710	34.62711	.5145002	.0787986

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**774.5260**	**.3047363**	**.2216888**	**55.96776**	**.8436399**	**.4274612**
Stddev	1.2702	.0043042	.0007605	.39162	.0002602	.0007813
%RSD	.1639964	1.412440	.3430553	.6997316	.0308432	.1827822
#1	773.1927	.3003217	.2223378	55.51789	.8433564	.4267254
#2	775.7219	.3049665	.2208520	56.23248	.8436955	.4273771
#3	774.6635	.3089209	.2218765	56.15291	.8438678	.4282812

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3202-12A Acquired: 10/1/2025 17:28:27 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.7087351	.1965458	8.265125	6.436342	F 26.54014	.1849238
Stddev	.0020544	.0014067	.032567	.027709	.17733	.0020169
%RSD	.2898666	.7157109	.3940323	.4305070	.6681686	1.090649
#1	.7069701	.1959264	8.228372	6.412941	26.33708	.1854316
#2	.7109902	.1981559	8.276610	6.429145	26.61883	.1866383
#3	.7082449	.1955552	8.290394	6.466939	26.66451	.1827016

Elem	Sr4077
Units	ppm
Avg	1.146795
Stddev	.003355
%RSD	.2925400
#1	1.143281
#2	1.149964
#3	1.147141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6145.732	85958.49	7723.826	4672.672	6862.108
Stddev	12.174	271.09	32.357	26.876	11.509
%RSD	.1980923	.3153726	.4189269	.5751654	.1677163
#1	6155.324	85975.02	7689.403	4641.867	6873.248
#2	6132.037	85679.52	7728.457	4684.820	6850.262
#3	6149.836	86220.94	7753.618	4691.329	6862.815

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV06 Acquired: 10/1/2025 17:32:32 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.126919**	**5.005440**	**5.026411**	**5.179157**	**5.114470**	**10.01161**	**9.916398**
Stddev	.012119	.125075	.006683	.012879	.003525	.02669	.016530
%RSD	.2363719	2.498781	.1329517	.2486740	.0689307	.2665562	.1666906
#1	5.139102	5.147475	5.032960	5.193920	5.117855	9.98627	9.930778
#2	5.114865	4.957080	5.019602	5.173326	5.110819	10.00910	9.920077
#3	5.126791	4.911766	5.026670	5.170225	5.114736	10.03946	9.898339

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2510076**	**2.534732**	**24.99974**	**1.006168**	**2.515572**	**1.277244**	**4.938532**
Stddev	.0014956	.002639	.04495	.003110	.002479	.002507	.046976
%RSD	.5958176	.1041178	.1797823	.3091401	.0985401	.1962540	.9512145
#1	.2494536	2.537285	24.96064	1.006676	2.517968	1.275940	4.974329
#2	.2511324	2.532014	25.04884	1.008993	2.513018	1.275659	4.955927
#3	.2524369	2.534897	24.98975	1.002835	2.515729	1.280134	4.885339

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.495160**	**24.95822**	**2.527096**	**1.242356**	**25.48228**	**2.507515**	**2.517849**
Stddev	.004563	.07883	.002340	.000884	.52914	.002840	.005744
%RSD	.1828569	.3158352	.0925923	.0711406	2.076487	.1132516	.2281226
#1	2.497423	24.86829	2.529637	1.241500	26.01359	2.506123	2.521277
#2	2.498149	24.99097	2.525030	1.243265	25.47790	2.505641	2.521052
#3	2.489908	25.01538	2.526620	1.242304	24.95535	2.510783	2.511218

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.13176**	**5.026197**	**5.049162**	**5.046759**	**4.981646**	**4.915389**	**5.151303**
Stddev	.27610	.035567	.011128	.009019	.003996	.010264	.014118
%RSD	1.017612	.7076367	.2203929	.1786999	.0802106	.2088073	.2740691
#1	27.39853	4.988722	5.059462	5.056274	4.979665	4.903941	5.166281
#2	27.14955	5.030384	5.037359	5.045664	4.986245	4.918461	5.149386
#3	26.84720	5.059486	5.050663	5.038337	4.979027	4.923766	5.138241

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV06 Acquired: 10/1/2025 17:32:32 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.143021**	**4.963099**	**5.018164**
Stddev	.018046	.006292	.037069
%RSD	.3508783	.1267831	.7386984
#1	5.163843	4.958884	4.981689
#2	5.133295	4.970332	5.055800
#3	5.131925	4.960081	5.017002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6488.548**	**95309.13**	**7866.674**	**5025.487**	**7494.899**
Stddev	7.976	190.20	36.861	32.150	13.197
%RSD	.1229170	.1995566	.4685763	.6397422	.1760817
#1	6479.958	95156.77	7904.267	4999.855	7481.319
#2	6495.718	95248.34	7865.164	5015.046	7495.702
#3	6489.966	95522.30	7830.591	5061.560	7507.677

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB06 Acquired: 10/1/2025 17:41:57 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**-.002443**	**-.001273**	**.0006940**	**.0008383**	**.0000594**	**.0011175**
Stddev	.000977	.002193	.0008707	.0017198	.0019473	.0147316
%RSD	39.97054	172.2787	125.4597	205.1657	3279.862	1318.302
#1	-.002801	-.003140	.0015090	.0008415	-.001392	.0088358
#2	-.001338	.001142	.0007964	-.000883	.002272	.0103862
#3	-.003191	-.001821	-.000223	.002556	-.000703	-.015870

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000536**	**-.000089**	**-.000020**	**.0079410**	**.0003812**	**.0000818**
Stddev	.000321	.000078	.000011	.0024893	.0002997	.0001551
%RSD	59.98500	88.24494	55.87764	31.34749	78.63039	189.5668
#1	-.000316	-.000047	-.000019	.0107917	.0001199	-.000050
#2	-.000386	-.000040	-.000009	.0061967	.0007084	.000043
#3	-.000904	-.000179	-.000031	.0068346	.0003153	.000253

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000233**	**.0068595**	**.0003074**	**.0170870**	**-.000247**	**-.000097**
Stddev	.000420	.0087830	.0007727	.0053210	.000323	.000448
%RSD	179.8894	128.0414	251.3618	31.14055	130.4471	462.0317
#1	-.000607	.0020412	-.000210	.0225269	.000008	-.000045
#2	.000221	.0015402	.001196	.0118935	-.000610	.000323
#3	-.000313	.0169971	-.000063	.0168406	-.000140	-.000569

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.158700**	**.0002472**	**-.000070**	**-.235838**	**-.010917**	**.0003667**
Stddev	.026101	.0029341	.000043	.051014	.000735	.0000504
%RSD	16.44644	1186.759	60.31721	21.63113	6.732679	13.75573
#1	-.142877	-.001236	-.000030	-.235937	-.011650	.0003153
#2	-.188826	.003627	-.000066	-.184774	-.010922	.0003686
#3	-.144398	-.001649	-.000115	-.286802	-.010180	.0004161

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB06 Acquired: 10/1/2025 17:41:57 Type: Unk
Method: 6010-200.7 NEW(v240) 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	F -.029415	-.000250	-.000870	.0018012	.0009689	F -.010583
Stddev	.000254	.001599	.012336	.0006358	.0009248	.001111
%RSD	.8621012	638.9164	1418.082	35.30166	95.44819	10.50086
#1	-.029145	-.000724	.013257	.0022132	.0003199	-.009321
#2	-.029649	.001532	-.009517	.0021213	.0020278	-.011415
#3	-.029449	-.001558	-.006349	.0010689	.0005590	-.011013

Elem	Sr4077
Units	ppm
Avg	.0000057
Stddev	.0000681
%RSD	1203.122
#1	.0000576
#2	.0000308
#3	-.000071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7003.152	101641.7	8026.256	5395.558	8716.076
Stddev	11.631	278.3	39.942	19.243	8.560
%RSD	.1660846	.2738388	.4976408	.3566521	.0982067
#1	6993.975	101439.5	8064.345	5373.458	8706.730
#2	6999.249	101959.1	7984.689	5408.606	8723.534
#3	7016.233	101526.5	8029.736	5404.610	8717.965

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3234-01 Acquired: 10/1/2025 17:46:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001860**	**-.002738**	**.0028861**	**.0021098**	**.0047236**	**2.003745**	**.0444284**
Stddev	.001302	.000362	.0000736	.0033681	.0017040	.009577	.0000708
%RSD	69.99138	13.24065	2.548792	159.6419	36.07419	.4779308	.1593282
#1	-.000610	-.003026	.0029668	-.001668	.0064685	2.001383	.0444340
#2	-.001762	-.002856	.0028228	.004798	.0030637	1.995571	.0443549
#3	-.003207	-.002331	.0028686	.003200	.0046387	2.014282	.0444962

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000218**	**.0001444**	**5.032520**	**.0330850**	**.0012487**	**.0185868**	**2.620035**
Stddev	.0000343	.0000786	.024847	.0000804	.0000999	.0001943	.020135
%RSD	157.1465	54.46411	.4937300	.2429736	7.996494	1.045138	.7684885
#1	.0000271	.0000665	5.013762	.0331595	.0012512	.0186673	2.599616
#2	.0000531	.0001429	5.023098	.0329998	.0013473	.0187280	2.639873
#3	-.000015	.0002237	5.060700	.0330958	.0011476	.0183653	2.620616

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1048362**	**1.317502**	**.0045912**	**-.000737**	**3.380476**	**.0068474**	**.1956766**
Stddev	.0002625	.022674	.0002244	.000361	.004301	.0017094	.0003680
%RSD	.2503927	1.720959	4.886858	48.95206	.1272308	24.96384	.1880878
#1	.1051235	1.342191	.0043536	-.000425	3.376004	.0085420	.1955784
#2	.1046089	1.312703	.0047995	-.000654	3.380841	.0051236	.1953676
#3	.1047762	1.297612	.0046206	-.001132	3.384583	.0068767	.1960838

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.908405**	**.0002636**	**.0028111**	**-.026544**	**.1058098**	**3.751882**	**.2316400**
Stddev	.038272	.0001957	.0001628	.000539	.0017078	.022889	.0007833
%RSD	2.005461	74.24316	5.791993	2.029675	1.614037	.6100561	.3381520
#1	1.896696	.0003799	.0029430	-.027155	.1052369	3.726410	.2308548
#2	1.877355	.0003733	.0026291	-.026137	.1044620	3.758512	.2316438
#3	1.951164	.0000377	.0028612	-.026341	.1077304	3.770724	.2324213

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3234-01 Acquired: 10/1/2025 17:46:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.661252	-.005423	.0139534
Stddev	.009983	.002967	.0000361
%RSD	.6009403	54.71465	.2586840
#1	1.672166	-.002029	.0139129
#2	1.659010	-.006716	.0139651
#3	1.652581	-.007526	.0139823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6961.642	102512.8	8097.835	5408.407	8577.367
Stddev	5.591	348.9	37.528	13.308	4.452
%RSD	.0803142	.3403617	.4634316	.2460613	.0519071
#1	6956.391	102316.6	8056.865	5401.428	8577.423
#2	6967.521	102306.1	8106.097	5400.041	8581.791
#3	6961.016	102915.6	8130.544	5423.753	8572.887

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3234-02 Acquired: 10/1/2025 17:50:36 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.0053189**	**-.002180**	**.0332576**	**.0018025**	**.0059658**	**14.87337**
Stddev	.0003510	.001231	.0005232	.0022235	.0018441	.04165
%RSD	6.599125	56.43629	1.573152	123.3537	30.91038	.2800250
#1	.0055411	-.003085	.0336697	-.000301	.0047239	14.82878
#2	.0049142	-.002677	.0334342	.004129	.0080847	14.88006
#3	.0055013	-.000779	.0326690	.001579	.0050888	14.91127

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1663253**	**.0008704**	**.0000854**	**7.673016**	**.0356622**	**.0077044**
Stddev	.0014433	.0000515	.0000787	.015322	.0004007	.0002604
%RSD	.8677742	5.912315	92.19453	.1996821	1.123485	3.379753
#1	.1679420	.0008313	-.000005	7.668406	.0355410	.0079707
#2	.1658676	.0009287	.000129	7.660529	.0353361	.0074503
#3	.1651663	.0008512	.000133	7.690113	.0361094	.0076923

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0379855**	**18.66007**	**.4970937**	**5.625031**	**.0166927**	**.0000915**
Stddev	.0001894	.11082	.0002996	.063000	.0003231	.0005709
%RSD	.4986353	.5938965	.0602656	1.119995	1.935788	623.8164
#1	.0377815	18.75794	.4973532	5.575920	.0164731	-.000561
#2	.0380193	18.53974	.4967658	5.603109	.0165413	.000337
#3	.0381558	18.68254	.4971620	5.696063	.0170638	.000498

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.134932**	**.0390696**	**.2118316**	**5.829030**	**-.001039**	**.0038493**
Stddev	.055267	.0019647	.0010218	.053651	.001527	.0000270
%RSD	.7746041	5.028606	.4823580	.9204055	146.9662	.7000704
#1	7.198528	.0394120	.2117789	5.889297	.000560	.0038768
#2	7.098537	.0408405	.2108372	5.811316	-.001196	.0038481
#3	7.107730	.0369562	.2128787	5.786476	-.002482	.0038230

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3234-02 Acquired: 10/1/2025 17:50:36 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.023219	.8983836	F 19.85294	.6411703	1.825246	.0111298
Stddev	.000179	.0013121	.09420	.0034105	.008223	.0009614
%RSD	.7690926	.1460480	.4744813	.5319152	.4504959	8.638592
#1	-.023418	.8970290	19.92037	.6448242	1.834700	.0114144
#2	-.023165	.8996486	19.74531	.6380713	1.821279	.0100581
#3	-.023073	.8984732	19.89314	.6406154	1.819759	.0119167

Elem	Sr4077
Units	ppm
Avg	.0155916
Stddev	.0001427
%RSD	.9153758
#1	.0154433
#2	.0157281
#3	.0156034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7002.524	101990.3	8318.066	5407.102	8468.061
Stddev	34.428	127.9	41.283	31.062	40.944
%RSD	.4916515	.1253578	.4963087	.5744721	.4835098
#1	6981.551	101842.7	8362.514	5371.381	8439.235
#2	7042.257	102064.0	8280.922	5422.159	8514.927
#3	6983.763	102064.2	8310.762	5427.767	8450.021

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-01 Acquired: 10/1/2025 17:54:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001286**	**-.000215**	**.0030245**	**.0063351**	**-.001863**	**.0841642**	**.0020268**
Stddev	.001088	.000643	.0015733	.0026930	.000301	.0062950	.0012126
%RSD	84.59906	299.0340	52.01919	42.50905	16.15786	7.479418	59.82522
#1	-.002244	-.000673	.0046280	.0032385	-.001728	.0913569	.0024993
#2	-.001509	-.000492	.0029621	.0081290	-.001654	.0814764	.0029321
#3	-.000104	.000520	.0014833	.0076379	-.002208	.0796592	.0006492

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000044**	**.0000034**	**4.639912**	**.0005755**	**.0078180**	**.0055107**	**1.386241**
Stddev	.000087	.0000219	.008694	.0002013	.0001319	.0001716	.017547
%RSD	200.4438	642.2420	.1873637	34.97991	1.687547	3.114543	1.265831
#1	.000057	.0000078	4.629991	.0008072	.0076953	.0053817	1.405235
#2	-.000101	.0000228	4.646201	.0004767	.0079576	.0057055	1.370634
#3	-.000087	-.000020	4.643543	.0004428	.0078011	.0054448	1.382856

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0198250**	**1.847779**	**.0090961**	**-.000533**	**14.69652**	**.0008003**	**.0389504**
Stddev	.0003638	.021645	.0001848	.000285	.09462	.0021670	.0002025
%RSD	1.835305	1.171431	2.031300	53.44885	.6438046	270.7734	.5198485
#1	.0195863	1.827005	.0092917	-.000723	14.76899	.0006147	.0391274
#2	.0196449	1.870202	.0089246	-.000205	14.73110	.0030542	.0389942
#3	.0202438	1.846129	.0090719	-.000671	14.58948	-.001268	.0387296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8415215**	**-.006163**	**.0006285**	**-.014364**	**.0007548**	**6.171810**	**.0095020**
Stddev	.0459577	.000269	.0000990	.000593	.0020649	.021783	.0001414
%RSD	5.461258	4.362333	15.74795	4.128467	273.5565	.3529357	1.488213
#1	.7889175	-.005860	.0005199	-.013683	-.000286	6.195076	.0093394
#2	.8617633	-.006256	.0007135	-.014767	-.000583	6.168454	.0095700
#3	.8738837	-.006374	.0006523	-.014643	.003133	6.151900	.0095965

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-01 Acquired: 10/1/2025 17:54:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.341995	-.009574	.0241473
Stddev	.060733	.001111	.0000758
%RSD	.9576367	11.60511	.3139447
#1	6.271905	-.010855	.0240931
#2	6.379059	-.008874	.0242340
#3	6.375021	-.008994	.0241150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6908.168	100617.6	8279.681	5339.972	8438.457
Stddev	12.928	276.1	14.640	23.819	9.612
%RSD	.1871373	.2743628	.1768161	.4460573	.1139021
#1	6897.557	100518.9	8296.529	5358.779	8428.133
#2	6904.382	100404.5	8272.450	5347.949	8447.147
#3	6922.566	100929.5	8270.064	5313.188	8440.092

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02 Acquired: 10/1/2025 17:58:58 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000108**	**.0006179**	**.0020719**	**.0026859**	**-.000817**	**.0712971**	**.0017930**
Stddev	.000940	.0025063	.0014878	.0018027	.000560	.0113214	.0012257
%RSD	871.6956	405.6259	71.80749	67.11725	68.46482	15.87915	68.36160
#1	.000915	-.002274	.0035081	.0043901	-.000314	.0756654	.0027341
#2	-.000933	.002155	.0005375	.0007987	-.001420	.0584423	.0022378
#3	-.000306	.001973	.0021701	.0028689	-.000719	.0797835	.0004070

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**-.000009**	**4.633889**	**.0007022**	**.0077572**	**.0082926**	**.1026658**
Stddev	.000077	.000028	.006038	.0002042	.0000639	.0002153	.0058310
%RSD	107.9029	317.1568	.1303009	29.08364	.8238605	2.596724	5.679581
#1	-.000009	-.000039	4.626969	.0004909	.0076908	.0082925	.1083214
#2	-.000048	-.000004	4.636609	.0008986	.0078182	.0080773	.1030023
#3	-.000158	.000017	4.638088	.0007171	.0077627	.0085080	.0966739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0230999**	**1.849438**	**.0090430**	**-.000422**	**15.15632**	**-.000536**	**.0346345**
Stddev	.0007706	.004174	.0001469	.000626	.13886	.001933	.0005871
%RSD	3.336055	.2256832	1.624529	148.3133	.9161546	360.3733	1.695056
#1	.0224806	1.844623	.0090767	-.001138	15.31666	-.002730	.0341110
#2	.0228561	1.851661	.0088822	-.000148	15.07639	.000202	.0352692
#3	.0239629	1.852030	.0091701	.000020	15.07592	.000918	.0345234

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8816631**	**-.006384**	**.0004695**	**-.027913**	**.0004878**	**6.234546**	**.0095929**
Stddev	.0259335	.000550	.0001838	.000556	.0004866	.037323	.0011186
%RSD	2.941427	8.615938	39.15033	1.990634	99.76135	.5986550	11.66105
#1	.8701460	-.006166	.0003587	-.028551	.0010493	6.225561	.0091497
#2	.9113603	-.007009	.0006817	-.027648	.0001887	6.275541	.0087638
#3	.8634828	-.005976	.0003682	-.027539	.0002254	6.202534	.0108652

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02 Acquired: 10/1/2025 17:58:58 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.117567	-.010784	.0257004
Stddev	.025200	.001637	.0002471
%RSD	.4119259	15.18449	.9613134
#1	6.097026	-.011950	.0258945
#2	6.145686	-.011489	.0254223
#3	6.109988	-.008912	.0257842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6989.176	98971.11	8292.154	5323.148	8616.172
Stddev	8.623	236.99	38.489	11.974	12.729
%RSD	.1233776	.2394494	.4641664	.2249333	.1477328
#1	6984.921	98920.36	8295.273	5336.909	8607.026
#2	6999.100	98763.61	8328.990	5315.114	8630.709
#3	6983.508	99229.36	8252.201	5317.420	8610.780

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02DUP Acquired: 10/1/2025 18:03:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001247**	**.0003478**	**.0013088**	**.0021403**	**-.001478**	**.0756248**	**.0022149**
Stddev	.001396	.0013684	.0018771	.0026075	.001893	.0112862	.0007857
%RSD	111.9261	393.4892	143.4262	121.8297	128.0471	14.92394	35.47060
#1	-.000117	.0015857	-.000695	.0051508	-.003482	.0879552	.0013955
#2	-.000817	-.001122	.001594	.0006719	.000281	.0658061	.0022875
#3	-.002807	.000579	.003027	.0005981	-.001234	.0731130	.0029618

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000102**	**.0000092**	**4.542840**	**.0005344**	**.0077116**	**.0080168**	**.0841973**
Stddev	.000040	.0000246	.019839	.0002533	.0002904	.0001414	.0064272
%RSD	39.51673	266.7389	.4367046	47.40225	3.766094	1.764274	7.633539
#1	-.000056	-.000012	4.558308	.0004927	.0077586	.0078849	.0913398
#2	-.000117	.000036	4.520473	.0003046	.0074006	.0079995	.0823717
#3	-.000132	.000004	4.549739	.0008060	.0079758	.0081661	.0788803

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0197140**	**1.843763**	**.0088265**	**-.000305**	**14.40923**	**.0021003**	**.0333505**
Stddev	.0002875	.037285	.0000722	.000589	.05044	.0027961	.0003657
%RSD	1.458183	2.022213	.8183917	193.0279	.3500230	133.1313	1.096526
#1	.0200373	1.854212	.0088795	-.000867	14.36679	.0033017	.0331415
#2	.0196171	1.874709	.0088557	.000308	14.39591	-.001096	.0331374
#3	.0194875	1.802369	.0087442	-.000357	14.46499	.004095	.0337728

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8001940**	**-.006561**	**.0004947**	**-.028627**	**.0003784**	**5.878866**	**.0119774**
Stddev	.0283221	.000612	.0001881	.000233	.0016478	.042500	.0007310
%RSD	3.539402	9.335005	38.03430	.8135463	435.4587	.7229306	6.102887
#1	.7733943	-.005872	.0006847	-.028843	.0018540	5.839399	.0111373
#2	.7973620	-.006769	.0004909	-.028380	.0006809	5.923859	.0124677
#3	.8298257	-.007042	.0003085	-.028658	-.001400	5.873341	.0123273

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02DUP Acquired: 10/1/2025 18:03:14 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.040437	-.011360	.0251747
Stddev	.037571	.000432	.0000848
%RSD	.6219843	3.799900	.3366378
#1	6.064922	-.010988	.0251872
#2	6.059211	-.011258	.0252525
#3	5.997180	-.011833	.0250844

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6887.673	100778.9	8074.460	5388.615	8413.846
Stddev	7.025	97.9	39.486	22.081	9.006
%RSD	.1019930	.0971263	.4890258	.4097773	.1070398
#1	6895.395	100876.0	8031.499	5375.263	8419.283
#2	6881.661	100680.2	8082.712	5376.481	8403.450
#3	6885.963	100780.5	8109.168	5414.103	8418.804

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02LX5 Acquired: 10/1/2025 18:07:29 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000428**	**-.001741**	**.0002285**	**.0006245**	**-.002490**	**.0260889**	**-.001918**
Stddev	.001982	.002754	.0008335	.0004629	.000906	.0046406	.000757
%RSD	463.2967	158.2265	364.8285	74.11390	36.40502	17.78773	39.44834
#1	-.000108	-.002039	-.000359	.0011205	-.002271	.0275785	-.001050
#2	.001375	-.004333	.001182	.0002041	-.001712	.0208863	-.002436
#3	-.002550	.001151	-.000138	.0005489	-.003485	.0298017	-.002269

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000031**	**.0000199**	**1.014512**	**-.000071**	**.0015377**	**.0013470**	**.0237795**
Stddev	.0000505	.0000312	.014352	.000099	.0001124	.0004991	.0020530
%RSD	1638.989	156.5895	1.414663	140.0089	7.312473	37.05273	8.633396
#1	.0000316	.0000543	1.021384	.000019	.0014984	.0019003	.0214210
#2	-.000055	-.000006	.998016	-.000054	.0016645	.0012101	.0247519
#3	.000033	.000012	1.024136	-.000177	.0014502	.0009307	.0251657

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057390**	**.4399854**	**.0016386**	**-.000501**	**3.880079**	**.0012162**	**.0069870**
Stddev	.0003149	.0087684	.0005746	.000200	.023125	.0011997	.0000731
%RSD	5.487321	1.992878	35.06771	39.83234	.5959951	98.63698	1.046198
#1	.0061005	.4339288	.0017499	-.000423	3.856859	.0008635	.0069026
#2	.0055242	.4359871	.0010165	-.000352	3.903108	.0025527	.0070277
#3	.0055922	.4500402	.0021494	-.000728	3.880272	.0002325	.0070307

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8038346**	**-.012121**	**.0002936**	**-.006180**	**.0006013**	**1.300555**	**.0032230**
Stddev	.0193591	.001042	.0002660	.000472	.0014469	.016187	.0007183
%RSD	2.408346	8.594781	90.61950	7.642392	240.6349	1.244636	22.28773
#1	.7967391	-.010974	.0005817	-.005991	-.000533	1.303348	.0040500
#2	.8257403	-.013008	.0002415	-.006717	.000107	1.283154	.0028655
#3	.7890243	-.012381	.0000574	-.005831	.002231	1.315165	.0027536

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02LX5 Acquired: 10/1/2025 18:07:29 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.370018	.0068453	.0056246
Stddev	.015594	.0025328	.0000534
%RSD	1.138202	37.00032	.9491384
#1	1.386539	.0070057	.0056862
#2	1.367958	.0092940	.0055920
#3	1.355557	.0042361	.0055956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6888.159	101587.0	8232.824	5396.006	8458.370
Stddev	9.828	397.6	23.619	50.162	7.761
%RSD	.1426756	.3913915	.2868933	.9296112	.0917524
#1	6894.300	101493.7	8237.494	5383.029	8457.935
#2	6876.824	102022.9	8207.218	5451.382	8450.836
#3	6893.353	101244.3	8253.759	5353.609	8466.339

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02MS Acquired: 10/1/2025 18:11:48 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8030453**	**1.928811**	**.9403116**	**1.987378**	**.8021767**	**2.019705**	**.1961358**
Stddev	.0013543	.057276	.0014229	.009441	.0034501	.015175	.0026862
%RSD	.1686445	2.969478	.1513239	.4750579	.4300935	.7513380	1.369551
#1	.8014815	1.973044	.9387354	1.981463	.8020941	2.004144	.1991963
#2	.8038361	1.864114	.9406981	1.982405	.7987687	2.034462	.1950421
#3	.8038184	1.949274	.9415013	1.998266	.8056674	2.020510	.1941689

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1915057**	**.1900201**	**5.684903**	**.4005188**	**.2034152**	**.3124493**	**2.999279**
Stddev	.0011140	.0004054	.022672	.0004383	.0004653	.0007251	.035887
%RSD	.5817022	.2133326	.3988039	.1094261	.2287500	.2320781	1.196521
#1	.1920549	.1895619	5.675586	.4005771	.2029230	.3117114	3.039236
#2	.1902237	.1903323	5.668374	.4000544	.2034746	.3124756	2.988810
#3	.1922384	.1901661	5.710748	.4009251	.2038479	.3131609	2.969791

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2249337**	**3.805360**	**.4965319**	**.0702428**	**17.58172**	**.3015092**	**.2346998**
Stddev	.0026447	.033112	.0009631	.0004450	.19410	.0044775	.0004037
%RSD	1.175756	.8701450	.1939666	.6335076	1.103983	1.485012	.1720214
#1	.2279799	3.843278	.4955138	.0707227	17.77055	.3013350	.2343882
#2	.2235968	3.782142	.4974285	.0701618	17.59188	.2971214	.2345554
#3	.2232244	3.790662	.4966535	.0698438	17.38275	.3060712	.2351559

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.28933**	**.2647636**	**.4274400**	**.6812464**	**.1980865**	**6.893245**	**5.600560**
Stddev	.07616	.0012175	.0017515	.0005364	.0016350	.024392	.027183
%RSD	.7402179	.4598440	.4097767	.0787347	.8254117	.3538550	.4853595
#1	10.37609	.2649953	.4260785	.6812799	.1999734	6.893007	5.622685
#2	10.25839	.2634469	.4268256	.6806940	.1970862	6.917755	5.570216
#3	10.23351	.2658486	.4294160	.6817652	.1972001	6.868973	5.608778

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02MS Acquired: 10/1/2025 18:11:48 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.638824	.1856832	.2185451
Stddev	.027983	.0014904	.0025822
%RSD	.4215046	.8026451	1.181522
#1	6.659831	.1873402	.2214148
#2	6.607058	.1852569	.2164094
#3	6.649583	.1844523	.2178111

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6762.177	101203.8	8143.666	5310.217	8151.051
Stddev	8.149	562.7	34.831	20.794	15.916
%RSD	.1205091	.5560417	.4277087	.3915804	.1952672
#1	6769.656	101008.4	8103.907	5321.320	8155.307
#2	6753.492	100764.7	8158.293	5286.228	8133.440
#3	6763.382	101838.1	8168.800	5323.102	8164.407

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02MSD Acquired: 10/1/2025 18:15:46 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7896765	1.770948	.9275159	1.956025	.7978276	2.038118	.1915351
Stddev	.0014910	.040899	.0012143	.001550	.0014428	.014361	.0001116
%RSD	.1888109	2.309468	.1309235	.0792370	.1808416	.7046404	.0582609
#1	.7912244	1.818157	.9269458	1.957389	.7990093	2.054654	.1914063
#2	.7895555	1.746215	.9266916	1.956347	.7982537	2.030932	.1915985
#3	.7882498	1.748473	.9289104	1.954339	.7962197	2.028768	.1916006

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1887033	.1868919	5.527247	.4023649	.2006648	.3080073	3.014542
Stddev	.0013783	.0002630	.010591	.0016308	.0002619	.0004492	.038478
%RSD	.7304145	.1407197	.1916215	.4053146	.1305033	.1458349	1.276412
#1	.1879127	.1867261	5.527045	.4042279	.2004248	.3080584	3.056571
#2	.1879025	.1867544	5.516758	.4016713	.2006256	.3084288	3.006004
#3	.1902949	.1871951	5.537938	.4011956	.2009441	.3075348	2.981050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2170890	3.801943	.4884025	.0697109	17.04213	.2992845	.2341042
Stddev	.0001681	.007946	.0004956	.0004168	.09965	.0007825	.0016148
%RSD	.0774134	.2090004	.1014767	.5978513	.5847362	.2614686	.6897800
#1	.2172732	3.792970	.4886648	.0701813	17.13617	.2999319	.2334639
#2	.2169440	3.804771	.4878308	.0693879	17.05255	.2984149	.2359410
#3	.2170497	3.808088	.4887118	.0695634	16.93768	.2995069	.2329078

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.29438	.2597966	.4267338	.6870466	.1949563	6.904257	5.394663
Stddev	.05205	.0020581	.0000827	.0016082	.0010775	.060283	.009856
%RSD	.5056594	.7921758	.0193785	.2340741	.5526860	.8731223	.1826965
#1	10.35080	.2598047	.4267425	.6887709	.1943822	6.969947	5.406009
#2	10.24822	.2577345	.4266471	.6867816	.1961993	6.891353	5.389765
#3	10.28412	.2618505	.4268118	.6855874	.1942874	6.851472	5.388216

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02MSD Acquired: 10/1/2025 18:15:46 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.181564	.1815745	.2144013
Stddev	.009687	.0008185	.0004168
%RSD	.1567032	.4507970	.1944137
#1	6.191928	.1824547	.2139327
#2	6.180024	.1814326	.2147306
#3	6.172739	.1808362	.2145406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6895.341	100944.2	8305.765	5303.706	8376.392
Stddev	12.240	612.3	29.185	39.450	14.493
%RSD	.1775152	.6066224	.3513793	.7438159	.1730226
#1	6906.123	100269.8	8311.394	5292.098	8379.737
#2	6897.864	101097.2	8331.725	5271.361	8388.920
#3	6882.035	101465.5	8274.175	5347.657	8360.519

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02A Acquired: 10/1/2025 18:19:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7863157	1.663628	.9350114	1.928918	.3552962	.7778725	.0760369
Stddev	.1230484	.152696	.1445514	.283643	.0971650	.1827664	.0156178
%RSD	15.64872	9.178503	15.45985	14.70477	27.34759	23.49568	20.53979
#1	.6601837	1.489518	.7843001	1.634910	.2567089	.5940120	.0603686
#2	.7927340	1.726592	.9482407	1.950931	.3582061	.7800805	.0761384
#3	.9060293	1.774774	1.072493	2.200914	.4509735	.9595249	.0916038

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1207018	.1898891	4.996885	.2514259	.2034813	.3139075	1.143201
Stddev	.0131241	.0293783	.093137	.0288087	.0303425	.0474240	.285266
%RSD	10.87314	15.47129	1.863904	11.45814	14.91169	15.10764	24.95324
#1	.1075039	.1591495	4.907134	.2214155	.1718907	.2644507	.855262
#2	.1208506	.1928336	4.990448	.2540025	.2061542	.3182751	1.148624
#3	.1337508	.2176843	5.093074	.2788599	.2323989	.3589966	1.425716

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0959451	2.563188	.4950123	.0438122	15.58344	.1134456	.1580029
Stddev	.0176981	.174781	.0748292	.0049036	.28342	.0296271	.0136945
%RSD	18.44607	6.818905	15.11664	11.19227	1.818741	26.11565	8.667241
#1	.0789219	2.387299	.4168907	.0386438	15.29903	.0850231	.1436293
#2	.0946649	2.565425	.5021017	.0443939	15.58544	.1111681	.1594809
#3	.1142485	2.736840	.5660445	.0483991	15.86586	.1441457	.1708984

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.665458	.1627564	.1848902	.2680843	.0186717	6.153359	5.413382
Stddev	.779589	.0173860	.0506603	.0836382	.0069981	.051533	.795696
%RSD	16.70981	10.68219	27.40020	31.19847	37.48002	.8374700	14.69868
#1	3.911127	.1456042	.1331318	.1826193	.0120011	6.096195	4.576587
#2	4.617184	.1622981	.1871629	.2718662	.0180570	6.196251	5.503204
#3	5.468062	.1803670	.2343759	.3497674	.0259568	6.167632	6.160355

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3237-02A Acquired: 10/1/2025 18:19:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.127671	.0623288	.0969774
Stddev	.063142	.0170528	.0171604
%RSD	1.030446	27.35942	17.69525
#1	6.174272	.0458321	.0802077
#2	6.152932	.0612663	.0962211
#3	6.055809	.0798880	.1145035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6879.803	101380.2	8189.650	5336.954	8391.700
Stddev	16.356	395.4	43.261	23.551	20.748
%RSD	.2377364	.3900600	.5282431	.4412855	.2472498
#1	6898.271	101762.2	8139.865	5362.183	8414.412
#2	6867.149	100972.6	8210.987	5315.549	8373.738
#3	6873.988	101405.7	8218.098	5333.130	8386.951

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169925TB Acquired: 10/1/2025 18:23:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000529**	**-.001046**	**-.000993**	**.0069993**	**-.000124**	**.0077223**	**-.002664**
Stddev	.001476	.003592	.001023	.0011820	.001620	.0069481	.002022
%RSD	279.0825	343.2287	103.0767	16.88809	1307.700	89.97438	75.89663
#1	.000912	-.002233	.000157	.0081335	-.001917	.0055816	-.002021
#2	-.002037	.002988	-.001805	.0070898	.001235	.0154888	-.004929
#3	-.000461	-.003895	-.001331	.0057746	.000310	.0020965	-.001042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000074**	**-.000012**	**.0445757**	**.0008953**	**-.000094**	**-.000163**	**.0131636**
Stddev	.000020	.000076	.0138039	.0000811	.000319	.000237	.0129318
%RSD	27.42691	607.6629	30.96729	9.062704	339.4181	145.9479	98.23916
#1	-.000059	.000018	.0475956	.0008248	-.000376	-.000413	.0124417
#2	-.000098	-.000098	.0566196	.0009840	.000253	-.000134	.0264412
#3	-.000066	.000044	.0295118	.0008770	-.000159	.000059	.0006079

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037996**	**.0040973**	**.0008504**	**-.000897**	**363.2422**	**.0003066**	**.0015710**
Stddev	.0005542	.0195776	.0005832	.000083	5.2703	.0037702	.0002300
%RSD	14.58652	477.8129	68.56957	9.304948	1.450908	1229.553	14.63922
#1	.0031598	.0257763	.0013868	-.000822	368.4446	.0017548	.0014470
#2	.0041321	-.001192	.0002297	-.000883	357.9065	-.003973	.0018364
#3	.0041069	-.012292	.0009349	-.000987	363.3756	.003138	.0014296

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.126586**	**-.009079**	**.0004643**	**-.027712**	**.0018180**	**.0206119**	**.0067737**
Stddev	.049369	.000811	.0001242	.000093	.0008814	.0110508	.0007177
%RSD	39.00044	8.932439	26.74482	.3357759	48.48331	53.61391	10.59520
#1	-.107330	-.008500	.0003988	-.027637	.0016068	.0326434	.0068949
#2	-.182682	-.008731	.0006076	-.027683	.0010614	.0109147	.0074230
#3	-.089747	-.010006	.0003866	-.027817	.0027858	.0182775	.0060031

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169925TB Acquired: 10/1/2025 18:23:44 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0624854	-.011233	.0001833
Stddev	.0002609	.000483	.0000868
%RSD	.4175403	4.296338	47.36845
#1	.0626048	-.011713	.0002830
#2	.0621861	-.010748	.0001244
#3	.0626652	-.011239	.0001425

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6526.590	95248.19	7990.777	5096.881	7460.732
Stddev	4.544	352.14	35.523	16.016	6.453
%RSD	.0696166	.3697056	.4445487	.3142277	.0864864
#1	6522.035	94857.95	8013.479	5079.178	7461.643
#2	6531.122	95344.42	8009.012	5110.365	7466.681
#3	6526.614	95542.22	7949.840	5101.101	7453.872

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV07 Acquired: 10/1/2025 18:28:12 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.038934**	**4.945348**	**4.965848**	**5.051668**	**5.044479**	**9.922547**	**10.01490**
Stddev	.010257	.134797	.011232	.004905	.002646	.035689	.07649
%RSD	.2035502	2.725728	.2261753	.0970940	.0524559	.3596739	.7637577
#1	5.027145	4.807318	4.958658	5.046005	5.047432	9.901018	10.02493
#2	5.045811	4.952067	4.960095	5.054456	5.042324	9.963743	10.08588
#3	5.043845	5.076660	4.978790	5.054543	5.043681	9.902879	9.93390

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2460722**	**2.502923**	**24.94987**	**1.004758**	**2.496454**	**1.261309**	**5.105331**
Stddev	.0007476	.004285	.03210	.003634	.002893	.000853	.015570
%RSD	.3038022	.1711951	.1286541	.3616829	.1159004	.0676245	.3049792
#1	.2454957	2.501618	24.91287	1.004976	2.495325	1.260788	5.117155
#2	.2469169	2.499442	24.96646	1.008278	2.494295	1.260845	5.087689
#3	.2458040	2.507708	24.97027	1.001019	2.499741	1.262293	5.111147

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.507819**	**24.79152**	**2.502507**	**1.252919**	**25.06404**	**2.510539**	**2.524328**
Stddev	.006890	.10183	.002117	.001550	.32473	.004871	.003298
%RSD	.2747219	.4107454	.0846108	.1236932	1.295618	.1940303	.1306385
#1	2.512240	24.69736	2.502203	1.254684	25.43886	2.511919	2.528072
#2	2.499881	24.89959	2.500558	1.251780	24.88579	2.514571	2.523059
#3	2.511335	24.77762	2.504760	1.252294	24.86747	2.505126	2.521854

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.08441**	**4.921952**	**5.032696**	**5.011422**	**5.002420**	**5.002752**	**5.101320**
Stddev	.10445	.022454	.006337	.010663	.011766	.014433	.007331
%RSD	.4004203	.4562098	.1259103	.2127809	.2352115	.2884940	.1437118
#1	26.17597	4.896547	5.029513	4.999689	5.004717	4.988408	5.093302
#2	25.97065	4.939145	5.028583	5.014057	4.989674	5.002575	5.107680
#3	26.10662	4.930163	5.039994	5.020521	5.012868	5.017272	5.102979

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV07 Acquired: 10/1/2025 18:28:12 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.991960**	**4.903129**	**5.018728**
Stddev	.021735	.014740	.012523
%RSD	.4354095	.3006232	.2495166
#1	4.969712	4.908103	5.005396
#2	4.993024	4.886545	5.020547
#3	5.013144	4.914738	5.030242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6599.970**	**95228.05**	**8074.867**	**5132.147**	**7635.798**
Stddev	14.328	166.99	38.120	29.255	17.282
%RSD	.2170951	.1753534	.4720789	.5700394	.2263237
#1	6609.416	95360.78	8115.370	5110.803	7644.736
#2	6607.010	95040.56	8039.691	5120.143	7646.780
#3	6583.484	95282.80	8069.540	5165.495	7615.878

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB07 Acquired: 10/1/2025 18:32:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002214**	**.0013004**	**.0002759**	**.0009143**	**-.000191**	**.0114125**
Stddev	.002563	.0016625	.0009447	.0024609	.000871	.0072264
%RSD	115.7619	127.8449	342.3668	269.1454	454.9721	63.31971
#1	-.000091	.0031529	.0013571	.0037466	.000769	.0087814
#2	-.005061	.0008100	-.000391	-.000302	-.000413	.0195858
#3	-.001490	-.000062	-.000139	-.000702	-.000930	.0058703

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017716**	**-.000055**	**.0000350**	**-.003964**	**.0000833**	**-.000130**
Stddev	.0012441	.000043	.0000536	.008927	.0000352	.000109
%RSD	70.22391	78.65869	152.8354	225.1900	42.23963	83.46184
#1	.0018295	-.000090	-.000005	.005665	.0001222	-.000006
#2	.0004996	-.000007	.000096	-.011965	.0000539	-.000206
#3	.0029858	-.000069	.000014	-.005593	.0000736	-.000179

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000426**	**.0080202**	**.0007424**	**.0087095**	**.0001363**	**-.000788**
Stddev	.000328	.0052071	.0004828	.0117439	.0002662	.000514
%RSD	77.13172	64.92484	65.03182	134.8406	195.3613	65.21356
#1	-.000056	.0066940	.0008796	.0143417	.0000375	-.000768
#2	-.000683	.0137622	.0002058	.0165765	-.000066	-.000285
#3	-.000537	.0036044	.0011418	-.004790	.000438	-.001312

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.199756**	**.0002394**	**-.000299**	**-.300885**	**-.009102**	**.0004813**
Stddev	.023289	.0026785	.000144	.013087	.000871	.0003516
%RSD	11.65875	1118.871	48.02745	4.349551	9.571654	73.05695
#1	-.181344	.0011628	-.000340	-.313574	-.008491	.0008605
#2	-.191987	.0023340	-.000418	-.287433	-.008714	.0001660
#3	-.225936	-.002779	-.000139	-.301648	-.010099	.0004174

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB07 Acquired: 10/1/2025 18:32:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.028787	.0024410	.0065233	.0000962	.0000398	-.009933
Stddev	.000226	.0008901	.0077898	.0013026	.0010244	.000152
%RSD	.7849848	36.46313	119.4146	1354.107	2571.065	1.529190
#1	-.028538	.0015679	.0137311	.0012300	-.001015	-.009766
#2	-.028979	.0024079	-.001741	-.001327	.001031	-.009970
#3	-.028843	.0033471	.007580	.000385	.000104	-.010063

Elem	Sr4077
Units	ppm
Avg	.0000171
Stddev	.0000415
%RSD	243.2230
#1	-.000031
#2	.000044
#3	.000037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6859.783	96839.05	7786.252	5276.020	8473.592
Stddev	7.413	220.63	24.936	11.074	15.452
%RSD	.1080708	.2278308	.3202551	.2098863	.1823572
#1	6851.223	96645.54	7811.923	5283.850	8457.275
#2	6864.106	97079.31	7784.712	5280.859	8475.499
#3	6864.019	96792.30	7762.122	5263.350	8488.002

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3255-02 Acquired: 10/1/2025 18:36:43 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007236	-.003505	-.000311	-.006366	-.006305	.0069544	-.036299
Stddev	.0003230	.000784	.000184	.000488	.000536	.0014467	.000070
%RSD	44.63999	22.36838	59.30033	7.662330	8.494527	20.80233	.1931708
#1	.0004060	-.003362	-.000271	-.006778	-.006872	.0078828	-.036313
#2	.0007130	-.002802	-.000511	-.006493	-.005807	.0052875	-.036223
#3	.0010518	-.004351	-.000149	-.005828	-.006237	.0076928	-.036361

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001009	.0001760	.0018997	-.000531	.0000832	-.000987	-.000946
Stddev	.0000339	.0000270	.0067805	.000149	.0000435	.000026	.000755
%RSD	33.59176	15.31711	356.9300	28.08200	52.27199	2.647534	79.84677
#1	.0001294	.0002053	-.002000	-.000616	.0000358	-.000963	-.000130
#2	.0001100	.0001703	.009729	-.000618	.0000926	-.001015	-.001088
#3	.0000634	.0001523	-.002030	-.000359	.0001213	-.000984	-.001620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004828	.0358406	.0005782	-.000302	-.291776	.0020994	-.000950
Stddev	.0002843	.0100122	.0001215	.000627	.008265	.0007242	.000092
%RSD	58.88964	27.93531	21.01049	207.7330	2.832666	34.49414	9.735049
#1	.0007853	.0346831	.0005982	.000259	-.286019	.0027072	-.000853
#2	.0002211	.0264575	.0006886	-.000979	-.288062	.0012982	-.001038
#3	.0004421	.0463813	.0004480	-.000186	-.301246	.0022929	-.000957

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.104254	-.014577	-.000144	-.029499	-.000738	-.032674	-.003146
Stddev	.011156	.000266	.000072	.000084	.001336	.004700	.000193
%RSD	10.70086	1.825150	50.00105	.2864035	181.0125	14.38311	6.130926
#1	-.102645	-.014879	-.000173	-.029466	-.001431	-.031441	-.003225
#2	-.116127	-.014471	-.000062	-.029595	-.001584	-.028714	-.002926
#3	-.093989	-.014380	-.000197	-.029436	.000802	-.037867	-.003287

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3255-02 Acquired: 10/1/2025 18:36:43 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.008258**	**-.011250**	**.0000497**
Stddev	.000220	.000684	.0000450
%RSD	2.658406	6.080884	90.68530
#1	-.008452	-.011324	.0000540
#2	-.008301	-.010532	.0000924
#3	-.008020	-.011894	.0000026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**22054.75**	**292952.3**	**18840.36**	**15904.97**	**29414.39**
Stddev	316.20	13183.1	942.35	1451.12	374.71
%RSD	1.433696	4.500080	5.001754	9.123684	1.273912
#1	21725.02	306006.1	19574.78	14427.68	29014.56
#2	22083.83	279643.6	17777.81	17328.42	29471.08
#3	22355.41	293207.3	19168.50	15958.82	29757.53

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-04 Acquired: 10/1/2025 18:41:07 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005604	-.003570	-.000054	-.005982	-.005926	.0071644	-.035439
Stddev	.0005138	.000137	.000330	.000241	.000199	.0039219	.000749
%RSD	91.68086	3.849768	606.4788	4.031559	3.366455	54.74183	2.112169
#1	.0003531	-.003697	.000109	-.006087	-.005848	.0114012	-.035674
#2	.0011454	-.003587	.000162	-.005706	-.006153	.0036610	-.036041
#3	.0001826	-.003424	-.000434	-.006153	-.005777	.0064309	-.034601

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000785	.0001675	-.002849	-.000484	.0000648	-.001022	-.001651
Stddev	.0000173	.0000093	.010126	.000134	.0000711	.000088	.002602
%RSD	22.03024	5.545005	355.4629	27.73167	109.6298	8.637521	157.6546
#1	.0000709	.0001571	.004076	-.000584	.0001424	-.000931	-.004648
#2	.0000983	.0001750	.001848	-.000331	.0000492	-.001026	.000034
#3	.0000663	.0001704	-.014471	-.000536	.0000029	-.001107	-.000338

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006417	.0297695	.0006207	-.000700	-.299575	.0036234	-.000956
Stddev	.0000650	.0137849	.0000453	.000612	.003941	.0004973	.000045
%RSD	10.13756	46.30545	7.302148	87.43126	1.315411	13.72580	4.751227
#1	.0007021	.0169611	.0006178	-.000839	-.296180	.0041967	-.000971
#2	.0005728	.0279894	.0005768	-.001230	-.298649	.0033086	-.000905
#3	.0006502	.0443580	.0006673	-.000030	-.303896	.0033648	-.000991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.108075	-.013736	-.000213	-.029600	.0001726	-.036130	-.002569
Stddev	.039044	.000236	.000059	.000025	.0005111	.004678	.000269
%RSD	36.12657	1.717444	27.80302	.0861278	296.1206	12.94860	10.45209
#1	-.150024	-.013526	-.000200	-.029628	-.000047	-.032355	-.002281
#2	-.101408	-.013691	-.000278	-.029578	.000757	-.034671	-.002614
#3	-.072794	-.013991	-.000161	-.029594	-.000192	-.041364	-.002813

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-04 Acquired: 10/1/2025 18:41:07 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.008048**	**-.011403**	**.0000060**
Stddev	.000969	.001440	.0000550
%RSD	12.04587	12.62589	916.4324
#1	-.008283	-.009901	-.000046
#2	-.008879	-.012772	.000063
#3	-.006983	-.011536	.000001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21038.86**	**287376.5**	**16075.42**	**16516.31**	**28198.02**
Stddev	892.83	19962.3	278.92	855.53	1025.78
%RSD	4.243727	6.946395	1.735057	5.179931	3.637778
#1	20019.92	284055.0	16316.25	17476.54	27024.70
#2	21684.22	269283.3	15769.82	16237.17	28925.11
#3	21412.43	308791.2	16140.20	15835.20	28644.24

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08 Acquired: 10/1/2025 18:45:31 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001918**	**.0017838**	**.1080340**	**.0058565**	**.0021243**	**.0881727**	**.1218010**
Stddev	.000604	.0007542	.0026173	.0025296	.0015531	.0064501	.0015341
%RSD	31.47304	42.28355	2.422644	43.19312	73.11458	7.315351	1.259531
#1	-.002216	.0021736	.1050510	.0034848	.0004596	.0831685	.1212538
#2	-.002315	.0022633	.1091053	.0085189	.0023786	.0954521	.1235337
#3	-.001223	.0009144	.1099456	.0055659	.0035345	.0858975	.1206155

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**.0010954**	**59.89200**	**.0024410**	**.0008035**	**.0113909**	**.0194784**
Stddev	.000081	.0000091	.08482	.0002417	.0001581	.0002585	.0072379
%RSD	146.7464	.8291267	.1416249	9.902961	19.67233	2.269209	37.15869
#1	-.000103	.0010967	59.93182	.0026916	.0007281	.0116812	.0111898
#2	.000038	.0010857	59.79459	.0024221	.0009851	.0113061	.0245510
#3	-.000100	.0011037	59.94958	.0022093	.0006973	.0111856	.0226944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0823123**	**1.364444**	**.0022703**	**-.000475**	**288.5526**	**.0039461**	**.2145777**
Stddev	.0006485	.044736	.0002880	.000336	2.9327	.0038021	.0009922
%RSD	.7878619	3.278695	12.68742	70.77935	1.016355	96.35098	.4623730
#1	.0816529	1.332584	.0019827	-.000245	290.1675	.0041219	.2148705
#2	.0823346	1.345160	.0025587	-.000861	290.3230	.0076572	.2134720
#3	.0829493	1.415588	.0022693	-.000319	285.1674	.0000591	.2153904

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.700825**	**-.002009**	**.0005416**	**-.028855**	**-.000918**	**1.059851**	**.0377041**
Stddev	.073266	.000955	.0003264	.000426	.000503	.001125	.0006335
%RSD	4.307700	47.55598	60.27050	1.476760	54.82873	.1061290	1.680199
#1	1.678885	-.001586	.0007707	-.028386	-.000355	1.059813	.0382867
#2	1.782554	-.001338	.0006864	-.029218	-.001072	1.058745	.0370297
#3	1.641035	-.003102	.0001678	-.028960	-.001326	1.060994	.0377958

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08 Acquired: 10/1/2025 18:45:31 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8161081	-.017293	.3058214
Stddev	.0071931	.001396	.0007092
%RSD	.8813919	8.074455	.2319137
#1	.8078733	-.015891	.3053450
#2	.8192860	-.018683	.3054827
#3	.8211649	-.017306	.3066365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6369.830	93220.21	7808.356	5035.937	7248.224
Stddev	5.434	291.29	53.742	19.506	3.949
%RSD	.0853057	.3124805	.6882613	.3873432	.0544831
#1	6367.349	93049.74	7794.294	5020.549	7251.365
#2	6366.080	93054.34	7867.731	5029.386	7243.791
#3	6376.062	93556.56	7763.044	5057.875	7249.516

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08DUP Acquired: 10/1/2025 18:49:54 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002458**	**-.000244**	**.1348336**	**.0023926**	**.0020697**	**.1052288**	**.1516550**
Stddev	.002520	.000744	.0008236	.0008607	.0029677	.0136355	.0022457
%RSD	102.4903	304.6295	.6108348	35.97473	143.3893	12.95799	1.480817
#1	-.005366	.000273	.1343465	.0032697	.0037350	.1174896	.1519068
#2	-.000910	.000091	.1343698	.0015492	-.001357	.0905437	.1492939
#3	-.001100	-.001097	.1357845	.0023589	.003831	.1076531	.1537642

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000074**	**.0013990**	**75.53328**	**.0031372**	**.0007899**	**.0144342**	**.0194542**
Stddev	.000074	.0000434	.29953	.0002746	.0002214	.0000969	.0027059
%RSD	99.70284	3.104988	.3965551	8.754827	28.02296	.6711466	13.90919
#1	-.000047	.0014435	75.81986	.0033807	.0008730	.0145059	.0223579
#2	-.000158	.0013970	75.22229	.0028395	.0009576	.0144727	.0170031
#3	-.000018	.0013567	75.55768	.0031913	.0005390	.0143240	.0190017

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1034375**	**1.695889**	**.0026993**	**-.000510**	**367.4537**	**.0026047**	**.2721139**
Stddev	.0004047	.016866	.0001209	.000670	2.1737	.0025757	.0005156
%RSD	.3912896	.9945390	4.478696	131.1657	.5915564	98.88476	.1894994
#1	.1031384	1.698482	.0027247	-.001284	367.2939	.0008861	.2723621
#2	.1032761	1.711310	.0028055	-.000129	369.7028	.0055662	.2724586
#3	.1038981	1.677877	.0025678	-.000119	365.3643	.0013620	.2715211

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.310614**	**.0011884**	**.0005809**	**-.028959**	**-.000755**	**1.348983**	**.0452561**
Stddev	.040494	.0002602	.0003512	.000008	.001563	.017369	.0016074
%RSD	1.752502	21.89350	60.44476	.0288570	207.0347	1.287551	3.551876
#1	2.329366	.0009003	.0009826	-.028949	-.000925	1.329982	.0452413
#2	2.264143	.0012586	.0003319	-.028965	.000886	1.352927	.0468709
#3	2.338332	.0014063	.0004283	-.028962	-.002225	1.364041	.0436562

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08DUP Acquired: 10/1/2025 18:49:54 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.011795	-.017298	.3853723
Stddev	.002466	.002352	.0028960
%RSD	.2437233	13.59746	.7514676
#1	1.014611	-.014662	.3879189
#2	1.010018	-.019182	.3822221
#3	1.010757	-.018049	.3859759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6393.607	91281.14	7710.220	4987.487	7248.275
Stddev	24.744	176.45	45.654	12.634	15.080
%RSD	.3870126	.1932988	.5921261	.2533159	.2080493
#1	6421.951	91482.61	7683.173	5001.707	7265.402
#2	6382.558	91154.13	7762.931	4983.200	7242.430
#3	6376.313	91206.69	7684.556	4977.554	7236.991

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08LX5 Acquired: 10/1/2025 18:54:18 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001184**	**.0001413**	**.0223133**	**-.000514**	**-.001254**	**.0265295**	**.0255471**
Stddev	.001533	.0011573	.0006866	.002311	.001791	.0131316	.0009875
%RSD	129.5442	818.7780	3.077245	449.8325	142.8730	49.49802	3.865527
#1	-.000352	-.000143	.0230266	.001339	-.000134	.0400684	.0265897
#2	-.000246	.001414	.0216568	-.003104	-.000308	.0256729	.0254254
#3	-.002953	-.000847	.0222565	.000223	-.003319	.0138472	.0246260

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000026**	**.0001962**	**13.12777**	**.0002883**	**.0002803**	**.0020256**	**.0090413**
Stddev	.000044	.0000529	.07993	.0003105	.0001251	.0002858	.0089230
%RSD	168.5024	26.98509	.6088411	107.7230	44.64958	14.10997	98.69140
#1	-.000004	.0001354	13.15341	.0000920	.0004238	.0022924	.0052483
#2	-.000077	.0002323	13.19173	.0006463	.0001941	.0020605	.0026414
#3	.000002	.0002208	13.03817	.0001266	.0002230	.0017240	.0192341

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189415**	**.3206159**	**.0004123**	**-.000626**	**59.34234**	**.0018158**	**.0448477**
Stddev	.0005215	.0096667	.0002541	.000267	.74780	.0060303	.0002317
%RSD	2.753501	3.015024	61.63332	42.61072	1.260145	332.1087	.5166840
#1	.0189406	.3316702	.0001423	-.000318	59.99383	.0035303	.0448415
#2	.0194634	.3164296	.0004478	-.000777	59.50737	-.004886	.0450824
#3	.0184203	.3137481	.0006468	-.000783	58.52581	.006803	.0446191

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.360945**	**-.011438**	**.0000131**	**-.006274**	**-.000063**	**.2260899**	**.0073214**
Stddev	.024839	.000353	.0000876	.000249	.002496	.0211390	.0011071
%RSD	1.825098	3.086419	669.8981	3.960929	3935.821	9.349797	15.12141
#1	1.380606	-.011833	.0000829	-.006359	-.002934	.2367751	.0066861
#2	1.369200	-.011153	.0000416	-.006470	.001604	.2017414	.0066783
#3	1.333031	-.011328	-.000085	-.005995	.001140	.2397533	.0085997

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08LX5 Acquired: 10/1/2025 18:54:18 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1657598	.0164516	.0667144
Stddev	.0036127	.0024653	.0005868
%RSD	2.179465	14.98549	.8794970
#1	.1680865	.0192162	.0671823
#2	.1675950	.0144812	.0669048
#3	.1615979	.0156574	.0660561

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6689.877	95894.38	7859.813	5163.986	7937.507
Stddev	17.616	153.25	18.943	30.659	31.429
%RSD	.2633250	.1598160	.2410168	.5937141	.3959606
#1	6676.285	95728.24	7880.131	5129.457	7915.463
#2	6683.567	96030.22	7842.637	5174.483	7923.562
#3	6709.779	95924.68	7856.671	5188.017	7973.496

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08MS Acquired: 10/1/2025 18:58:34 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7919719	1.706621	1.093699	1.999276	.7826245	1.988198	.3813059
Stddev	.0018136	.028078	.004648	.002483	.0023810	.022698	.0015211
%RSD	.2289927	1.645235	.4249931	.1242012	.3042317	1.141659	.3989209
#1	.7901909	1.678860	1.092766	1.997069	.7846578	1.970080	.3807819
#2	.7938163	1.735005	1.089588	2.001965	.7832105	2.013659	.3830197
#3	.7919086	1.705997	1.098743	1.998795	.7800053	1.980854	.3801160

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1833446	.1937095	99.93220	.3904147	.1932360	.2961396	2.952927
Stddev	.0005389	.0005097	.39227	.0014235	.0004134	.0002128	.027217
%RSD	.2939156	.2631189	.3925348	.3646078	.2139582	.0718615	.9216935
#1	.1827225	.1942055	99.91841	.3888690	.1931280	.2963505	2.959896
#2	.1836424	.1931872	100.3312	.3907035	.1928873	.2959249	2.975982
#3	.1836688	.1937358	99.5470	.3916717	.1936927	.2961434	2.922903

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3168237	4.039010	.4820992	.0706433	482.5582	.2863858	.5571812
Stddev	.0030323	.019956	.0009903	.0005939	1.5730	.0033138	.0020652
%RSD	.9570984	.4940907	.2054063	.8406838	.3259672	1.157119	.3706546
#1	.3162144	4.061803	.4832426	.0700166	484.2081	.2839503	.5587384
#2	.3201143	4.024677	.4815179	.0711977	481.0755	.2901594	.5548385
#3	.3141422	4.030551	.4815371	.0707158	482.3911	.2850475	.5579668

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.35255	.2573256	.4082834	.6675770	.1861771	2.677354	6.064645
Stddev	.05754	.0003147	.0003001	.0005377	.0023620	.022581	.015779
%RSD	.4309057	.1222806	.0734982	.0805448	1.268674	.8434142	.2601834
#1	13.31062	.2569716	.4083046	.6681956	.1836008	2.687993	6.066929
#2	13.41815	.2575734	.4079733	.6673136	.1882404	2.692650	6.079158
#3	13.32890	.2574318	.4085724	.6672217	.1866902	2.651418	6.047848

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08MS Acquired: 10/1/2025 18:58:34 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.384556	.1610063	.6873300
Stddev	.004548	.0015507	.0036232
%RSD	.3284586	.9631267	.5271355
#1	1.384865	.1608203	.6867710
#2	1.388941	.1595570	.6912002
#3	1.379861	.1626416	.6840188

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6298.343	90353.91	7857.215	4838.473	7096.540
Stddev	16.187	288.71	39.400	11.274	19.403
%RSD	.2569990	.3195305	.5014469	.2330174	.2734096
#1	6299.007	90673.14	7901.801	4851.401	7089.050
#2	6314.187	90111.10	7827.085	4830.686	7118.572
#3	6281.834	90277.48	7842.760	4833.330	7081.999

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08MSD Acquired: 10/1/2025 19:02:42 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7901437	1.687207	1.126519	2.004537	.7805962	2.025528	.4246518
Stddev	.0033690	.024025	.003566	.007273	.0015921	.013868	.0011407
%RSD	.4263834	1.423972	.3165706	.3628515	.2039564	.6846597	.2686219
#1	.7862630	1.675398	1.130367	1.998305	.7793665	2.011044	.4255520
#2	.7918492	1.714852	1.123326	2.012529	.7800276	2.038684	.4233689
#3	.7923191	1.671372	1.125863	2.002777	.7823945	2.026855	.4250344

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1876989	.1940879	119.2588	.3885560	.1928781	.2986131	2.940622
Stddev	.0005411	.0003266	.2516	.0010326	.0006410	.0006341	.009079
%RSD	.2882800	.1682589	.2109619	.2657559	.3323349	.2123551	.3087334
#1	.1882218	.1944424	119.5493	.3887826	.1936146	.2988152	2.933712
#2	.1877334	.1937993	119.1172	.3874289	.1924458	.2979026	2.937248
#3	.1871413	.1940220	119.1100	.3894565	.1925740	.2991216	2.950904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3484655	4.443842	.4840192	.0712454	581.5678	.2906497	.6242572
Stddev	.0005031	.029816	.0008018	.0001522	.9492	.0035549	.0015998
%RSD	.1443655	.6709582	.1656477	.2136844	.1632200	1.223077	.2562791
#1	.3485638	4.417878	.4845193	.0711372	582.6384	.2942077	.6229840
#2	.3489122	4.437241	.4830944	.0714195	581.2364	.2906434	.6237346
#3	.3479205	4.476405	.4844439	.0711796	580.8288	.2870979	.6260530

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.17633	.2650326	.4058002	.6674008	.1884596	2.987514	6.164410
Stddev	.04610	.0025408	.0007683	.0017861	.0020264	.020597	.031580
%RSD	.3252165	.9586827	.1893196	.2676237	1.075225	.6894317	.5122940
#1	14.19397	.2679657	.4063565	.6682850	.1906505	3.011297	6.163362
#2	14.12401	.2635058	.4049236	.6685724	.1880756	2.975498	6.196500
#3	14.21101	.2636264	.4061205	.6653451	.1866527	2.975746	6.133367

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08MSD Acquired: 10/1/2025 19:02:42 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.646436	.1665473	.7922340
Stddev	.005172	.0013725	.0016211
%RSD	.3141116	.8240791	.2046228
#1	1.650485	.1678866	.7927422
#2	1.648214	.1651439	.7904197
#3	1.640610	.1666116	.7935401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6237.646	88968.82	7604.227	4830.136	6976.027
Stddev	18.733	28.47	23.992	20.004	22.612
%RSD	.3003207	.0319950	.3155135	.4141474	.3241322
#1	6218.271	88961.39	7584.288	4848.088	6950.095
#2	6255.664	88944.81	7597.539	4833.747	6991.627
#3	6239.003	89000.27	7630.854	4808.572	6986.359

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08A Acquired: 10/1/2025 19:06:51 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7136966	1.558948	.9446317	1.771261	.4589466	.5631350	.1692328
Stddev	.1378076	.295607	.1589872	.337141	.1264803	.1536800	.0134586
%RSD	19.30898	18.96195	16.83060	19.03396	27.55882	27.29008	7.952708
#1	.5731427	1.266443	.7806813	1.428467	.3351080	.4202926	.1573425
#2	.7193640	1.552840	.9550729	1.782867	.4538191	.5433719	.1665119
#3	.8485830	1.857562	1.098141	2.102449	.5879127	.7257404	.1838439

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0966521	.1772609	59.70929	.1954615	.1782201	.2712350	.7363649
Stddev	.0138523	.0337375	.27194	.0293736	.0343363	.0504705	.2363110
%RSD	14.33213	19.03267	.4554317	15.02781	19.26622	18.60768	32.09156
#1	.0832675	.1424664	59.98368	.1663044	.1429565	.2197938	.5143424
#2	.0957599	.1794849	59.43988	.1950333	.1801566	.2732358	.7099992
#3	.1109289	.2098313	59.70432	.2250469	.2115471	.3206754	.9847530

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1316818	1.857525	.4435282	.0365555	285.7014	.0779511	.3100561
Stddev	.0138611	.144742	.0849817	.0047684	1.1526	.0254139	.0135587
%RSD	10.52623	7.792174	19.16039	13.04427	.4034158	32.60240	4.372977
#1	.1191397	1.748946	.3558380	.0317323	285.5447	.0519303	.2967276
#2	.1293417	1.801777	.4492327	.0366672	286.9244	.0792116	.3096069
#3	.1465640	2.021851	.5255140	.0412671	284.6353	.1027113	.3238338

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.952508	.1318214	.2374998	.3707041	.0218122	1.168465	5.459053
Stddev	.718110	.0173601	.0670719	.1152970	.0061023	.036922	1.037672
%RSD	14.49992	13.16940	28.24082	31.10218	27.97632	3.159907	19.00827
#1	4.263365	.1153610	.1712583	.2572025	.0162440	1.126094	4.391297
#2	4.897715	.1301437	.2358688	.3671933	.0208570	1.185551	5.522094
#3	5.696445	.1499594	.3053724	.4877164	.0283358	1.193749	6.463766

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: Q3256-08A Acquired: 10/1/2025 19:06:51 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7745593	.0357598	.3496391
Stddev	.0042405	.0137637	.0132353
%RSD	.5474676	38.48913	3.785422
#1	.7794538	.0233833	.3384936
#2	.7719942	.0333136	.3461560
#3	.7722298	.0505826	.3642676

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6539.907	91888.37	7673.188	5048.301	7488.723
Stddev	15.132	126.79	53.862	7.248	18.161
%RSD	.2313832	.1379798	.7019518	.1435655	.2425062
#1	6537.304	91998.37	7626.214	5046.793	7482.134
#2	6526.244	91749.70	7731.977	5056.184	7474.777
#3	6556.171	91917.04	7661.372	5041.926	7509.259

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169934BL Acquired: 10/1/2025 19:11:01 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.000184	-.000419	-.000621	-.001039	-.001537	.0086355
Stddev	.000787	.002562	.000437	.000618	.002028	.0059014
%RSD	428.4450	611.5310	70.31334	59.46441	131.9477	68.33864
#1	-.000338	.002309	-.001081	-.001718	-.003795	.0030599
#2	.000669	-.000791	-.000572	-.000886	-.000940	.0080306
#3	-.000881	-.002775	-.000212	-.000512	.000126	.0148161

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002016	.0000349	-.000006	.0122002	.0001710	.0001056
Stddev	.000473	.0001038	.000037	.0095153	.0003691	.0002269
%RSD	23.45246	297.6397	642.2004	77.99308	215.8607	214.8136
#1	-.001839	.0000531	-.000019	.0201923	-.000105	-.000073
#2	-.001657	-.000077	-.000035	.0016745	.000590	.000030
#3	-.002552	.000128	.000036	.0147339	.000027	.000361

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000458	.0085808	.0001948	.0183571	-.000160	-.000694
Stddev	.000280	.0045595	.0007266	.0212368	.000010	.000767
%RSD	61.08564	53.13619	373.0528	115.6874	6.160366	110.6025
#1	-.000577	.0034713	-.000643	-.005006	-.000164	-.001567
#2	-.000139	.0122351	.000653	.036491	-.000167	-.000388
#3	-.000660	.0100360	.000574	.023586	-.000149	-.000127

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.575835	.0009190	-.000394	F 1.612828	-.013853	.0000416
Stddev	.104220	.0038847	.000212	.010333	.000817	.0000355
%RSD	4.046067	422.7061	53.88955	.6406599	5.901079	85.43591
#1	2.663120	.0043487	-.000273	1.616462	-.013787	.0000253
#2	2.603940	-.003300	-.000638	1.601170	-.013071	.0000171
#3	2.460444	.001708	-.000269	1.620854	-.014702	.0000824

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169934BL Acquired: 10/1/2025 19:11:01 Type: Unk
Method: 6010-200.7 NEW(v240) 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	-.000569	.0007186	-.003175	-.000388	.0065653	F .0296098
Stddev	.000656	.0001425	.012764	.000381	.0019593	.0022121
%RSD	115.2455	19.82972	401.9931	98.14563	29.84408	7.470988
#1	-.000228	.0006448	.011560	-.000762	.0045849	.0318275
#2	-.001325	.0006281	-.010806	-.000401	.0085029	.0295985
#3	-.000154	.0008828	-.010280	-.000001	.0066080	.0274033

Elem	Sr4077
Units	ppm
Avg	.0000545
Stddev	.0001426
%RSD	261.3421
#1	.0000089
#2	-.000060
#3	.000214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6849.219	98367.64	7952.305	5313.213	8493.045
Stddev	5.361	93.07	32.886	32.227	8.443
%RSD	.0782724	.0946132	.4135359	.6065371	.0994124
#1	6853.172	98441.49	7988.403	5308.420	8494.316
#2	6851.369	98263.10	7924.049	5283.651	8500.781
#3	6843.117	98398.33	7944.465	5347.568	8484.039

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169934BS Acquired: 10/1/2025 19:15:21 Type: Unk
Method: 6010-200.7 NEW(v240) 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	**.7722361**	**1.799336**	**.9394530**	**1.963576**	**.8145163**	**1.936190**
Stddev	.0029559	.060966	.0021909	.005695	.0025339	.012288
%RSD	.3827730	3.388271	.2332143	.2900086	.3110956	.6346582
#1	.7704570	1.868093	.9376748	1.965987	.8121438	1.942472
#2	.7706030	1.751869	.9387837	1.957073	.8171855	1.944067
#3	.7756483	1.778047	.9419005	1.967670	.8142197	1.922031

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1871095**	**.1962763**	**.1899811**	**.9850983**	**.3877453**	**.1921578**
Stddev	.0022060	.0009153	.0001955	.0056514	.0019176	.0004126
%RSD	1.179003	.4663430	.1029281	.5736925	.4945532	.2146960
#1	.1895425	.1967333	.1901753	.9907582	.3862102	.1925773
#2	.1852396	.1952224	.1899838	.9794554	.3898948	.1917526
#3	.1865464	.1968730	.1897843	.9850814	.3871308	.1921434

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3013910**	**2.874515**	**.1971442**	**1.941302**	**.4812135**	**.0726599**
Stddev	.0001546	.035387	.0012355	.005584	.0003132	.0004933
%RSD	.0513130	1.231057	.6266934	.2876384	.0650788	.6788918
#1	.3013761	2.880431	.1974924	1.945927	.4815019	.0720991
#2	.3012444	2.906571	.1981682	1.935098	.4808804	.0730269
#3	.3015526	2.836543	.1957720	1.942879	.4812584	.0728536

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.467639**	**.2907762**	**.1991071**	**9.996267**	**.2778986**	**.4057079**
Stddev	.059381	.0033383	.0003088	.145568	.0037686	.0000378
%RSD	1.712446	1.148048	.1550686	1.456224	1.356091	.0093232
#1	3.452825	.2946273	.1994076	9.909883	.2802514	.4057151
#2	3.533025	.2887055	.1991230	10.16433	.2735520	.4056670
#3	3.417067	.2889960	.1987907	9.91459	.2798924	.4057416

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: PB169934BS Acquired: 10/1/2025 19:15:21 Type: Unk
Method: 6010-200.7 NEW(v240) 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	.6902831	.1958387	.8508335	5.630510	F .0008908	.2020811
Stddev	.0034751	.0008367	.0218072	.039853	.0006406	.0017450
%RSD	.5034358	.4272239	2.563034	.7078113	71.90816	.8634998
#1	.6940931	.1952185	.8564565	5.672033	.0004915	.2034319
#2	.6872874	.1967903	.8692785	5.592568	.0016297	.2027003
#3	.6894688	.1955071	.8267655	5.626930	.0005513	.2001109

Elem	Sr4077
Units	ppm
Avg	.1896474
Stddev	.0009280
%RSD	.4893387
#1	.1907051
#2	.1892674
#3	.1889697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6770.975	98241.33	8069.695	5218.549	8194.629
Stddev	5.478	476.53	42.097	28.257	15.932
%RSD	.0809094	.4850583	.5216735	.5414779	.1944256
#1	6777.041	98523.16	8046.829	5225.594	8176.235
#2	6769.496	97691.14	8118.277	5187.436	8203.524
#3	6766.388	98509.71	8043.979	5242.618	8204.129

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV08 Acquired: 10/1/2025 19:19:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.929421**	**4.621366**	**4.856902**	**4.959056**	**4.935732**	**9.843121**	**9.707388**
Stddev	.005275	.107744	.011736	.007539	.003341	.020950	.032885
%RSD	.1070159	2.331432	.2416389	.1520179	.0676989	.2128361	.3387624
#1	4.927062	4.739491	4.852983	4.965015	4.939530	9.840687	9.685347
#2	4.925736	4.596122	4.847628	4.950582	4.933241	9.865182	9.745186
#3	4.935464	4.528486	4.870097	4.961572	4.934426	9.823495	9.691629

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2476654**	**2.448608**	**24.56115**	**.9922140**	**2.441671**	**1.234000**	**4.867098**
Stddev	.0027561	.002927	.09203	.0042237	.004432	.001835	.048287
%RSD	1.112831	.1195517	.3746913	.4256848	.1815300	.1486652	.9921189
#1	.2489881	2.449125	24.58169	.9946306	2.441308	1.234182	4.852784
#2	.2495109	2.445457	24.64117	.9946745	2.437431	1.232082	4.827587
#3	.2444973	2.451243	24.46059	.9873370	2.446273	1.235737	4.920924

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.450664**	**24.48041**	**2.443409**	**1.232678**	**23.75984**	**2.473529**	**2.496997**
Stddev	.007469	.18897	.005462	.003781	.09194	.013862	.008582
%RSD	.3047680	.7719038	.2235256	.3067155	.3869595	.5604254	.3436859
#1	2.449747	24.47688	2.442413	1.232576	23.65479	2.459864	2.502308
#2	2.458549	24.67111	2.438514	1.236509	23.82566	2.487581	2.501587
#3	2.443696	24.29323	2.449300	1.228950	23.79907	2.473142	2.487096

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.74938**	**4.940977**	**4.936459**	**4.857610**	**4.899073**	**4.873139**	**4.877008**
Stddev	.17249	.042424	.002808	.013065	.022156	.036085	.016708
%RSD	.6969301	.8586220	.0568829	.2689633	.4522488	.7404800	.3425853
#1	24.55854	4.956911	4.939521	4.859591	4.899435	4.835281	4.893879
#2	24.79542	4.973128	4.934004	4.843668	4.921046	4.876995	4.860468
#3	24.89417	4.892893	4.935851	4.869573	4.876738	4.907141	4.876679

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCV08 Acquired: 10/1/2025 19:19:23 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.813672**	**4.834296**	**4.879319**
Stddev	.017205	.019984	.050914
%RSD	.3574215	.4133753	1.043464
#1	4.830391	4.824311	4.924884
#2	4.796019	4.857304	4.888708
#3	4.814605	4.821272	4.824363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6649.010**	**94799.85**	**7872.878**	**5053.416**	**7737.320**
Stddev	18.582	219.06	68.215	20.228	20.923
%RSD	.2794714	.2310724	.8664518	.4002849	.2704108
#1	6670.420	94986.19	7854.064	5040.658	7759.783
#2	6637.084	94558.54	7816.045	5042.851	7733.790
#3	6639.525	94854.81	7948.525	5076.739	7718.387

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB08 Acquired: 10/1/2025 19:23:24 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000309**	**.0010024**	**.0002887**	**.0023659**	**-.001388**	**.0093025**
Stddev	.001892	.0022771	.0002827	.0023239	.001916	.0020629
%RSD	613.1839	227.1703	97.93959	98.22284	138.0445	22.17544
#1	-.001372	.0012794	.0004048	.0021218	-.002512	.0094739
#2	.001876	-.001401	.0004949	.0048021	-.002478	.0071592
#3	-.001429	.003128	-.000034	.0001737	.000825	.0112742

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008760**	**-.000085**	**-.000004**	**-.006711**	**.0003321**	**-.000135**
Stddev	.0018080	.000038	.000028	.004266	.0003004	.000061
%RSD	206.3778	44.41057	684.5237	63.56210	90.45981	45.05861
#1	.0002192	-.000125	-.000025	-.003349	.0005932	-.000185
#2	-.000512	-.000051	.000027	-.005275	.0003994	-.000154
#3	.002921	-.000078	-.000015	-.011509	.0000038	-.000067

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000523**	**.0071733**	**.0010611**	**-.000608**	**-.000021**	**-.000321**
Stddev	.000318	.0047092	.0002768	.033068	.000319	.000522
%RSD	60.87716	65.64905	26.08786	5438.466	1526.753	162.7947
#1	-.000811	.0067085	.0009840	-.022772	.000035	.000227
#2	-.000181	.0120977	.0013682	-.016452	.000266	-.000813
#3	-.000576	.0027137	.0008310	.037400	-.000364	-.000377

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.201238**	**.0035830**	**-.000020**	**-.233610**	**-.010285**	**.0007922**
Stddev	.011809	.0028566	.000109	.017300	.000948	.0001702
%RSD	5.868415	79.72638	536.6933	7.405334	9.220919	21.48253
#1	-.189927	.0044259	.000093	-.251965	-.011281	.0007775
#2	-.200296	.0059233	-.000028	-.231258	-.009393	.0009693
#3	-.213490	.0003998	-.000126	-.217606	-.010180	.0006299

Reviewed By:jaswal
On:10/7/2025 12:04:45 AM
Inst Id :P4
LB :LB137389

Sample Name: CCB08 Acquired: 10/1/2025 19:23:24 Type: Unk
Method: 6010-200.7 NEW(v240) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.028747	.0002143	.0019336	.0013158	-.000142	-.008070
Stddev	.000563	.0010181	.0164222	.0011786	.001731	.001545
%RSD	1.957235	475.0353	849.2951	89.56797	1219.724	19.14689
#1	-.028846	-.000651	.0079676	.0021407	-.001957	-.008553
#2	-.029254	.001336	.0144852	-.000034	.001490	-.009316
#3	-.028142	-.000042	-.016652	.001841	.000042	-.006341

Elem	Sr4077
Units	ppm
Avg	.0001030
Stddev	.0000614
%RSD	59.60448
#1	.0001122
#2	.0000375
#3	.0001592

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7025.286	102929.2	8052.009	5440.963	8764.446
Stddev	17.199	210.3	18.064	15.780	6.513
%RSD	.2448174	.2042715	.2243453	.2900182	.0743126
#1	7005.771	103142.5	8072.314	5454.720	8757.516
#2	7031.854	102923.1	8045.993	5444.431	8765.380
#3	7038.233	102722.1	8037.720	5423.738	8770.442

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169911

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : SOLID

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 09/30/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 09/30/2025 **Time :** 15:32 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKS

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6180
LFS-2	0.25	M6181
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	3.00	M6158
1:1 HCL	5.00	MP87148
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/30/25 16:32	JLS met dig	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB169911

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
~~PB169870TB~~	Std. 20107/2025	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~
PB169870TB	PB169870TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB169911BL	PBW911	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB169911BS	LCS911	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	3
Q3187-04	228	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3199-01	ELZ-25-000117	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3199-02	ELZ-25-00098	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
Q3199-03	ELZ-25-000111	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
Q3199-04	ELZ-25-000110	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
Q3199-05	ELZ-25-000124	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q3199-06	ELZ-25-000125	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
Q3199-07	ELZ-25-00097	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
Q3207-01	DRUM#1- POLY SHEETING	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
Q3207-02	DRUM#2 PPE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
Q3207-03	DRUM#3 PAINT CHIPS	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
Q3215-02	WASTE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
Q3230-03	WALL-PROBE-BRICK-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
Q3231-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	17
Q3231-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q3231-12	WC-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q3231-16	WC-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
Q3232-02	CONC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	21
Q3233-01	0926-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q3233-01MS	0926-01MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	24
Q3233-01MSD	0926-01MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	25
Q3233-01DUP	0926-01DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB169870

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB169870TB	LEB870	20	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q3187-04	228	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q3199-01	ELZ-25-000117	02	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q3199-02	ELZ-25-00098	03	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q3199-03	ELZ-25-000111	04	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q3199-04	ELZ-25-000110	05	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q3199-05	ELZ-25-000124	06	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q3199-06	ELZ-25-000125	07	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q3199-07	ELZ-25-00097	08	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q3207-01	Drum#1- Poly Sheeting	09	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q3207-02	Drum#2 PPE	10	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q3207-03	Drum#3 Paint Chips	11	100.02	2000	N/A	N/A	N/A	9.1	1.5	T-2
Q3215-02	WASTE	12	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q3230-03	WALL-PROBE-BRICK-1	13	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-2
Q3231-04	WC-1	14	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q3231-08	WC-2	15	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2
Q3231-12	WC-3	16	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-2
Q3231-16	WC-4	17	100.03	2000	N/A	N/A	N/A	8.6	1.5	T-2
Q3232-02	CONC-1	18	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-2
Q3233-01	0926-01	19	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-2

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 # LB137374

Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	09/30/25 12:51		Jaswal	OK
2	S1	S1	CAL2	09/30/25 12:56		Jaswal	OK
3	S2	S2	CAL3	09/30/25 13:00		Jaswal	OK
4	S3	S3	CAL4	09/30/25 13:04		Jaswal	OK
5	S4	S4	CAL5	09/30/25 13:08		Jaswal	OK
6	S5	S5	CAL6	09/30/25 13:12		Jaswal	OK
7	ICV01	ICV01	ICV	09/30/25 13:16		Jaswal	OK
8	LLICV01	LLICV01	LLICV	09/30/25 13:22		Jaswal	OK
9	ICB01	ICB01	ICB	09/30/25 13:32		Jaswal	OK
10	CRI01	CRI01	CRDL	09/30/25 13:39		Jaswal	OK
11	ICSA01	ICSA01	ICSA	09/30/25 13:44		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	09/30/25 13:56		Jaswal	OK
13	ICSADL	ICSADL	ICSA	09/30/25 14:00		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	09/30/25 14:04		Jaswal	OK
15	CCV01	CCV01	CCV	09/30/25 14:08		Jaswal	OK
16	CCB01	CCB01	CCB	09/30/25 14:18		Jaswal	OK
17	LR-1	LR-1	HIGH STD	09/30/25 14:22		Jaswal	OK
18	LR-2	LR-2	HIGH STD	09/30/25 14:26		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137374

Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

19	Q3177-01DL	EME-TS12-01DL	SAM	09/30/25 14:54	25x for S	Jaswal	Confirms
20	Q3177-02DL	EME-TS13-01DL	SAM	09/30/25 14:58	40x for S	Jaswal	Confirms
21	Q3177-03DL	EME-TS14-02DL	SAM	09/30/25 15:03	40x for S	Jaswal	Confirms
22	Q3179-01DL	EME-TS14-01DL	SAM	09/30/25 15:07	40x for S	Jaswal	Confirms
23	Q3179-01DUPDL	EME-TS14-01DUPDL	DUP	09/30/25 15:11	40x for S	Jaswal	Confirms
24	LR-3	LR-3	HIGH STD	09/30/25 15:31		Jaswal	OK
25	CCV02	CCV02	CCV	09/30/25 15:41		Jaswal	OK
26	CCB02	CCB02	CCB	09/30/25 15:50		Jaswal	OK
27	Q3179-01LDL	EME-TS14-01LDL	SD	09/30/25 16:02	Not Required	Jaswal	Not Ok
28	Q3179-02DL	EME-TS14-01MSDL	MS	09/30/25 16:06	40x for S	Jaswal	Confirms
29	Q3179-03DL	EME-TS14-01MSDDL	MSD	09/30/25 16:10	40x for S	Jaswal	Confirms
30	Q3179-01ADL	EME-TS14-01ADL	PS	09/30/25 16:14	Not Required (0.1 ml of each M6008 AND M6018 0.4 ml of M5816 in10ML sample before dilution)	Jaswal	Not Ok
31	Q3177-01	EME-TS12-01	SAM	09/30/25 16:23	S high	Jaswal	Dilution
32	Q3177-02	EME-TS13-01	SAM	09/30/25 16:27	S high	Jaswal	Dilution
33	Q3177-03	EME-TS14-02	SAM	09/30/25 16:31	S high	Jaswal	Dilution
34	Q3179-01	EME-TS14-01	SAM	09/30/25 16:35	S high	Jaswal	Dilution
35	Q3179-01DUP	EME-TS14-01DUP	DUP	09/30/25 16:39	S high	Jaswal	Dilution
36	CCV03	CCV03	CCV	09/30/25 16:43		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137374

Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

37	CCB03	CCB03	CCB	09/30/25 16:53		Jaswal	OK
38	Q3179-01L	EME-TS14-01L	SD	09/30/25 16:58		Jaswal	OK
39	Q3179-02	MS	MS	09/30/25 17:03	S high	Jaswal	Dilution
40	Q3179-03	MSD	MSD	09/30/25 17:06	S high	Jaswal	Dilution
41	Q3179-01A	EME-TS14-01A	PS	09/30/25 17:10	0.1ml of each M6007 and M6017 and 0.4 ml of M5816 in 10ml sample.	Jaswal	OK
42	PB169892BL	PB169892BL	MB	09/30/25 17:14		Jaswal	OK
43	PB169892BS	PB169892BS	LCS	09/30/25 17:19		Jaswal	OK
44	Q3215-01	WASTE	SAM	09/30/25 17:23		Jaswal	OK
45	Q3220-01	OR-03-092625	SAM	09/30/25 17:27		Jaswal	OK
46	Q3221-01	HD-01-092625	SAM	09/30/25 17:31		Jaswal	OK
47	Q3222-01	SU-03-092625	SAM	09/30/25 17:35		Jaswal	OK
48	CCV04	CCV04	CCV	09/30/25 17:39		Jaswal	OK
49	CCB04	CCB04	CCB	09/30/25 17:43		Jaswal	OK
50	Q3230-01	WALL-PROBE-BRICK	SAM	09/30/25 17:47		Jaswal	OK
51	Q3231-01	WC-1	SAM	09/30/25 17:51		Jaswal	OK
52	Q3231-01L	WC-1L	SD	09/30/25 17:59		Jaswal	OK
53	Q3231-01MS	WC-1MS	MS	09/30/25 18:03		Jaswal	OK
54	Q3231-01DUP	WC-1DUP	DUP	09/30/25 18:11		Jaswal	OK
55	Q3231-01MSD	WC-1MSD	MSD	09/30/25 18:15		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

56	Q3231-01A	WC-1A	PS	09/30/25 18:19	0.1ml of each M6007 and M6017 in 10ml sample.	Jaswal	OK
57	Q3231-05	WC-2	SAM	09/30/25 18:23		Jaswal	OK
58	Q3231-09	WC-3	SAM	09/30/25 18:27		Jaswal	OK
59	Q3231-13	WC-4	SAM	09/30/25 18:31		Jaswal	OK
60	CCV05	CCV05	CCV	09/30/25 18:55		Jaswal	OK
61	CCB05	CCB05	CCB	09/30/25 18:59		Jaswal	OK
62	Q3232-01	CONC-1	SAM	09/30/25 19:03		Jaswal	OK
63	Q3233-01RE	0926-01RE	SAM	09/30/25 19:07	NOT USE	Jaswal	Not Ok
64	Q3187-04	228	SAM	09/30/25 19:12		Jaswal	OK
65	Q3230-03	WALL-PROBE-BRICK	SAM	09/30/25 19:16		Jaswal	OK
66	Q3231-04	WC-1	SAM	09/30/25 19:20		Jaswal	OK
67	Q3231-08	WC-2	SAM	09/30/25 19:24		Jaswal	OK
68	Q3231-12	WC-3	SAM	09/30/25 19:29		Jaswal	OK
69	Q3231-16	WC-4	SAM	09/30/25 19:33		Jaswal	OK
70	Q3232-02	CONC-1	SAM	09/30/25 19:37		Jaswal	OK
71	Q3233-01	0926-01	SAM	09/30/25 19:41		Jaswal	OK
72	CCV06	CCV06	CCV	09/30/25 19:45		Jaswal	OK
73	CCB06	CCB06	CCB	09/30/25 19:49	CCB fail for S	Jaswal	OK
74	Q3233-01DUP	0926-01DUP	DUP	09/30/25 19:54		Jaswal	OK

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

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Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

75	Q3233-01L	0926-01L	SD	09/30/25 19:58		Jaswal	OK
76	Q3233-01MS	0926-01MS	MS	09/30/25 20:02		Jaswal	OK
77	Q3233-01MSD	0926-01MSD	MSD	09/30/25 20:06		Jaswal	OK
78	Q3233-01A	0926-01A	PS	09/30/25 20:10	0.1ml of each M6007 and M6017 in 10ml sample.	Jaswal	OK
79	PB169911BL	PB169911BL	MB	09/30/25 20:14		Jaswal	OK
80	PB169911BS	PB169911BS	LCS	09/30/25 20:18		Jaswal	OK
81	Q3199-01	ELZ-25-000117	SAM	09/30/25 20:27		Jaswal	OK
82	Q3199-02	ELZ-25-00098	SAM	09/30/25 20:31		Jaswal	OK
83	CCV07	CCV07	CCV	09/30/25 20:35		Jaswal	OK
84	CCB07	CCB07	CCB	09/30/25 20:39	CCB fail for S	Jaswal	OK
85	Q3199-03	ELZ-25-000111	SAM	09/30/25 20:43		Jaswal	OK
86	Q3199-04	ELZ-25-000110	SAM	09/30/25 20:47		Jaswal	OK
87	Q3199-05	ELZ-25-000124	SAM	09/30/25 20:52		Jaswal	OK
88	Q3199-06	ELZ-25-000125	SAM	09/30/25 20:56		Jaswal	OK
89	Q3199-07	ELZ-25-00097	SAM	09/30/25 21:00		Jaswal	OK
90	Q3207-01	Drum#1- Poly Sheetin	SAM	09/30/25 21:04		Jaswal	OK
91	Q3207-02	Drum#2 PPE	SAM	09/30/25 21:08		Jaswal	OK
92	Q3207-03	Drum#3 Paint Chips	SAM	09/30/25 21:12		Jaswal	OK
93	Q3215-02	WASTE	SAM	09/30/25 21:17		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137374

Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

94	PB169843TB	PB169843TB	MB	09/30/25 21:21		Jaswal	OK
95	CCV08	CCV08	CCV	09/30/25 21:25		Jaswal	OK
96	CCB08	CCB08	CCB	09/30/25 21:29	CCB fail for K,Li,S,Na	Jaswal	OK
97	Q3199-09	ELZ-25-000107	SAM	09/30/25 21:41		Jaswal	OK
98	Q3199-09DUP	ELZ-25-000107DUP	DUP	09/30/25 21:45		Jaswal	OK
99	Q3199-09L	ELZ-25-000107L	SD	09/30/25 21:49		Jaswal	OK
100	Q3199-09MS	ELZ-25-000107MS	MS	09/30/25 21:54		Jaswal	OK
101	Q3199-09MSD	ELZ-25-000107MSD	MSD	09/30/25 21:58		Jaswal	OK
102	Q3199-09A	ELZ-25-000107A	PS	09/30/25 22:01	0.1ml of each M6007 and M6017 in 10ml sample.	Jaswal	OK
103	PB169917BL	PB169917BL	MB	09/30/25 22:06		Jaswal	OK
104	PB169917BS	PB169917BS	LCS	09/30/25 22:10		Jaswal	OK
105	CCV09	CCV09	CCV	09/30/25 22:14		Jaswal	OK
106	CCB09	CCB09	CCB	09/30/25 22:18	CCB fail for K,Li,S,Sn	Jaswal	OK
107	Q3245-08	13-1	SAM	09/30/25 22:22	Not Use	Jaswal	Not Ok
108	Q3245-16	12-8	SAM	09/30/25 22:26	Not Use	Jaswal	Not Ok
109	Q3245-24	12-1	SAM	09/30/25 22:30	Not Use	Jaswal	Not Ok
110	Q3245-24DUP	12-1DUP	DUP	09/30/25 22:35	Not Use	Jaswal	Not Ok
111	Q3245-24L	12-1L	SD	09/30/25 22:39	Not Use	Jaswal	Not Ok
112	Q3245-24MS	12-1MS	MS	09/30/25 22:43	Not Use	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137374

Review By	Janvi	Review On	10/1/2025 11:47:17 AM
Supervise By	jaswal	Supervise On	10/1/2025 3:34:13 PM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

113	Q3245-24MSD	12-1MSD	MSD	09/30/25 22:47	Not Use	Jaswal	Not Ok
114	Q3245-24A	12-1A	PS	09/30/25 22:51	Not Use , 0.1ml of each M6007 and M6017 in 10ml sample.	Jaswal	Not Ok
115	PB169900TB	PB169900TB	MB	09/30/25 22:55		Jaswal	OK
116	CCV10	CCV10	CCV	09/30/25 23:00		Jaswal	OK
117	CCB10	CCB10	CCB	09/30/25 23:04	CCB fail for K,Li,Na,S,Sn	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137389

Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/01/25 12:08		Jaswal	OK
2	S1	S1	CAL2	10/01/25 12:12		Jaswal	OK
3	S2	S2	CAL3	10/01/25 12:17		Jaswal	OK
4	S3	S3	CAL4	10/01/25 12:21		Jaswal	OK
5	S4	S4	CAL5	10/01/25 12:25		Jaswal	OK
6	S5	S5	CAL6	10/01/25 12:29		Jaswal	OK
7	ICV01	ICV01	ICV	10/01/25 12:33		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/01/25 12:41		Jaswal	OK
9	ICB01	ICB01	ICB	10/01/25 12:45		Jaswal	OK
10	CRI01	CRI01	CRDL	10/01/25 12:49		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/01/25 12:53		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/01/25 12:57		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/01/25 13:02		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/01/25 13:06		Jaswal	OK
15	CCV01	CCV01	CCV	10/01/25 13:10		Jaswal	OK
16	CCB01	CCB01	CCB	10/01/25 13:14		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/01/25 13:18		Jaswal	OK
18	LR-2	LR-2	HIGH STD	10/01/25 13:23		Jaswal	OK

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Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

19	LR-3	LR-3	HIGH STD	10/01/25 13:27		Jaswal	OK
20	Q3233-01DL	0926-01DL	SAM	10/01/25 13:32	Ag oversaturated	Jaswal	Dilution
21	PB169866BL	PB169866BL	MB	10/01/25 13:37		Jaswal	OK
22	PB169866BS	PB169866BS	LCS	10/01/25 13:41		Jaswal	OK
23	PB169870TB	PB169870TB	MB	10/01/25 13:45		Jaswal	OK
24	Q3253-01	ARS20-0009	SAM	10/01/25 13:49		Jaswal	OK
25	Q3253-10	ARS20-0009	SAM	10/01/25 13:54		Jaswal	OK
26	Q3233-01DL2	0926-01DL2	SAM	10/01/25 13:58	25x for Ag	Jaswal	Confirms
27	CCV02	CCV02	CCV	10/01/25 14:02		Jaswal	OK
28	CCB02	CCB02	CCB	10/01/25 14:06		Jaswal	OK
29	Q3245-01	13-1	SAM	10/01/25 14:12		Jaswal	OK
30	Q3245-09	12-8	SAM	10/01/25 14:16		Jaswal	OK
31	Q3245-17	12-1	SAM	10/01/25 14:20		Jaswal	OK
32	Q3240-01	OK-02-092925	SAM	10/01/25 14:24		Jaswal	OK
33	Q3240-01DUP	OK-02-092925DUP	DUP	10/01/25 14:28		Jaswal	OK
34	Q3240-01L	OK-02-092925L	SD	10/01/25 14:32		Jaswal	OK
35	Q3240-01MS	OK-02-092925MS	MS	10/01/25 14:36		Jaswal	OK
36	Q3240-01MSD	OK-02-092925MSD	MSD	10/01/25 14:40		Jaswal	OK
37	Q3240-01A	OK-02-092925A	PS	10/01/25 14:44		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Daily Analysis Runlog For Sequence/QCBatch ID # LB137389

Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

38	Q3238-01	RCA	SAM	10/01/25 14:48	0.1ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
39	CCV03	CCV03	CCV	10/01/25 15:00		Jaswal	OK
40	CCB03	CCB03	CCB	10/01/25 15:04		Jaswal	OK
41	PB169913BL	PB169913BL	MB	10/01/25 15:08		Jaswal	OK
42	PB169913BS	PB169913BS	LCS	10/01/25 15:13		Jaswal	OK
43	PB169863BL	PB169863BL	MB	10/01/25 15:17		Jaswal	OK
44	PB169863BS	PB169863BS	LCS	10/01/25 15:21		Jaswal	OK
45	PB169912BL	PB169912BL	MB	10/01/25 15:25		Jaswal	OK
46	PB169912BS	PB169912BS	LCS	10/01/25 15:30		Jaswal	OK
47	Q3202-01	SY-6	SAM	10/01/25 15:34		Jaswal	OK
48	Q3202-02	SY-6	SAM	10/01/25 15:38		Jaswal	OK
49	Q3202-03	SY-2R	SAM	10/01/25 15:42		Jaswal	OK
50	Q3202-04	SY-2R	SAM	10/01/25 15:46		Jaswal	OK
51	CCV04	CCV04	CCV	10/01/25 15:51		Jaswal	OK
52	CCB04	CCB04	CCB	10/01/25 15:55		Jaswal	OK
53	Q3202-05	SY-2D	SAM	10/01/25 15:59		Jaswal	OK
54	Q3202-06	SY-2D	SAM	10/01/25 16:03		Jaswal	OK
55	Q3202-07	SY-5	SAM	10/01/25 16:08		Jaswal	OK
56	Q3202-08	SY-5	SAM	10/01/25 16:12		Jaswal	OK

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Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

57	Q3202-09	SY-3DD	SAM	10/01/25 16:17		Jaswal	OK
58	Q3202-10	SY-3DD	SAM	10/01/25 16:21		Jaswal	OK
59	Q3202-17	SY-3	SAM	10/01/25 16:25		Jaswal	OK
60	Q3202-18	SY3	SAM	10/01/25 16:29		Jaswal	OK
61	Q3202-11	SY-3D	SAM	10/01/25 16:34		Jaswal	OK
62	Q3202-11DUP	SY-3DDUP	DUP	10/01/25 16:38		Jaswal	OK
63	CCV05	CCV05	CCV	10/01/25 16:42		Jaswal	OK
64	CCB05	CCB05	CCB	10/01/25 16:46		Jaswal	OK
65	Q3202-11L	SY-3DL	SD	10/01/25 16:50		Jaswal	OK
66	Q3202-13	SY-3D	MS	10/01/25 16:55		Jaswal	OK
67	Q3202-15	SY-3D	MSD	10/01/25 16:59		Jaswal	OK
68	Q3202-11A	SY-3DA	PS	10/01/25 17:03	0.1ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
69	Q3202-12	SY-3D	SAM	10/01/25 17:07		Jaswal	OK
70	Q3202-12DUP	SY-3DDUP	DUP	10/01/25 17:11		Jaswal	OK
71	Q3202-12L	SY-3DL	SD	10/01/25 17:16		Jaswal	OK
72	Q3202-14	SY-3D	MS	10/01/25 17:20		Jaswal	OK
73	Q3202-16	SY-3D	MSD	10/01/25 17:24		Jaswal	OK
74	Q3202-12A	SY-3DA	PS	10/01/25 17:28	0.1ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137389

Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

75	CCV06	CCV06	CCV	10/01/25 17:32		Jaswal	OK
76	CCB06	CCB06	CCB	10/01/25 17:41		Jaswal	OK
77	Q3234-01	DA-1	SAM	10/01/25 17:46		Jaswal	OK
78	Q3234-02	DA-2	SAM	10/01/25 17:50		Jaswal	OK
79	Q3237-01	RW8-SP100-2025092	SAM	10/01/25 17:54		Jaswal	OK
80	Q3237-02	RW8-SP303-2025092	SAM	10/01/25 17:58		Jaswal	OK
81	Q3237-02DUP	RW8-SP303-2025092	DUP	10/01/25 18:03		Jaswal	OK
82	Q3237-02L	RW8-SP303-2025092	SD	10/01/25 18:07		Jaswal	OK
83	Q3237-02MS	RW8-SP303-2025092	MS	10/01/25 18:11		Jaswal	OK
84	Q3237-02MSD	RW8-SP303-2025092	MSD	10/01/25 18:15		Jaswal	OK
85	Q3237-02A	RW8-SP303-2025092	PS	10/01/25 18:19	0.1ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
86	PB169925TB	PB169925TB	MB	10/01/25 18:23		Jaswal	OK
87	CCV07	CCV07	CCV	10/01/25 18:28		Jaswal	OK
88	CCB07	CCB07	CCB	10/01/25 18:32		Jaswal	OK
89	Q3255-02	CONCRETE-1-WC	SAM	10/01/25 18:36		Jaswal	OK
90	Q3256-04	SOIL-PILE-1-WC	SAM	10/01/25 18:41		Jaswal	OK
91	Q3256-08	SOIL-PILE-2-WC	SAM	10/01/25 18:45		Jaswal	OK
92	Q3256-08DUP	SOIL-PILE-2-WCDUP	DUP	10/01/25 18:49		Jaswal	OK
93	Q3256-08L	SOIL-PILE-2-WCL	SD	10/01/25 18:54		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137389

Review By	Janvi	Review On	10/3/2025 1:56:25 PM
Supervise By	jaswal	Supervise On	10/7/2025 12:04:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP87031,MP87038,MP87035,MP87034,MP87033,MP87032
ICV Standard	MP87404,MP87038
CCV Standard	MP87042
ICSA Standard	MP87040,MP87405
CRI Standard	MP87038
LCS Standard	
Chk Standard	MP87043,MP87044,MP87045,MP87046,MP87049

94	Q3256-08MS	SOIL-PILE-2-WCMS	MS	10/01/25 18:58		Jaswal	OK
95	Q3256-08MSD	SOIL-PILE-2-WCMSD	MSD	10/01/25 19:02		Jaswal	OK
96	Q3256-08A	SOIL-PILE-2-WCA	PS	10/01/25 19:06	0.1ML OF EACH M6008 AND M6017 IN 10ML SAMPLE.	Jaswal	OK
97	PB169934BL	PB169934BL	MB	10/01/25 19:11		Jaswal	OK
98	PB169934BS	PB169934BS	LCS	10/01/25 19:15		Jaswal	OK
99	CCV08	CCV08	CCV	10/01/25 19:19		Jaswal	OK
100	CCB08	CCB08	CCB	10/01/25 19:23		Jaswal	OK

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TCLP EXTRACTION LOGPAGE

PB169870

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 40819719

Start Prep Date : 09/26/2025 **Time :** 16:30

End Prep Date : 09/27/2025 **Time :** 11:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP114525
HCL-TCLP,1N	N/A	WP114527
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
N/A	N/A	N/A
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q3233-01 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/27/2025 13:30	JP / COC	RJ / EK.
	Preparation Group	Analysis Group MH MH

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TCLP EXTRACTION LOGPAGE

PB169870

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB169870TB	LEB870	20	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q3187-04	228	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q3199-01	ELZ-25-000117	02	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q3199-02	ELZ-25-00098	03	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q3199-03	ELZ-25-000111	04	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q3199-04	ELZ-25-000110	05	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q3199-05	ELZ-25-000124	06	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q3199-06	ELZ-25-000125	07	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q3199-07	ELZ-25-00097	08	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q3207-01	Drum#1- Poly Sheeting	09	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q3207-02	Drum#2 PPE	10	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q3207-03	Drum#3 Paint Chips	11	100.02	2000	N/A	N/A	N/A	9.1	1.5	T-2
Q3215-02	WASTE	12	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q3230-03	WALL-PROBE-BRICK-1	13	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-2
Q3231-04	WC-1	14	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q3231-08	WC-2	15	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2
Q3231-12	WC-3	16	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-2
Q3231-16	WC-4	17	100.03	2000	N/A	N/A	N/A	8.6	1.5	T-2
Q3232-02	CONC-1	18	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-2
Q3233-01	0926-01	19	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-2

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TCLP Fluid Determination

PB169870

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB169870TB	LEB870	N/A	N/A	N/A	N/A	#1	4.93
Q3187-04	228	5.02	96.5	6.0	2.0	#1	4.93
Q3199-01	ELZ-25-000117	5.01	96.5	5.5	1.5	#1	4.93
Q3199-02	ELZ-25-00098	5.03	96.5	5.6	1.5	#1	4.93
Q3199-03	ELZ-25-000111	5.04	96.5	5.6	1.5	#1	4.93
Q3199-04	ELZ-25-000110	5.03	96.5	6.0	2.0	#1	4.93
Q3199-05	ELZ-25-000124	5.02	96.5	6.0	2.0	#1	4.93
Q3199-06	ELZ-25-000125	5.01	96.5	8.6	3.0	#1	4.93
Q3199-07	ELZ-25-00097	5.02	96.5	6.4	2.5	#1	4.93
Q3207-01	Drum#1- Poly Sheeting	5.00	96.5	6.6	2.5	#1	4.93
Q3207-02	Drum#2 PPE	5.00	96.5	7.2	2.5	#1	4.93
Q3207-03	Drum#3 Paint Chips	5.00	96.5	9.1	4.0	#1	4.93
Q3215-02	WASTE	5.03	96.5	6.0	2.5	#1	4.93
Q3230-03	WALL-PROBE-BRICK-1	5.04	96.5	11.5	4.5	#1	4.93
Q3231-04	WC-1	5.02	96.5	8.6	3.5	#1	4.93
Q3231-08	WC-2	5.01	96.5	8.6	3.5	#1	4.93
Q3231-12	WC-3	5.02	96.5	11.5	4.5	#1	4.93
Q3231-16	WC-4	5.03	96.5	9.0	4.0	#1	4.93
Q3232-02	CONC-1	5.04	96.5	11.5	4.5	#1	4.93
Q3233-01	0926-01	5.03	96.5	12.0	4.5	#1	4.93

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TCLP Solid Determination

PB169870

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB169870TB	LEB870	N/A	N/A	N/A	N/A	N/A	N/A
Q3187-04	228	N/A	N/A	N/A	N/A	100	N/A
Q3199-01	ELZ-25-000117	N/A	N/A	N/A	N/A	100	N/A
Q3199-02	ELZ-25-00098	N/A	N/A	N/A	N/A	100	N/A
Q3199-03	ELZ-25-000111	N/A	N/A	N/A	N/A	100	N/A
Q3199-04	ELZ-25-000110	N/A	N/A	N/A	N/A	100	N/A
Q3199-05	ELZ-25-000124	N/A	N/A	N/A	N/A	100	N/A
Q3199-06	ELZ-25-000125	N/A	N/A	N/A	N/A	100	N/A
Q3199-07	ELZ-25-00097	N/A	N/A	N/A	N/A	100	N/A
Q3207-01	Drum#1- Poly Sheeting	N/A	N/A	N/A	N/A	100	N/A
Q3207-02	Drum#2 PPE	N/A	N/A	N/A	N/A	100	N/A
Q3207-03	Drum#3 Paint Chips	N/A	N/A	N/A	N/A	100	N/A
Q3215-02	WASTE	N/A	N/A	N/A	N/A	100	N/A
Q3230-03	WALL-PROBE-BRICK-1	N/A	N/A	N/A	N/A	100	N/A
Q3231-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q3231-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q3231-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
Q3231-16	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q3232-02	CONC-1	N/A	N/A	N/A	N/A	100	N/A
Q3233-01	0926-01	N/A	N/A	N/A	N/A	100	N/A

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Prep Standard - Chemical Standard Summary

Order ID : Q3207

Test : TCLPMetals Group3

Prepbatch ID : PB169911,

Sequence ID/Qc Batch ID: LB137374,LB137374,LB137389,

Standard ID :
MP87031,MP87032,MP87033,MP87034,MP87035,MP87036,MP87038,MP87040,MP87042,MP87043,MP87044,MP87045,MP87046,MP87049,MP87148,MP87404,MP87405,

Chemical ID :
M5467,M5658,M5748,M5751,M5798,M5799,M5800,M5801,M5814,M5817,M5820,M5923,M5962,M5969,M5970,M5971,M5979,M5985,M5998,M6019,M6021,M6023,M6026,M6027,M6028,M6030,M6032,M6058,M6077,M6128,M6137,M6138,M6140,M6142,M6144,M6145,M6151,M6158,M6159,M6160,M6163,M6164,M6165,M6171,M6174,M6176,M6177,M6178,M6179,M6180,M6181,M6182,M6184,M6187,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP87031	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6187 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP87032	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 5.00000ml of M5467 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5971 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6160 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP87031 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP87033	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP87034	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 25.00000ml of MP87032 + 75.00000ml of MP87031 = 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
3913	ICP AES STD S2	MP87035	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 16.00000ml of MP87032 + 184.00000ml of MP87031 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP87036	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6140 + 0.05000ml of M6159 + 0.06000ml of M6177 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5971 + 0.10000ml of M6128 + 0.10000ml of M6176 + 0.15000ml of M5800 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6027 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6160 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5979 + 1.00000ml of M6138 + 1.00000ml of M6142 + 1.00000ml of M6144 + 1.00000ml of M6171 + 1.00000ml of M6178 + 2.00000ml of M5969 + 88.29000ml of MP87031 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP87038	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 2.00000ml of MP87036 + 98.00000ml of MP87031 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP87040	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 25.00000ml of M6182 + 225.00000ml of MP87031 = 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
911	ICP AES CCV SOLN	MP87042	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 50.00000ml of MP87031 + 50.00000ml of MP87032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP87043	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 1.00000ml of M6179 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6187 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP87044	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 200.00000ml of M6187 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4225	LR-1	MP87045	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 11.50000ml of M6138 + 11.50000ml of M6144 + 11.50000ml of M6171 + 15.50000ml of MP87031 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4226	LR-2	MP87046	09/02/2025	10/10/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 09/04/2025

FROM 13.50000ml of M6140 + 9.00000ml of M6142 + 9.50000ml of M6159 + 18.00000ml of MP87031 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4227	LR-3	MP87049	09/02/2025	10/10/2025	Sarabjit Jaswal	None	None	Janvi Patel 09/04/2025

FROM 1.15000ml of M6026 + 1.25000ml of M5658 + 1.25000ml of M5748 + 1.50000ml of M6145 + 2.50000ml of M5751 + 2.50000ml of M6128 + 39.85000ml of MP87031 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP87148	09/09/2025	02/17/2026	Sagar Kanani	None	None	Sarabjit Jaswal 09/10/2025

FROM 1250.00000ml of M6151 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4163	NEW ICV-060925	MP87404	09/22/2025	10/03/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICPA)	Sarabjit Jaswal 10/02/2025

FROM 0.02000ml of M5817 + 0.20000ml of M5923 + 0.20000ml of M6019 + 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.18000ml of MP87031 = Final Quantity: 50.000 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	MP87405	09/22/2025	10/03/2025	Janvi Patel	None	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 10/02/2025

FROM 0.01000ml of M5817 + 0.10000ml of M5970 + 0.10000ml of M6077 + 0.10000ml of M6176 + 10.00000ml of M6182 + 10.00000ml of M6184 + 79.69000ml of MP87031 = Final Quantity: 100.000 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.	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.	/ 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

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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.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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 #
Absolute Standards, Inc.	57003 / Lithium, Li, 100 ml, 1000 PPM	102423	10/24/2026	02/20/2024 / Jaswal	01/10/2024 / Jaswal	M5923

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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.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	03/31/2026	03/31/2025 / kareem	06/11/2024 / Jaswal	M5969

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

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	06/06/2025 / Janvi	07/01/2024 / Jaswal	M5971

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	08/05/2026	08/06/2025 / Janvi	02/22/2024 / Jaswal	M5979

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB727800	07/30/2026	07/30/2025 / Janvi	02/22/2024 / kareem	M5998

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSR1-1 / Strontium, 125 ml, 1000 PPM	U2-SR730227	03/03/2028	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6019

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.	57182 / Pb, 10000 PPM, 125 ml	110923	11/09/2026	12/05/2024 / janvi	08/05/2024 / Jaswal	M6026

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	062024	06/20/2027	06/04/2025 / Janvi	08/05/2024 / Jaswal	M6027

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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.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	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.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	121824	12/18/2027	04/17/2025 / Janvi	01/13/2025 / Jaswal	M6138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	011025	01/10/2028	06/25/2025 / Janvi	01/13/2025 / Jaswal	M6140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 /	01/13/2025 / Jaswal	M6145

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	10/09/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	03/24/2025 / kareem	10/18/2024 / kareem	M6160

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	06/08/2026	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	06/08/2026	06/09/2025 / jaswal	06/09/2025 / jaswal	M6164

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3	V2-MEB749572	06/08/2026	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 #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	011525	01/15/2028	07/15/2025 /	02/13/2025 / Janvi	M6171

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	V2-MEB742428	07/31/2026	07/31/2025 / Janvi	05/05/2025 / Janvi	M6174

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	092724	09/27/2027	08/06/2025 / Janvi	08/06/2025 / Janvi	M6176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	031525	03/15/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	080528	08/05/2028	08/06/2025 / Janvi	08/06/2025 / Janvi	M6178

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	08/05/2026	08/06/2025 / Janvi	06/02/2024 / Janvi	M6179

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	W2-MEB752149	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6180

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	V2-MEB7433480	02/05/2026	08/06/2025 / Janvi	07/22/2025 / Janvi	M6181

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	02/05/2026	08/06/2025 / Janvi	03/06/2024 / Janvi	M6182

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	02/05/2026	08/06/2025 / Janvi	03/06/2024 / Janvi	M6184

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	01/28/2026	08/29/2025 / Sagar	08/08/2025 / Sagar	M6187

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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

Absolute Standards, Inc.
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Certified Reference Material CRM

M6032

R: 8/5/24

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

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

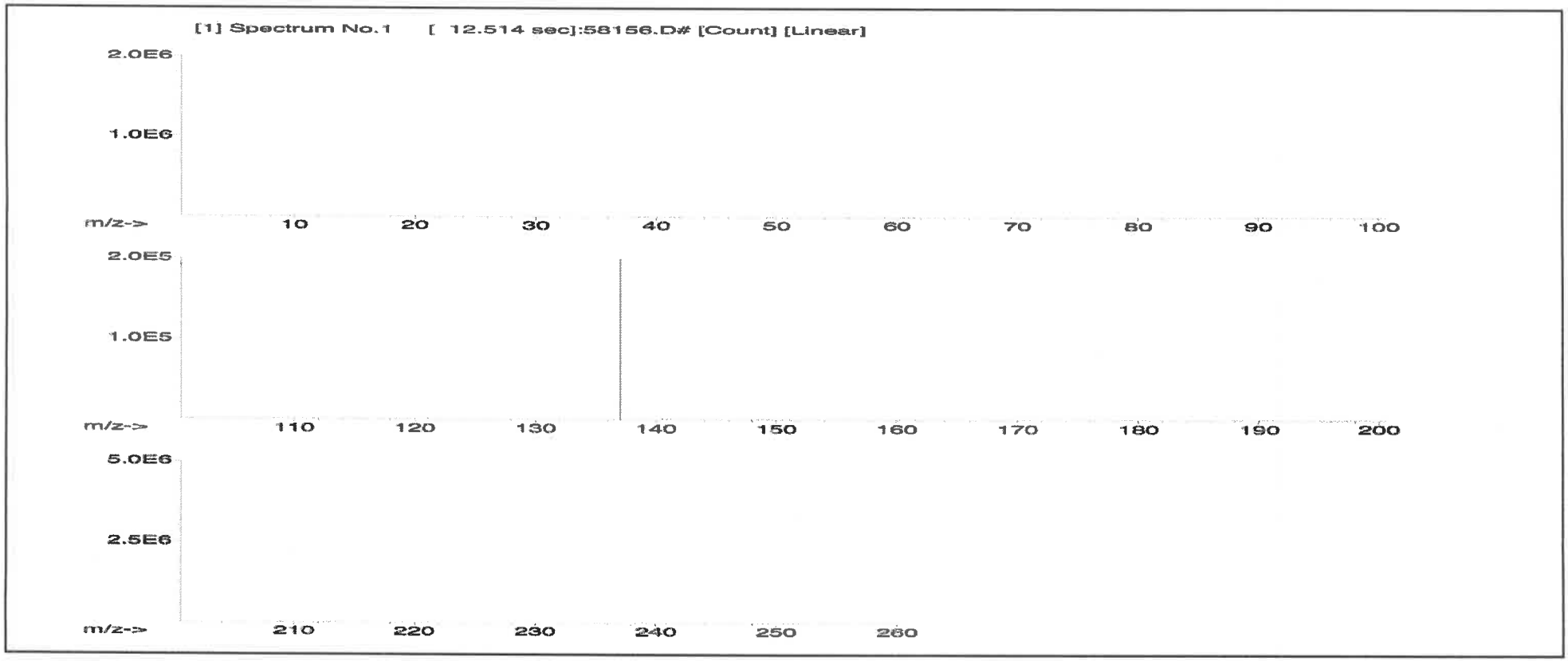
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

R 8/5/24

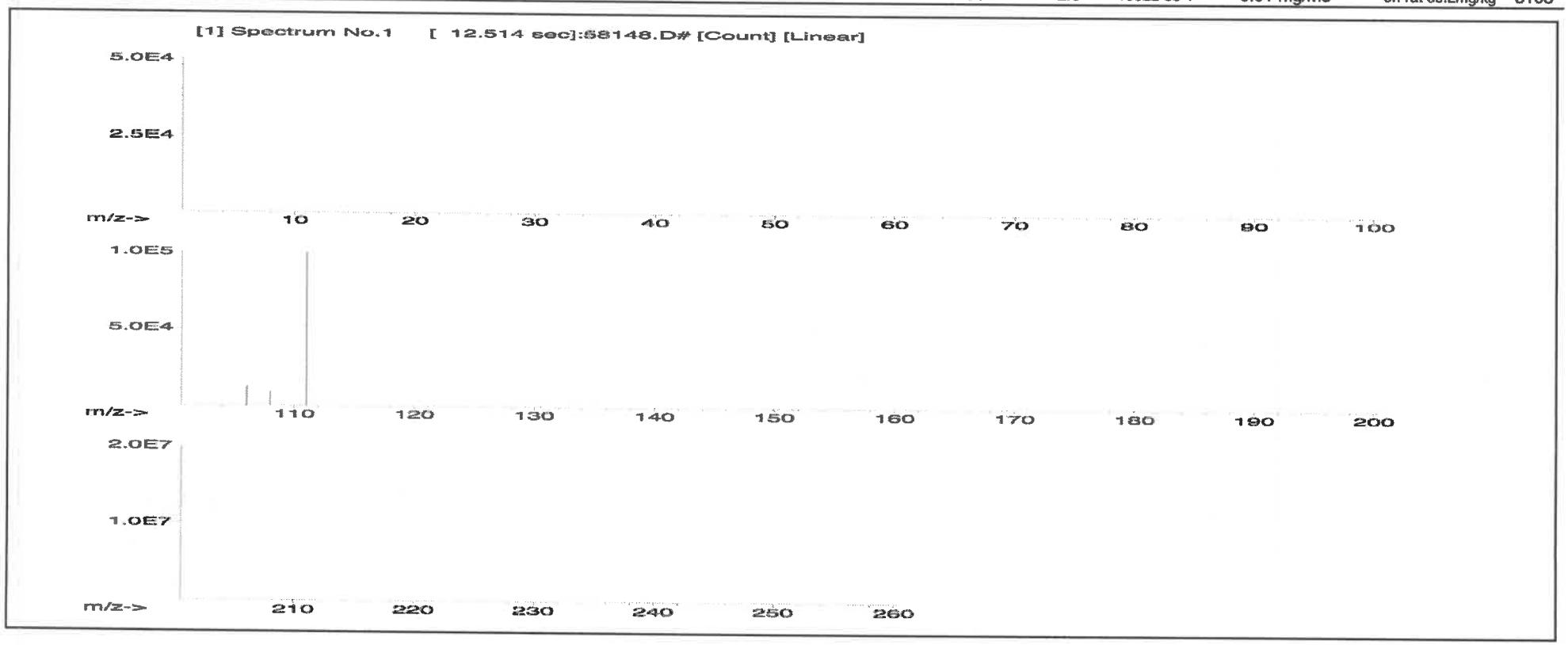
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady		
Formulated By:	Aleah O'Brady	070124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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* 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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M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

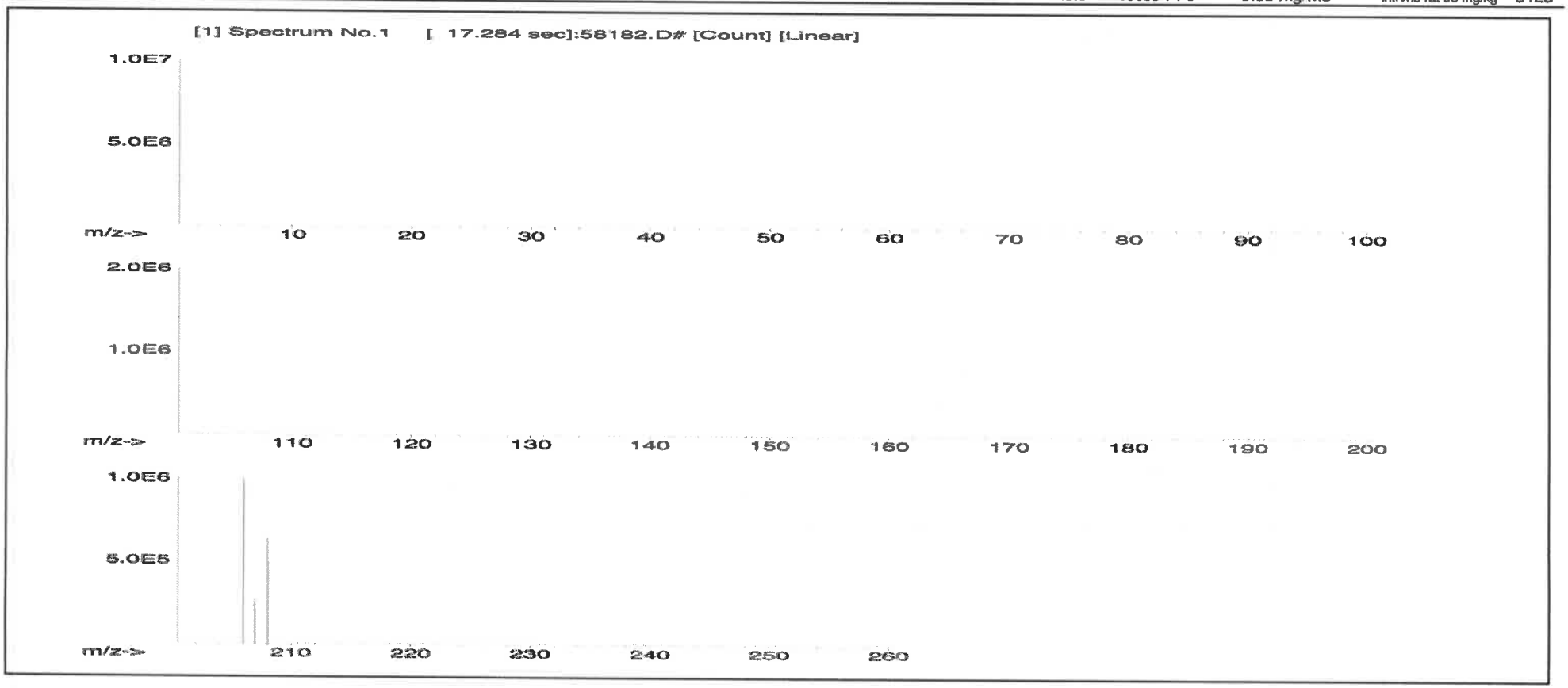
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

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	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	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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M5467 R: 03/01/23 (LA)

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

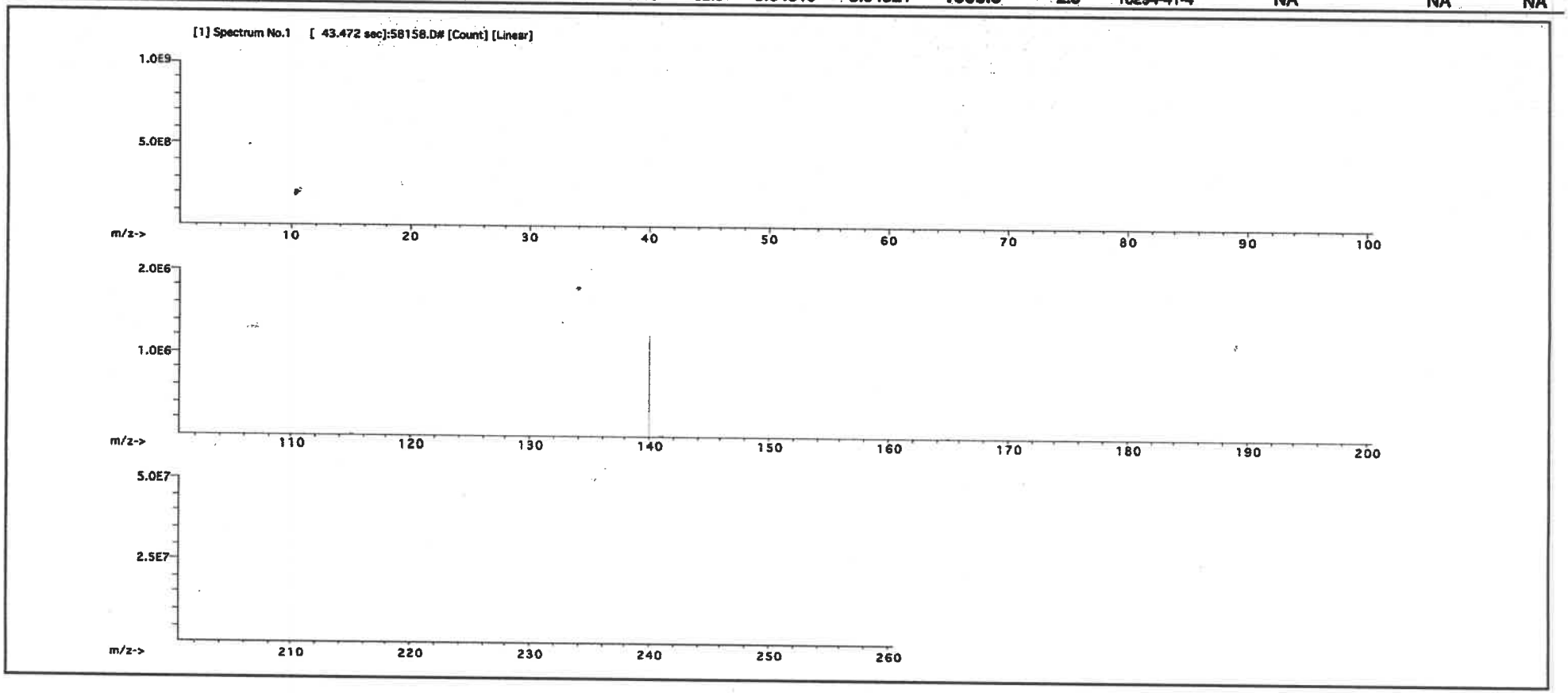
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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M5658 R! 8/25/23

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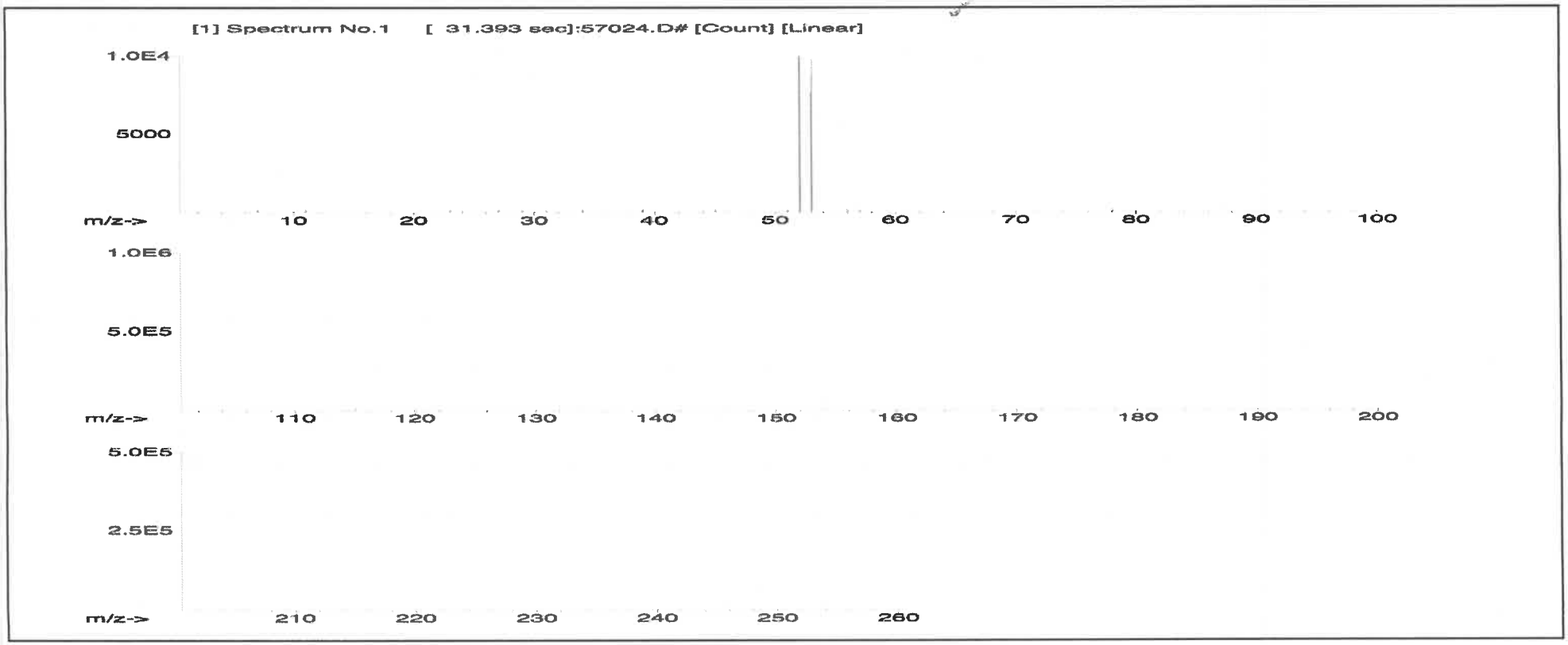
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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

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

(T)= Target analyte

Physical Characterization:

Certified by:

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

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R: 12/20/23 M5748

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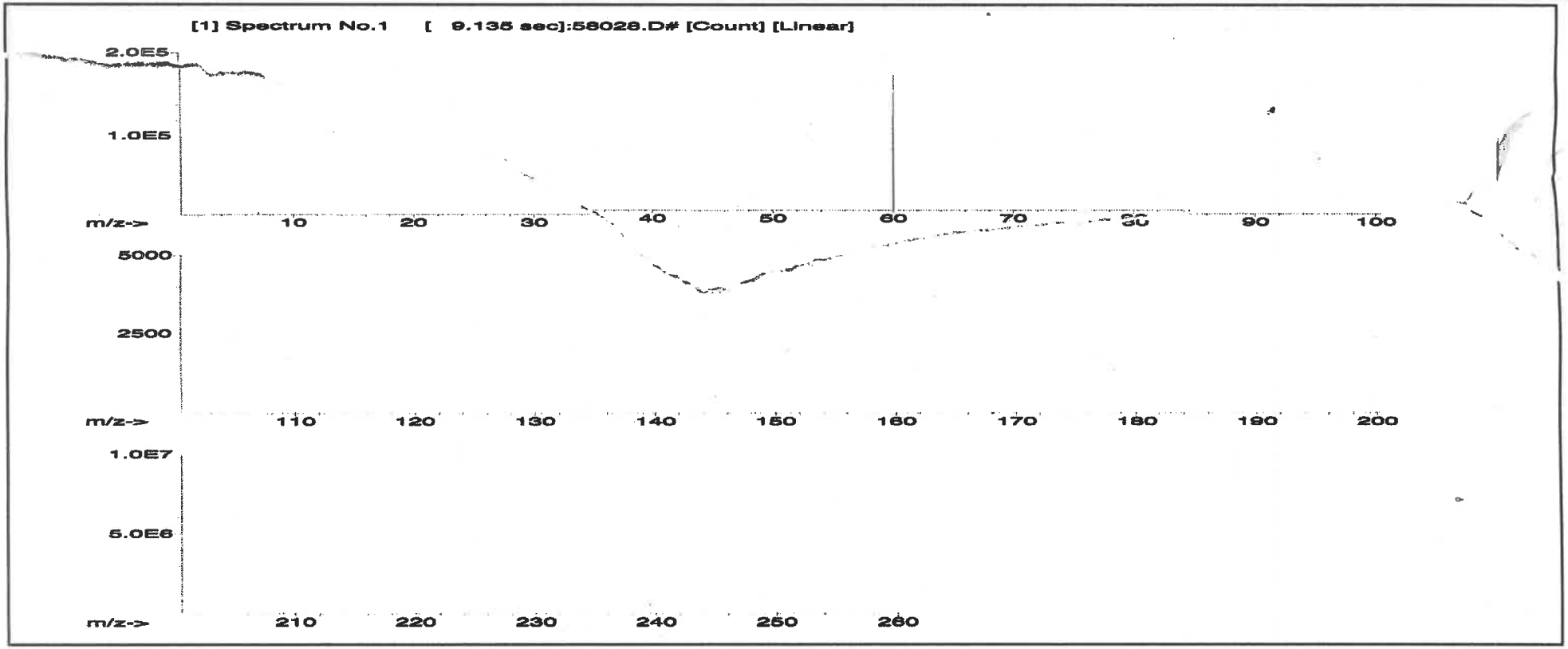
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	2.2	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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R: 8/25/23 M5751

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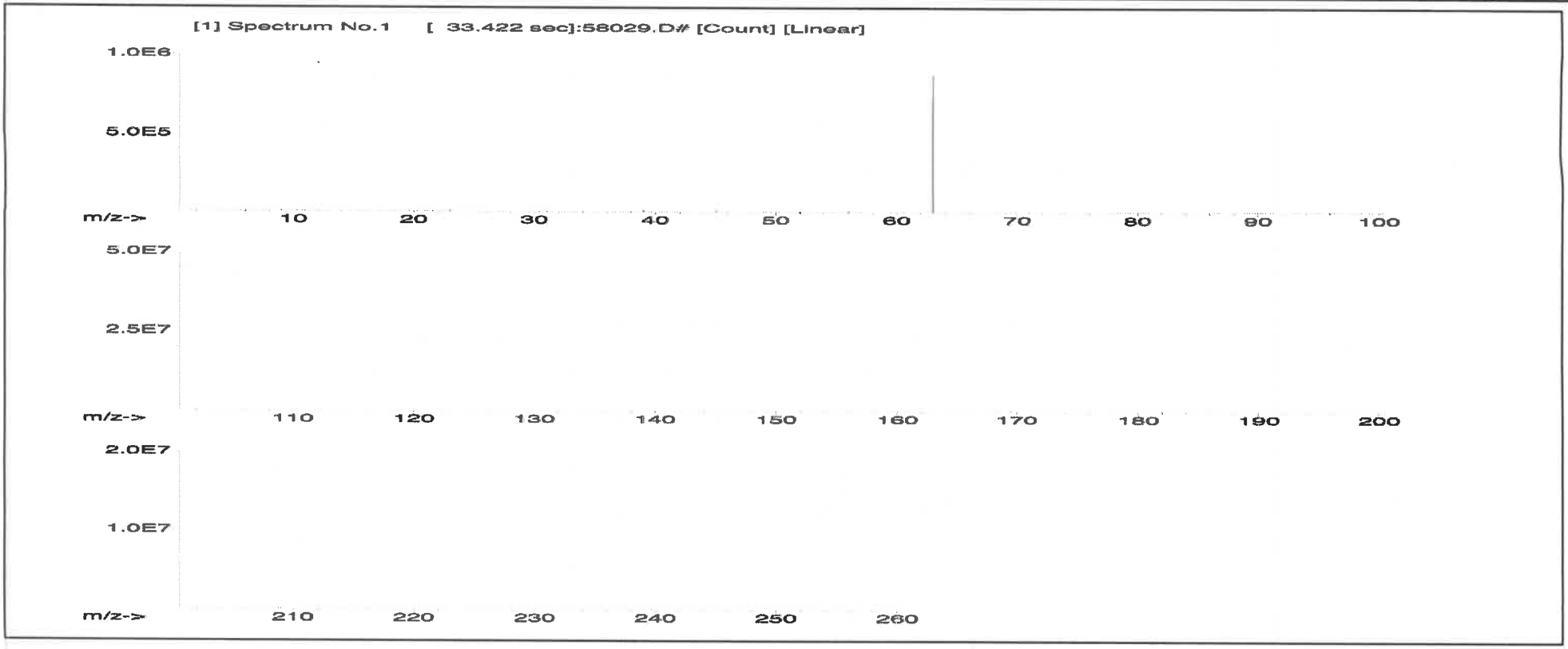
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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:

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R: 02/09/24 M5798

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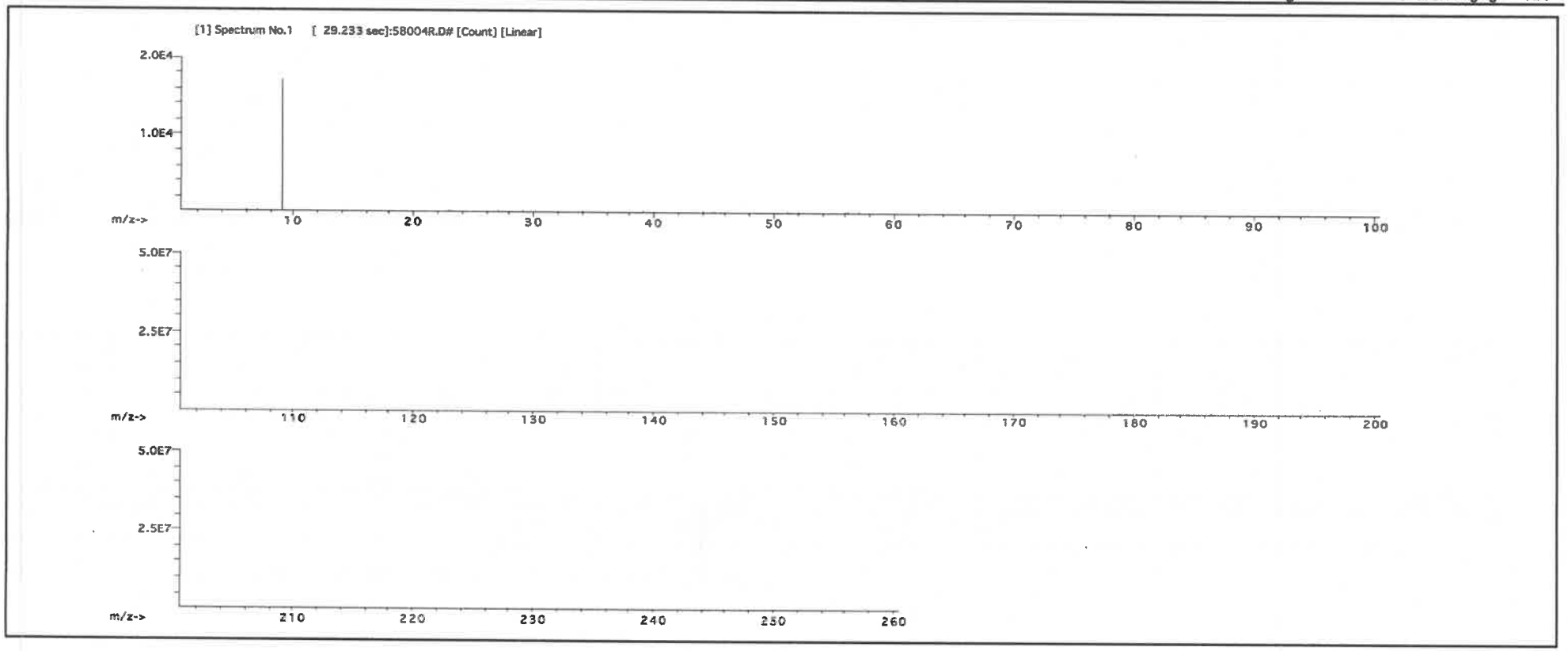
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

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

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

* 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 certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

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

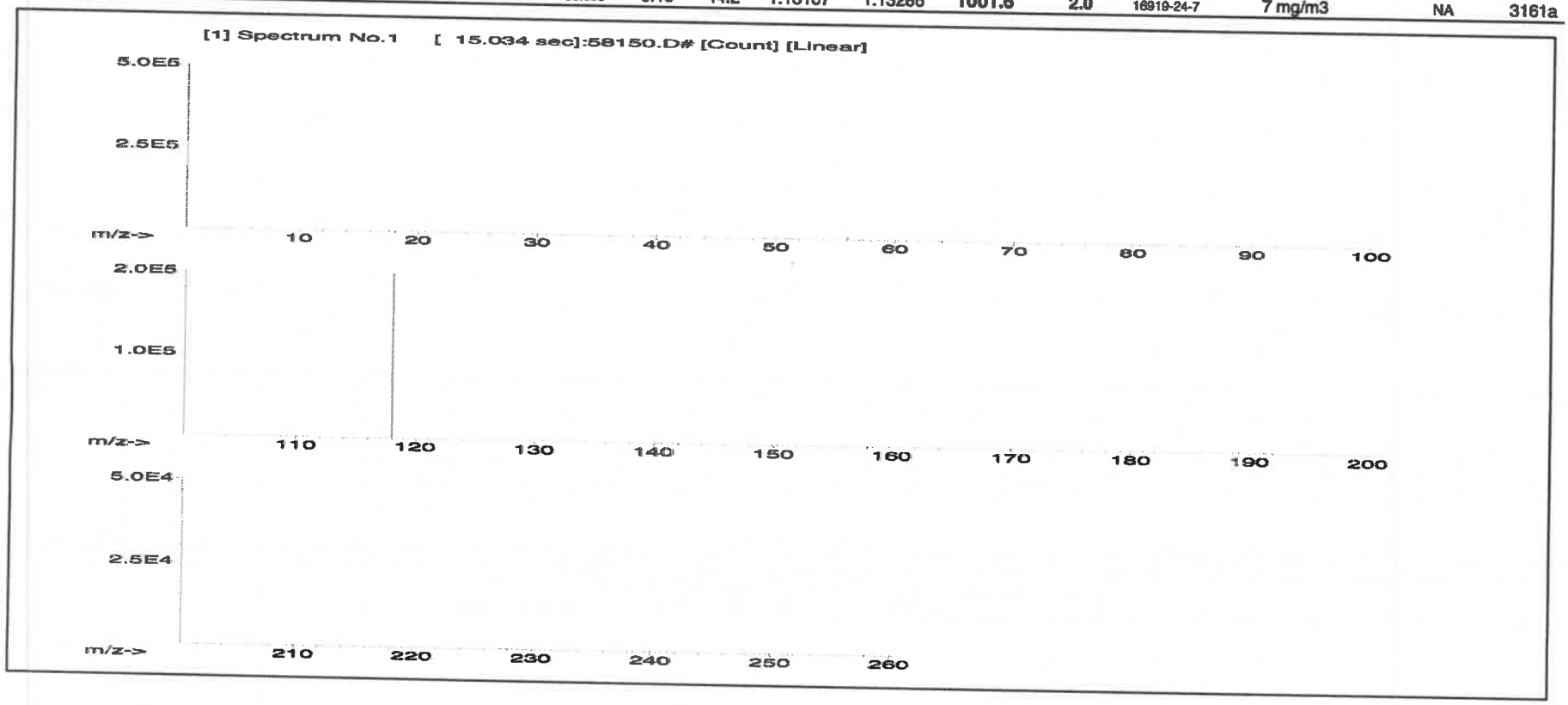
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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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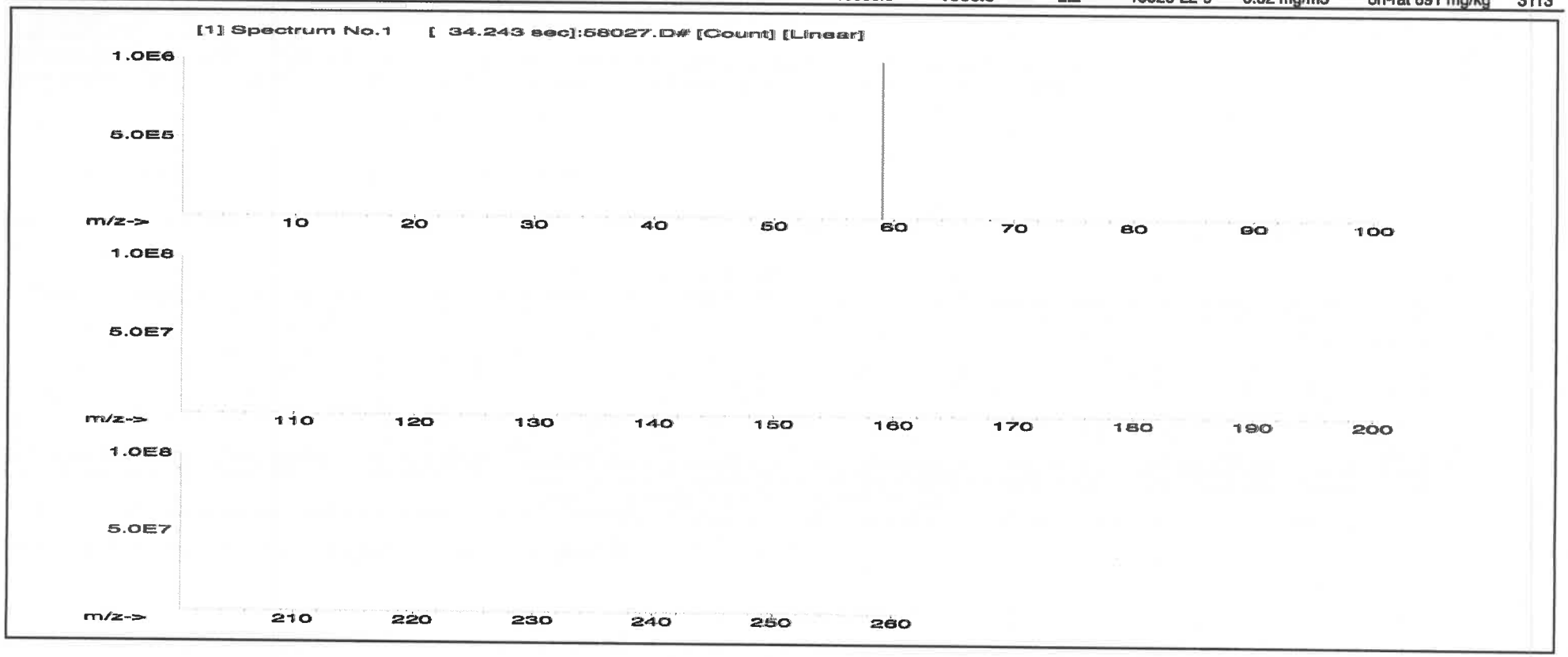
CERTIFIED WEIGHT REPORT:

		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.

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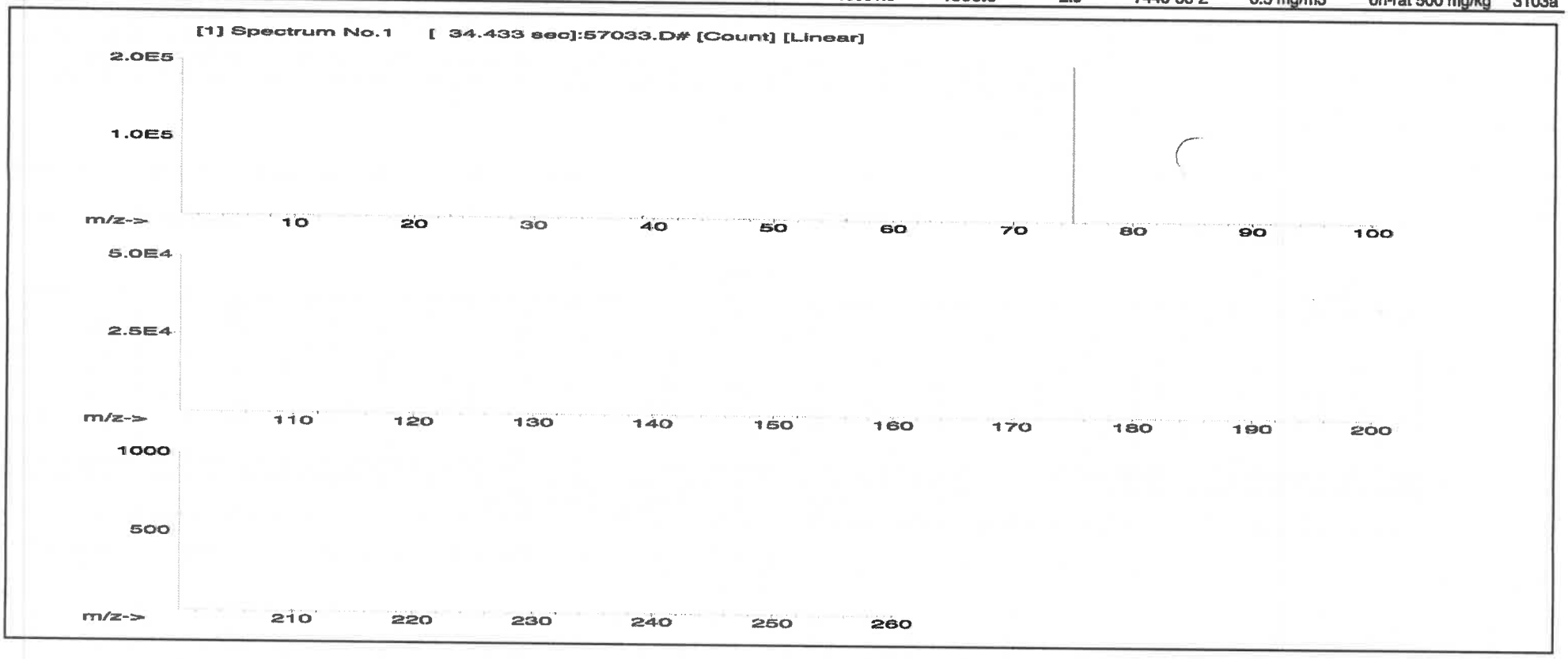
CERTIFIED **WEIGHT** REPORT:

		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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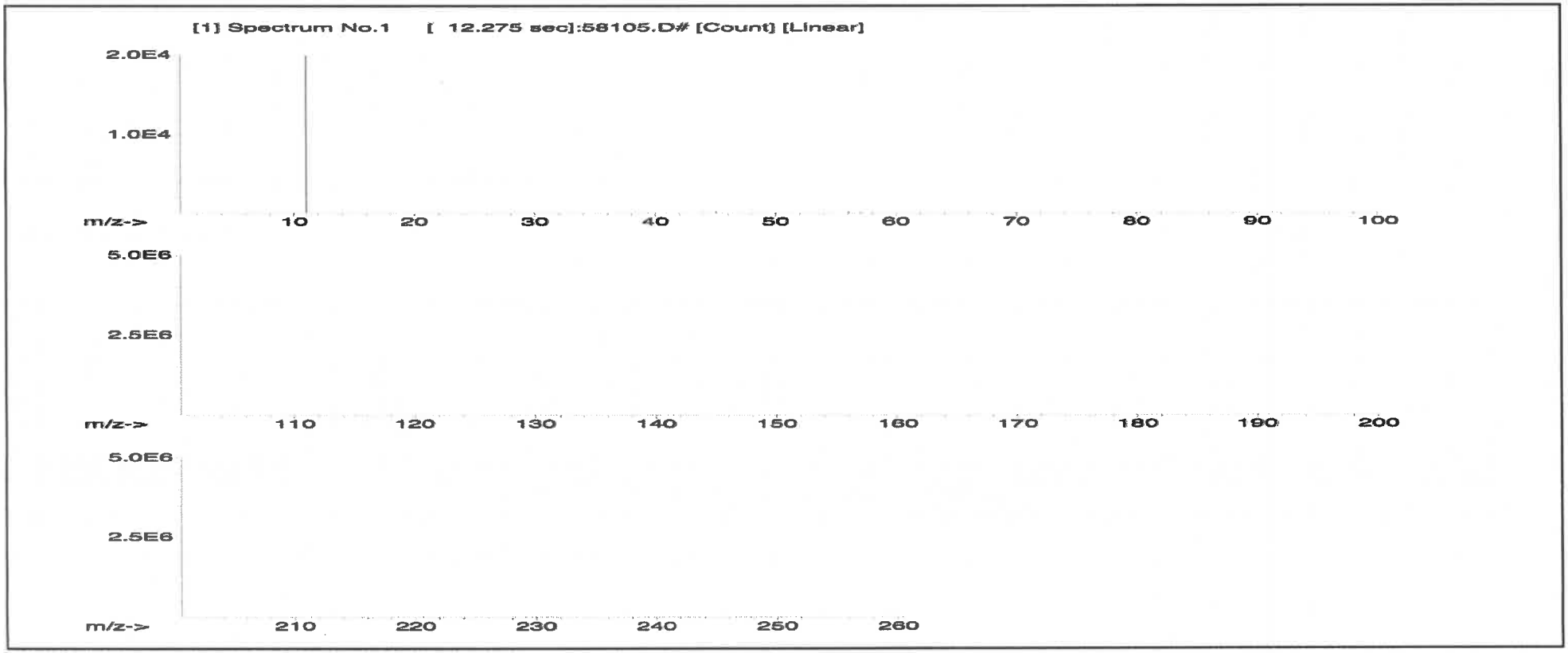
CERTIFIED WEIGHT REPORT:

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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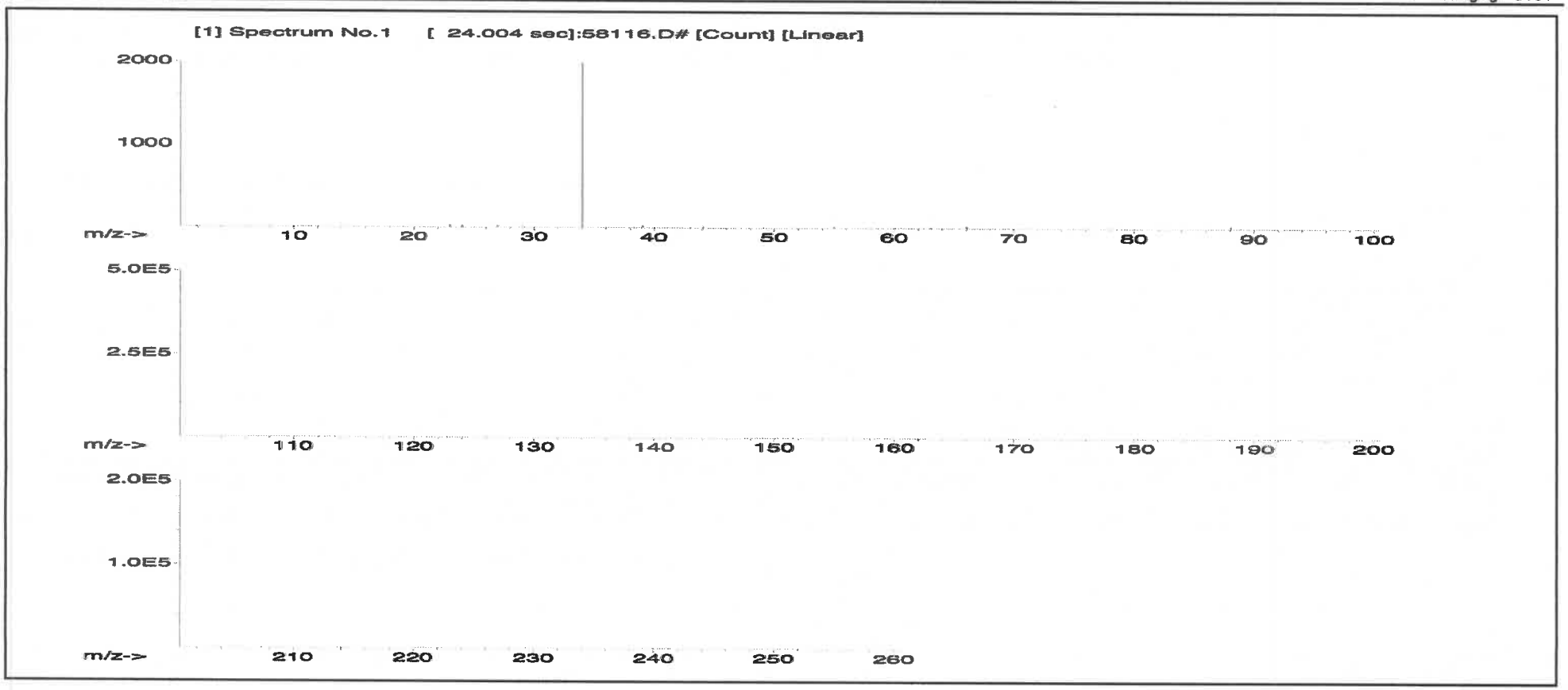
CERTIFIED WEIGHT REPORT:

Part Number:	**57116**			
Lot Number:	**071123**	**Solvent:**	071123	ASTM Type 1 Water
Description:	**Sulfur (S)**			
Expiration Date:	071126			
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):	1999.48	0.058	Flask Uncertainty	

Lot #

Formulated By:	Lawrence Barry	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 sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	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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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5820

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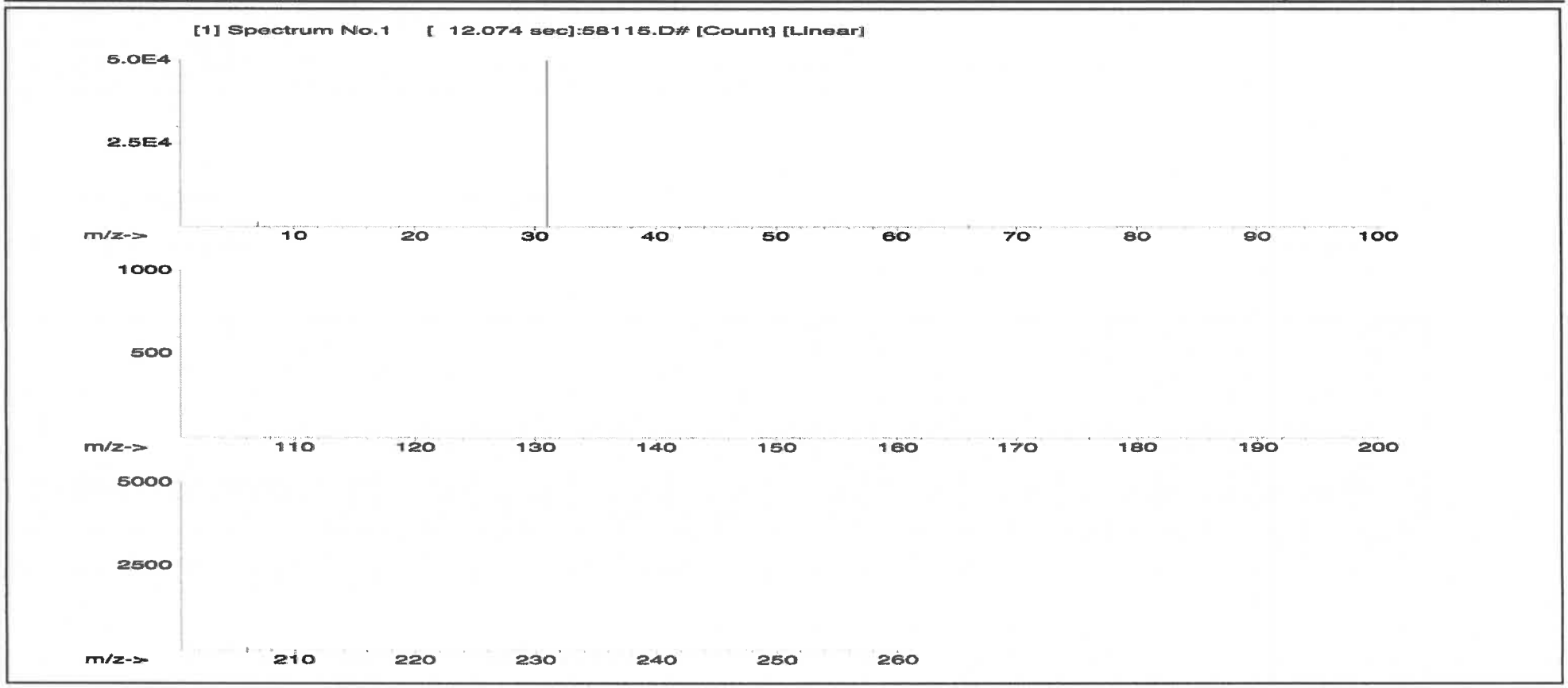
CERTIFIED WEIGHT REPORT:

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:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5923 R: 01/10/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57003
Lot Number: 102423
Description: Lithium (Li)

Expiration Date: 102426
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

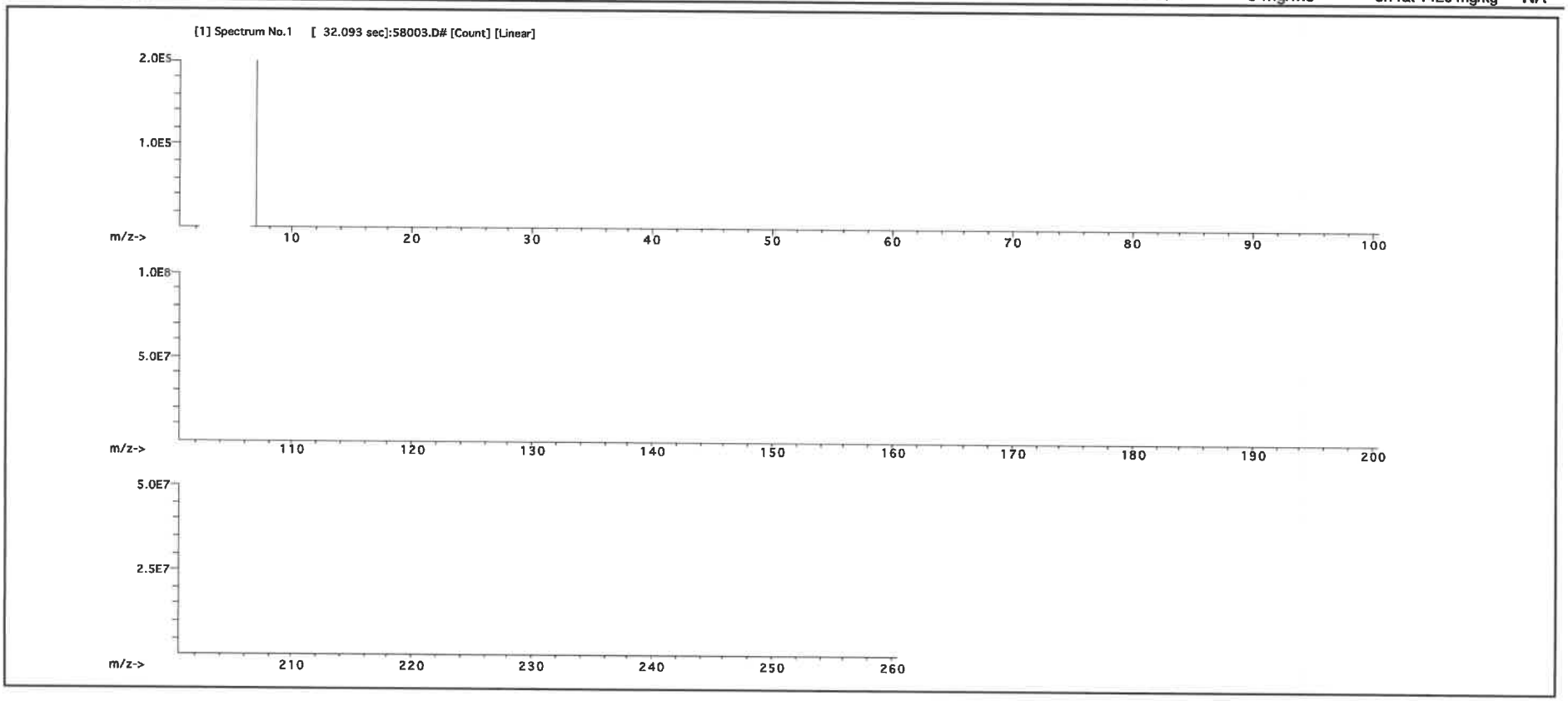
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	102423
Reviewed By:	Pedro L. Rentas	102423

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. Lithium nitrate (Li)	IN019	LIZ042018A1	1000	99.999	0.10	10.0	20.0004	20.0006	**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	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.
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M5962 R! 06/14/24.

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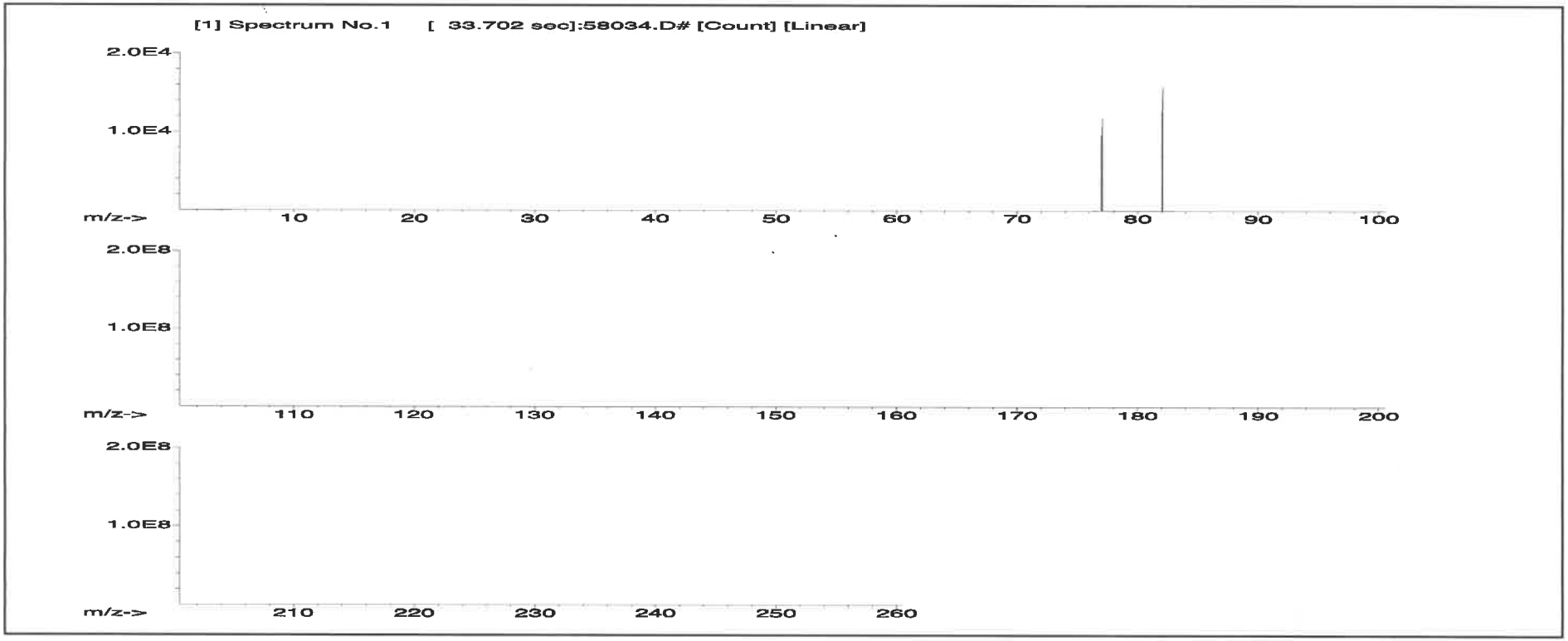
CERTIFIED WEIGHT REPORT:

		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:

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M5969 R: 06/11/24

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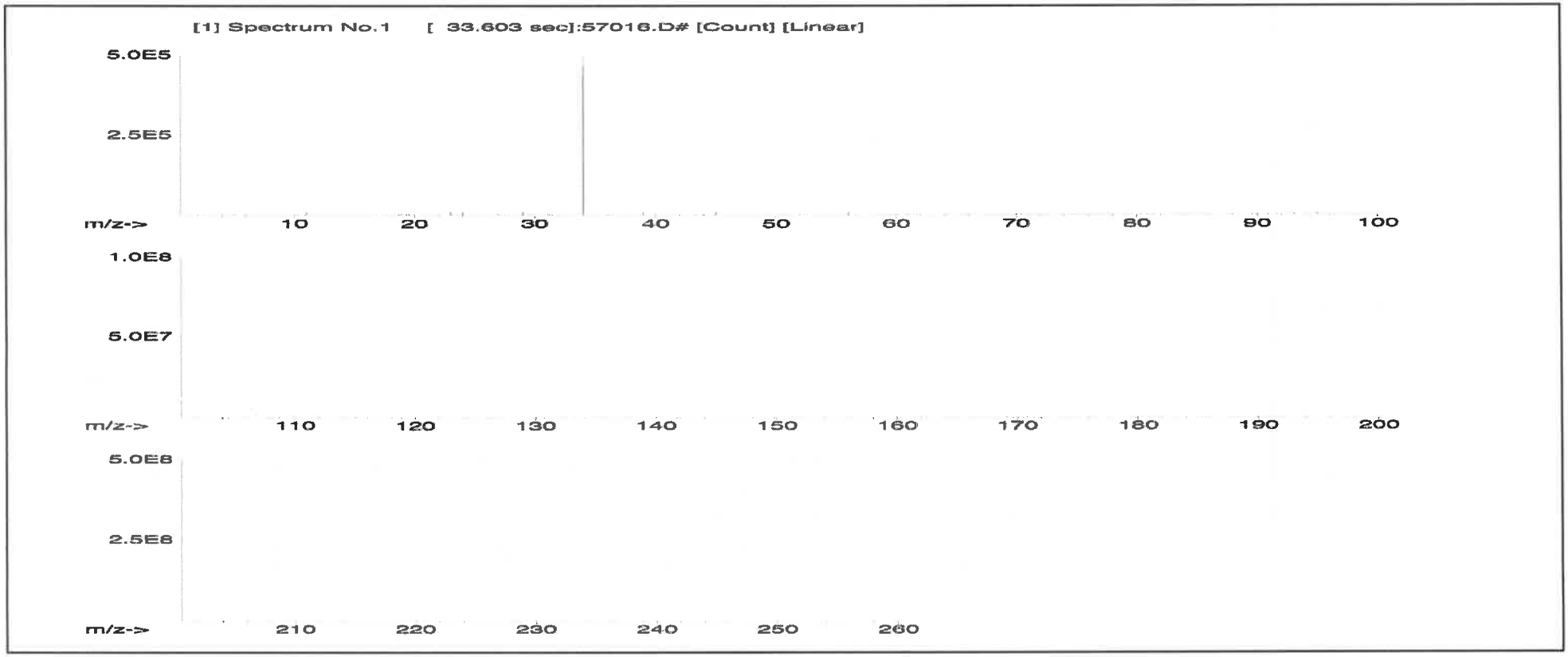
CERTIFIED WEIGHT REPORT:

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



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M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

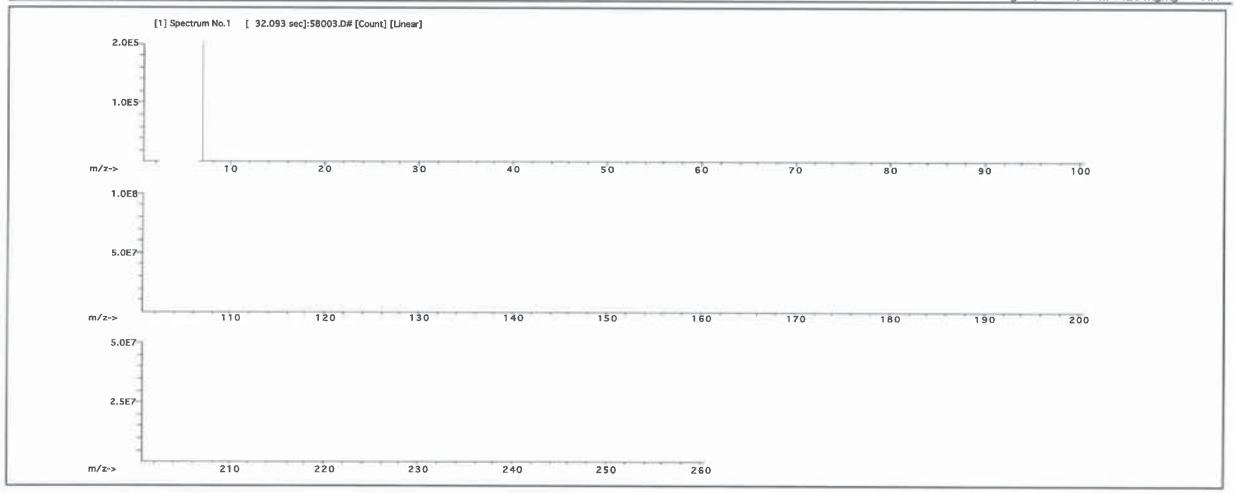
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

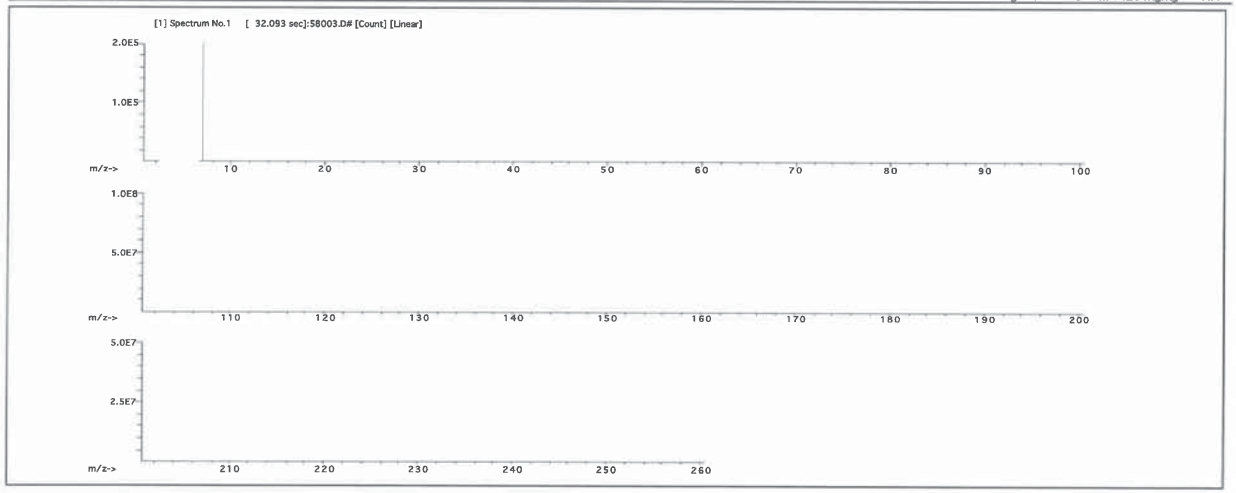
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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M5978, M5979

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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:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = 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:

$X_{CRM/RM} = (\bar{x}_a)\ (u_{char\ a})$

$\bar{x}_a$ = 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	<	0.000536	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

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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

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Certificate of Analysis

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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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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB727800
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 7 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.2 µg/mL**
Lead, Pb	**1 000 ± 4 µg/mL**	**Selenium, Se**	**1 000 ± 6 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 21, 2022

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

11.2 Lot Expiration Date

- December 21, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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R! 08/22/24 M6058, M6059

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1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

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

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

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

11.2 Lot Expiration Date

- August 12, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

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

11.2 Lot Expiration Date

- September 06, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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	

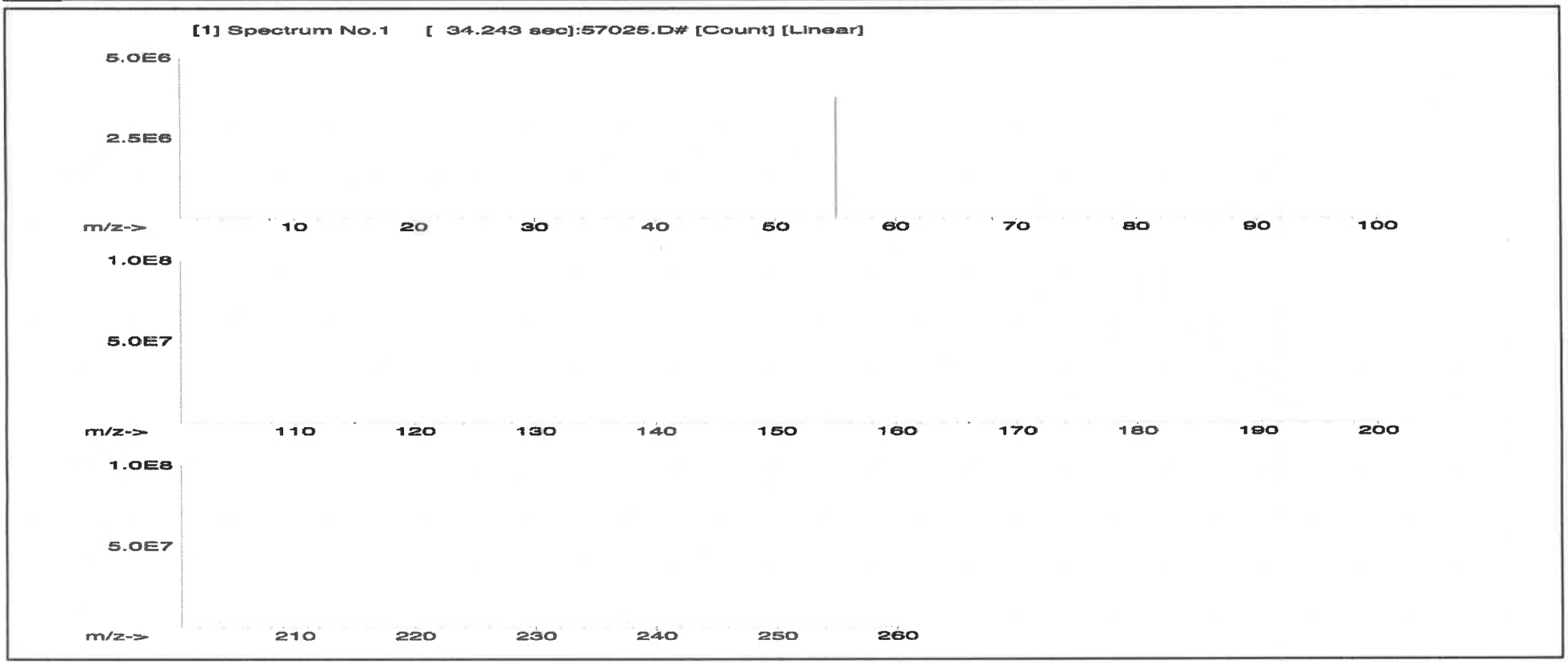
Giovanni Esposito

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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Certificate of Analysis

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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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M6138
R->1/13/25

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 121824
Description: Calcium (Ca)

Expiration Date: 121827
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

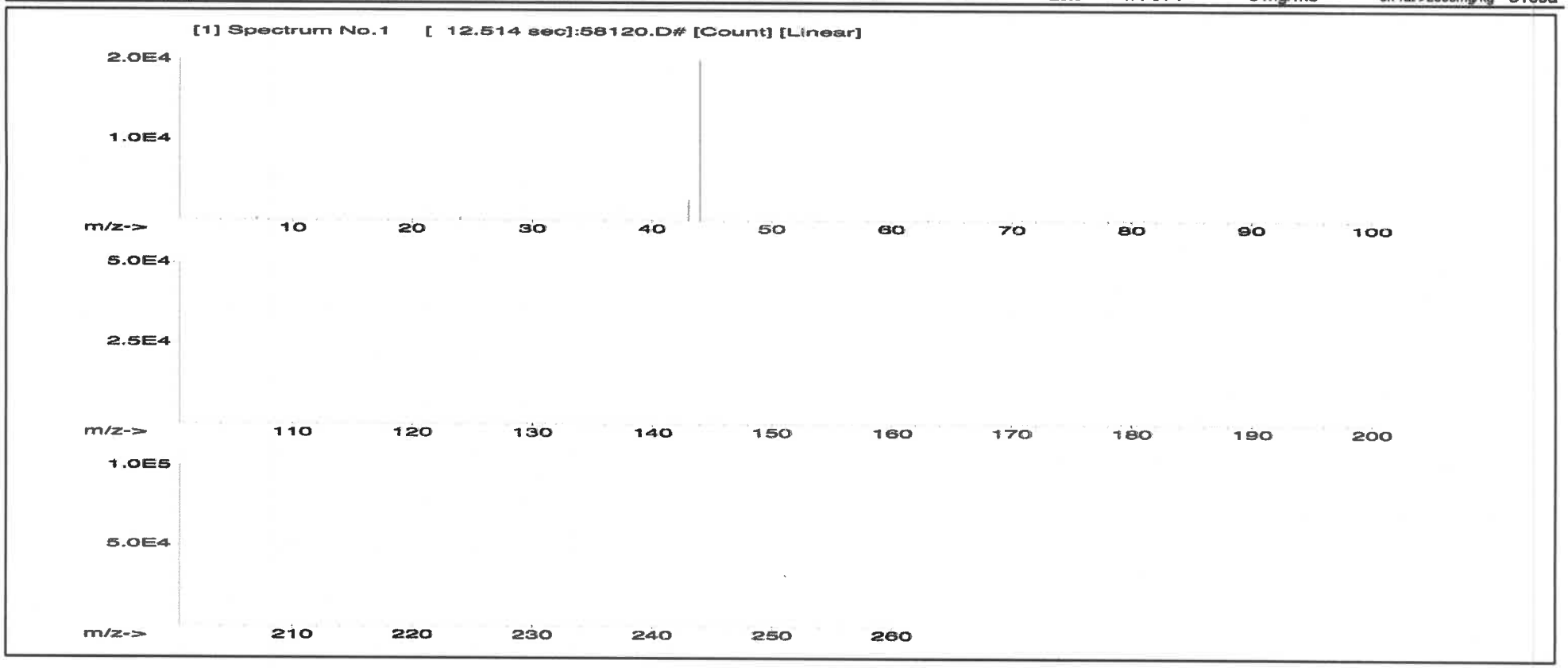
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 121824

Pedro Rentas
Reviewed By: Pedro L. Rentas 121824

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2677	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



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

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

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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CERTIFIED WEIGHT REPORT:

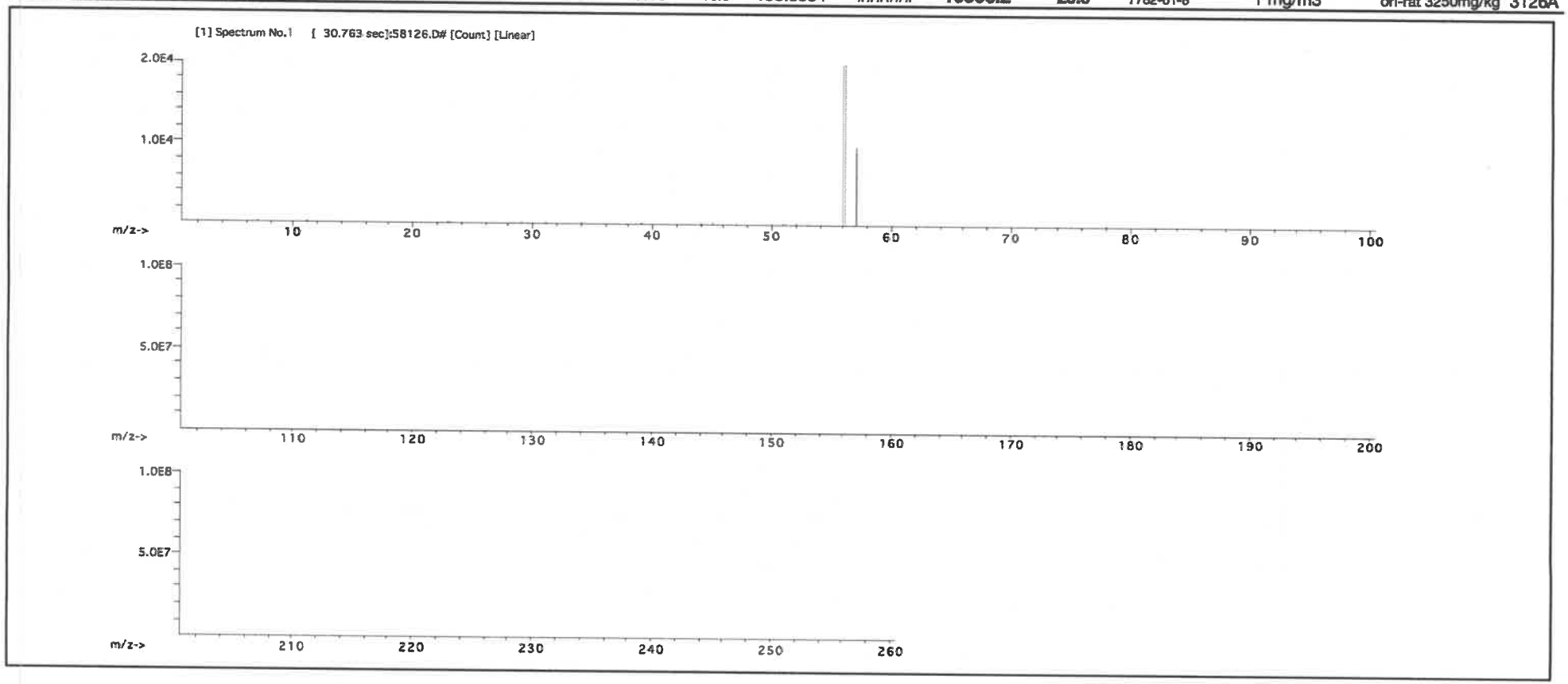
Part Number: 58126 R->1|B|2S
Lot Number: 011025
Description: Iron (Fe) M6140
Expiration Date: 011028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Formulated By:	Benson Chan	011025
Reviewed By:	Pedro L. Rentas	011025

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(III) nitrate nonahydrate (Fe)	IN028	FED082023A1	10000	99.999	0.10	13.0	153.8534	######	**10000.2**	**20.0**	7782-61-8	1 mg/m3	orl-rat 3250mg/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	<0.02	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	T	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:

R-> 1/13/25

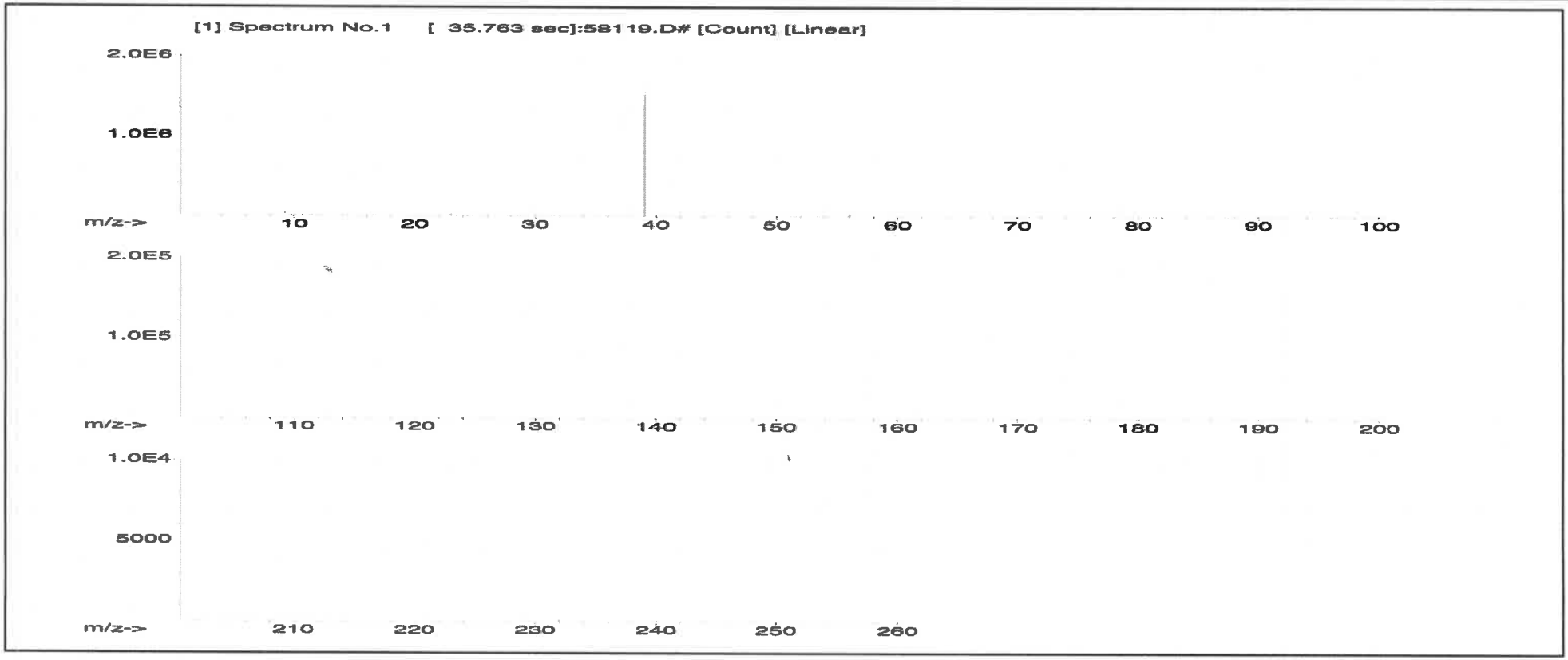
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
Reviewed By:	Pedro L. Rentas	103024

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



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

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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

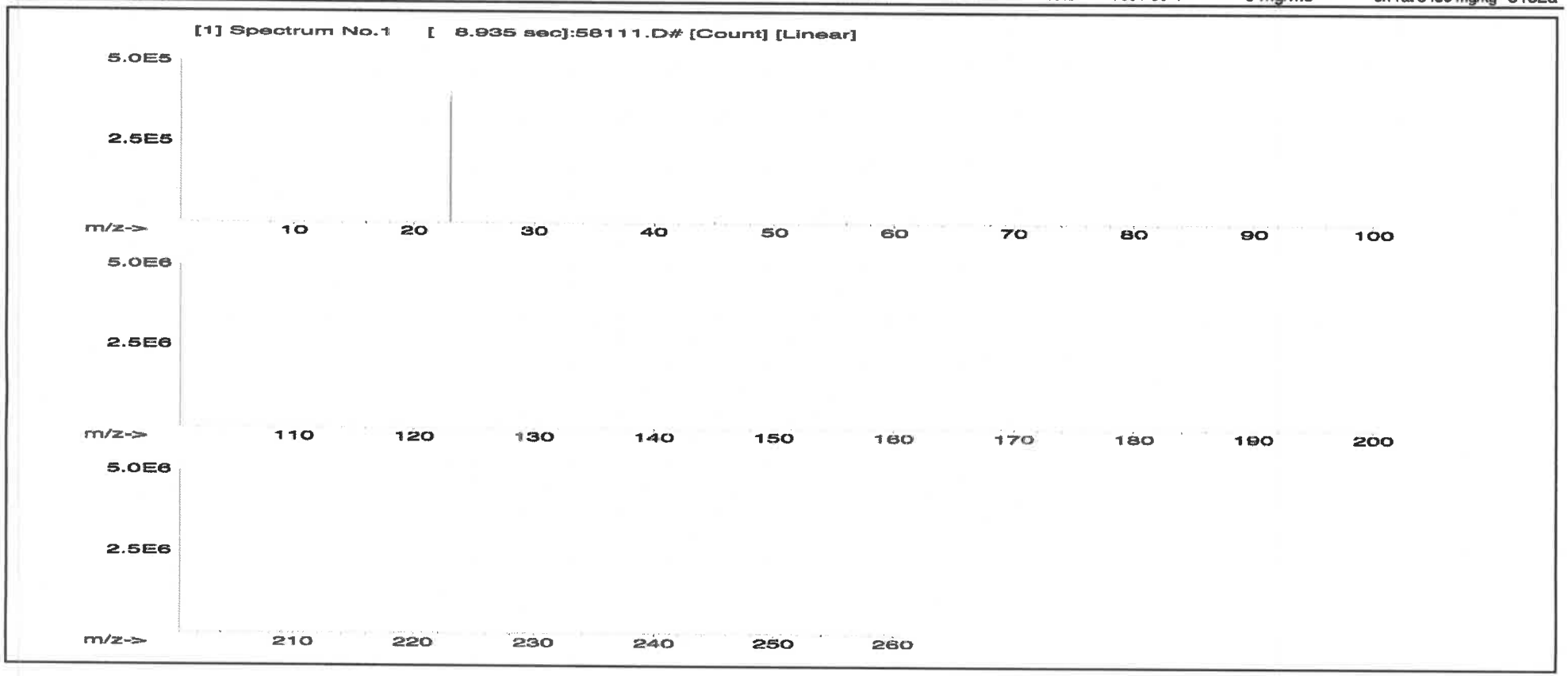
R->1/13/25

M6144

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**072424**			
Description:	**Sodium (Na)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	072427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

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

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

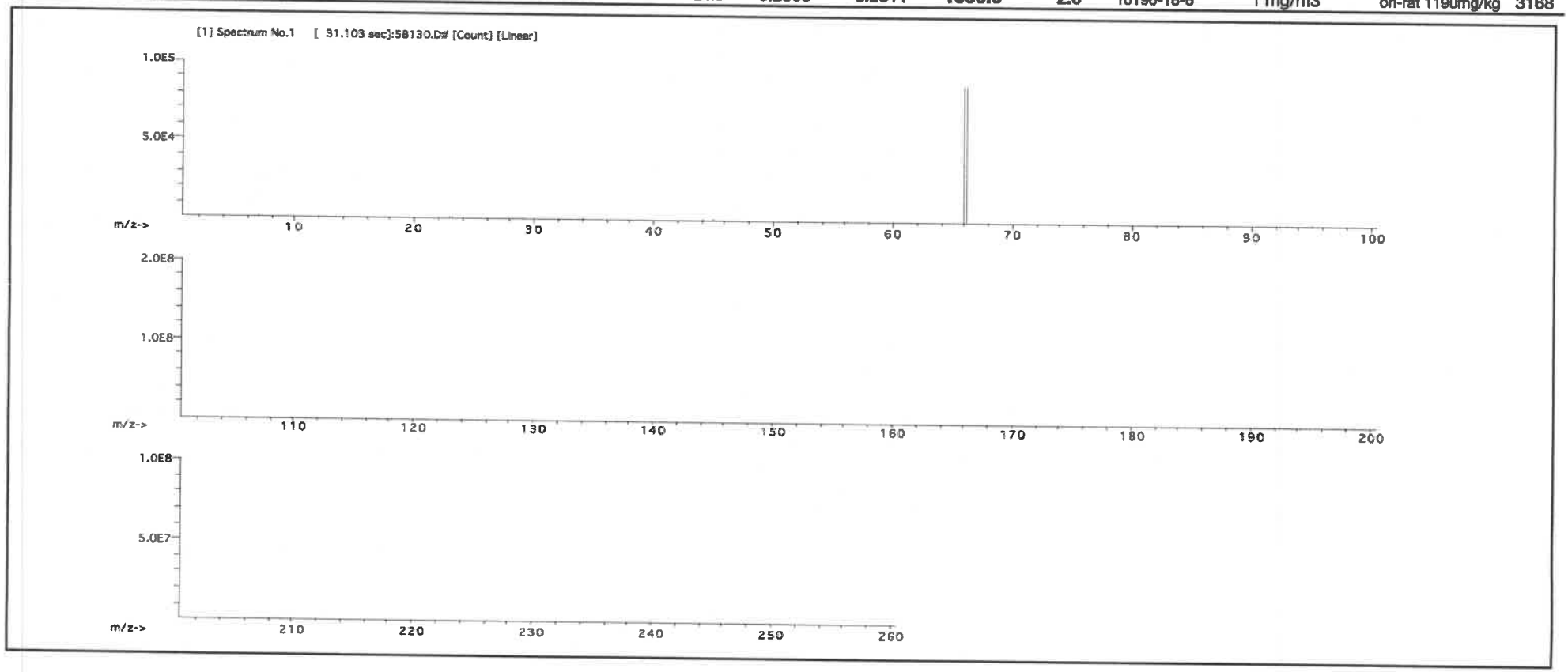
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.1 0.10 Flask Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



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

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-1
Lot Number:	V2-MEB744107
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 1 000 µg/mL ea: Aluminum, Barium, 500 µg/mL ea: Iron, 250 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 125 µg/mL ea: Silver, Copper, 100 µg/mL ea: Chromium, 25 µg/mL ea: Beryllium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**1 000 ± 4 µg/mL**	**Barium, Ba**	**1 000 ± 6 µg/mL**
Beryllium, Be	**24.98 ± 0.12 µg/mL**	**Calcium, Ca**	**2 500 ± 8 µg/mL**
Chromium, Cr	**99.9 ± 0.6 µg/mL**	**Cobalt, Co**	**250.2 ± 1.2 µg/mL**
Copper, Cu	**125.0 ± 0.5 µg/mL**	**Iron, Fe**	**500.0 ± 2.2 µg/mL**
Magnesium, Mg	**2 500 ± 11 µg/mL**	**Manganese, Mn**	**249.9 ± 1.1 µg/mL**
Nickel, Ni	**250.0 ± 1.2 µg/mL**	**Potassium, K**	**2 500 ± 11 µg/mL**
Silver, Ag	**125.0 ± 0.6 µg/mL**	**Sodium, Na**	**2 500 ± 11 µg/mL**
Vanadium, V	**250.0 ± 1.1 µg/mL**	**Zinc, Zn**	**249.9 ± 1.1 µg/mL**

Density: 1.081 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 22, 2024

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

11.2 Lot Expiration Date

- **May 22, 2029**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

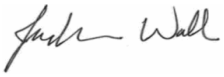
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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-2
Lot Number:	U2-MEB733713
Matrix:	3% (w/v) Tartaric acid 1% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**500.0 ± 2.8 µg/mL**		

Density: 1.017 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Sb	ICP Assay	3102a	140911

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 01, 2023

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

11.2 Lot Expiration Date

- **June 01, 2028**

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

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

11.3 Period of Validity

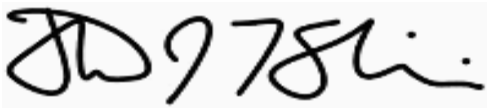
- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

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Christiansburg, VA 24073 USA
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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-CICV-3
Lot Number:	V2-MEB749572
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	500 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 250 µg/mL ea: Cadmium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**500.0 ± 3.1 µg/mL**	**Cadmium, Cd**	**250.1 ± 1.1 µg/mL**
Lead, Pb	**500.0 ± 2.3 µg/mL**	**Selenium, Se**	**500.0 ± 3.2 µg/mL**
Thallium, Tl	**500.0 ± 3.0 µg/mL**		

Density: 1.040 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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X_a = mean of Assay Method A with

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N/A

6.0 INTENDED USE

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

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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: _____

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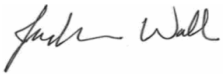
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

R -> 2/13/25

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:

M 6171

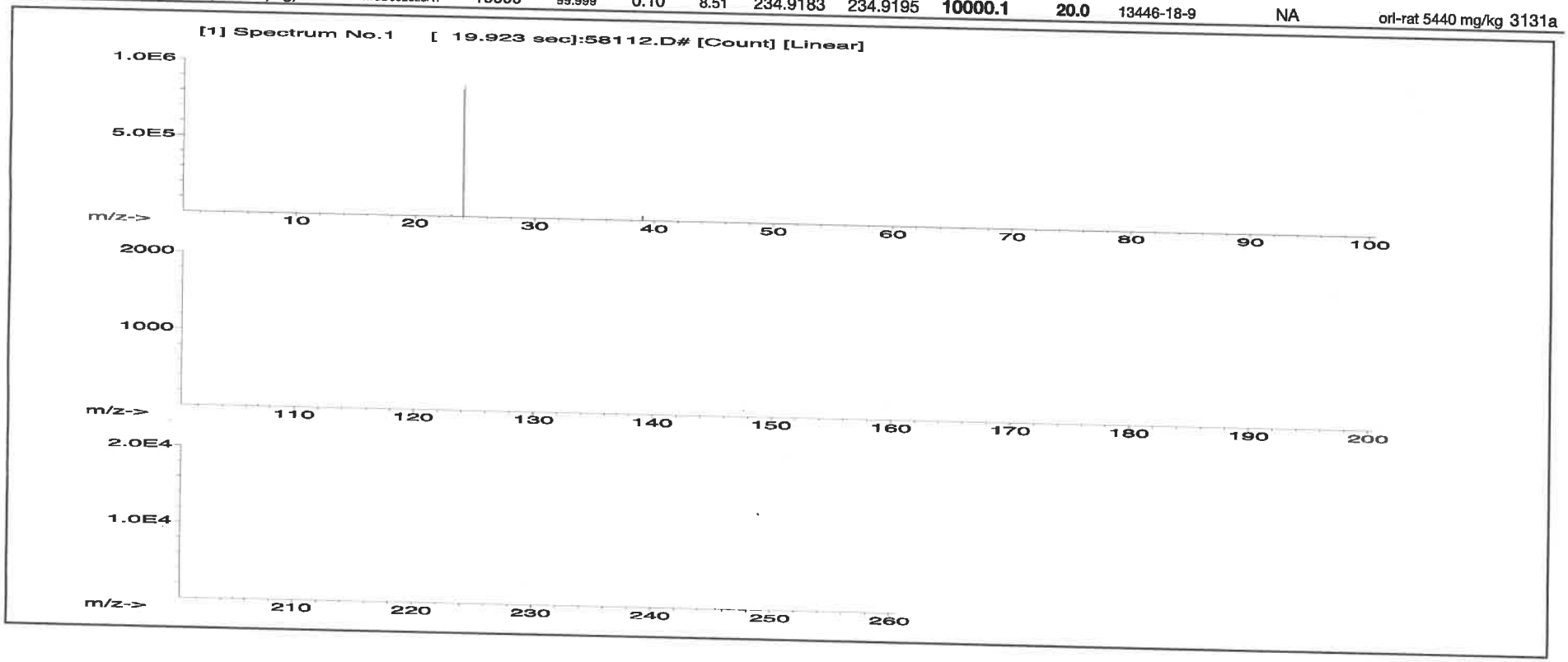
Part Number: 58112
Lot Number: 011525
Description: Magnesium (Mg)

Expiration Date: 011528
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	011525
Reviewed By:	Pedro L. Rentas	011525

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	234.9195	**10000.1**	**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).

INORGANIC VENTURES
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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	V2-MEB742428
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	50.03 ± 0.30 µg/mL	Calcium, Ca	5 000 ± 16 µg/mL
Chromium, Cr	200.0 ± 1.1 µg/mL	Cobalt, Co	500.0 ± 2.3 µg/mL
Copper, Cu	250.0 ± 1.1 µg/mL	Iron, Fe	1 000 ± 4 µg/mL
Magnesium, Mg	5 000 ± 22 µg/mL	Manganese, Mn	499.9 ± 2.2 µg/mL
Nickel, Ni	500.1 ± 2.3 µg/mL	Potassium, K	5 000 ± 22 µg/mL
Silver, Ag	250.0 ± 1.1 µg/mL	Sodium, Na	5 000 ± 22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.117 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
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

March 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

- March 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:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certified Reference Material CRM

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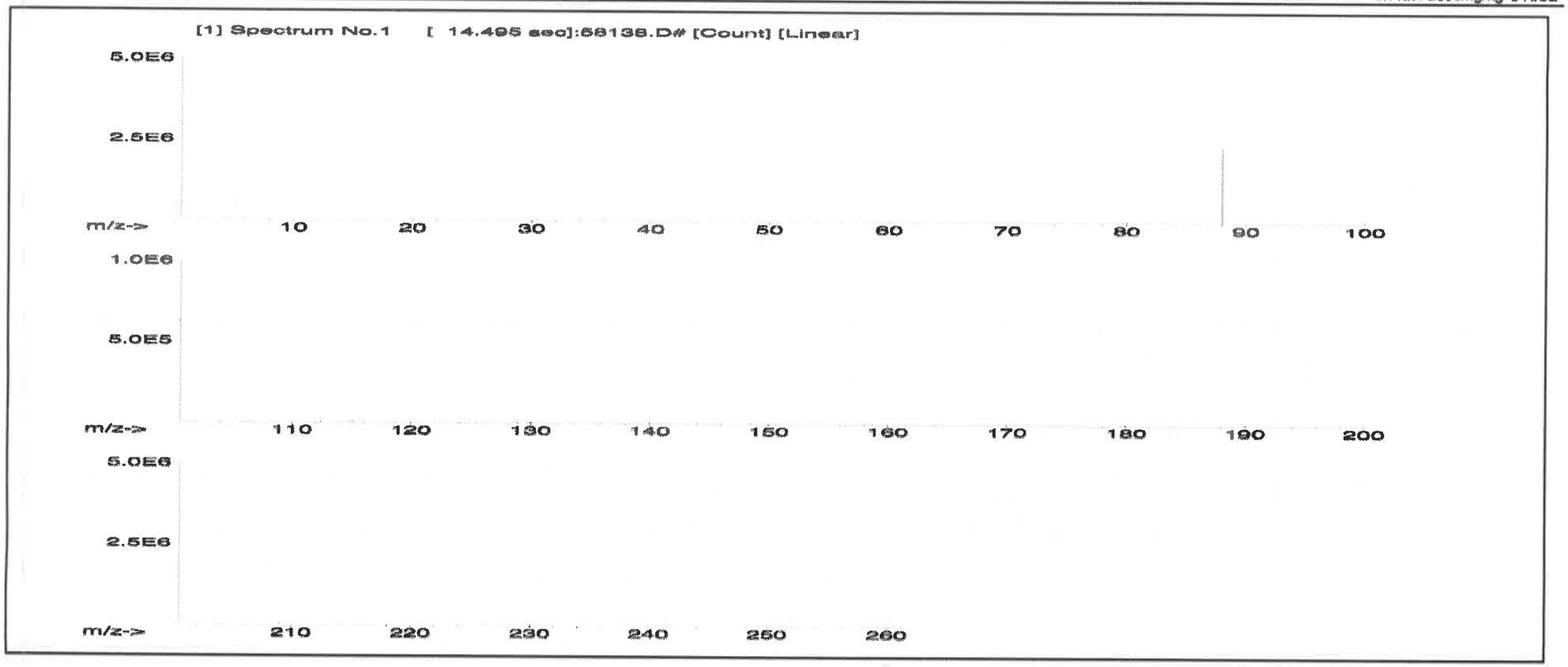
CERTIFIED WEIGHT REPORT:

R->8/6/29

Part Number:	57038		**Solvent:**	Lot # 24002546	Nitric Acid
Lot Number:	092724				
Description:	Strontium (Sr)		2%	40.0 (mL)	Nitric Acid
Expiration Date:	092727	M6176			
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		

Formulated By:	Benson Chan	092724
Reviewed By:	Pedro L. Rentas	092724

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. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85481	**1000.0**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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

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

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Certified Reference Material CRM

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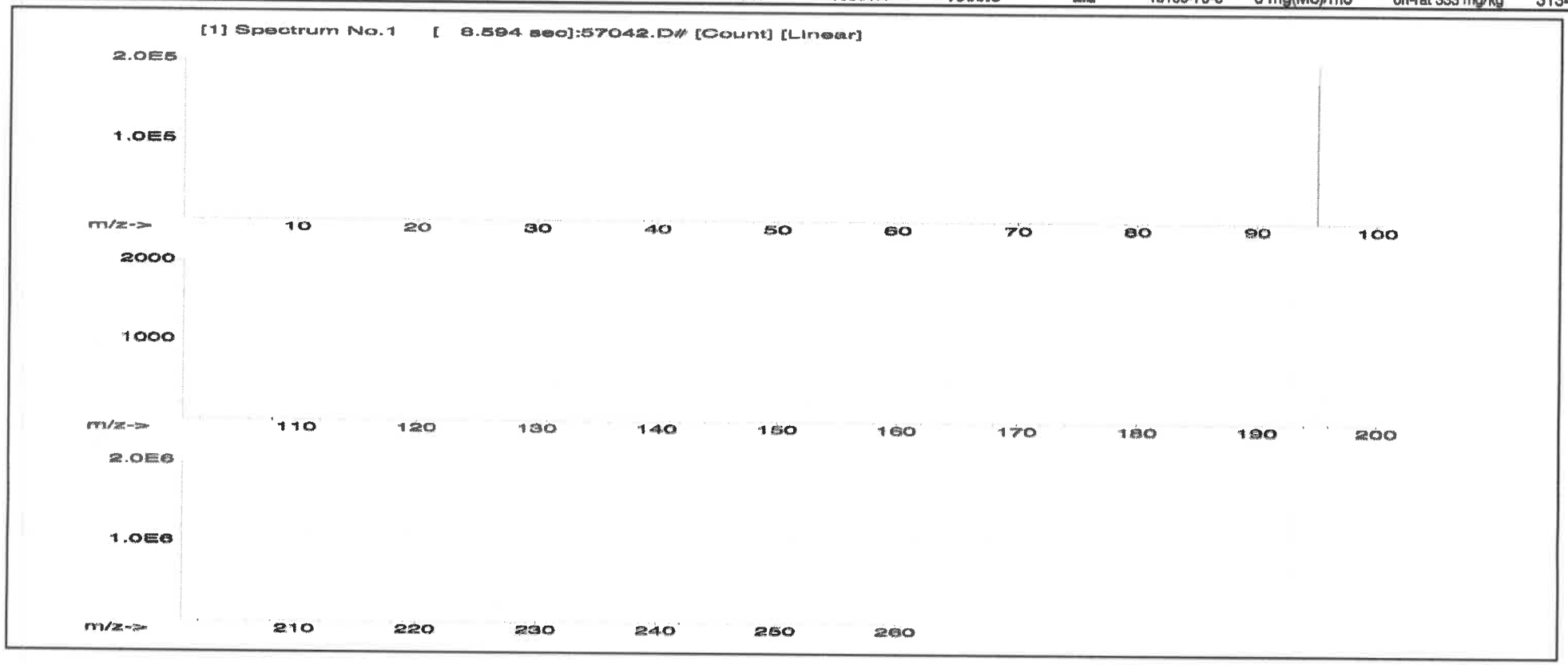
CERTIFIED WEIGHT REPORT:

R→ 8/6/25
M6177

		Lot #	Solvent:		
Part Number:	57042	MKBQ8597V	Ammonium hydroxide		
Lot Number:	080525	080525	ASTM Type 1 Water		
Description:	Molybdenum (Mo)	0.5%	10.0 (mL)	Ammonium hydroxide	
Expiration Date:	080528				
Recommended Storage:	Ambient (15 - 30 °C)				
Nominal Concentration (µg/mL):	1000				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	1999.41	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	080525
Reviewed By:	Pedro L. Rentas	080525

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 molybdate (Mo)	58142	112322	0.1000	200.0	0.084	1000	10001.4	**1000.5**	**2.2**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



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	T	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 by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (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).
Rev 1.0, 2/25/2025

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R>8/6/28
M6178

Part Number:	57082		**Solvent:**	Lot # 24014457	Nitric Acid
Lot Number:	031525				
Description:	Lead (Pb)		2%	40.0 (mL)	Nitric Acid
Expiration Date:	031528				
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	0.10 Flask Uncertainty			

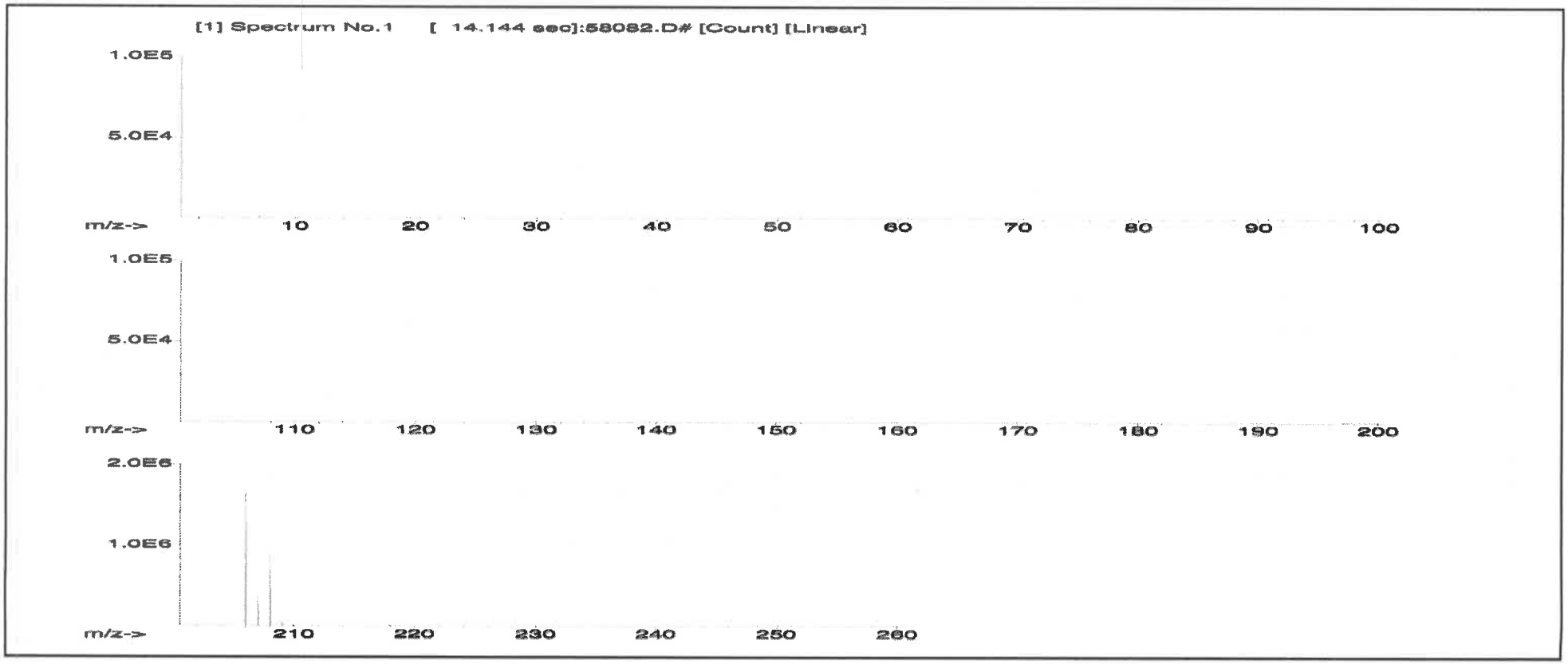
Giovanni Esposito

Formulated By:	Giovanni Esposito	031525

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031525

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	3.20015	3.20067	**1000.2**	**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	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	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

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

M6179
R -> 6/2/24

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:	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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Certificate of Analysis

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	W2-MEB752149
Matrix:	5% (v/v) HNO3

M6180
R-7/22/23

Value / Analyte(s):	1 000 µg/mL ea:	
	Potassium,	
	600 µg/mL ea:	
	Phosphorus,	
	300 µg/mL ea:	
	Sodium,	Iron,
	200 µg/mL ea:	
	Magnesium,	Aluminum,
	Cerium,	Selenium,
	Thallium,	
	100 µg/mL ea:	
	Lead,	Calcium,
	80 µg/mL ea:	
	Arsenic,	
	70 µg/mL ea:	
	Mercury,	
	50 µg/mL ea:	
	Nickel,	
	40 µg/mL ea:	
	Chromium,	
	30 µg/mL ea:	
	Copper,	Boron,
	Vanadium,	
	20 µg/mL ea:	
	Zinc,	Strontium,
	Barium,	Beryllium,
	Cadmium,	Cobalt,
	Manganese,	Lithium,
	7.5 µg/mL ea:	
	Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.2 ± 0.7 µg/mL	Arsenic, As	80.1 ± 0.5 µg/mL
Barium, Ba	20.02 ± 0.12 µg/mL	Beryllium, Be	20.02 ± 0.11 µg/mL
Boron, B	30.02 ± 0.15 µg/mL	Cadmium, Cd	20.04 ± 0.09 µg/mL
Calcium, Ca	100.1 ± 0.3 µg/mL	Cerium, Ce	200.2 ± 1.0 µg/mL
Chromium, Cr	40.02 ± 0.26 µg/mL	Cobalt, Co	20.03 ± 0.09 µg/mL
Copper, Cu	30.03 ± 0.13 µg/mL	Iron, Fe	300.3 ± 1.3 µg/mL
Lead, Pb	100.1 ± 0.5 µg/mL	Lithium, Li	20.03 ± 0.09 µg/mL
Magnesium, Mg	200.2 ± 0.9 µg/mL	Manganese, Mn	19.99 ± 0.09 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.05 ± 0.22 µg/mL
Phosphorus, P	600.5 ± 2.9 µg/mL	Potassium, K	1 001 ± 4 µg/mL
Selenium, Se	200.2 ± 1.1 µg/mL	Silver, Ag	7.52 ± 0.03 µg/mL
Sodium, Na	300.3 ± 1.3 µg/mL	Strontium, Sr	20.02 ± 0.10 µg/mL
Thallium, Tl	200.2 ± 1.0 µg/mL	Vanadium, V	30.02 ± 0.13 µg/mL
Zinc, Zn	20.05 ± 0.09 µg/mL		

Density: 1.037 g/mL (measured at 20 ± 5 °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
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
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	160830
Ce	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
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	3152a	200413
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	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° - 25° C to minimize the effects of transpiration. Use at 20° ± 5° 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

April 08, 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

- April 08, 2029

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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M6181
R -> 7/22/28

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-2
Lot Number:	V2-MEB743480
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 ± 0.5 µg/mL	Molybdenum, Mo	40.05 ± 0.22 µg/mL
Silica, SiO2	200.3 ± 1.4 µg/mL	Tin, Sn	70.1 ± 0.4 µg/mL
Titanium, Ti	20.03 ± 0.12 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
Sb	ICP Assay	3102a	140911
SiO2	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 07, 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 07, 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:

Thomas Kozikowski
Stock VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

R→03/06/24

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.

M6182

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.

R→03/06/24

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.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M6184

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

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(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
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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.

Nitric Acid 69%
CMOS

M6187
R.D :- 08/08/25

avantor™ | J.T.Baker®

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

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6027

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

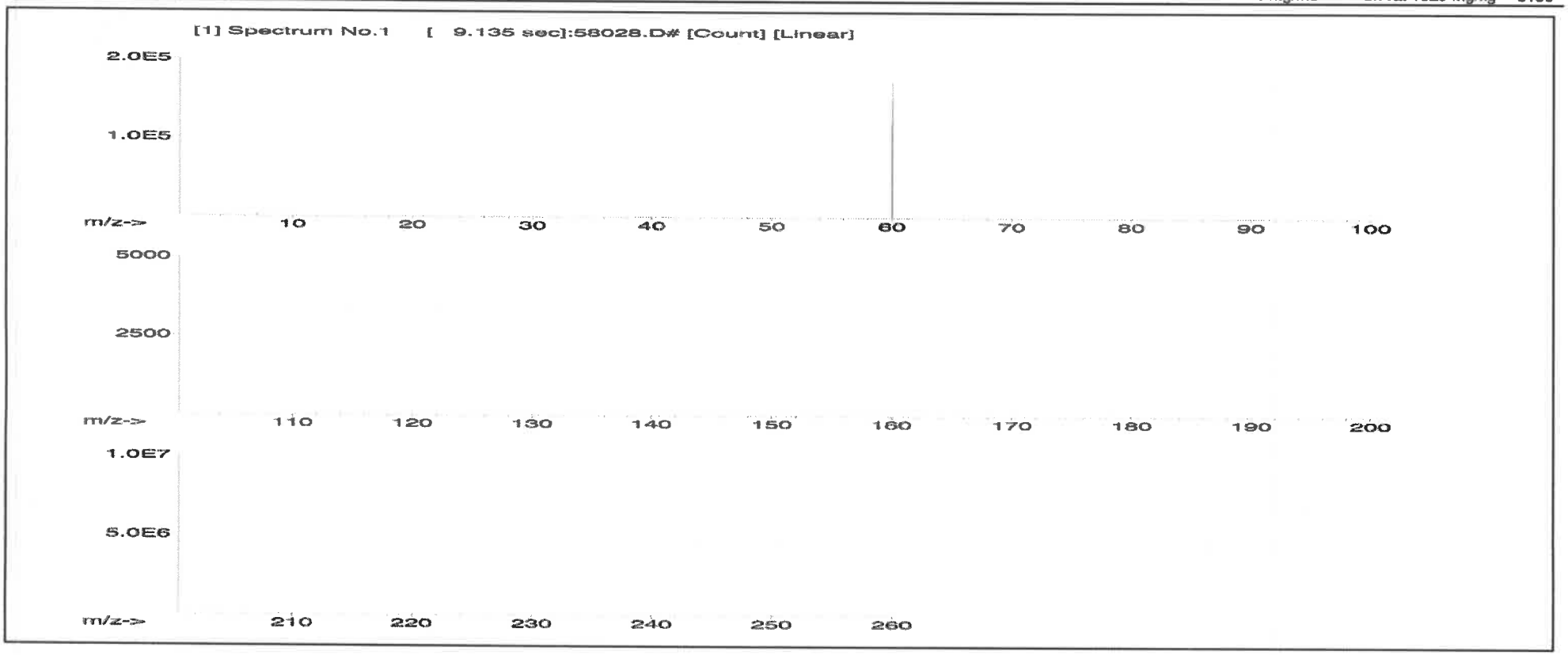
R 8/05/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**062024**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062027			
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	062024
Reviewed By:	Pedro L. Rentas	062024

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

(T) = Target analyte

Physical Characterization:

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* 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

M6030

R: 8/5/24

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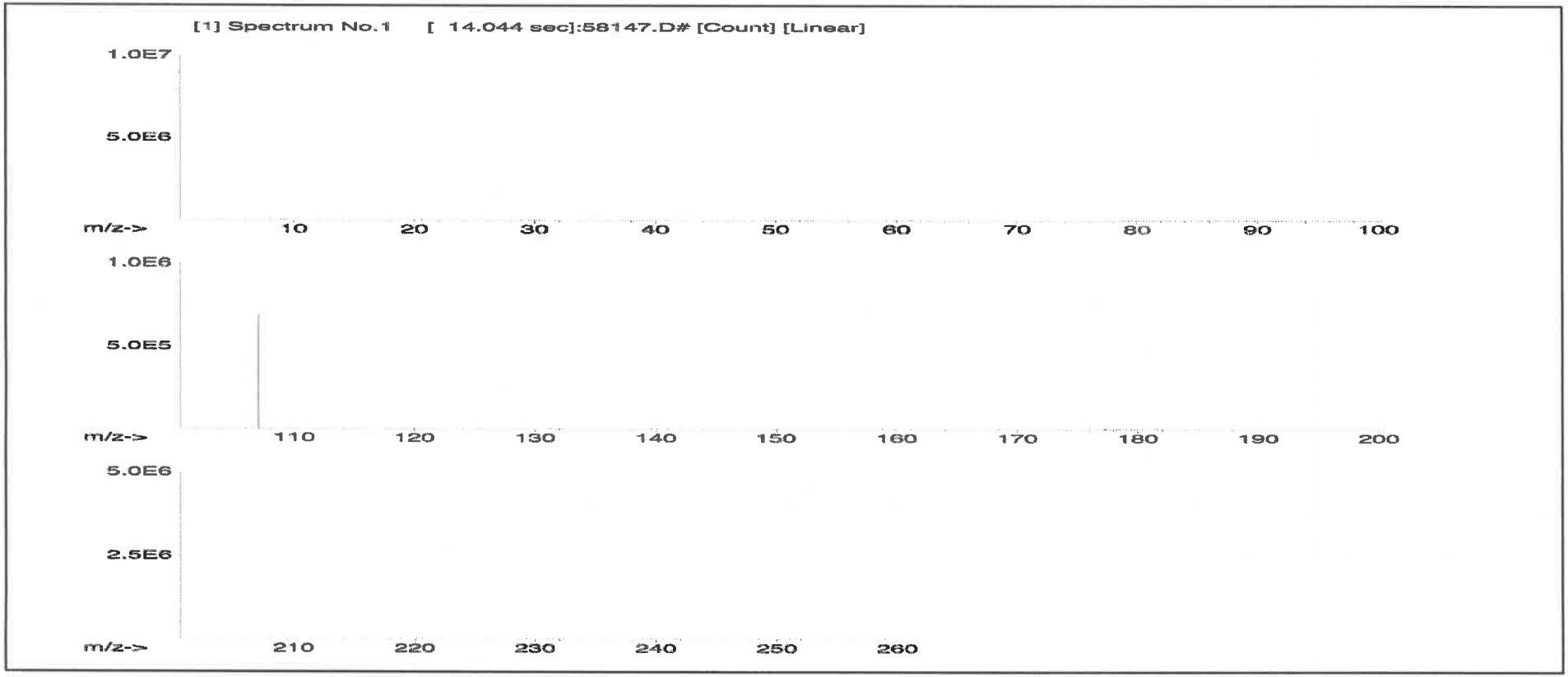
CERTIFIED WEIGHT REPORT:

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:

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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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opened : 3/24/25

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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CERTIFIED WEIGHT REPORT:

M6160

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)

Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

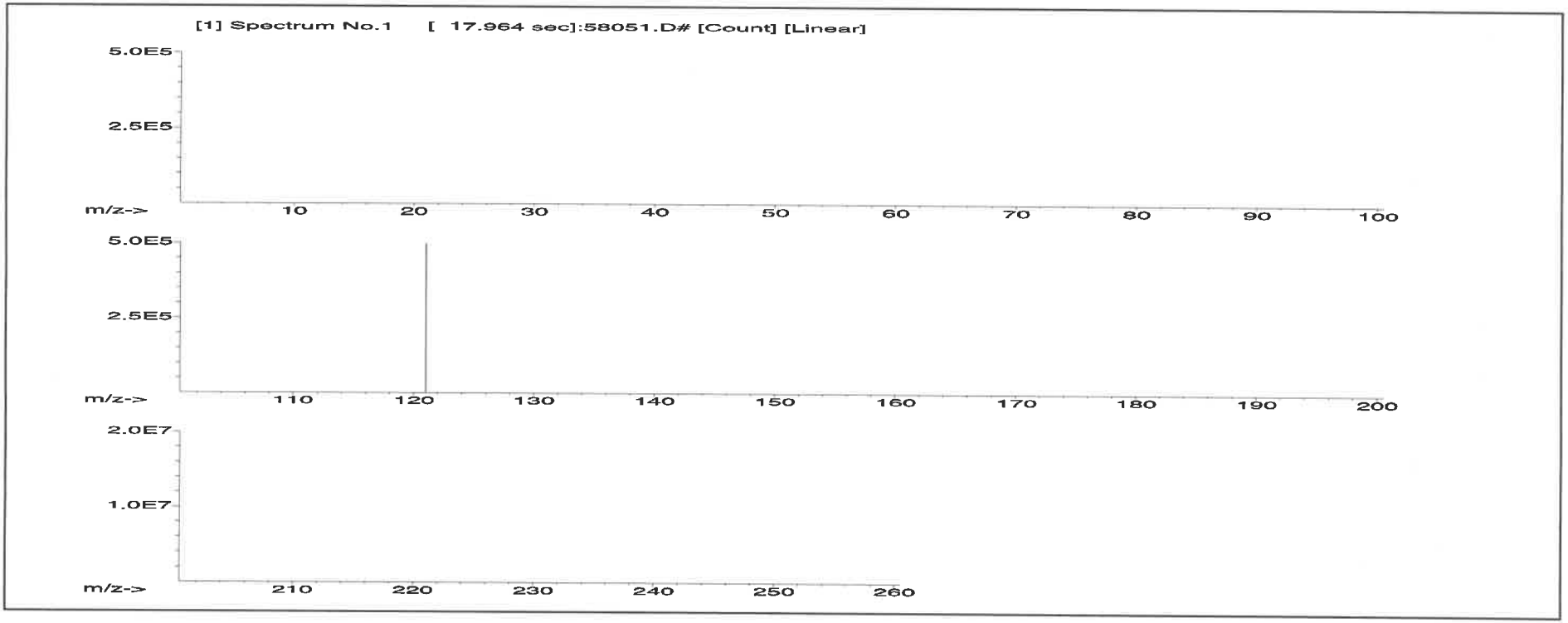
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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

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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

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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).

INORGANIC VENTURES™

Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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

1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 888.01 ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

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

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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

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

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

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

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

11.2 Lot Expiration Date

- **March 03, 2028**

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

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

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

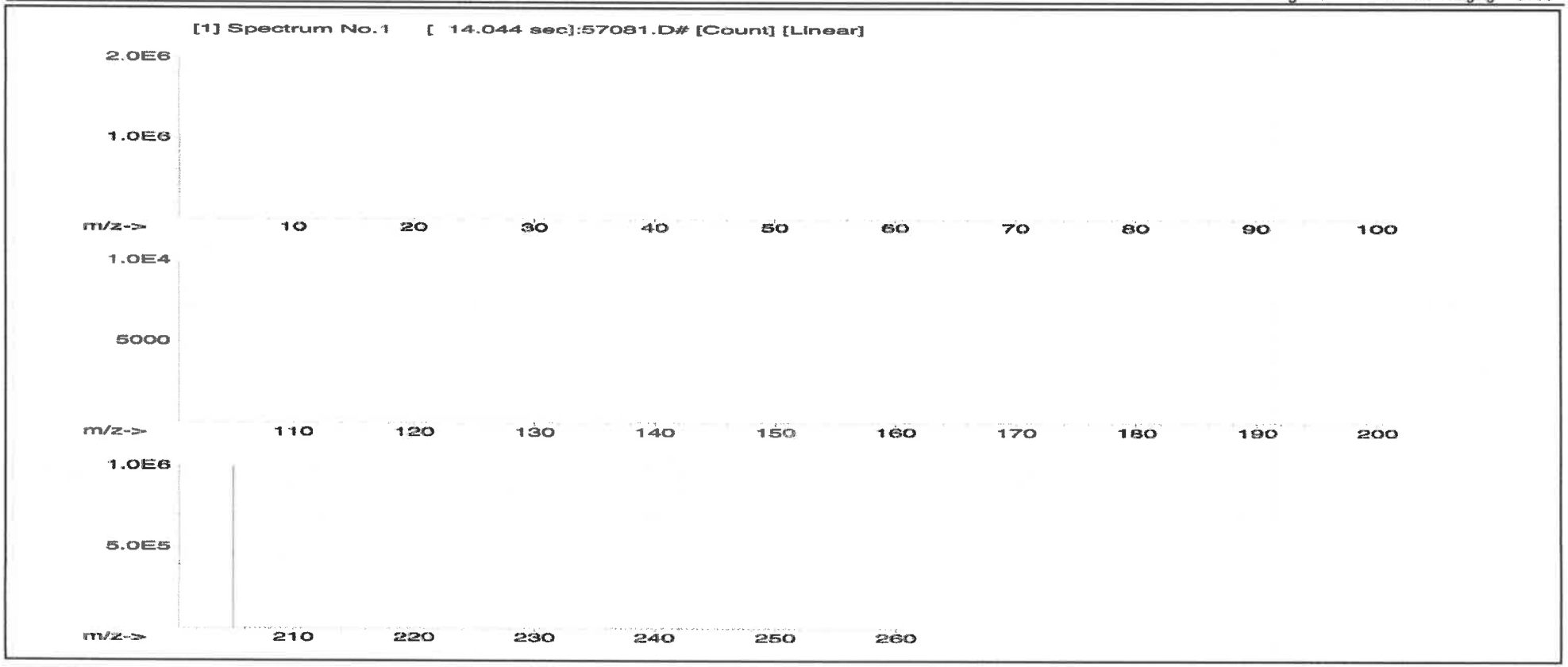
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

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

Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

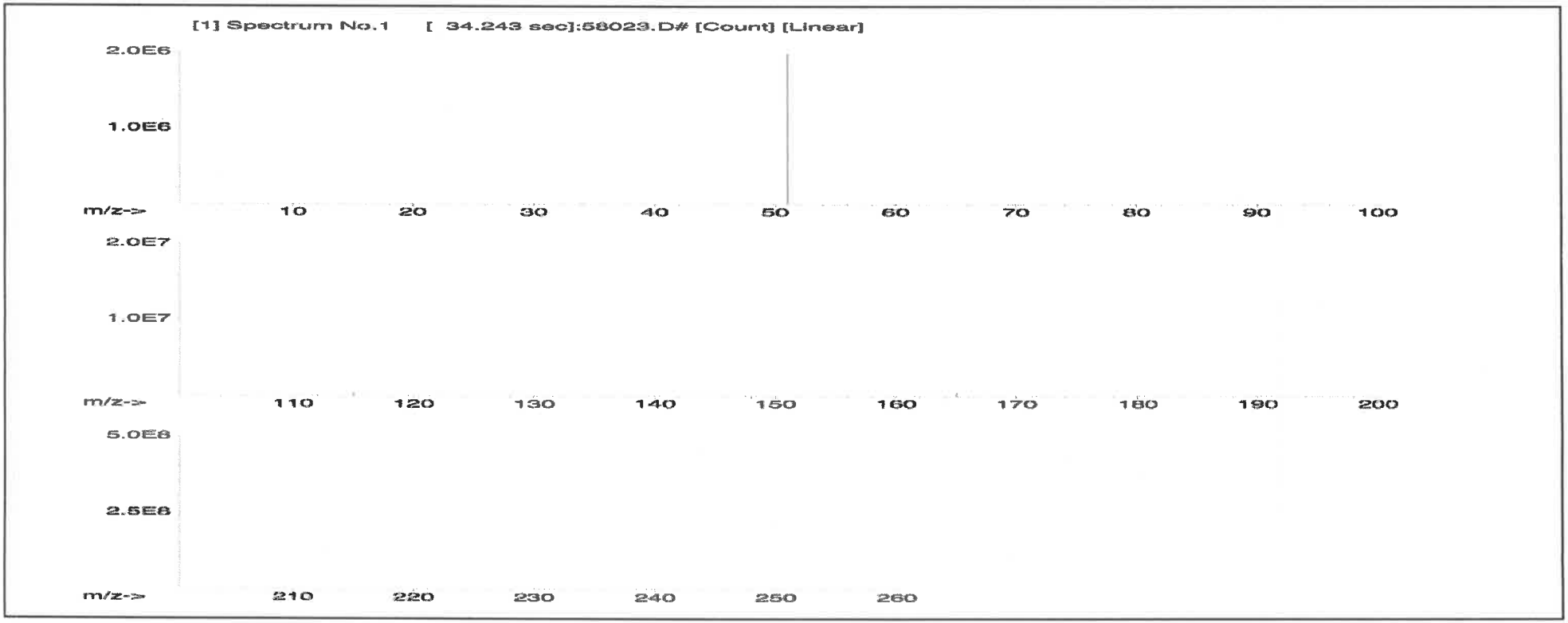
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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

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

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

(T) = Target analyte

Physical Characterization:

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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. Q 3207
COC Number 2045141

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CHA Consulting, Inc.
ADDRESS: 3 Winners Circle
CITY Albany STATE: NY ZIP: 12205
ATTENTION: Carrie Robinson
PHONE: 518-453-8703 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NYSOMH Emergency Serves
PROJECT NO.: 103389.000901 LOCATION: Kingsboro PC
PROJECT MANAGER: Carrie Robinson
e-mail: crobinson@chasolutions.com
PHONE: 518-453-8703 FAX:

CLIENT BILLING INFORMATION

BILL TO: Invoices@chasolutionspc.com P#: 103389.000-02 Seq 1
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): 5 days DAYS*
EDD: 5 days DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

ANALYSIS

1. TCLP Lead EPA Method 6010 / 1311
2.
3.
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 E	1	2	3	4	5	6	7	8	9	COMMENTS
1.	Drum#1 - Poly Sheeting	solid	X		9/25/25	1000	1	X										
2.	Drum#2 - PPE	↓	X		↓	1005	1	X										
3.	Drum#3 - Paint Chips	↓	X		↓	1010	1	X										
4.																		
5.																		
6.						RR (CHA)												
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

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	9/25/25 1210	1. 1210 9-25-25
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1730 9-25-25	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 1.9 °C
Comments:

Page 1 of 1

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312